Sugar Ultimate 8.0 Administration Guide

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Sugar Ultimate 8.0 Administration Guide

This guide describes options that enable Sugar administrators to configure the application to meet their organization's requirements.

Last Modified: 2018-03-28 22:32:20

Introduction

Overview

Welcome to Sugar - a commercial Customer Relationship Management (CRM) application. Strong relationships are at the core of every organization's success. Sugar brings ease and order to the creation, development, and maintenance of your organization's important relationships.

Sugar consists of interrelated records in modules such as Accounts, Contacts, Opportunities, Cases, Meetings, Emails, etc. and wraps your data in an intuitive user interface which helps make sense of these different elements of your business. Whatever your organization's focus - sales, marketing, support, or other ventures - Sugar's flexible modules bend to align with your business' models and practices. Manage your relationships from inception to fruition and beyond with Sugar's built-in modules and relationships as well as your custom modules and configurations available to Sugar administrators.

Core Admin Features

- <u>User</u>, <u>Password</u>, <u>Team</u>, and <u>Role</u> management to manipulate user access
- <u>Email</u> management to configure incoming and outgoing system email accounts and behaviors
- <u>System</u> management to control functional aspects and system-wide preferences within Sugar
- <u>PDF Manager</u> to create templates controlling the appearance of generated PDF files
- <u>Studio</u> to tailor existing modules to your organization's needs by adding or modifying fields, relationships, and layouts
- Module Builder to create new, custom modules as needed to fully match

your organization's processes

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Admin Wizard

Overview

Sugar offers administrators a wide range of configuration options to set up their account. Upon your initial log into Sugar, you will go through configuring some basic settings (i.e. Your Information, Your Locale, etc.) for your user profile. You may skip these steps and configure these settings in your user preferences at a later time. Once your user profile set up is complete, you will be able to navigate to a specific area of Sugar to perform various administrative functions (e.g. importing data, creating users, configuring the application via Studio, etc.) as well.Please note that system administrators can also set up each user's basic settings when creating a user in Sugar. This documentation will cover the various options available when first accessing your Sugar account.

Login Screen

The Sugar login screen is where you enter your login credentials (user name and password) to access your instance. Enter in your instance URL (e.g. https://example.sugarondemand.com) on your web browser to load Sugar's login screen. If you do not know your instance URL or login credentials, please reach out to another system administrator in your organization for assistance. Sugar's Admin Wizard will launch upon your first successful login allowing you to configure various system-wide settings as well as some personal settings.

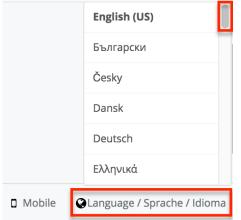
🗊 SUGAF	CRM
User Name	
Password	
Forgot Password?	Log In

Language

Users have the option to choose the primary language they want to be displayed in Sugar by clicking the Language icon on the bottom right of the Login screen. The Language dropdown list will appear allowing you to select the appropriate language you want to be displayed in your Sugar account. The out-of-the-box default language in Sugar is English (US), but administrators can change the default language globally via Admin > Locale. For more information on configuring the default language in Sugar, please refer to the Locale section of the System documentation. Once the default language is changed, it will display as the default selection on the login screen for all users.

Please note that you must select the language that you want to be displayed each time you log in, otherwise the default language will display in Sugar.

Administrators can also configure what languages are available to select in the Language dropdown list via Admin > Languages. For more information on managing the available languages, please refer to the <u>Languages</u> section of the System documentation.



The following languages are available to display in Sugar:

Albanian	Hungarian
Arabic	Italian
Brazilian Portuguese	Japanese
Bulgarian	Korean
Catalan	Latvian
Chinese (Simplified)	Lithuanian
Chinese (Traditional)	Norwegian

Croatian	Polish
Czech	Portuguese
Danish	Romanian
Dutch	Russian
English (UK)	Serbian
English (US)	Slovak
Estonian	Spanish
Finnish	Spanish (Latin)
French	Swedish
German	Thai
Greek	Turkish
Hebrew	Ukrainian

Your Information

Once the Admin Wizard is completed, you will have the option to configure some of your personal settings via the User Wizard. The Your Information step is where you can enter key information (i.e. name, email address, and phone) about yourself to be stored in your user profile. Please note that the information you provide on this step can be updated in your user preferences at a later time if desired. For more information on configuring your personal information under user preferences, please refer to the <u>User Profile Tab</u> section of the Getting Started documentation.

The following options are available to configure your user profile:

- **First Name** : Enter your first name.
- Last Name : Enter your last name.
- Email Address : Enter your email address.
- Office Phone : Enter your office number.

User Profile Setup your user information	Setup progress
First name	Last name
Jim	Brennan
Email	Phone
jim@example.com	(123) 555-2020
	Next

Please note that all required fields will indicate "Required" in the field and must be completed prior to moving to the next step of the wizard. Once your personal information is entered, click "Next".

Your Locale

The Your Locale step is where you can configure the date, time, and name format you want to be displayed in Sugar based on your current geographical location. Please note that the information you provide on this page will override the system locale settings and can be updated in your user preferences at a later time if desired. For more information on configuring your locale settings, please refer to the Locale Settings section of the Getting Started documentation.

The following options are available to configure your locale settings:

- **Time Zone** : Select the time zone based on your current location.
- **Date Format** : Select the format you want the date stamps displayed in Sugar.
- **Time Format** : Select the format you want the time stamps displayed in Sugar.
- **Name Format** : Select the format you want the concatenated name fields displayed in Sugar's list view and record view.

Once your locale information is entered, click "Next".

2 User Locale Settings Set your time zone, date, and name for	Setup progress
Time Zone	Time Format
America/New York (GMT-5:00)	▼ 11:00PM ▼
Date Format	Name Format
2010-12-23	 ✓ Dr. David Livingstone
2010-12-23	Dr. David Livingstone
	Back

The following page confirms that you are ready to use Sugar and allows you to perform various administrative functions (e.g. importing data, creating users, configuring the application via Studio, etc.). Selecting the action item(s) will take you directly to the specific area of the Admin page to create new users, import data from external sources, etc. Please note that you can click "Start Sugar" to go directly to your Sugar account if you wish to configure these settings at a later time.

Setup Start usir	D Complet	e	Setu	p progress	
Cocale Settings	Email Settings	System Settings	F Create Users	() Import Data	Studio
i Sugar Traini	ing Doo	Eumentation	Knowledge B	lase	Q Forums
				Back	Start Sugar

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Team Management

Overview

Team Management is used in Sugar to define permissions and groupings for users. These permissions cover what records a user is and is not able to access. Teams are used in conjunction with <u>Roles</u> to form a robust security model for non-admin users in Sugar. Users can use team settings on specific records to allow different users within Sugar the option to view these given records. Team settings can also be used as a form of organization, thereby separating records to be associated with specific teams for better tracking. Teams can be based on departments, geographic regions, or whatever else works best in a given organization.

Teams Module Tab

The Teams module tab can be accessed by navigating to the Administration page and clicking "Team Management" in the Users section. Once in the Teams list view, you can click the triangle in the Teams module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed</u> menu displays the list of teams you last viewed in the module. Please note that clicking the module tab allows you to access the Teams list view.

Tea	ms 🔽 🚦
+	Create Team
≡	Teams
0	Global
Ø	West
*	East

The Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Create Team</u>	Opens the edit view to create a new team
<u>Teams</u>	Opens the list view layout to search and display teams

Team Types

From an administrative standpoint, teams will be handled differently based on their types. From a user standpoint, all teams will be treated pretty much the same. Each team type has their own special set of characteristics that aid in defining it. The team types defined as:

- The Global Team
- <u>Standard Teams</u>
- <u>Private Teams</u>

The Global Team

The Global team is created automatically when a Sugar instance is created. Global is the default team for all new users, and every user is a member of the team by default. Global is a universal team, so any records associated to the global team will be viewable by the users on this team. The global team is intended to be available for all users and a shared team for all users in Sugar.

Note: You cannot delete the Global team.

Standard Teams

Standard Teams can be created by administrators via Team Management. These are to be used throughout Sugar to organize and grant access on organizational specifics to your organization. Standard teams are often broken out into groups by departments, geographical regions, or duties. For example, you may have an East and West team, and also a Sales and Support team.

Private Teams

For every user that is created in Sugar, a corresponding private team is automatically created in the Teams module. By default, the private team name is the user's first and last name. A private team name will be updated any time the corresponding user's profile is edited and re-saved, even if the change was not made to the user's first or last name. For example, the private team for Jane Smith will be automatically named "Jane Smith". If the administrator edits private team "Jane Smith" to "Jane Smith-HR", and then user Jane Smith later updates the phone number on her user profile, Sugar will revert the private team name back to the user's first and last name, "Jane Smith".

If your organization plans to edit private team names, you must disable the

automatic update feature. Navigate to Admin > System Settings and select the checkbox next to "Prevent private team names from inheriting the user's name fields". For more information on this setting, please refer to the <u>System</u> documentation.

Note: Private teams are not deleted in the same method as other teams. For more information on deleting private teams, please review the <u>Deleting Teams</u> section of this guide.

Team Membership Types

Team memberships are given to users in one of two ways, either by an explicit or implicit membership. Regardless of the type, membership will control what records <u>regular users</u> are able to see. Each membership can be granted in different ways and can constitute different functionality. Team membership is represented in the team's <u>detail view</u>, as well as the user's <u>detail view</u>.

Note: Administrators do not adhere to team security and therefore can see all records.

Explicit team membership is forged when the relationship is defined from either the team's or user's detail view. In addition, explicit relationships are also represented with <u>private team</u> memberships. Explicit memberships, other than private teams, can be <u>removed</u> as necessary from the team's or user's detail view. Explicit memberships will also include membership functionality for actions such as <u>workflows</u> or <u>inbound email</u>.

Implicit team membership is used for record visibility. Implicit membership relies on the "Reports To" field in the <u>User Profile</u>. When one user reports to another, the hierarchy of the "Reports To" field is kept in tact. The user being reported to will inherit the team membership of the subordinate user and be able to see any records on both his or her own team, and the teams of which the subordinate user is a member. The subordinate's teams can either be explicit or implicit teams in this scenario.

Note: Implicit relationships cannot be removed, but the cause for their relationship can be broken by changing the reporting hierarchy.

In the Team's detail view, the user's subpanel will showcase which relationships are explicit and which are implicit. In the "Membership" column of the Users subpanel, the user will either be marked as a "Member", meaning that they are an explicit member, or "Member Reports-to", meaning they are an implicit member. In addition, the users marked with the "Member Reports-to" will not include an "Unlink" button, as they have another user (or users) reporting to them on this

team.

~	U	s	e	r

Select			(I<) (1 - 2 of 2)	>)>)
Name \Leftrightarrow	User Name 🌲	Membership	Email Phone	
Jim Brennan	jim	Member Reports-to	jim@example.com	
Will Westin	will	Member	will@example.com	unlink

Creating Teams

There are two methods that can be used to create teams in Sugar. These are via the Teams module tab's action list or by duplicating an existing team and then editing it. After initially creating the team, the administrator will need to associate users to the <u>newly created team</u>.

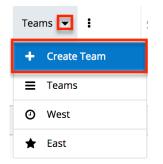
For information on creating Private Teams, please review the <u>Repairing Teams</u> section of this documentation.

Creating Via Teams Module

The most common way to create a new team is via the Create Team option in the <u>Teams module tab</u>. This opens up the edit view layout which allows you to enter in all the relevant information for the team.

Use the following steps to create a team via the Teams module:

- 1. Navigate to Admin > Team Management. Note: The <u>Teams list view</u> will open displaying all existing teams that are currently available.
- 2. Click the triangle in the Teams module tab and select "Create Team".



3. Enter a name and description of the team on the edit view screen that you

are now presented with.Enter the appropriate values for fields in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.

4. On the team's detail view, <u>add users</u> that are members of this team.

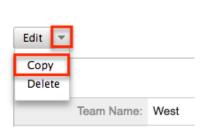
Creating Via Duplication

Teams: West

You can also create a new team by duplicating an existing team. The Copy option is useful if the team you are creating has a similar set of members or a similar description to an existing team

Use the following steps to create a team by duplicating an existing record:

- 1. Navigate to a team record's detail view.
- 2. Click the Actions menu and select "Copy".



- 3. The displayed edit view is pre-populated with the original team's values. Update the name field, and description if need be, then click "Save".
- 4. On the team's detail view, <u>add any users</u> that are members of this team that are not on the original team, and <u>remove</u> any unwanted users.

Adding Users to Teams Via Teams Module

A user has to be associated to a team to be able to view records that are associated to the specific team. Assigning a team is much like any other many to many relationship in Sugar, where many users can be associated to one particular team, and one user can also be assigned to multiple teams. From Team Management, a user can be associated to a team via the Users subpanel at the bottom of the detail view. To associate users to a team, follow the following steps:

- 1. Navigate to Admin > Team Management
- 2. From the Teams list view, select the team that you are working with
- 3. At the bottom of the page, click "Select User" from the Users subpanel

∧ Users	
Select	
Name 😄	User Name 🌲
No Data	

4. Use the popup search menu to search for and select the user(s) you would like to add to this team where you can either click on the user's name or, if selecting multiple users, click their corresponding checkboxes and then click "Select"

Select Users		
•	Name 🔤	User Name ⇔
	Administrator	admin
Ø	Chris Olliver	chris

5. After selecting the user(s) the popup search box will close and the user(s) will now be displayed in the Users subpanel for the team to complete the relationship



Adding Users to Teams Via Users Module

A regular user must be associated to a team to be able to view records that are associated to that team. Assigning a team is much like any other many to many relationship in Sugar, where many users can be associated to one particular team, and one user can also be assigned to multiple teams. From User Management, a user can be associated to a team via the user's detail view. For more information on User Management, please refer to the <u>User Management</u> documentation. To associate a team to a user via User Management, follow the following steps:

1. Navigate to Admin > User Management

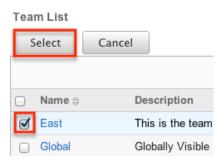
- 2. From the Users list view, open the user record that you would like to edit
- 3. From the user's detail view, click on the "Access" tab

Ec	lit 💌		
U	ser Profile	Advanced	Access
		file	
	Full Name:	Chris Olliver	
	Status:	Active	

4. Scroll past the role chart to the "My Teams" subpanel and click "Select"

My Teams	
Select	
Name	Description
Chris Olliver	Private team for chris
Global	Globally Visible

5. Use the popup search menu to search for and select the team(s) you would like to add to this user where you can either click on the team's name or, if selecting multiple teams, click their corresponding checkboxes and then click "Select"



6. After selecting the team(s) the popup search box will close and the team(s) will now be displayed in the My Teams subpanel for the user to complete the relationship

My Teams	
Select	
Name	Description
Chris Olliver	Private team for chris
East	This is the team for the East

Viewing Teams

There are various options available for viewing team records in Sugar including via the Teams list view, Teams detail view, Teams Last Viewed menu, from dashlets, and from reports.

Viewing Via List View

The Teams list view displays all team records meeting the current search criteria. To access the list view, simply navigate to Admin > Team Management. Alternately, if you are looking at a team's detail view, you can click the Teams module tab to return to the list view. You can click the team's name to open the record in detail view. For more information on viewing teams via list view, please refer to the <u>Teams List View</u> section of this documentation.

Viewing Via Detail View

The Teams detail view displays thorough team information showing the name and description of the team, followed by a subpanel of the users associated to the team. The detail view can be reached by clicking a team's link from anywhere in the application including from the Teams list view. For more information on viewing teams via detail view, please refer to the <u>Teams Detail View</u> section.

Viewing Via Recently Viewed

As you access different teams, Sugar will keep track of which teams you have recently viewed. Click the triangle in the <u>Teams module tab</u> to see a list of the 3 records you most recently viewed in the module. Clicking the record's name within the list will open it in detail view.

Tea	ms 🔽 🚦	S
+	Create Team	
≡	Teams	
Ø	Global	1
		L
Ø	West	

Viewing Via Dashlets

The Home page displays a collection of Sugar Dashlets which allow users to get a quick view of various records, activities, reports, etc. You can view team information in most module specific dashlets. Clicking a team's name from any dashlet will open the team in detail view. For more information on using dashlets, please refer to the <u>Dashlets</u> section of the Home documentation.

My Calls				
	(I - 5 of 49) ()))			
Close	Subject ⇔	Related to	Start Date	? <mark>⊖</mark>
۲	Discuss review process	XY&Z Funding Inc	03/18/2014 12:15pm	East 🧭
۲	Bad time, will call back	Avery Software Co	03/03/2014 02:15am	West+

Viewing Via Reports

Administrators have the option to build, run, and manage reports to gather key data from records within Sugar. When building a report, there are options to either run the report from the Teams module or add links to teams related to the records that are being reported on. Once the report is run, you will be able to view the team record's detail view by clicking the team's name in the report results. Please note that you can only directly access team detail views with Rows and Columns and Summation with Details-type reports as Summation and Matrix-type reports do not include hyperlinks in their display columns. For more information on using reports, please refer to the <u>Reports</u> documentation.

Name: Teams report Modules: Teams, Teams > Users Display Columns: Primary Team Name, Private, Description, User Name Schedule: None Filters: None		
Primary Team Name ⇔	Private 🗢	Description
Administrator 🧭	Ś	Private team for admin
Jim 🧭	Ś	Private team for Jim
Global 🧭		Globally Visible

Searching Teams

The Teams list view search function searches for the name of the team to help you locate records easily and effectively. Once the search is performed, the relevant results will be displayed in the Teams list view below.

The buttons in the search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search
- **Clear :** Click the Clear button to clear all criteria from the searchable fields

To see all Team records, simply click "Clear" and then "Search" to perform a blank search with no name filter.

Search Teams

Team Name	Search	Clear
Delete 🔻		

Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %Administrator). This will pull up any record that has the word "administrator" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how

wildcards are used, please refer to the <u>Search</u> documentation.

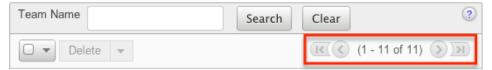
Teams List View

The Teams list view displays all teams meeting the current search criteria, if any. You can view the name and description of each team within the field columns. Click on the name of the team to access the <u>detail view</u> for the team and review the settings further.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation in the Administration guide.



Checkbox Selection

Teams can be deleted in a mass-delete fashion via the list view by selecting all of the team records. To select individual team records on the Teams list view, mark the checkbox on the left of each row. To select or deselect multiple teams on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of results
- **Select All** : Selects all records in the current search results across all pages of results
- **Deselect All** : Deselects all records that are currently selected

Delete 🔻 Selected: 1	
Select This Page (11) e \Leftrightarrow	Description 🔤
Select All (11)	
Deselect All	
	Globally Visible
🗹 🕜 Sarah Smith	Private team for sarah

For more information on deleting teams, please refer to the <u>Deleting Teams</u> section of this documentation.

Actions Menu

The Actions menu to the right of the checkbox dropdown allows you to perform various actions on the currently selected records.

	•	Delete		Selected: 3
1	0	Mass Update e ≑ Export		
1	0	Glot	bal	-

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Delete	Delete one or more teams at a time
-	Mass update one or more teams at a time
Export	Export one or more teams to a CSV file

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header for either "Name" or "Description". The list view may be sorted by only one column at a time.

Team Name	Description 🗢
Global	Globally Visible

Teams Detail View

The Teams detail view displays thorough information about the team, as well as the ability to perform most actions related to team management. The detail view also includes a Users subpanel where users can be associated to the team and will therefore take on the team's properties.

Actions Menu

The Actions menu on the top left of each team's detail view allows you to perform various actions on the current record. Administrator users can change the action items to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on configuring the actions menu, please refer to the <u>System</u> documentation in the Administration guide.

Teams: West

Edit	•			
Copy Dele				
	Tear	n Name:	West	

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit the name and description of this team
<u>Copy</u>	Duplicate this team to create a new team
Delete	Delete this team

Users Subpanel

A user has to be associated to a team to be able to take on the team's membership

settings. Assigning a user is much like any other many to many relationship in Sugar, where many users can be associated to one particular team, and one user can also be assigned to multiple teams. From Team Management, a user can be associated to a team via the Users subpanel at the bottom of the page. To associate uses to a team, follow the following steps:

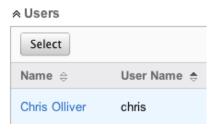
- 1. Navigate to the detail view of the team that you would like to edit.
- 2. At the bottom of the page, click "Select User" from the Users subpanel

∧ Users	
Select	
Name 😄	User Name 🗢
No Data	

3. Use the popup search menu to search for and select the user(s) you would like to add to this team. You can either click on the user's name or, if selecting multiple users, click their corresponding checkbox and then click "Select"

Select		
Users		
	Name 🔤	User Name ⇔
	Administrator	admin
Ø	Chris Olliver	chris
	Jim Brennan	jim

4. After selecting the user(s) the popup search box will close and the user(s) will now be displayed in the Users subpanel for the team to complete the relationship



Next or Previous Record

On the upper right of the Teams detail view, there are two buttons that allow you to page through each team in the Teams list view's current search results. Clicking the Previous button displays the previous team of the current search results while clicking the Next button displays the next team of the current search results. The text in between shows which team result you are currently viewing within the total number of current results.

Teams: Chris Olliver

Edit 🔻				
		$\overline{\mathbb{K}}\left(\mathbf{x}\right)$	(8 of 11)	$(\mathbf{\hat{s}})$
Team Name:	Chris Olliver			

Editing Teams

Teams may be edited at any time to update or add information to the record or to edit existing information. You can make changes to existing team records via the Teams detail view and edit view, or from the Users module. Edit view is available within the Teams module and includes the Name and Detail fields.

Editing Via Detail View

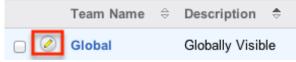
You can edit teams via the detail view by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update either the Name or Description fields, then click "Save" to preserve the changes made.

Teams: Chris Olliver

Edit 🔻	
Team Name:	Chris Olliver
Description:	Private team for chris

Editing Via List View

You can edit teams via the list view by clicking the Pencil icon to the left of each team's name. After clicking the pencil, the window will move to the edit view. Update the necessary fields, then click "Save" to preserve the changes. After saving from the edit view, you will be returned to the detail view for the record that you just updated. Because this method brings you to the edit view, the Name and Description fields can be updated.



Editing Via Users Module

The Users module allows you to see all of the teams associated with a specific user in one place under the "Access" tab. The page will show the "My Teams" subpanel with a list of all of the teams associated with the user. For more information about viewing the teams from the Users module, please review the <u>User Management</u> documentation.

On the "My Teams" subpanel, there is an option to edit the team. After clicking the "Edit" button, the window will move to the edit view. Update the necessary fields, then click "Save" to preserve the changes. After saving from the edit view, you will be returned to the detail view for the record that you just updated. Because this method brings you to the edit view, only the Name and Description fields can be updated.



Deleting Teams

If a team record is invalid or is no longer being used in your organization's Sugar instance, it may be deleted from either the Teams detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once. Deleting team records will not delete any related user records and will only remove the relationship.

The exception to this is found when trying to delete any <u>private teams</u>. Private teams are only able to be deleted when the user that the team is for has been deleted. To delete a private team, first delete the user via the user's detail view, following the steps from <u>User Management</u>.

Deleting Via Detail View

Use the following steps to delete a team via the detail view:

- 1. Navigate to the team record's detail view.
- 2. Select "Delete" from the Actions menu.

Teams: West

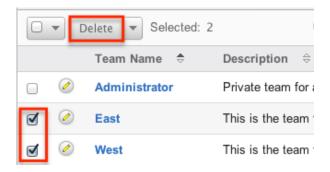
Edit 💌		
Сору		
Delete		
	Team Name:	West

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Deleting Via List View

Use the following steps to delete one or more teams via the list view:

- 1. Navigate to the Teams list view by navigating to Admin > Team Management.
- 2. Use the <u>Search</u> functionality to search to find the Team records you wish to delete.
- 3. Select the desired team records individually or using the <u>checkbox</u> <u>dropdown's options</u>.
- 4. Choose "Delete" from the Actions menu.



5. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of team records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Removing Users From Teams

Users can be associated to multiple teams, and one team can also be associated to many users. As changes occur within an organization, there may be times that users need to be removed from specific teams. Breaking the relationship between a team and a user can be done both from the Teams detail view and from the Users detail view. Both modules include a subpanel to represent the relationship to the other module.

To remove a user from a team, use the following steps:

- 1. Navigate to the team record's detail view
- 2. Click "unlink" to the right of the user's row

Select				(1 - 7 of 7))
Name 🗢	User Name \Leftrightarrow	Membership	Email	Phone \Leftrightarrow	
Administrator	admin	Member	admin@example.com		unlink
Chris Olliver	chris	Member	chris@example.com		unlink

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

To remove a team from a user, use the following steps:

- 1. Navigate to the user's detail view
- 2. From the user's detail view, click on the "Access" tab

Chris Olliver		
Edit 💌		
User Profile	Advanced	Access

3. Scroll past the role chart to the "My Teams" subpanel and click "Remove" on the row of the team you would like to remove



4. A pop-up message will display asking for confirmation. Click "Ok" to proceed

Repairing Teams

Sugar's Repair menu includes two options for administrators to improve team structures and functionality. These processes should not be needed often, and are only used when the necessary changes are to be made. The repair options are as follows:

Туре	Description	
	Checks to make sure that all users have associated private teams	
· ·	A combination of four different repair functions to rebuild team accesses	

Role Management

Overview

Roles in Sugar determine which users can access modules as well as which operations the users are allowed to perform within those modules. When configuring role settings in Sugar, an administrator may choose to enforce restrictions for entire modules or for selected fields on the records in a module, as explained in the following sections. To fully leverage Sugar's security model, both permission types can be used together for a given role and should be considered in conjunction with the <u>Team Management</u> settings used by your organization.

Administrators have the ability to create different roles and assign regular users to the roles. A user can be related to any number of roles, and when multiple roles or role settings are applied, Sugar adheres to a most-restrictive policy to determine the user's appropriate access levels. Administrators cannot be related to roles, as their administrative rights supersede any restrictions imposed by Role Management. For more information on System Administrator users, please review the <u>User Management</u> documentation.

Roles control multiple layers of actions and access for users within Sugar:

- Module-Level Permissions
- <u>Record-Level Permissions</u> (i.e. Team-Based Permissions)
- Field-Level Permissions

Exceptions

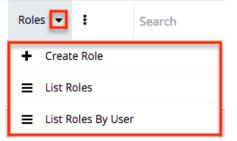
The following modules respond uniquely to role settings in Sugar:

- Forecasts Module : For the Forecasts module, roles will allow or deny access at the module level with no further layers of access. Because the Forecasts module uses data from the Opportunities, Products, Quotas, Worksheet and Time Period modules, the Forecasts module does not respect the module- or field-level ACLs for those modules. For example, the opportunity data that is shown in the Forecasts module worksheets will be displayed and editable regardless of whether or not the user has access to the Opportunities module or has field-level restrictions in that module.
- **Reports Module** : Sugar's Reports module does not respect certain fieldlevel role restrictions, meaning that generated reports may display field

data for which a user's role is set to restrict visibility.

Roles Module Tab

The Roles module tab can be accessed by navigating to the Administration page and clicking "Role Management" in the Users section. Once in the Roles list view, you can click the triangle in the Roles module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The Recently Viewed menu displays the list of roles you last viewed in the module. Please note that clicking the module tab allows you to access the Roles list view.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Create Role	Opens the edit view to create a new role
<u>List Roles</u>	Opens the list view layout to search and display roles
<u>List Roles By User</u>	Opens a page for viewing each user's access according to their combined roles

Creating Roles

Sugar's roles specify which users can access modules, as well as which operations the users are allowed to perform within those modules. When configuring role settings in Sugar, an administrator may choose to enforce restrictions for entire modules or for selected fields on the records in a module, as explained in the following sections. To fully leverage Sugar's security model, both permission types can be used together for a given role and should be considered in conjunction with the team access settings used by your organization.

Creating Roles via Role Management

The most common way to create a role is via the Create Role option in the Role Management module tab. This opens up the edit view layout which allows you to enter in all the relevant information for the role.

Use the following steps to create a role via Role Management:

- 1. Navigate to Admin > Role Management.
 - **Note**: The <u>Roles list view</u> will open displaying all existing roles that are currently available.
- 2. Click the triangle in the Roles module tab and select "Create Role".



- 3. Enter the appropriate values for fields in the edit view layout. All required fields will indicate "Required" in the field and must be completed prior to saving.
- 4. On the Role Chart screen, configure the <u>module</u> and <u>field permissions</u>, and <u>assign users to the role</u>.

Creating Roles via Duplication

You can also create a new role by duplicating an existing role. The duplicate option is useful if the role you are creating has similar information to an existing role.

Use the following steps to create a role by duplicating an existing record:

- 1. Navigate to a role record's detail view.
- 2. Click the Actions menu and select "Duplicate". Customer Support Administrator



- 3. The displayed edit view is pre-populated with the original role's values. Update the necessary fields, then click "Save".
- 4. On the Role Chart screen, update the <u>module</u> and <u>field permissions</u>, and <u>assign users to the role</u>.

Setting Module-Level Permissions

Sugar's Role Chart contains ten columns and has a row for each module down the left-hand side. The columns represent an access level or a type of operation within Sugar, and the corresponding points between the columns and module rows define the role's permission setting for the operation within the given module.

	Access	Access Type	Delete	Edit	Export	Import	List	Mass Update	View
Accounts	Enabled	Admin & Developer	Not Set	Not Set					
Bugs	Enabled	Normal	None	Owner	Not Set	Not Set	Not Set	Not Set	Not Set
Calls	Enabled	Normal	Not Set	Not Set					

To configure or make changes to a role, follow the steps below:

- 1. On the Role Chart, find the intersection of the operation and the module that you would like to adjust and click inside the corresponding table cell.
- A dropdown list displays the options available for that configuration. Select the appropriate security option based on the <u>access and operation</u> <u>definitions</u> explained later on this page.

Save Cancel					
	Access	Access Type	Delete	Edit	Export
Accounts	Enabled	Admin & Developer	All Owner	Not Set	Not Set
Bugs	Enabled	Admin & Developer		Not Set	Not Set
Calls	Not Set	Not Set	Not Sot	Not Set	Not Set

- 3. Repeat steps 1 and 2 for any other fields you would like to change in this module for the current role.
- 4. When complete, click "Save" to secure the changes.

Note: The most restrictive role setting always takes precedence when Sugar has to choose between two or more settings.

The following table explains the Role Chart's components in detail. Please scroll <u>beyond this table</u> for descriptions of each configuration option.

Role Chart	Configuration	1	Additional
Column Header	Options		Comments
Module (blank header row)		Identifies which module the row's settings will affect	

Access	• Enabled • Not Set • Disabled	Controls access to the entire module for users in this role	When access to a module is disabled, the user is prohibited from viewing any records in this module. They cannot see a tab for the module in the navigation bar, and other module records do not reveal this module's subpanel to the user. For more information, please refer to the <u>Module Access</u> <u>definitions</u> below this table.
Access Type	 Normal Not Set Admin Developer Admin & Developer 	For enabled modules, Access Type determines how much control users in this role have over the module	Please refer to the <u>Module Access</u> <u>Type definitions</u> below this table.
Delete	 All Owner Owner & Selected Teams* Not Set None 	Restricts users from deleting or merging records in this module	Restricting a user's ability to delete records also restricts a user's ability to merge records in the module since merging results in deleting one or more records.
Edit	 All Owner Owner & Selected Teams* Not Set None 	Restricts users from editing, creating, or merging records in this module	Although it is labeled "Edit", this role setting also affects the Create functionality because the process of creating a record functions

			the same way as editing. It also restricts the merge functionality in Sugar, which modifies existing records.
Export	 All Owner Owner & Selected Teams* Not Set None 	Restricts users from exporting data from this module to their local computers	This role setting affects usage of the Sugar API, which is the framework used for external connections, such as the Outlook Plug- in. For more information on exporting, please refer to the <u>Export</u> documentation in the Application guide.
Import	• All • Not Set • None	Restricts users from importing data into this module	This role setting affects usage of the Sugar API, which is the framework used for external connections, such as the Outlook Plug- in. For more information on importing, please refer to the <u>Import</u> documentation in the Application guide.
List	 All Owner Owner & Selected Teams* Not Set None 	Restricts a user's ability to see records in a list view or subpanel	A module's list view is not visible to users where "List" is set to "None".
Mass Update	• All • Not Set • None	Restricts users from using the Mass Update	The Mass Update option is not visible on the list view's

		functionality in this module's list view	Actions menu when "Mass Update" is set to "None". If "List" is set to "None", the Mass Update configuration is inconsequential. To entirely prohibit users in a role from updating many records at once, set "Import" to "None" as well to prevent mass updates via import.
View	 All Owner Owner & Selected Teams* Not Set None 	Restrict access to the record view which displays an individual record's details	When "View" is set to "None", the module's list view displays record's names, but the names are not hyperlinked to their corresponding record views like they are for users with the View permission enabled. When a module's
			View setting is "None" or "Owner", the access level for "Edit" and "List" must be set to the same value to ensure desired functionality for <u>Sugar Mobile</u> and other API-based applications.

*The Owner & Selected Teams option only appears for modules using team-based permissions. For more information, please refer to the <u>Enabling Team-Based</u>

<u>Permissions</u> section of this page.

The following sections explain the various configuration options available in the Role Chart.

Module Access Definitions

The Access column provides the following options:

- **Enabled** : The user can access this module in Sugar.
- Not Set : The user is neither restricted nor granted access to this module. When permission is "Not Set", the users within this role default to "Enabled" access.
- **Disabled** : The user cannot access this module, view any of its records, or see any trace of its existence in Sugar.

Note: To ensure proper functionality, a user's access to the Revenue Line Items and Opportunities modules should be consistently configured. The user should not have access to one module without access to the other.

Module Access Type Definitions

The Access Type column provides the following options:

- **Normal** : The user can perform standard functions in this module barring restrictions from other roles or team settings. The user cannot access the Administration functions for this module.
- Not Set : The user is neither restricted nor granted access to this module. When permission is "Not Set", users within this role default to "Normal" access.
- Admin : The user is not subject to any <u>Teams</u> restrictions for this module and can view all records, barring other role restrictions. Admin access also forces "All" access for that module's action-related columns (e.g. Edit, Delete, etc.) and supersedes any more restrictive options you may try to choose. For this reason, the row's operation-related columns can remain "Not Set" when the access type is Admin. Please note that the module-level Admin access type does not grant access to the Administration functions for this module.
- **Developer** : The user has access to the module-specific sections of Studio, Workflow Management, Dropdown Editor, and any other Administration functions that are specific to the module. The user's access to Sugar

records is not affected; access remains subject to <u>Teams</u> restrictions and action-related role restrictions for this module. For more information on developer tools, please refer to the <u>Developer Tools</u> documentation.

• Admin & Developer : The user is not subject to any <u>Teams</u> restrictions for this module and can access Administration functions for this module. For more information, please refer to the descriptions for the "Admin" and the "Developer" access types above.

For more information on Admin, Developer, and Admin & Developer roles, please refer to the article <u>Understanding Admin and Developer Access in Roles</u>.

Record Operation Definitions

The operation columns (e.g. Edit, Delete, etc.) provide the following configuration options:

- All : The user can perform this action on any and all records that they can access in Sugar per their team memberships.
- **Owner** : The user can perform this action only if they are the "Assigned To" user on the record.
- **Owner & Selected Teams** : The user can perform this action if they are the "Assigned To" user on the record or if they belong to team which is designated as having extra access on the record. This option is only visible if an administrator has enabled <u>team-based permissions</u> for the module.
- Not Set : The user is neither restricted nor granted access to this function. When permission is "Not Set", users within this role default to "All" access.
- **None** : The user cannot perform this action on any records within this Sugar module.

Note: When using the Owner & Selected Teams setting, any user with permission to edit the Teams field can extend role permissions to other users. To maintain a tighter security model, we recommend using this setting in conjunction with <u>field-level access control</u> on the Teams field to regulate who can edit the teams on a record.

Setting Record-Level Permissions

In Sugar, teams are typically used to control which groups of users can access a record. Using the record-level, team-based permissions, however, an administrator may choose to extend the purpose of teams to control who can perform certain operations on the record (e.g. edit, delete, etc.). When enabled, regular users can use a record's Teams field to grant access such as viewing, editing, exporting,

importing, and deleting permission to specific users or user groups.

For more information on teams, please refer to the <u>Team Management</u> documentation.

Enabling Team-Based Permissions

An administrator may decide to enable record-level, team-based permissions for none, some, or all of the modules in a Sugar instance. Once enabled, the administrator can build roles that utilize the new access option (Owner & Selected Teams).

Follow these steps to enable the team-based permission capability:

1. Navigate to Admin > Team-based Permissions.

⁸⁶ User Management	Manage user accounts and passwords	Role Management	Manage role membership and properties
888 Team Management	Manage team membership and properties	Eam-based Permissions	Enable team access, and manage access by module.
Password Management	Manage password requirements and expiration		

- 2. If an administrator has never enabled team-based permissions for this instance, the configuration page will open and display a warning message above a disabled checkbox. Click on the checkbox labeled "Enable team-based permissions" to select the modules you want to enable. If the checkbox is already selected, you will see the modules listed prominently on the configuration page.
- 3. Place a checkmark in the boxes next to modules that should support teambased permissions. The square behind the module name changes from gray (disabled) to blue (enabled) upon selecting the checkbox. Once you are satisfied with your selections, click "Save" to preserve the changes.

Cancel			
Enabling team-based permissions will allow	you to assign specific access rights to teams a	and users for individual modules, through Role	Management.
Processes using the feature. This includes a	ny Roles using the "Owner & Selected team" (with team-based permissions for that module, option for that module, and any team-based pe ne after disabling team-based permissions for a	ermissions data for records in that module.
Enable team-based permissions			
Select modules to enable			
Accounts	Bugs	Calls	Campaigns
Cases	Contacts	Contracts	Documents
Email Templates	Emails	C Knowledge Base	Leads
Meetings	Notes	Opportunities	PDF Manager
Project Tasks	Projects	Quoted Line Items	Quotes
C Reports	Revenue Line Items	Target Lists	Targets
Tasks			

After saving, you can confirm that a module has been enabled for team-based permissions by clicking "Edit" on any record within the module and viewing the Teams field. Each team's name in the widget should include a Lock button, defaulted to a disabled (white) state.

Teams				
West	•	*		
Select Team	•	\star	-	+

If the Teams widget does not show the Lock buttons, confirm that you properly saved the admin settings in step 3, perform a <u>Quick Repair and Rebuild</u>, and try refreshing your browser's cache.

You may now create roles that utilize the "Owner & Selected Teams" access type for actions in the enabled modules. Please note that team-based permissions have no effect on Sugar until users have been assigned to roles that are configured with "Owner & Selected Teams" access. For more information, please refer to the Record Operation Definitions section of this page. For information on using teambased permissions on a record, please refer to the <u>User Interface</u> documentation.

Disabling Team-Based Permissions

Disabling team-based permissions for a module permanently removes any data

associated with team-based permissions for that module. Any role definitions using the "Owner & Selected Team" option for field-access settings or operations in that module revert to the more restrictive setting, "Owner". All record-level, teambased permissions data for that module are also permanently deleted. Sugar will not remember a record's role-related team settings if you ever wish to re-enable the module for team-based permissions.

To disable team-based permissions for a module, navigate to Admin > Team-based Permissions, uncheck the box next to the appropriate module's name, and click "Save". To disable the functionality for the entire instance, simply uncheck the box labeled "Enable team-based permissions" and click "Save". After disabling team-based permissions for any module, please use the <u>Quick Repair and Rebuild</u> tool to clear your system's cache.

Setting Field-Level Permissions

Role Management also provides the option to set permissions and restrictions on specific fields within modules. To change the field-level permissions for a role, follow these steps:

- 1. Navigate to Admin > Role Management.
- 2. Create and save a new role or select an existing role to edit.
- 3. On the left side of the screen, click on the name of the module that contains the field(s) you would like to restrict.

All	Save Cancel		
Accounts		•	A
Bugs		Access	Access Type
<u>Calls</u>	Accounts	Not Set	Not Set
<u>Cases</u>	Bugs	Not Set	Not Set
<u>Contacts</u>	Calls	Not Set	Not Set
Contracts	Campaigns	Not Set	Not Set
Documents	oumpuigno		

4. On the next screen, find the field that you would like to restrict and then click inside the table cell to the right of that field name. In this example, click on the words "Not Set" next to the word "Type" to edit access to the Type field.

Field Permissions

Туре [+]	Not Set	Annual Revenue [+]	Not Set
Campaign [+]	Not Set	Created By [+]	Not Set
Email [+]	Not Set	Email Address [+]	Not Set
Employees [+]	Not Set	Facebook Account [+]	Not Set

Note: Some fields may be part of a group and the access setting will affect all of the fields in the group. To see which fields, if any, are in a group with

the field you are editing, click the Plus (+) sign next to the field's name. Any fields listed as part of a group will also be restricted at the level you choose. Grouped fields cannot be controlled independently. If you cannot find the field that you would like to restrict in the fields table, it may be grouped within another field. Try expanding fields that are likely to be grouped with the field you are looking for (e.g. the Billing City field for Accounts is grouped under the Billing Street field as part of the billing address group).

5. From the dropdown list, select a level of field access for this role's members based on the <u>field-access definitions</u> explained below.



- 6. Repeat steps 4 and 5 for any other fields you would like to change in this module for the current role.
- 7. When complete, click "Save" to secure the changes.

Field Access Definitions

- Not Set : The user is neither restricted nor granted access to this field. When permission is "Not Set", users within this role default to "Read/Write" access.
- **Read/Write** : The user can see the value of this field and can edit it.
- **Read/Owner Write** : The user can see the value of this field but can only edit the field's value if they are the "Assigned To" user on the record.
- **Read/(Owner & Selected Teams) Write** : The user can see the value of this field but can only edit the field's value if they are the "Assigned To" user on the record or if they belong to a team which is designated as having extra access on the record. This option is only visible if an administrator has enabled team-based permissions for the module.
- **Read Only** : The user can see the value of this field but cannot change its value.
- **Owner Read/Owner Write** : The user can only see and edit this field if they are the "Assigned To" user on the record.
- (Owner & Selected Teams) Read/Owner Write : The user can only see the value of this field if they are the "Assigned To" user on the record or if they belong to team which is designated as having extra access on the record, but they can edit the field only if they are the "Assigned To" user on the record. This option is only visible if an administrator has enabled teambased permissions for the module.
- (Owner & Selected Teams) Read/(Owner & Selected Teams) Write :

The user can only see the field and edit the field's value if they are the "Assigned To" user on the record or if they belong to a team which is designated as having extra access on the record. This option is only visible if an administrator has enabled team-based permissions for the module.

• **None** : For Sidecar modules, the user can see this field on layouts (e.g. Record View) but cannot see its value. Instead, Sugar displays "No Access" as the field's value. For Legacy modules (e.g. Quotes), the user cannot see the field on any layout. Instead, Sugar displays a blank space on the edit and detail views.

Assigning Users to Roles

A user must be associated with a role to take on the role's permission settings. Assigning a role is much like any other many-to-many relationship in Sugar, where many users can be associated with any particular role, and one user can also be assigned to multiple roles.

If a user is assigned to multiple roles, the most restrictive option for each setting is respected. For example, if a user is assigned to two roles, one which restricts Edit access for the Accounts module to "Owner" and the second which restricts it to "Owner & Selected Teams", the "Owner" setting will be respected. View the Access tab on each user's profile to see the cumulative effect of all of their assigned roles.

Assigning Roles via Role Management

From Role Management, a user can be related to a role via the Users subpanel at the bottom of the detail view. To relate users to a role, use the following steps:

- 1. Navigate to Admin > Role Management.
- 2. From the Roles list view, select the desired role.
- 3. At the bottom of the page, click "Select User" from the Users subpanel .

Select User	
Name \ominus	User Name 🐣
No data	

4. Use the pop-up search menu to search for and select the user(s) you would like to add to this role where you can either click on the user's name or, if selecting multiple users, click their corresponding checkbox and then click "Select".

Select Users			
	Name	User Name	Title 🔤
	Will Westin	will	Sales Manager East
	Sarah Smith	sarah	Sales Manager West
	Sally Bronsen	sally	Senior Account Rep

After selecting the user(s), the pop-up search box will close and the user(s) will now be displayed in the Users subpanel for the role to complete the relationship.

Assigning Roles via User Management

From User Management, a user can be related to a role via the user's detail view. For more information on User Management, please refer to the <u>User Management</u> documentation. To relate a role to a user via User Management, follow the following steps:

- 1. Navigate to Admin > User Management.
- 2. From the Users list view, open the user record that you would like to edit
- 3. From the user's detail view, click on the "Access" tab

1.	Accour	nts 👻 Cont	acts 👻	Users 🔻	:		Search	٩		🧟 -
Chris Ol	liver									
Edit 💌								$\langle \rangle$	(6 of	8) >
User Pro	file	Advanced	Access							
⊗ Use	er Profil	e								
Full	Name:	Chris Olliver				User Name	e: chris			
	Status:	Active				User Type	e: Regular U	ser		

4. Scroll past the Role Chart to the subpanel for "Roles" and click "Select"

Select		(0 - 0 of 0)
Name 🌲	Description	
No data		

5. Use the pop-up search menu to search for and select the role(s) you would like to add to this user where you can either click on the role's name or, if selecting multiple roles, click the corresponding checkboxes and then click "Select"

Select Roles		
•	Name 🔤	Description 🗧
	Customer Support Administrator	Customer Support Administrator Role
	Marketing Administrator	Marketing Administrator Role

After selecting the role(s), the pop-up search box will close and the role(s) will now be displayed in the Roles subpanel for the user to complete the relationship.

Viewing Roles

There are various options available for viewing role records in Sugar including via the Roles list view, Roles detail view, Roles Recently Viewed menu, the List Roles by User function, and from the Users module.

Viewing via List View

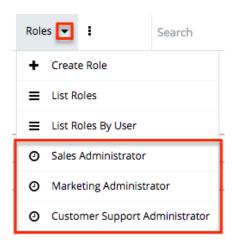
The Roles list view displays all role records meeting the current search criteria. To access the list view, simply navigate Admin > Role Management. Alternately, if you are looking at a role's detail view, you can click the Roles module tab to return to the list view. You can click the role's name to open the record in detail view. For more information on viewing roles via list view, please refer to the <u>Roles List View</u> section of this documentation.

Viewing via Detail View

The Roles detail view is where all of the modifications to the role settings can be made. This page includes the name and description of the role, the chart where module settings can be manipulated, links to the field-level action settings, and the Users subpanel where users can be added to the role. For more information on viewing roles via detail view, please refer to the <u>Roles Detail View</u> section of this documentation.

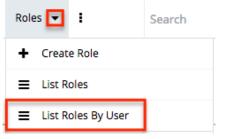
Viewing via Recently Viewed

As you access different roles, Sugar will keep track of which roles you have recently viewed. Click the triangle in the <u>Roles module tab</u> to see a list of the 3 roles you most recently viewed in the module. Clicking the role's name within the list will open it in detail view.



Viewing Roles by User

Role Management offers the option to view all roles assigned to specific users. Click the triangle in the Roles module tab and select "List Roles By User" to view these roles.



You will be redirected to the <u>Users</u> module and a screen will appear with a dropdown list with all users' names included. Select the user you would like to view and a chart will show which is a compilation of all of the roles listed for the user in the Roles subpanel, at the bottom of the page.

Users

Chris Olliver 💠				
	Access	Access Type	Delete	Edit
Accounts	Enabled	Normal	All	All
Bugs	Enabled	Normal	All	All
Calls	Enabled	Normal	All	All

Viewing via Users Module

User profiles show which roles the user is related to and how the user's roles work together. When viewing a user profile, all role information can be found by navigating to the "Access" tab. For information about accessing the Users module, please refer to the <u>Users</u> documentation.

Ed	lit 💌		
U	ser Profile	Advanced	Access
		file	
	Full N	ame: Chris C	lliver

The access tab contains a chart showing all of the modules and actions available in Role Management. This chart is a compilation of all of the roles listed for the user in the Roles subpanel at the bottom of the page.

Chris Olliver

dit 🔻	Access			
	Access	Access Type	Delete	Edit
Accounts	Enabled	Normal	All	All
Bugs	Enabled	Normal	All	All
Calls	Enabled	Normal	All	All

When viewing the chart, the most restrictive setting for the specific intersection will take precedence, and will represent the option for the user. Therefore, if the user has two roles assigned, one of which allows him or her to delete a record and another which does not, Sugar will enforce the option where the user cannot delete the record. The table shown in User Management cannot be edited. Instead, the role itself must be edited which will change the setting for any other users related to the role.

To view the role settings from User Management and make any necessary changes, simply click the role's name from the Roles subpanel, which will take you to the <u>role's detail view</u>.

Select	
Name 🌲	Description
Customer Support Administrator	Customer Support Administrator Role
Sales Administrator	Sales Administrator Role

Searching Roles

The Roles list view search function allows you to search for the name of the role to help you locate records easily and effectively. Once the search is performed, the relevant results will be displayed in the Roles <u>list view</u> below.

The buttons in the search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search
- **Clear** : Click the Clear button to clear all criteria from the searchable fields

To see all Role records, simply click "Clear" and then "Search" to perform a blank search with no name filter.

Roles

Name		Search	Clear
	Delete		

Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %Administrator). This will pull up any record that has the word "administrator" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used, please refer to the Search documentation.

Roles List View

The Roles list view displays all roles that meet the current search criteria (if any). You can view the name and description of each role within the field columns. Click on the name of the role to access the <u>detail view</u> for the role and review the settings further.

Pagination

List view displays the current search results broken into pages that you can scroll

through rather than displaying potentially thousands of rows at once. To the right just below the search panel you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via the System menu in Admin. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation in the Administration guide.

Roles

Name	Search Clear	?
Delete		(1 - 5 of 5) ())

Checkbox Selection

Roles can be deleted in a mass-delete fashion via the list view by selecting all of the role records. To select individual role records on the Roles list view, mark the checkbox on the left of each row. To select or deselect multiple roles on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of results
- **Select All** : Selects all records in the current search results across all pages of results
- Deselect All : Deselects all records that are currently selected

🗆 🔻 Delete	_	
Select This Page (6)		Description \Leftrightarrow
Select All (6) Deselect All	le	
	upport Administrator	Customer Support Administrator Role
Marketing Administrator		Marketing Administrator Role

For more information on deleting roles, please refer to the <u>Mass Deleting via List</u> <u>View</u> section of this documentation.

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header for either "Name" or "Description". The list view may be sorted by only one column at a time.



Roles Detail View

The Roles detail view displays thorough information about the role, as well as the ability to perform most actions related to role management. It comprises of a chart showing all modules in Sugar and actions that the user can have access to or be restricted from. The detail view also provides links that, when clicked, drill down into each module to make field-level permission changes. Finally, the detail view includes a Users subpanel where users can be related to the role and will, therefore, take on the role's properties.

Actions Menu

The Actions menu on the top left of each role's detail view allows you to perform various actions on the current record. Administrator users can change the action items to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on configuring the actions menu, please refer to the <u>System</u> documentation in the Administration guide.



The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit the name and description of this role
Duplicate	Duplicate this role to create a new role
<u>Delete</u>	Delete this role

Role Chart

The Role Chart comprises of ten columns and a row for each module down the lefthand side. The columns each represent a type of action within Sugar, and the corresponding point between the columns and module roles defines the role's permissions. The role permissions can be updated from the detail view of each role. For an explanation of each action and how to update roles, please review the <u>Setting Module-Level Permissions</u> section of this documentation.

	Access	Access Type	Delete	Edit	Export	Import	List	Mass Update	View
Accounts	Enabled	Admin & Developer	None	All	Not Set	Not Set	All	Not Set	All
Bugs	Enabled	Admin & Developer	All	All	Not Set	Not Set	All	Not Set	All

Field Permissions

To the left of the Role Chart is a list of hyperlinked Sugar module names:

	Save Cancel			
Accounts		Access	A	Delete
Bugs		Access	Access Type	Delete
Calls	Accounts	Enabled	Admin & Developer	None
Cases	Russ	Enabled	Admin & Developer	All
Contacts	Bugs	Enabled	Admin & Developer	All
Contracts	Calls	Not Set	Not Set	Not Set
Documents	Campaigns	Not Set	Not Set	Not Set
<u>Emails</u>	Cases	Enabled	Admin & Developer	Not Set

Click on a module name to access the Field Permissions view for the module. For an explanation of each action and how to update field-level permissions, please review the <u>Setting Field-Level Permissions</u> section of this page.

Field Permissions

Type [+]	Not Set	Annual Revenue [+]	Not Set	Assigned to [+]	Not Set	Billing Street [+]	Not Set
Campaign [+]	Not Set	Created By [+]	Not Set	Description [+]	Not Set	DUNS [+]	Not Set
Email [+]	Not Set	Email Address [+]	Not Set	Other Email [+]	Not Set	Email Opt Out [+]	Not Set

Users Subpanel

Beneath the Role Chart, the Users subpanel is available for the Administrator to relate one or more users to the current role. A user must be related to a role to take on the role's permission settings. One user can be related to multiple roles. If a user is related to multiple roles, the most restrictive option for each setting is respected.

To relate users to a role, use the following steps:

- 1. Navigate to the detail view of the role that you would like to edit.
- 2. At the bottom of the page, click "Select User" from the Users subpanel.

Select User	
Name 😄	User Name 🌧
No data	

3. Use the pop-up search menu to search for and select the user(s) you would like to add to this role. You can either click on the user's name or, if selecting multiple users, click their corresponding checkbox and then click "Select".

Select Users			
	Name 🔤	User Name	Title 🔤
	Will Westin	will	Sales Manager East
	Sarah Smith	sarah	Sales Manager West
	Sally Bronsen	sally	Senior Account Rep

After selecting the user(s), the pop-up search box will close and the user(s) will now be displayed in the Users subpanel for the role to complete the relationship.

Editing Roles

Roles may be edited at any time to update or add information to the record or to edit the role restrictions. You can make changes to existing role records via the Roles detail view and edit view, depending on the change being made. Changes via the detail view are made directly on the role permission chart. Edit view is available within the Roles module and includes the Name and Detail fields.

Editing via Detail View

You can edit roles via the detail view by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update either the Name or Description fields, then click "Save" to preserve the changes made.

Customer Support Administrator

Edit	
Name:	Customer Support Administrator
Description:	Customer Support Administrator Role

Edits to the settings on the role are also performed via the detail view. Below the Name and Description fields, is where you will find the role permission chart. This chart is made up of rows representing the different modules in Sugar, and columns representing each of the action types Sugar users can perform. Edits to this table are made by clicking the box at the intersection of a row and column, which produces a dropdown list of available options. For more information on module permission changes, please review the information in the <u>Setting Module-Level</u> <u>Permissions</u> section of this documentation.

Editing via List View

You can edit roles via the list view by clicking the Pencil icon to the left of each role's name. After clicking the pencil, the window will move to the edit view. Update the necessary fields, then click "Save" to preserve the changes. After saving from the edit view, you will be returned to the detail view for the record that you just updated. Because this method brings you to the edit view, only the Name and Description fields can be updated.

Name 🗢	Description ⇔
Customer Support	Customer Support Administrator Role

Editing via Users Module

The Users module allows you to see all of the roles related to a specific user in one place under the "Access" tab. The page will show a subpanel with a list of all of the roles related to the user. For more information about viewing the roles from the Users module, please review <u>Viewing via Users Module</u>.

On the "Roles" subpanel, there is an option to edit the role. After clicking the "Edit" button, the window will move to the edit view. Update the necessary fields, then click "Save" to preserve the changes. After saving from the edit view, you will

be returned to the detail view for the record that you just updated. Because this method brings you to the edit view, only the Name and Description fields can be updated.

Select		K (1 - 2 of 2) >>>
Name 🌧	Description	
Customer Support Administrator	Customer Support Administrator Role	edit 🔻
Sales Administrator	Sales Administrator Role	edit 💌

Deleting Roles

If a role record is invalid or is no longer being used in your organization's Sugar instance, it may be deleted from either the Roles detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once. Deleting role records will not delete the related user records and will only remove the relationship.

Deleting via Detail View

Use the following steps to delete a role via the detail view:

- 1. Navigate to the role record's detail view.
- 2. Select "Delete" from the Actions menu.

Products Role

Edit				
Duplicate	Proc	Products Role		
Delete				
Description				
Double click on a cell to change value.				
All	Save	Cancel		

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Mass Deleting via List View

Use the following steps to delete one or more roles via the list view:

- 1. Navigate to Admin > Role Management.
- 2. Use the <u>search functionality</u> to find the Role records you wish to delete.
- 3. Select the desired role records individually or using the <u>checkbox</u> <u>dropdown's</u>options.
- 4. Choose "Delete" from the Actions menu.

Delete			
Name 🔤	Description \Leftrightarrow		
Customer Support Administrator	Customer Support Administrator Role		
Marketing Administrator	Marketing Administrator Role		
Sales Administrator	Sales Administrator Role		

5. A pop-up message will ask for confirmation. Click "Ok" to proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of role records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

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Password Management

Overview

Password Management is used to administer requirements and other policies about user passwords in Sugar. Sugar allows administrators to set up systemgenerated passwords versus manually created passwords for new users, failed login lockout attempts, and configure the email templates used to send password information to users. Password management is not used to change user's passwords, which can be done via their <u>User Profile</u>.

Password Requirements

The Password Requirements panel lets you configure minimum and maximum lengths of passwords, as well as what characters are required in passwords. Filling in either of the first two fields, Minimum Length and Maximum Length, will force a requirement for your users to have passwords be more than or less than a given amount of characters. Additionally, use any of the four checkboxes to force character requirements on users' passwords. This can force users to include upper case letters, lower case letters, numbers, or special characters in their passwords.

Password Requirements			
Minimum Length:	5	Maximum Length:	10
Must contain one upper case letter (A-Z):	ø	Must contain one lower case letter (a-z):	I
Must contain one number (0-9):	2	Must contain one of the following special characters (~,!,@,#,\$,%,^,&,*,(,),_,+,-,=,{,},):	

Advanced Options

You can also specify words or other strings that are not allowed in a password, called Regex Requirements. The configurations for Regex Requirements are found in the Advanced Options section of the Password Requirements panel.

Must contain one number (0-9):	1	Must contain one of the following special characters (~,!,@,#,\$,%,^,&,*,(,),_,+,-,=,{,},	
Hide Advanced Options			
Regex Requirement:	Re	gex Description:	

To set a Regex Requirement, type in code of characters that are not allowed. In the Regex Description field, write a message to users that will show when they try to edit their passwords, explaining what strings are not allowed. For more information on Regex usage, please review the Regular Expressions website at http://www.regular-expressions.info/.

Some examples of regular expressions in password rules are listed below:

Sample Expression	Password Rule
Sugar	Password cannot contain the word Sugar.
([A-Za-z0-9])\1	Password cannot repeat a letter or number consecutively; for example, AA or 88.
([a-zA-Z]){4,}	Password cannot repeat any two consecutive letters; repeat characters or letters must be separated by a special character such as %.

	Password cannot contain spaces and tabs.
[@#\$]	Password cannot contain @, #, or \$.

System-Generated Passwords

When enabled, the System-Generated Passwords feature will allow users to receive a randomly generated password via email. This functionality is utilized either when a new user is created or when an administrator activates the Reset Password button in the <u>user's profile</u>.

The two requirements to utilize system-generated passwords are:

- A user has a valid primary email address configured in their User Profile.
- A system outbound email server (SMTP) is configured in <u>Email Settings</u>.

For security reasons, when the System-Generated Passwords feature is enabled, you also have the option to set an expiration for the system-generated password. You can specify when the temporary password expires, either after a certain amount of days, months, or weeks, or after a specified number of logins. Simply click the radio button next to the expiration you would like to use and enter the login or length of time variable as necessary, or click "None" for the password to never expire. Once the temporary password expires, users will see a message upon login, informing them that the password has expired and to create a new password. The user will need to enter the temporary password along with the new password and confirm the password as well.

System-Generated Passwords	
Enable System-Generated Passwords Feature : (j)	
	nd emails is not configured in Email Settings. It must be configured in order to send passwords to users. or each user in order to use this feature.
System-Generated Password Expiration	
◯ None	Password Expires in 7 day(s) Password Expires upon logins

User Reset Password

The forgot password feature allows administrators to enable the Forgot Password link to display in the Sugar login window. If a user does not remember their password, they can click this option, enter their user name and their primary email address in Sugar, and a Reset Password link will be emailed, guiding them through the process to reset their forgotten password. For more information on how a user resets his or her password, please view the <u>Getting Started</u> documentation.

The two requirements to utilize Forgot Password feature are:

- A user has a valid primary email address configured in their <u>User Profile</u>.
- A system outbound email server (SMTP) is configured in *Email Settings*.

CAPTCHA Validation

As an additional precaution, you can enable CAPTCHA validation to prevent automated programs from gaining unauthorized access to user accounts. When enabled, when a user attempts to use the Forgot Password feature, they will have to confirm a CAPTCHA, in addition to providing their user name and primary email address.

		word
User Name:		
Email Address:		
Enter the Two Words Below:		
which	THEMEO	
	Get another CAPTCHA Switch to S	Soun
	Submit	

Use the following steps to enable CAPTCHA for the Forgot Password menu:

- 1. Create an account with reCAPTCHA from the reCAPTCHA website at <u>https://www.google.com/recaptcha</u>.
- 2. After creating an account, save your Public Key and Private Key, which will be entered into Sugar.
- 3. In Sugar, navigate to Password Management and the "User Reset Password" panel.
- 4. Click the checkbox to "Enable reCAPTCHA Validations".
- 5. Enter the Public Key and Private Key in the fields provided.

Enable reCAP	TCHA Validations:	ď		
Public Key*	6LfYwt4SAAAAAL9n5	HszJa2R1XdSPkUh97TJPC	Private Key*	6LfYwt4SAAAAABOaGTjJ0a8TTZdn0BiOjbzF1s

Honeypot Validations

Honeypots are a nonintrusive method of human form submission confirmation that is more effective than traditional CAPTCHA. Enabling the honeypot validation option will add an invisible input field to the Forgot Password form which only bots reading the HTML will be able to see. When the bots fill in the honeypot field, Sugar knows to disregard the submission since it was not created by a human, thus preventing unauthorized access to your Sugar instance.

Enable reCAPTCHA Validations : (j)	
Enable Honeypot Validations: (i)	

Email Templates

Sugar comes standard with two password templates. One is for the <u>System-Generated Password</u> emails that are sent out, and the other is for the <u>Reset</u> <u>Password</u> email. The templates are editable through Password Management and new ones can also be created. To create a new version of either template, click the Create button on the specific line. To edit the existing template, click the Edit button on the specific line.

Email Templates			
Email template containing system-generated password:	System-generated password email 🗘	Create	Edit
Email template containing system-generated link to reset password:	Forgot Password email 🗘	Create	Edit

Templates can also be viewed via the Emails module by navigating to the Email Templates list view. The templates are easily found as the Type is blank, whereas any other template will be either a Campaign, Email, or Workflow template. For more information on <u>Email Templates</u>, please review the appropriate section of the application guide.

Note: If you choose to create your own templates to send passwords, copy the variables provided in the default template. The variables "\$contact_user_link_guid" from the "Forgot Password Email" and the " \$contact_user_user_hash" and "\$config_site_url" are not available from the variable dropdowns when creating the templates.

Name		Туре	Campaign Email Workflow	Search
	Delete 💌			
	Name 🔤	Type ≑	Description	
	System- generated password email		This template is us System Administra password to a use	ator sends a new
	Forgot Password email		This template is us user a link to click user's account pas	to reset the

User-Generated Password Expiration

Sugar can force users to create new passwords after a given period. Admins can configure this for either specific amounts of time in days, weeks, or months, or after a specific amount of logins. To configure a password expiration, select the radio button next to the expiration period you would like to use and enter the timeframe or amount of logins that the user will be allotted. Once the password expiration is reached, users will see a message upon login, informing them that their password has expired and to create a new password. The user will need to enter their current password along with their new password and confirm the password as well.



Login Lockout

To prevent against unauthorized logins, Sugar includes a configurable lockout function. This means that you will define a specific amount of unsuccessful attempts that a user name can be used to log in before the user name will not be able to log in. You also configure a given amount of time before the restriction is listed in either minutes, hours, or days. To configure Login Lockout, click the radio button next to "Lockout users after {blank} unsuccessful login attempts", fill in the maximum number of attempts allowed and define the timeframe.

Login Lockout	
None	OLockout users after 5 un-successful login attempts
	Enable login again after: 30 Minutes 🗣

Note: When a user has been locked out, the user must wait until the given timeframe has passed. The only way to manually allow a user to log back in is by clicking the <u>Reset User Preferences</u> button in the user's profile.

	User Name:	chris	
Cannot send pass	word	×	ar
This user is locked application and car his/her existing pas	not log in using		

External Authentication

Sugar can respect external authentication protocols (i.e. LDAP and SAML) to give users a seamless login process via single sign-on (SSO) services. LDAP and SAML configuration options are located in the last two panels of the Password Management page. Click the checkbox next to the external authentication type that you would like to enable. Upon selection, the page's contents will refresh and the chosen protocol will supersede any other Password Management settings.

Note: If a user logs out of their single-sign on account from outside of Sugar, they will continue to be logged into Sugar.

LDAP Support	
Enable LDAP Authentication (i)	
SAML Authentication	

The following sections explain <u>LDAP</u> and <u>SAML</u> options in more detail.

Note: <u>Team Management</u> and <u>Role Management</u> are still taken into account when External Authentication is active.

LDAP

Sugar can be configured to accept Lightweight Directory Access Protocol (LDAP) authentication if your organization has implemented LDAP or Active Directory authentication. When users in your system attempt to log into Sugar, the application will authenticate their credentials against your LDAP directory or Active Directory. If authentication is successful, the user is granted access to Sugar. If the authentication is unsuccessful, Sugar will then attempt to verify the provided credentials against its own database of valid user names and passwords.

To configure LDAP, navigate to Admin > Password Management, and click the "Enable LDAP Authentication" checkbox near the bottom of the screen. All other screen options will be removed and you will be presented with a page of only options for LDAP.

LDAP Support			
Enable LDAP Authentication (i)			
Server: (1)		Port Number:	
User DN: 🕖		User Filter: (1)	
Bind Attribute: 🕧		Login Attribute: (1)	
Group Membership: 🕖			
Authentication: (i)			
Auto Create Users: 1			
Encryption Key:			

Fill in the appropriate options in the following fields, and then click "Save" to commit the changes. We have suggested values for each field, but these may vary depending on your LDAP configuration.

Field	Suggested Values	Description
Authentication	Enter " username@MYSERVER.M YDOMAIN.com" or "domai n\\userfirstname.userlastn ame" for the User Name, and the corresponding Password. Note : The latter username format requires double	Check this box to enable the User Name and Password fields. Note : You must add a service account user (read- only access) to your Active Directory to authenticate via Sugar.

	backslashes after the domain. Sugar will automatically remove one backslash upon Save.	
Auto Create Users	Typically, this box remains disabled.	Select this checkbox to create the username in the Sugar database if it does not already exist.
		Note : When enabled, a Sugar user is created for every LDAP user logging into the application. This will occupy an active Sugar license for each created user.
Bind Attribute	For Active Directory, enter userPrincipalName	A case-sensitive value
Enable LDAP Authentication		Uncheck this box if you would like to disable LDAP in your instance.
Encryption Key		If you are using LDAP with SOAP, enter the encryption key to encrypt user passwords in the <u>Sugar Plug-in for</u> <u>Microsoft Outlook</u> .
		Note: The "php_mcrypt" extension must be enabled in the php.ini file.
Group Membership	Group DN : Enter the group DN name • ou=groups • dc=example • dc=com	Select this checkbox if you wish to specify that the user is a member of a specific group.
	Group Name : Enter the group name	
	• cn=sugarcrm	
	User Attribute : A unique	

	 identifier used to check if the user is a member of the group uid Group Attribute : The attribute of the group that will be used to filter against the User Attribute MemberUid 	
Login Attribute	For Active Directory, enter sAMAccountName	A case-sensitive value
Port Number	389	Enter the port number. 389 is the default port.
Server	MYSERVER.MYDOMAIN.c	Enter the FQDN of your Active Directory Server which should be your Domain Controller.
User DN	ou=people, dc=example, dc=com	Enter the user DN name.
User Filter	is_user_id=1	Enter any additional parameters to apply when authenticating users.

SAML

Sugar can be configured to accept Security Assertion Markup Language (SAML) for single sign-on if it is implemented at your organization. When users in your system attempt to log into Sugar, the application will authenticate them against SAML. If authentication is successful, the user is granted access to Sugar. If the authentication is unsuccessful, Sugar will then attempt to verify the provided credentials against its own database of valid user names and passwords. Sugar supports the use of SAML version 2.0.

To configure SAML, navigate to Admin > Password Management, and click the "Enable SAML Authentication" checkbox in the SAML Authentication panel. The SAML Authentication page will open where you can enter the appropriate values in the fields to configure SAML. If you wish to auto-populate certain fields (e.g. Login URL, Entity ID, X509 Certificate) on the configuration page using an XML metadata file, simply click "Import IdP Metadata File" then locate the desired file and click "Open". Once the necessary fields have been completed and saved, you will have the option to export an XML metadata file containing the SAML settings in Sugar by clicking the Export Metadata File button. Please note that you will only be able to export a file if the required fields have been completed and saved on the page.

Cancel Export Metadata File	Import IdP Metadata File
AML Authentication	
nable SAML Authentication (i)	
ogin URL 🕡 🔹	
SLO URL 🕕	
Entity ID (i) 🔹	
SugarCRM Entity ID	
X509 Certificate (1) •	
Auto-create user (i)	
Load login screen in same	
window to avoid pop-up blocking (1)	
Request Signing Private Key (i)	Choose File No file chosen
Request Signing Certificate (1)	Choose File No file chosen
Request Signing method (1)	RSA-SHA256 \$
Sign AuthN Request	0
Sign Logout Request (1)	

Fill in the appropriate options in the following fields, and then click "Save" to preserve the settings:

Field	Description
Enable SAML Authentication	Uncheck this box if you would like to disable SAML Authentication in your instance.
Login URL	Enter the SAML URL for authentication. Note : This is the path to the SAML server to which you are authenticating.
SLO URL	Enter the single logout endpoint to which Sugar will send logout requests. When Sugar sends a logout request to

	the identity provider (e.g. Okta), it will extend that request and terminate active sessions for all other service providers that are sharing the session established via SAML. Note : Single logout requests can be initiated from either the identity provider or Sugar.
Entity ID	Enter a valid URI for the IdP (identity provider) entity. Note : Sugar will only accept SAML assertions from this ID.
SugarCRM Entity ID	Enter a valid URI for the service provider entity.
X509 Certificate	Enter the SAML X509 certificate public key.
Auto-create user	Check this box to automatically create a new username in the Sugar database if it does not already exist. When enabled, a new Sugar user is created for every SAML user logging into the application. Note : This will occupy an active Sugar license for each created user.
Load login screen in same window to avoid pop-up blocking	Enable this option to load the SAML login screen in the current window to prevent pop-up blockers from preventing single sign-on.
Request Signing Private Key	Upload the PEM file containing the private key to be used to sign the AuthN and Logout requests. Note : The private key must be uploaded in order to sign the logout request, logout response, and/or AuthN request.
Request Signing Certificate	Upload the CRT file containing the X.509 certificate to be used to sign the AuthN and Logout requests. Note : The certificate should match the uploaded private key.
Request Signing method	Select the digital signing method for the logout request, logout response, and/or AuthN request. The recommended options are either "RSA-SHA256" or "RSA-SHA512".

Sign AuthN Request	Check the box to sign the AuthN request using the private key and certificate. Note : The "Request Signing Private Key", "Request Signing Certificate", and "Request Signing method" fields must be completed in order to sign the AuthN request.
Sign Logout Request	Check this box to sign the logout request using the private key and certificate. Note : The "Request Signing Private Key", "Request Signing Certificate", and "Request Signing method" fields must be completed in order to sign the logout request.
Sign Logout Response	Check this box to sign the logout response using the private key and certificate. Note : The "Request Signing Private Key", "Request Signing Certificate", and "Request Signing method" fields must be completed in order to sign the logout response.

If you are using OneLogin, please ensure that only the email address user field is mapped to Sugar's email address field in OneLogin's parameters configuration. Mapping to other fields such as user name is not supported and may prevent authentication.

Note: You must disable the <u>Forgot Password</u> option if you are using SAML authentication.

Setting User Passwords

Administrators have the option to manually set or reset user's passwords as need be. Setting a regular user's password is done simply through the Users module via Admin > User Management. This method will vary depending on the <u>System-</u> <u>Generated Passwords</u> option. For more information on changing a user's password from the Users module, please review the <u>Resetting User Passwords</u> section of the Users documentation.

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User Management

Overview

The User Management module provides administrators access to create, edit, activate, and deactivate the profiles of all the users in their Sugar instance. This module and underlying settings control each individual's login credentials as well as some personalized settings. During the installation process, Sugar creates one system administrator by default. The system administrator can log in and create additional users, in a variety of capacities, to be able to access Sugar and utilize all of the other CRM functionality. In combination with the role and team security, administrators can fully establish a profile for each user in Sugar.

User Types

There are four types of users in Sugar: Regular User, System Administrator, Group User, and Portal API User. Each user type has different functions and uses in Sugar which will vary for each instance. Depending on an organization's use of Sugar, not all of these user types will necessarily be used.

Note: Users with an inactive status do not count toward the number of Sugar licenses purchased for the organization. Group Users and Portal API Users never count against the number of Sugar licenses regardless of status.

Regular User

A regular user is the most common of the user types. A majority of employees of an organization will be regular users. This user can access most Sugar modules and perform most every day-to-day function. Regular users are subject to be restricted in their abilities and what records they can access by an administrator using the <u>Teams</u> and <u>Roles</u> functionalities in Sugar.

Regular Users will appear in the <u>Employees</u> module. To create a Regular User, please review the <u>Regular and Admin Users</u> section of this documentation.

System Administrator

System Administrator users, or "admins," have all of the abilities and functionality

of a regular user, but also have administrative privileges as well. Admins can perform functions such as creating and editing users, editing system wide settings, and have access to diagnostic and troubleshooting tools. In addition, admins can access all modules and records, and are not subject to team or role restrictions. All instances of Sugar require at least one administrator, but it is also recommended to have more than one in case the original admin is unavailable or is no longer with the company.

System Administrators will appear in the <u>Employees</u> module.To create a System Administrator, please review the <u>Regular and Admin Users</u> section of this documentation.

Note: All administrators where the user status is active count as a licensed user.

Group User

A Group User is a bucket that is used for assigning records to a non-specific user (e.g. Sales, Support) in the organization. Unlike a Regular or System Administrator user, a Group user does not have access to log in to Sugar. Due to this, they do not have the same profile settings available, including the option to set a password. Since Group users cannot log in to Sugar, they do not count against an organization's license count.

Examples of uses for a Group user would be to assign all new leads to a group user named "Sales" or assign all new support cases to "Support" before they are delegated to specific users (e.g., John Smith) in the organization.

Please note that Group users will not appear in the <u>Employees</u> module. For more information on how to create a Group user, please review the <u>Group Users</u> section of this documentation.

Portal API User

A Portal API User is similar to a Group User except that it is created specifically to communicate with the Sugar server using the Sugar Portal SOAP API functionality. It is intended only for use with Sugar Portal and is enabled when the Sugar Portal is enabled via Admin > Sugar Portal. It must remain enabled in order for portal users to authenticate. Using legacy Sugar Portal (an external application) also requires the enablement of this user. This user can only be used to authenticate contact credentials against SOAP V1 portal API methods in Enterprise and Ultimate editions. To create a Portal API user, please review the <u>Portal API Users</u> section of this documentation.

Portal API Users will not appear in the <u>Employees</u> module and are not counted in the user license agreement. More information about the Sugar Portal can be found in the Sugar Portal documentation. Sugar's API documentation can be found in the Web Services section of the Developer guide.

Note: The Portal API user is not intended to be a free API user for external integrations and has very limited functionality through the SOAP API.

User Fields

The Users module contains a number of stock fields, which are included out-of-thebox with Sugar. The below definitions are suggested meanings for the fields, but many of the fields can be leveraged differently to best meet your organization's needs. System Administrators have the ability to alter, remove, or add fields in the User Profile tab via Admin > Studio, minus a few noted exceptions. For more information on adding or modifying fields, please refer to the <u>Studio</u> documentation in the Administration guide.

Field	Description
Address City	The city of the user's address
Address Country	The country of the user's address
Address Postal Code	The postal code of the user's address
Address State	The state of the user's address
Address Street	The street name and number of the user's address
Avatar	Upload an image to this field to represent the user that will be shown on the <u>Activity Stream</u> and next to the user's name on the navigation bar
Department	The department where this user works
Description	A description or other information about this user
Display Employee Record	Check this box if the user should have an employee record show in the <u>Employees</u> module
Email Address	The user's email addresses, where a primary address is selected to receive

The User Profile tab contains the contact information for the user and other important user-specific settings. The User fields are as follows:

	email notifications and if this should be a reply to address when using Sugar's outbound email (SMTP) functionality
	Note : This field is not editable in Studio
Email Client	When clicking on an email address in Sugar, this will determine if Sugar's email composero will open or if the user's primary email program on this computer (e.g. Microsoft Outlook, Apple Mail, etc.) will open
	Note : This field is not editable in Studio
Employee Status	The user's employment status in the organization (Active, Terminated, or Leave of Absence)
	Note : The Employee Status and Status fields are managed separately, so consider choosing a new employee status when the Status field changes.
Fax	The user's fax number
First Name	The user's first name
Home Phone	The user's home phone number
IM Name	The user's instant message screen name
ІМ Туре	The user's instant message service type
Last Name	The user's last name
Mobile	The user's mobile phone number
Other Phone	An additional phone number for the user
<u>Reports to</u>	The user's manager. The user that this user reports to will become an implicit member of this user's <u>Teams</u> , and this user will also affect their manager's <u>forecasting</u>
	Note : This field is not editable in Studio
SMTP Password	If an outgoing email server is defined in Admin > <u>System Email Settings</u> , the user's SMTP password can be input here to send mail through Sugar

	Note : This field is not editable in Studio
SMTP Username	If an outgoing email server is defined in Admin > <u>System Email Settings</u> , the user's SMTP user name can be input here to send mail through Sugar
	Note : This field is not editable in Studio
Status	Making a user inactive will make it so this user cannot log in to Sugar. This will also remove the user from taking a license seat, without having to <u>delete</u> the user. When making a user inactive, the admin is prompted to use the <u>Reassign Records</u> function.
	Note : The Employee Status and Status fields are managed separately, so consider choosing a new employee status when the Status field changes.
Title	The user's job title
User Name	The user name will be what the user logs in to Sugar with on the login page. It will also show for other users when they view fields such as "Assigned to" and "Created By". This is the name that will define the specific user in Sugar and should be unique for every user.
	Note : Spaces may not be included in user names.
User Type	This is where the admin can decide to grant a regular user <u>System</u> <u>Administrator</u> access to Sugar
	Note : This field is not editable in Studio
Work Phone	The user's work phone number

The Advanced tab in the user's profile includes settings to configure how Sugar will function for that specific user. The fields in the Advanced tab cannot be edited in Studio.

Field	Description
1000s Separator	Select a character to use as a 1000's

	separator, with an example showing in the "Example" box
System Significant Digits	Define how many digits will appear after the decimal point when the user views a currency field, with an example showing in the "Example" box
Data Font Size	The default font size of the PDF body when generated by this user
Date Format	How date fields will appear for the user, with the ability to control month, day, and year formatting
Decimal Symbol	Select a character to use as a decimal symbol, with an example showing in the "Example" box
Default Teams	A default team defines the team set when this user creates a record. Whenever this user creates a record, the team is set as the user's default team, similar to how the "Assigned To" field is set to be the created user. Note : Users can be assigned any
	number of default teams
Export Delimiter	Character or characters used to delimit exported data by this user
First Day of Week	Which day of the week will show as the first day when the user views the Sugar calendar
Font for Footer	Select a font for the footer in PDF documents when generated by this user
Font for Header and Body	Select a font for the header and body of PDF documents when generated by this user
iCal integration URL	URL in which someone can subscribe to the user's Sugar calendar within iCal or other programs that support iCal integrations
Import/Export Character Set	The default character set used for imports, exports, and vCard generation for this user
Main Font Size	The default font size in the PDF header

	when generated by this user
Name Display Format	How concatenated name fields will appear for the user, with the ability to control first name, last name, and salutation formatting
Notify on Assignment	When this box is checked, the user will receive an email notification when a record is assigned to them by another user
	Note : A system outbound mail account must be enabled in Admin > <u>System</u> <u>Email Settings</u>
Preferred Currency	Select the user's default currency, with additional currencies able to be defined in Admin > <u>Currencies</u>
Publish at my Location	Used to share free/busy information between Sugar and Microsoft Outlook <u>calendars</u>
Publish Key	Alphanumeric code entered by the user to uniquely identify his or her calendar and populate the iCal integration URL, Publish at my location site, and Search Location
Reminders	This field sets the default reminder settings for <u>calls</u> and <u>meetings</u> created by this user so that when the user creates a call or meeting, the reminder settings will be pre-populated to the configuration defined in this field.
	Popup : Users that are invited to a call or meeting created by this user to receive a browser popup notification for the call or meeting at a given time interval before the activity.
	Email all invitees : Invitees invited to a call or meeting created by this user to receive an email notification for the call or meeting at a given time interval before the activity.
Search Location	Used to share free/busy information

	between Sugar and Microsoft Outlook <u>calendars</u>
Select Modules for Navigation Bar	The order of the module navigation bar is defined by the order in the Display Modules column and modules listed in the Hide Modules column will not appear in the bar
Show Full Names	When this box is checked, the user will see user's full names ("John Smith") instead of user names ("jsmith") when using Sugar
Show Preferred Currency	Mark the checkbox to convert the base currency to user preferred currency in list views and record views
Time Format	How time fields will appear for the user, with the ability to control hour, minute, and 12 versus 24 hour clock formatting
Time Zone	Select the local time zone for this user based on geographical location Note : This Time Zone setting only applies to modules using the Legacy user interface. Modules using the Sidecar user interface will utilize the browser's time zone.
User Wizard Prompt	Mark the checkbox to have users go through the New User Wizard upon their first login

Understanding the Reports To Field

The Reports To field on the User record is used by various parts of Sugar to determine who a user's manager (i.e. supervisor) is. Some examples of how Sugar uses this relationship are described below:

- Workflow Management : Alerts and actions in Sugar's Workflows module allow you to send an alert to or assign a record to a user's manager. For example, you may wish to notify a user's manager when that user creates a new high-priority case. Refer to the <u>Workflow Management</u> documentation for more information.
- Advanced Workflow : Users' managers can be used in activity

assignments, email recipients, and evaluations when designing a process definition. For example, you may wish to assign an approval activity to the manager of the owner of a quote before the quote is ready to be sent to the customer. Refer to the <u>Process Definitions</u> documentation for more information.

- **Forecasts** : Managers aggregate the forecast amounts of their reportees with their own forecast amounts to predict their total team's sales and work towards the team's quota. Refer to the <u>Forecasts</u> documentation for more details on how sales managers use forecasts.
- **Teams** : Managers are an implicit member of all of their reportees' teams, which gives them access to all of their reportees' records. Refer to the <u>Team Management</u> documentation for more details on implicit and explicit team membership.
- **Organization Chart Dashlet** : This dashlet visually outlines the hierarchy of Sugar users under the current user according to the Reports To field. The dashlet includes reportees that are one or more levels below them.

Note: Only administrators can edit the Reports To field.

Users Module Tab

Administrators can access the Users module tab via Admin > User Management. Click the triangle in the Users module tab to open the Actions menu and Recently Viewed menu. You can also click the Users tab to access the Users list view. The Actions menu allows you to perform important actions within the module. The Recently Viewed menu displays the list of users you last viewed in the module. For more information on records last viewed, please refer to the <u>Viewing Via Recently</u> <u>Viewed</u> section of this page.



The options in the Actions menu allow you to perform the following types of action:

Option	Description
<u>Create New User</u>	Opens the edit view layout to create a new user
<u>Create Group User</u>	Opens the edit view layout to create a new Group User
Create Portal API User	Opens the edit view layout to create a new Portal API User
Reassign Records	Opens the Reassign Records tool
Import Users	Opens the import wizard to create or update users using external data

Creating Users

There are various methods for creating new users in Sugar. These are via the users module, duplication, or import. Creating users is an imperative function in Sugar as it allows for other members of your organization to log in to Sugar and access all of your customer data.

Creating Via Module Tab

The most common method for creating users in Sugar is via the Users module. The edit view layout opens when creating the user directly from the Users menu and includes all of the relevant fields to create a new user. The fields and options on the Create page will vary depending on the <u>type of user</u> you are creating.

Regular and Admin Users

Regular and Admin users are the most common users that will be created in a Sugar instance and contain the most detail and fields compared to the other <u>user</u> <u>types</u>. For more information about the use of Regular and Admin users, please review the <u>Regular User</u> and <u>System Administrator</u> sections of this documentation.

Use the following steps to create a new user:

- 1. Navigate to Admin > User Management.
- 2. Click the triangle in the Users module tab to open the Actions menu and select "Create New User".

•	Accounts 👻	Contacts 👻	Opportunities 👻	Use	rs 💌	Search	۹
Search Users			+	Create N	lew User		
Search	03613			+	Create G	Group User	

- 3. Enter appropriate values for the <u>fields</u> in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.
 - Enter the following information under the User Profile tab:
 - In "User Profile" enter a user name for this user which will define the specific user in Sugar and should be unique for every user. Sugar will default the user to being Active and a Regular User, which can be updated if the user is going to be an administrator.
 - In "Employee Information", contact information and other specific information about the user can be added. This will include phone numbers, contact address, the user's department and job title, and any description information.
 - In "Email Settings" the user's email address or addresses can be added. The email addresses can also be marked as "Primary", meaning that this will be the first email address that shows for the user, and "Reply-to", where automatic notifications from Sugar will be sent. In this section, the user's outbound email client will be selected to default to Sugar or an external program, such as Microsoft Outlook. If a mail server is configured in Admin > <u>System Email</u> <u>Settings</u>, additional options will display here for SMTP Username and SMTP Password.

Email Settings				
Email Address: *	+		Primary	Reply-to
	test@example.com		۲	\bigcirc
	example@test.com	-	\bigcirc	۲
Email Client: 🕧	Sugar Email Client			

- The Advanced tab includes preference-type settings (User Settings, Layout Options, Locale Settings, PDF Settings, Calendar Options) for the user. These are all specific to the user's account and will not affect system-wide settings or other users. Options such as assignment notifications, date and time formats, time zone, preferred currency, etc. are available to configure under this tab.
- 4. If the system-generated password feature is not enabled in <u>Password</u> <u>Management</u>, a Password tab will appear to the right of the User Profile tab. The administrator can manually enter a password for the user under

this tab and provide it to the user. Please note that the password requirements listed on the right will be checked off as the new password meets the required conditions.

User Profile	Password	Advanced	External Accounts
Password			
New Password Confirm Password			 Must contain one upper case letter (A-Z) Must contain one lower case letter (a-z) Must contain one number (0-9) Minimum Length =6

Note: If the system-generated password feature is enabled, this tab will not be available. Instead, a system-generated password will be sent to the user upon completion of the creation process.

5. After entering the necessary information click the Save button.

Create

Sa	Save Cancel Reset User Preferences				
User Profile Password Advanced					
[1			
	User Name: *	jsmith			
	Status: *	Active	\$		

Upon saving, an email will be sent to the user with the user's systemgenerated password (if applicable) and a corresponding Employee record will be created for the user. Once the user is created, the administrator can assign <u>Teams</u> and <u>Roles</u> to the user via the <u>Access</u> tab.

Group Users

A Group user cannot log in to Sugar, but new and existing records can be assigned to the Group user. The Create page for the Group user consists of the User Name, Status, Name, User Type, and Email Address fields. For more information on how to use Group users in Sugar, please review the <u>Group User</u> section of this documentation.

Use the following steps to create a Group user:

1. Click the triangle in the Users module tab to open the Actions menu and select "Create Group User".

Use	rs 🔽 🚦	•
+	Create New User	
+	Create Group User	

- 2. Enter a name and user name (e.g. Support) for this user.
- 3. In the Email Settings section, enter an email address or addresses for the Group user. The group user's primary email address will be marked as "Primary" and you can also mark "Reply-to" if any automatic notifications from Sugar will be sent to this address.
 - **Note**: If your organization has a group inbox or alias for a team represented by the group inbox, the email address can be added here for all notifications to be sent to the entire team.
- 4. Click "Save" to create the user.

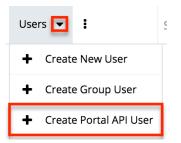
Save Cancel	Reset User Preferences		* Indicates require
User Profile			
	1		
User Name: *	Support	Name: * Support	
Status: *	Active \$	for Inbound Er	r ining items to a group (example: mail). This type cannot login ugar web interface.
Email Settings			
Email Address:	+	Primary Reply-to	
	support@example.com	$ \odot$ \odot	

Portal API Users

A Portal API user cannot log into Sugar via the web interface, but the name and user name will appear for other users as they view records assigned to the group user, or assign records to this user. The Portal API user creation screen only contains five fields. For more information on the use of the Portal API user, please review the <u>Portal API User</u> section of this documentation.

Use the following steps to create a Portal API user:

1. Click the triangle in the Users module tab to open the Actions menu and select "Create Portal API User".



- 2. Enter a name and user name for the user.
- 3. In the Email Settings section, enter an email address or addresses for the API user. The group user's primary email address will be marked as "Primary" and you can also mark "Reply-to" if any automatic notifications from Sugar will be sent to this address.
- 4. On the Password tab, enter and confirm a password for the user following the password requirements set in Admin > <u>Password Management</u>. This password will be used to log in to the API for this user.
- 5. Click "Save" to create the user.

Create

Sav	/e Cancel	Reset User Preferences		* Indicates required fi
Use	er Profile P	assword		
_				
	User Name: *	API	Name: *	API User
	Status: *	Active \$	User Type:	Portal API User
				Use for the Portal API. This type cannot login through the Sugar web interface.
	Email Settings			
	Email Address:	H	Prima	ary Reply-to
		api@example.com	- •	0

Creating Via Duplication

Often, administrators will find themselves in situations where multiple users must be created at once, whether it be when they are first setting up Sugar, a new group of employees is going to be using Sugar, etc. For situations such as these, one user can be configured and additional users can be quickly set up using the Copy option available on the record's detail view. When duplicating a user, all fields are populated from the original record to the duplicated one, except for the User Name field and password fields.

Use the following steps to create a user by duplicating an existing user:

- 1. Navigate to the detail view of the user you would like to duplicate.
- 2. Click the Actions menu and select "Copy".

Edit 💌		
Сору	ed Acce	ee
Delete	Acce	33
Reset Password	-	
Reset User Preferences		
EIII Nam		

- 3. The displayed edit view is pre-populated with the original user's values, except for the user name and password.
- 4. Populate the "User Name" for the new user and edit any other fields or preferences to be specific to the new user. Fill in any information for the new user that did not exist on the original user.
- 5. If the system-generated password feature is not enabled in <u>Password</u> <u>Management</u>, a Password tab will appear to the right of the User Profile tab where administrators can manually create a password for the user. Please note that the password requirements listed on the right will be checked off as the new password meets the required conditions.

User Profile	Password	Advanced	External Accounts
Password			
New Password Confirm Password			 Must contain one upper case letter (A-Z) Must contain one lower case letter (a-z) Must contain one number (0-9) Minimum Length =6

Note: If the system-generated password feature is enabled, this tab will not be available. Instead, a system-generated password will be sent to the user upon completion of the creation process.

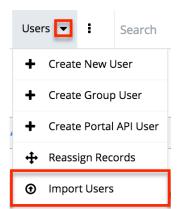
6. Click "Save".

The new user is now created and available for use. This process is applicable for all <u>user types</u>.

Creating Via Import

The import function in Sugar allows you to push multiple user records into Sugar using a comma (or other character) delimited file instead of creating them one-byone. Use the following steps to import users via the Import Users option. For more information on importing records to Sugar, please refer to the <u>Import</u> documentation.

1. Click the triangle in the Users module tab to open the Actions menu and select "Import Users".



- 2. In Step 1, select the source of the data you are importing. Click "Next".
- 3. In Step 2, select the import file and choose "Create new records only". Click "Next".
- 4. In Step 3, confirm the import file properties. Click "Next".
- 5. In Step 4, confirm the field mappings for the import. Click "Next".
- 6. In Step 5, configure any fields you would like to use for duplicate checking.
- 7. In Step 6, view the import results.
 - The Created Records tab will show all of the new user records.
 - The Duplicates tab will show any records in the file that were detected as a duplicate and thus not imported from the duplicate check in Step 5 of the Import Wizard.
 - The Errors tab will show records that were not imported due to errors detected during import.

Viewing Users

There are various options available for viewing user records in Sugar including via Users recently viewed, Users list view, Users detail view, dashlets, and reports.

Viewing Via Recently Viewed

As you work, Sugar will keep track of which users you have recently viewed. Click the Actions menu in the Users module tab to see a list of your most recently viewed users, and click each name to open the user in detail view.

Use	rs 💌 🚦	Search	
+	Create New l	Jser	
+			
+	Create Portal API User		
÷	Reassign Records		
€	Import Users		
0	ာ Sarah Smith		
0	Will Westin		

Viewing Via List View

The Users list view displays all user records meeting the current search criteria. To access the list view, navigate to Admin > User Management. While the list view shows key user fields, you can click the user's name to open the record in detail view. For more information on viewing users via list view, please refer to the <u>Users</u> <u>List View</u> section of this documentation.

Viewing Via Detail View

The Users detail view displays thorough user information including all user fields followed by subpanels of the user's related records belonging to various modules. The detail view also provides the Access tab, which allows <u>Teams</u> and <u>Roles</u> to be related to the user. Any admin user can click a user record's link from anywhere in the application, including from the Users list view to access the user's detail view. For more information on viewing the user's detail view, please refer to the Users Detail View section of this documentation.

Viewing Via Dashlets

The Home page displays a collection of Sugar Dashlets which allow users to get a quick view of various records, activities, reports, etc. Clicking a user's name from any dashlet will open the user in detail view and administrators can make changes to the user's profile as necessary. For more information on using dashlets, please refer to the <u>Dashboards and Dashlets</u> documentation.

📬 🔹 Accounts 👻 Cont	acts 🔻 Opportunitie	s 🔻	Leads 🔻 Calenda	r 🔻	Reports 🔻 Quotes	✓ i	Sea	rch Q	•
ly Dashboard								*	Create
Pipeline	^	٥	Contacts						~ -
2017 Q4 👻	2		Name	\$	Account Name 🜲	Office Phone	\$	Title 🗢	User
Perception Analysis	Value Proposition		Karly Loughman		Smallville Resources Inc	(312) 353-8030	9	Senior Product Manager	Sarah Smith
Needs Anal	vsis	,	Simone Lawerence		AB Drivers Limited	(120) 579-3907	,	VP Operations	Sally Bronsen
\$866 (1			Jessi Han		Powder Suppliers	(552) 170-1757	I	President	Sally Bronsen
			Roderick Swarthout		Slender Broadband Inc	(157) 752-1793	,	VP Operations	Sally Bronsen

Viewing Via Reports

Administrators have the option to build, run, and manage reports to gather key data from records within Sugar. When building a report, you may either create a report based on the Users module or add links to the Users module in a report based on a module related to Users. Once the report is run, you can view the user record's detail view simply by clicking the user's name in the report results. Please note that you can only access user detail views via the Rows and Columns and Summation with Details-type reports as Summation and Matrix-type reports do not include hyperlinks in their display columns. For more information on using reports, please refer to the <u>Reports</u> documentation.

Name: Use Modules: U Display Co Schedule: Filters: No	Jsers Diumns: User Name, Is Ao None	dministrator, Status	Type: Rows and Columns Report Teams: Global Assigned to: Administrator
			📧 🔇 (1 - 9 of 9) 📎 渊
User Nam	e 🖕	Is Administrator \Leftrightarrow	Status ⇔
admin			Active
chris			Active
jim			Active

Searching Users

The Users module's list view includes Basic and Advanced Search functionality to help you locate users easily and effectively. Once the search is performed, the relevant search results will be displayed in the Users list view below. Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to pull up all records that include the keyword entered in the search. If you would like to broaden the search, you can use the "Wildcard" (%) at the beginning of your text as well (e.g. %manager). This will pull up any record that has the word "manager" in the name, regardless of how it starts or ends (e.g. "Department Manager", "Product Manager" or "Project Manager").

For more information on using the various search methods as well as how wildcards are used, please refer to the <u>Search</u> documentation.

Basic Search

Basic search offers only Full Name as a searchable field. From the Basic search panel, you can click "Advanced Search" to access additional search functionality.

Search Users

Full Name Sear	arch Clear Advanced Search
----------------	----------------------------

The buttons available in the Basic Search panel are also available in Advanced Search.

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.

When you run a search, Sugar will return records matching the criteria you typed in the Full Name search box. Once the search is complete, the relevant results will populate in the <u>list view</u> below the search panel. To see all user records, simply click "Clear" and then "Search" to perform a blank search with no filters.

Administrators can also configure what fields appear on the Users Basic Search via Admin > Studio. For more information on editing the Basic Search layout, please refer to the <u>Studio</u> documentation.

Advanced Search

Advanced Search offers a more in-depth search experience than Basic Search including additional fields, layout options, and saved search capability. From the Advanced search panel, you can click "Basic Search" for simplified searching.

The buttons, checkboxes, and dropdowns available in Advanced Search have the

following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.
- **Layout Options** : Use the expandable Layout Options section to configure your list view. For more information, please refer to the Layout Options section of the <u>Search</u> documentation.
- **Saved Searches** : Save, recall, update, and delete searches which you use often. For more information, please refer to the Saved Search section of the <u>Saved Search</u> documentation.

When you run a search, Sugar will return records matching all (as opposed to any) of the fields and checkboxes for which you have given a value. For example, if you select "Is Administrator" as "Yes" and enter in a "First Name" to search, Sugar will only return the user records with a matching first name that are admins. Once the search completes, the relevant results will populate in the <u>list view</u> below the search panel. To see all user records, simply click "Clear" and then "Search" to perform a blank search with no filters.

Administrators can configure what fields appear on the Users Advanced Search via Admin > Studio. For more information on editing the Advanced Search layout, please refer to the <u>Studio</u> documentation.

Users List View

The Users list view displays all user records meeting the current search criteria. You can view the basic details of each user within the columns of fields.

You have the option to change what fields are displayed in list view by configuring your layout options available in Users Advanced Search. For more information on configuring your list view, please refer to the Layout Options section of the <u>Search</u> documentation. You can also change what fields are visible in the list view via Studio. For more information on editing list view layouts, please refer to the <u>Studio</u> documentation.

Checkbox Selection

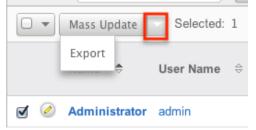
You can perform actions on user records directly from the list view by first selecting the desired records. To select individual user records on the Users list view, mark the checkbox on the left of each row. To select or de-select multiple user records on the list view, use the options in the checkbox dropdown menu.

- **Select This Page** : Selects all records shown on the current page of user results.
- **Select All** : Selects all records in the current search results including all pages of user results.
- **Deselect All** : De-selects all records that are currently selected.

🗌 🖳 Mass Update	▼ Selected: 2
Select This Page (20)	
Select All (126)	User Name ⇔
Deselect All	admin
🥑 🖉 Jim Brennan	jim
Sally Bronsen	sally

Actions Menu

The Actions menu to the right of the checkbox dropdown allows you to perform various actions on the currently selected records.



The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
<u>Mass Update</u>	Mass update one or more users at a time
<u>Export</u>	Export one or more users to a CSV file

Pagination

List view displays the current search results broken into pages that you can scroll through rather than potentially displaying thousands of rows at once. To the right just below the search panel you can see which records of the total results set are

currently being displayed. The two single-arrow next and previous buttons can be used to scroll through the records page-by-page. The two double-arrow first and last page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation.

Full Name	Search Clear Adv	vanced Search	3
□ ▼ Mass Update ▼ Sel	ected: 1		(1 - 20 of 126)

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows in the column header. The list view may be sorted by only one column at a time. You can also set a default order-by column using the layout options in Advanced Search to specify which field to automatically sort results by in the list view. For more information on setting a default column sort, please refer to the Layout Options section of the <u>Search</u> documentation.

	Name 🔤	User Name	Title ≑
0	Administrator	admin	Administrator

Users Detail View

The Users detail view displays thorough user information including all user fields which are grouped by default into the User Profile, Advanced, and Access panels. You can also view information from records related to the Users module as subpanels below the detail view. For more detailed information about adding relationships, please refer to the <u>Studio</u> documentation. The detail view can be reached by clicking a user record's link from anywhere in the application including from the Users list view.

Administrators have ability to change what fields are visible in the detail view by configuring the field groupings via Admin > Studio. For more information on editing detail view layouts, please refer to the <u>Studio</u> documentation.

Actions Menu

The Actions menu on the top left of each user's detail view allows you to perform various actions on the current record. Please note that administrators in Sugar can change the action items to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on how to configure the actions menu, please refer to the <u>System</u> documentation.

Edit	•
Сору	ed Access
Delet	100 100000
Reset	Password
Reset	User Preferences
_	Fuil Name: Jim Brennan

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit this user
Сору	Duplicate this user
Delete	Delete this user
Reset Password	Remove the user's current password and email a new one
<u>Reset User Preferences</u>	Revert all user preferences back to system-wide settings

Tabs

The detail view for a user is broken up into multiple tabs to better organize the different fields available in the Users module. Some of the available tabs in the user's profile are "User Profile", "Advanced", and "Access". A Downloads tab is also available when viewing your own profile. For more information on viewing your personal user profile, please review the <u>User Preferences</u> documentation.

User Profile

The User Profile tab displays information specific to the user such as the user's name, user type, employment status, contact information, etc. Administrators have the ability to configure the User Profile layout via Admin > <u>Studio</u>. For more information on editing the user's profile in the Users module, please refer to the

Editing Via Detail View section of this documentation.

Advanced

The Advanced tab shows information specific to the user's preferences in Sugar. Information such as the user settings, locale settings, PDF settings, etc. can be easily viewed under this tab. Please note that the layout of this tab cannot be edited in Studio. However, you can edit the information under the tab by clicking the Edit button on the user's detail view. For more information on editing the user's profile, please refer to the <u>Editing Via Detail View</u> section of this documentation.

Access

The Access tab summarizes the user's Team and Role settings so that it can easily be viewed in one place. The Access table, Roles subpanel, and My Teams subpanel will appear under the tab.

Access Table : The Access table summarizes the set of permissions assigned to the user and allows you to view the type of access they have along with the actions (e.g. View, Edit, Delete, etc.) they can perform in Sugar. This table is very similar to what appears in Admin > Role Management, but this table is not editable in the Users module.
 Note: Users with more than one role assigned will have the more restrictive role setting prevail on the access table. For example, if one role allows the user to delete records in the Contacts module, but the other role does not allow record deletion, the user will not be able to delete records in the Contacts module.

The table will list the modules in rows on the far left with column headers representing the type of action (e.g. Delete, Edit, Export, etc.) users can perform in each module. For more information on role settings, please refer to the <u>Roles</u> documentation.

Access Access Type Delete Edit Export Import List Mass Update	view
Average Average Delate Edite Everyte Langet Links Hard Hard Hard Hard Hard Hard Hard Hard	View

- **Roles Subpanel** : The Roles subpanel will list all of the roles assigned to the user along with the description of each role. Roles work in conjunction with teams to form a robust security model for non-admin users in Sugar. Roles control three different layers of access for users within Sugar: module, field, and action-level access. System administrators can easily assign roles to the user as well as remove roles via the Roles subpanel.
- **Teams Subpanel** : The Teams subpanel will list all of the teams assigned to the user along with the description of each team. The defined permissions determine what records a user is and is not able to access.

Teams are used in conjunction with roles to form a robust security model for non-admin users in Sugar. System administrators can easily assign teams to the user as well as remove teams via the My Teams subpanel. For more information on team settings, please refer to the <u>Teams</u> documentation.

Subpanels

Subpanels can be added to the Users module by creating relationships via Admin > Studio. All available subpanels will appear at the bottom of the user's detail view. For more information on adding relationships, please refer to the <u>"href="/SmartLinks/Administration_Guide/Developer_Tools/Studio/hdr_Creating_Relationships/"</u> target="">Relationships section of the Studio documentation.

The User Holidays subpanel is the only subpanel available for the Users module out of the box. This subpanel allows administrators to select specific days that the user will not be working. This is used when calculating project timelines in the Projects module. Holidays can be added using the Create button and inputting a date and description of the holiday.

Create	
Holiday Date: 🔶	Description:
01/01/2014	New Years Day

Editing Users

The user's profile can be easily edited by the user or the administrator by clicking the Edit button on the user's detail view. In addition, changes to the user's profile can be made via the Users list view as well by clicking the Pencil icon to the left of the user's name. Editing the user's profile from the detail view and list view, opens the full edit view layout which includes all of the relevant fields that can be updated as necessary.

Save Cancel	Reset User Preferences	
User Profile Pa	ssword Advanced External Advanced	ccounts
User Name: *	will	First Name: Will
Status: *	Active \$	Last Name: * Westin
User Type:	Regular User \$	based on team security and ro
Avatar:		
A Employee In	for more office on	
	formation	
Employee State	Active	Display Employee Record:
Title:	Sales Manager East	Work Phone:

Editing Via Detail View

Will Westin » Edit

You can edit users by clicking the Edit button on the upper left of the user's detail view. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve the changes made. For more information on the detail view, please refer to the <u>Users Detail View</u> section of this documentation.

Ed	lit 💌	
U	ser Profile Advar	Access
	Full Name:	Jim Brennan
	Status:	Active

External Accounts

When viewing the edit view of a user, the External Accounts tab appears to the right of the Advanced tab. The External Accounts functionality allows you to connect external applications to Sugar, such as GoToMeeting, Google Drive (Google Docs), and WebEx. To create an external account record, follow the following steps:

- 1. Navigate to the <u>detail view</u> of the user to whom you would like to add the account.
- 2. Click on the External Accounts tab then click "Create". Jim Brennan » Edit

Save Cancel Reset User Preferen	ices	* Indicates required f
User Profile Password Advanced	External Accounts	
Create		(IC (0 - 0 of 0))))
Application 😄	App User Name 🔶	Date Modified \Leftrightarrow
No data		

- 3. Select the application you will be connecting to from the Application dropdown field. The fields available to complete will vary depending on the application (GoToMeeting, Google, WebEx) selected. Please note that additional external applications will appear on the list if they are enabled via Admin > Connectors.
- 4. Enter the necessary information for the external application and click "Connect".

Connect	Cancel		
Application:	GoToMeeting	Status:	Click Connect to connect this account to Sugar.
App User Name: *	jbrennan@example.com	App Password: *	••••

Should you wish to prevent users from creating external accounts, you can remove the Create button for users in the External Accounts tab of their profiles by disabling the External Accounts module via a <u>role</u> assigned to those users. Please note the "Access Type" setting will not affect this module. Furthermore, editing or deleting the external account can be done by clicking the account's name on the External Account list view. This brings you back to the edit view with the necessary options and available fields.

The out of the box connectors perform the following functions:

- **GoToMeeting** : The GoToMeeting connector allows you to create meetings in Sugar that are tied to your GoToMeeting account and will show as such on your GoToMeeting account. This allows the user to, after creating the Sugar meeting record, start the GoToMeeting directly from within Sugar's <u>Meetings</u> module.
- **Google** : The Google connector allows you to create <u>documents</u> within Sugar that, instead of uploading a file to the server hosting Sugar, allows the user to link to an existing Google document from Google Drive or to upload a file to that account. When clicking on a document name in the Documents module or any Documents subpanels, the user will be brought

to Google Drive instead of the download being initiated.

• **WebEx** : The WebEx connector allows you to create meetings in Sugar that are tied to your WebEx account and will show as such on your WebEx account. This allows the user to, after creating the Sugar meeting record, start the WebEx meeting directly from within Sugar's <u>Meetings</u> module.

Editing Via List View

You can edit users via the list view by clicking the Pencil icon to the left of each user's name. The full edit view layout will open allowing you to make any changes to the user's profile as necessary. Once the user's profile has been updated, click "Save" to preserve the changes. For more information on the list view, please refer to the <u>Users List View</u> section of this documentation.



Deactivating Users

When a user is no longer a member of your organization, it is best practice to deactivate them instead of deleting them. This ensures that the user will no longer be able to log in to Sugar, but any historical information tied to the user will still be available. Please note that deactivating user records will not update any related records and will only prevent the user from being selected (e.g. Assigned to). However, the <u>Reassign Records</u> tool will be presented and can be used to reassign all of the user's records.

Note: Users that have been deactivated do not count towards your licensed user count.

Use the following steps to deactivate a user and reassign their records:

- 1. Navigate to Admin > User Management and click the user you wish to deactivate.
- 2. Edit the user record and change the Status field to "Inactive". Click "Save".
- 3. A pop-up message will display asking if you would like to reassign all of the user's records. Click "Yes" if you wish to proceed.
- 4. You will then be presented with the Reassign Records tool. Follow the steps on this page to complete the deactivation. For more information, please review the <u>Reassigning Records</u> section.

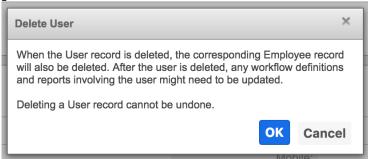
5. Once the reassignment is complete, the user will be deactivated and no longer able to log in to Sugar.

Deleting Users

If a user record is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from the Users detail view. Please note that deleting user records will not delete any related records and will only prevent the user from being selected (e.g. Assigned to). When a user is no longer a member of your organization, it is best to <u>deactivate</u> them by changing the Status field to "Inactive" instead of deleting them. This way, any historical information tied to the user will still be available, but the user will no longer be able to log in to Sugar.

Use the following steps to delete a user and reassign their records:

- 1. Navigate to Admin > User Management and click the user you wish to delete.
- 2. Select "Delete" from the <u>Actions Menu</u>.
- 3. A pop-up message will display asking for confirmation. Click "OK" to proceed.

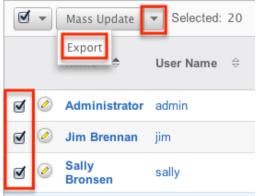


- 4. You will then be presented with the Reassign Records tool. Follow the steps on this page to complete the deletion. For more information, please review the <u>Reassigning Records</u> section.
- 5. Once your reassignment is complete, the user will be deleted and you can freely navigate around Sugar.

Exporting Users

Sugar's Export option allows users to download all fields for the selected users to their computers as a .CSV (comma-separated values) file. This may be useful when needing to use User data with other software such as Microsoft Excel or to update existing records by exporting, making changes, and then importing the altered users back into Sugar. For more information on updating existing records via import, please refer to the <u>Import</u> documentation.

Users may be exported from the Users list view by selecting "Export" from the Actions menu. User data can also be exported via the Reports module by creating or accessing reports containing specifically chosen fields for users and their related record(s). Please note that only Rows and Columns-type reports have the ability to be exported. For more information on exporting records in Sugar, please refer to the Export documentation.



Due to PHP memory limitations on the server, there may be occasions when the application times out while exporting a large number of user records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Mass Updating Users

Mass Updating allows users to make the same change to multiple user records at once from the Users list view. Users with administrator or developer level access can control which fields are available to change during mass update via Admin > Studio. Currently, only fields with the data type of date, datetime, dropdown, multiselect, and radio may be altered during a mass update. Due to PHP memory limitations on the server, there may be occasions when the application times out while updating a large number of user records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches. For more information on configuring mass update, please refer to the <u>Studio</u> documentation in the Administration guide.

Use the following steps to mass update user records from the list view:

- 1. Navigate to the Users list view via Admin > User Management.
- 2. Use the list view's <u>Basic</u> or <u>Advanced Search</u> to identify users you wish to modify.
- 3. Select the desired users individually or using the <u>checkbox dropdown's</u> options.
- 4. Choose "Mass Update" from the Actions menu.

• ک	Mass Update	Selected: 20
	Name 🗢	User Name 🕀
e	Administrator	admin
I	Jim Brennan	jim
e	Sally Bronsen	sally

- 5. Scroll to the Mass Update panel and set values for the fields you wish to alter.
- Click "Update" to save the changes to all of the currently selected user records.
 Mass Update

Is Administrator	-none- 🛊	Status	-none- 🛊
User Type	-none-	Display Employee Record	-none- 😫
Employee Status	-none-	ІМ Туре	-none- 🖨
Reports to	Select	Email Client	-none- 🛟
Preferred Language:	-none-		
Update Cancel]		

Resetting User Preferences

As users make changes while navigating around Sugar, their preferences are stored in the Sugar database. This includes preferences such as sort orders on list view, previous searches on both basic and advanced searches, and settings in the Advanced tab of the user profile. Users can reset their preferences back to the default out-of-the-box settings, which will revert the user's changes made in Sugar. Please note that this action cannot be undone. If the user is currently logged in, the changes will not take effect until the user is logged out and then back in.

Note: Resetting a user's preferences is the only way to allow a user access to Sugar if they have been locked out using the <u>Login Lockout</u> feature in Password Management.

Use the following steps to reset a user's preferences:

1. Navigate to the user's detail view via Admin > User Management and select the user (e.g. Jim Brennan) from the list view.

2. Select "Reset User Preferences" from the <u>Actions menu</u>. Jim Brennan

Edit 💌	
Copy ed A	C
Reset Password	
Reset User Preferences	
Full Name: Jim Brennan	
Status: Active	

3. A pop-up box will appear confirming the reset. Click "OK" to proceed.

Resetting User Passwords

Administrators have the option to manually set or reset users' passwords as necessary. First, determine the state of the system-generated password feature in Admin > <u>Password Management</u>, and then choose one of the following methods:

System-generated password feature enabled	System-generated password feature disabled	SugarIdentity enabled
 Navigate to the user's detail view via Admin > User Management. Select "Reset Password" from the <u>Actions menu</u>. Jim Brennan 	 Navigate to the user's detail view via Admin > User Management. Click the Edit button on the upper left of the detail view. Max Jensen 	Users click the "Forgot Password?" link on the Sugar login screen to reset their own passwords.
Edit Copy Delete Reset Password Reset User Preferences Full Name: Jim Brennan Status: Active 3. Click "OK" in the confirmation pop-up.	Edit User Profile Advanced Access × User Profile Edit Full Name: Max Jensen 3. On the Password tab, enter the new password tab, enter the new password. ver Profile Reset User Preference: × Max Lontain one upper case letter (A-2) Password × Max Lontain one upper case letter (A-2)	

4. Click "Save" to conf your change.	firm
---	------

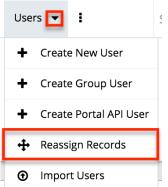
Note: The user needs to log out and then back in for the change to take effect.

Reassigning Records

Reassign Records is a tool available in the Users module for administrators to change the Assigned To and Team fields for a specific user's records. This is best used when a user is changing departments, teams, or roles within the organization, or if the user is no longer an employee or using Sugar. The Reassign Records tool is automatically presented when <u>deleting</u> or <u>deactivating</u> a user. Please note that reassigning records cannot be undone in Sugar.

Use the following steps to reassign records:

- 1. Navigate to the Users module via Admin > User Management.
- 2. Click the triangle in the Users module tab to open the Actions menu and select "Reassign Records".



The Reassigning Records tool can also be accessed during the process of <u>deleting</u> or <u>deactivating</u> a user, where it is used to reassign a user's records before deleting or deactivating them.

- 3. Select the user to whom the records are already assigned in the From User field.
- 4. Select the user to whom the records will be assigned to in the To User field.

Note: You can select the same user in both fields if you are just changing the team for all of the user's records.

- 5. Select which team(s) the records will be assigned to in the Set Teams to field.
- 6. Select the module(s) you wish to include in the record reassignment. Multiple modules can be selected by holding down the Control key when using a PC or the Command key when using a Mac.

Next > Clear Cancel
From User: Chris Olliver
To User: Max Jensen 💠
Set Teams to:
Primary
Global 📃 💿
Modules to Include in Reassignment:
Accounts
Bugs
Calls
Campaigns
Cases
Contacts
Contacts

7. Selecting certain modules will display specific filters (e.g. Type) which can be applied to the module. Use these filters if you do not want to include all records assigned to the user. The list of modules and their filter fields are as follows:

Module	Filter Field
Accounts	Туре
Bugs	Status
Calls	Status
Cases	Priority Status
Dashboards	Default Dashboard
Opportunities	Sales Stage Type
Tasks	Status

- 8. After selecting any filters, click "Next" to access the reassignment summary.
- 9. If you would like to see a detailed list of the changes that were made, click

"Verbose Output". This list will include a link to the changed records and a summary of changes that were made.

 If you would like the changes to show in the Change Log for the changed record, have any relevant <u>workflows</u> fire, or have assignment notifications sent out, please click the Include Workflow/Notifications/Audit checkbox. Note: This process performs a large set of actions at once and may take a

long amount of time to complete.
Assessing Accounts
8 records from Accounts will be updated.
☑ Include Workflow/Notifications/Audit (significantly slower)

Assessing Calls

6 records from Calls will be updated.

Include Workflow/Notifications/Audit (significantly slower)

Assessing Contacts

23 records from Contacts will be updated.

- 11. Click "Next" to complete the reassignment.
- 12. The final summary page will show how many records were affected and if any errors occurred during the reassignment. Click "Return" to return to the main screen of the Reassigning Records tool.

Processing Contacts

Update complete: 23 affected

Return

Due to PHP memory limitations on the server, there may be occasions when the application times out while reassigning a large number of user records. If you encounter an error when performing this action, we recommend reassigning records in smaller batches via each module's mass update option.

Last Modified: 2020-05-15 17:59:30

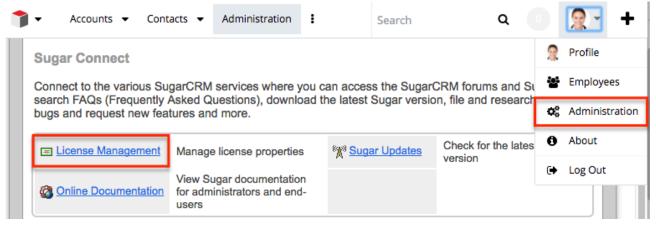
Sugar Connect

Overview

The Sugar Connect section of the Administration page allows you to connect to various SugarCRM online resources such as License Management, SugarCRM Support, Sugar Updates, and Online Documentation. Other than License Management and Sugar Updates, which are only accessible to users with administrator access, Sugar's Support page and online documentation can be accessed by all user's via their Sugar account or directly from the SugarCRM website. This page will cover how to manage your Sugar license, check for Sugar updates, as well as access Sugar's support and online documentation.

License Management

The License Management page allows administrators to manage their Sugar license properties. You can use this option to manage the Sugar license for your organization and view information such as the download key, expiration date, number of users, etc. System administrators can also edit and re-validate the license via the License Management page. Please note that your commercial edition of Sugar is purchased with a set number of licenses that allow users to access the application. All active system administrators and regular, non-admin users count towards the number of purchased Sugar licenses. For more information on the various user types (e.g. regular user, system administrator, group user, etc.) available in Sugar, please refer to the <u>User Management</u> documentation.



Download Key

The download key is a 32 digit alphanumeric key that is unique to your Sugar account. The number of user licenses your organization purchased, as well as the subscription expiration date is tied to your download key. Upon purchasing Sugar, you will receive a Welcome email containing your download key information which will need to be entered during the installation of the Sugar application. Once the

download key is entered into the system, the corresponding information such as the expiration date, number of users, number of offline client licenses, and number of concurrent self-service portal users will automatically populate and be displayed in Admin > License Management.

Editing the License Key

Although rare, there may be times when system administrators will need to edit their license key via Admin > License Management. For example, if you change your Sugar edition (e.g. Corporate to Professional), a new license key may be generated and provided by SugarCRM. You will need to update the License Management page with the new license key to associate your account with the new Sugar edition.

The fields in the License Management panel are as follows:

- **Download Key** : The download key associated with your Sugar subscription.
- **Expiration Date** : The date your Sugar license expires.
- **Number of Users** : The number of users allowed to access Sugar based on the number of purchased licenses.
- **Number of Offline Client Licenses** : The number of offline clients associated with your license key.
- Number of Concurrent Self-Service Portal Users : The number of selfservice portal users associated with your license key.

The following steps cover editing the license key for your account when changing Sugar editions as an example:

- 1. Navigate to Admin > License Management.
- 2. Click the Edit button and enter the download key associated with your new Sugar edition.

License Management

Edit	
License Management	
Download Key	
Expiration Date (yyyy-mm-dd)	
Number of Users	

- 3. Once the download key is entered, click "Save".
 - The expiration date, number of users, etc. will automatically be updated based on the new download key.

License Management

Save Cancel	
License Management	
Download Key	Download Key
Expiration Date	2017-03-01
Number of Users	150
Number of Offline Client Licenses	0
Number of Concurrent Self-Service Portal Users	0

Please note that when you save the new license key information, the system automatically checks it against the information in the SugarCRM database to make sure it is valid.

License Validation

The License Validation panel of the License Management page allows administrators to re-validate their license as necessary. Sugar automatically revalidates your license once every 90 days as long as a system administrator logs into Sugar within the 90 day period. However, if your system fails to communicate with the License Validation server through the internet or you are behind a firewall, you will have to re-validate the license via Admin > License Management. If the re-validation is successful, the Status field in the License Validation panel will display the timestamp of the successful validation. The validation key expiration date will be 90 days from the date of the last successful validation date.

License Expiration

Typically, Sugar licenses are purchased for a one year period (e.g. 01/03/2013 to 01/03/2014). Please note that you will be notified of your upcoming subscription renewal via email or call and a notification will appear in the Sugar cube on the upper left of your Sugar account regarding your license expiration. If the subscription is renewed past the expiration date, then administrators must revalidate their license via Admin > License Management in order to update the account with the new subscription. If the administrator does not re-validate the license, regular users will be prohibited from logging into Sugar until the license is successfully validated by the administrator.

Re-validating the License

Although Sugar automatically re-validates your license once every 90 days, there may be special circumstances where administrators must re-validate the license

via License Management. For example, if you renew your subscription after the expiration date or if you purchase additional users mid-term, you will have to revalidate the license via Admin > License Management in order to update your Sugar account with the new subscription.

The fields in the License Validation panel are as follows:

- Validation Key : System generated validation key associated to your Sugar subscription.
- **Validation Key Expiration** : The date the validation key expires. The expiration date is typically 90 days from the last successful validation date.
- **Status** : The status displaying the timestamp of the last failed or successful validation.

Use the following steps to re-validate the license in Sugar:

- 1. Navigate to Admin > License Management.
- 2. Click the Re-validate button.

Re-validate	
License Validation	
Validation Key	Contraction of the second s
Validation Key Expiration (yyyy-mm-dd)	2017-03-01
Status	Last successful validation : 2016-12-08 15:54 Last failed validation : 2016-12-06 15:50

The system will communicate with the License Validation server to validate your license based on your Sugar subscription. If the re-validation is successful, then the status will reflect the date and time of the successful validation. If the system fails to connect successfully with the License Validation server and you cannot re-validate your license, use the <u>Manual Validation</u> option at the bottom of the License Validation panel.

Manual Validation

If your system fails to communicate successfully with the License Validation server through the internet, you have the option to perform a manual validation via Admin > License Management.

Use the following steps to perform a manual validation in Sugar:

- 1. Navigate to Admin > License Management.
- 2. Click the Manual Validation link located at the bottom of the License Validation panel.

License Validation	
Validation Key	Contraction of the second second second
Validation Key Expiration (yyyy-mm-dd)	2017-03-01
Status	Last successful validation : 2016-12-08 15:54 Last failed validation : 2016-12-06 15:50
If you experience persistent problems with	automatic validation, please check your Proxy configuration in the System Settings

- admin panel. If your system environment prohibits your system from communicating to the license validation server through the internet, you should proceed with the Manual Validation steps.
- 3. Click the Export Download Key button to export the sugarkey.lic file. Select "Save to Disk" in the pop-up window to save the file to your local machine then click "OK".



- 4. Go to <u>http://updates.sugarcrm.com/license</u> and submit the sugarkey.lic file for validation.
 - If the validation is successful, the validation key file (sugarvalidationkey.lic) will be generated, and the system will prompt you to save the file.



- 5. Log back into your instance and navigate to the Manual Validation page (Admin > License Management > Manual Validation).
- 6. On Step 3, choose the sugarvalidationkey.lic file on your local machine and click "Import".

Step 3: Transfer the validation key file (sugarvalidationkey.lic) back to the SugarCRM syster validation key using this form below:	em. Import the
Validation Key File(sugarvalidationkey.lic) Choose File No file chosen	Import

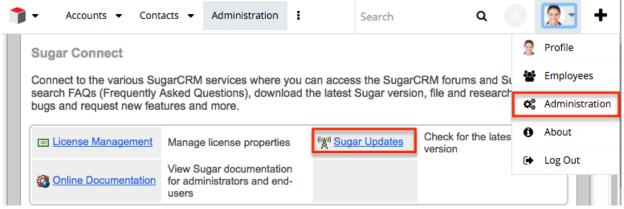
Once the validation key is imported successfully, you have completed the manual validation process. Sugar will update the validation status along with the Validation Key Expiration date for the license key.

Sugar Updates

The Sugar Updates page allows administrators to check for the latest available Sugar versions. By default, Sugar automatically checks for updates on a periodic basis to see if any version updates are available for your instance. If a new version update is available, the Sugar Updates link in the Administration page will appear red and display the latest Sugar version next to it. Administrators can uncheck the automatic updates option in the Sugar Updates page if they do not wish to have the system automatically check for updated version releases.

Use the following steps to perform a manual check for Sugar updates:

1. Navigate to Admin > Sugar Updates.



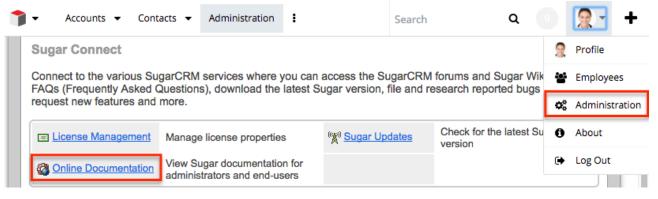
2. Click the Check Now button to see if a new update of Sugar is available. Sugar Updates

Save Cancel	 Indicates required field
Sugar Updates	
The Sugar Updates mechanism allows your server to check to see if an upda Automatically Check For Updates - If checked, the system will periodical application are available. If this box is unchecked, an admin will be required to expires, otherwise users will be unable to login.	ly check to see if updated versions of the
Check Now	
You have the latest version available	

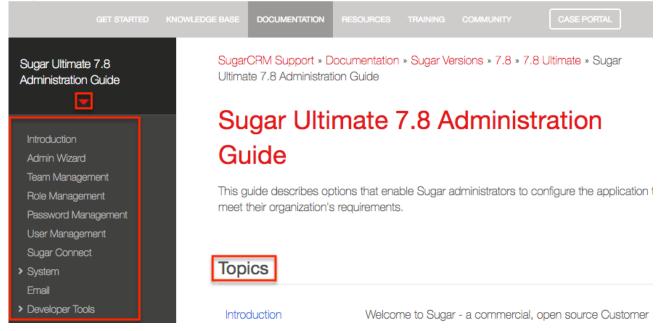
If there is an available version update, a message will appear below the Check Now button with the latest version along with a message to visit support.sugarcrm.com to retrieve and download the latest version. Please note that clients hosted on Sugar's cloud service are normally upgraded by the SugarCRM team on a predetermined schedule as releases are made available. On-Site clients will need to perform the upgrade themselves as Sugar is hosted on their servers. If the system detects that you have the latest version of Sugar, then the message will inform you that you have the latest version available.

Online Documentation

Administrators can easily access the documentation for their current Sugar version and edition via Admin > Online Documentation.

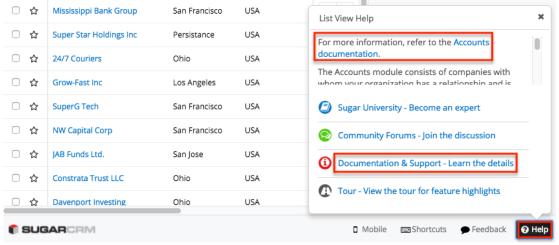


A new window will open directing you to the appropriate Administration Guide, which provides information about configuring and administering your Sugar instance. You can view specific sections of the Administration guide by selecting the various topic links (e.g. Users, System, Email) on the main page or from the Administration Guide tree menu to the left. You can also access the relevant Application Guide which provides information about the functionality available to end users. Simply click the down arrow at the top of the menu to the left of the Administration Guide and select the Application Guide link (e.g. Sugar Ultimate 7.8 Application Guide). To learn more about a specific module in Sugar, select the appropriate topic link (e.g. Accounts, Contacts) on the main Application Guide page or from the menu on the left.



Please note that all users can view the online documentation as well by clicking the Help link in Sugar's footer from the home page or a Sidecar module's list view/record view. This will open the help pane which includes a link to the

module's corresponding documentation. In addition, they can click the Documentation & Support link to open the SugarCRM Support page where they can access the available documentation, knowledge base articles, case portal, etc.



The Application and Administration Guides provide end-users and administrators with an in-depth look at configuring, customizing, and utilizing Sugar, as well as the various options available in the application. The Installation and Upgrade Guide provide users with the necessary instructions to properly install or upgrade their On-Site Sugar instance. The Supported Platforms page covers the supported components that are necessary to run the Sugar application. The Developer Guides provide developers with advanced information on configuring and customizing Sugar to best meet their organization's needs. The release notes cover feature enhancements, fixed issues, etc. that are included in the specific version release. Additional guides include instructions for using mobile applications, plug-ins for Microsoft Office, etc.

Last Modified: 2020-09-01 16:51:23

System

Overview

Sugar comes with the ability to configure many different system settings to personalize the way Sugar works. The System section is only available to administrative users and can be accessed via the Admin screen. The following sections are available options from the System section.

System contains the following menus:

System Settings	Configure system-wide settings
Locale	Set default localization settings for your system
<u>Currencies</u>	Set up currencies and conversion rates
<u>Languages</u>	Manage which languages are available for users
<u>Search</u>	Select modules for the Global Search and configure full-text searching
Connectors	Manage connector settings
<u>OAuth Keys</u>	OAuth key management
Import Wizard	Import records easily into the system
<u>Backups</u>	Back up web files for your Sugar instance
Repair	Check and repair Sugar
<u>Diagnostic Tool</u>	Capture system configuration for diagnostics and analysis
<u>Tracker</u>	Enable/Disable tracking
Scheduler	Set up scheduled events
PDF Manager	Manage templates for generated PDF files
<u>Mobile</u>	Select modules to appear in the Mobile applications
<u>Web Logic Hooks</u>	Configure actions to call out to code hosted outside of your Sugar instance to process specified actions.

System Settings

System Settings allows administrators to configure system-wide settings to your organization's specifications. The system settings are split across a few different panes of related information. Change the values in any of the panels and click "Save" to preserve your changes.

System Settings

Save	Restore	Cancel
User Interfa	ice	
Listview iter	ms per page:	20
Prevent use	er customizable	Homepage layout:

Alternatively you can click "Restore" to restore the system settings back to default.

User Interface

The User Interface pane consists of a group of settings that affect the interface of Sugar. Use the following settings to configure the different aspects of the interface:

- Listview items per page : The maximum number of records to display per list view results set, as well as the search results set on the View All Results page for Global Search. By default, this is set to 20 records per results set. The system paginates lists that contain more than the specified number of list view items per page.
 - **Note**: The recommended setting is below 50 for acceptable performance levels. As additional fields are added to the list view, this number should be at the lower end of the recommended setting.
- **Subpanel items per page** : The maximum number of records to display on a page in subpanels. The system paginates lists that contain more than the specified number of records. Defaults to 5.
 - **Note**: Recommended setting is no more than 25 with lower values recommended when subpanels include many fields.
- **System Name** : The name of this instance of Sugar. Displays in the browser's title bar.

Thome » My Company CRM ×

- **Show Full Names** : Select this option to set the default value for new users to display the full name of users instead of login names throughout Sugar.
- **Current Logo** : The current logo being used in the bottom left hand corner of the footer bar.
- **Select Logo** : Click "Choose File" to navigate to and select a new logo for your system. The dimension should be 212 X 40 pixels, with the standard transparent background color, in PNG or JPG format.
- **Display Downloads Tab** : Select this option to display the Download tab in the User settings and provide users with access to Sugar plug-ins and other

available files

Save	Canc	el Re	set User Prefere	ences	Rese	t Homepage		
User Pr	ofile	Passwo	rd Themes	Adva	nced	External Acc	counts	Downloads

- **Lead Conversion Options** : Select an option from the dropdown menu to determine the handling of related activity records (e.g. calls, tasks, etc.) during lead conversion. For more information, please refer to the <u>Leads</u> documentation in the Application Guide.
 - **Move** : This option moves all of the lead's activities to the contact record created during conversion.
 - **Do Nothing** : This option does not alter the lead's activities during conversion. The activities remain related only to the lead. This is the default setting.
- **Display actions within menus** : Select to display detail view and subpanel actions within a dropdown menu. If disabled, the actions will display as separate buttons.
 - **Note**: Only applies to Legacy modules.
- Collapse all subpanels and disable sticky feature : Select this option to collapse all subpanels in the record view by default and disable automatically expanding previously-expanded subpanels in order to improve performance. Once enabled, users wishing to view subpanel data will need to expand the subpanel each time they return to a module.
 Note: Only applies to Sidecar modules.
- **Prevent user customizable subpanel layout** : Select this option to prevent users from dragging and dropping subpanels to a different location in the detail view layout.
 - **Note**: Only applies to Legacy modules.

Proxy Settings

Proxy servers redirect Internet traffic coming from and to the server running Sugar. If you are using a proxy server, you will need to enter proxy information into the system settings to allow the Sugar instance to communicate with the internet. This is necessary to allow the system licensing to validate and update. For more information on system licenses, please refer to the <u>License Management</u> section of the Sugar Connect documentation in the administration guide.

Note: Proxy settings should not be used for instances hosted on Sugar's cloud service.

Use the following settings to configure proxy settings:

• Use Proxy Server? : Select this option to use a proxy server and to reveal the following fields.

- **Proxy Host** : The host name or ip address of the proxy server to use.
- **Port** : The communication port of the proxy server.
- Authentication? : Select this option if the proxy server requires authentication and to reveal the following fields.
- User Name : The user name to authenticate to the proxy server.
- **Password** : The password to authenticate to the proxy server.

Proxy Settings			
Use proxy server? (j)	Ø		
Proxy Host*	myproxy.mysite.com	Port*	8080
Authentication?	ď		
User Name*	myusername	Password*	•••••

Customer Self-Service Portal

The Customer Self-Service Portal comes with Enterprise and Ultimate versions of Sugar and provides an external-facing website for your customers to view Cases, Bugs, Knowledge Base articles and other data in Sugar. Select the checkbox next to "Enable Portal User Management" to enable the portal.

Customer Self-Service Portal	
Enable Portal User Management (j)	

This setting can also be enabled or disabled via Admin > Sugar Portal. For more information on the Customer Self-Service Portal, please refer to the <u>Portal User</u> <u>Guide</u>.

SkypeOut

SkypeOut takes any stock or custom field that has a type of Phone and makes it a link that launches Skype to call the phone number. The phone number must be formatted properly to use this feature. It must be "+" "The Country Code" "The Number" (e.g., +1 (555) 555-1234). Select "Enable SkypeOut integration" to enable this feature.

SkypeOut®	
Enable SkypeOut® integration (i)	ø

Preview Pane Settings

The preview edit feature allows users to edit records directly from the intelligence pane on list views. Select the checkbox labeled "Enable edit in Preview pane" to enable this feature. For more information on using the feature, please refer to the <u>User Interface</u> page in the Application Guide.

Preview Pane Settings	
Enable edit in Preview pane (1)	

Activity Streams

Sugar's <u>activity streams</u> are enabled by default, but administrators can globally disable the functionality based on their organization's needs. To disable the activity stream in Sugar, simply disable the Enable Activity Streams checkbox. When the feature is disabled, no record posts will be generated in the system when performing actions such as creating records, updating records, linking records, unlinking records, etc. In addition, users will not be able to access activity streams from anywhere within Sugar including via the home page, My Activity Stream dashlet, module's list view, etc. Sugar will display a message in each of these locations indicating that the activity stream is not enabled. For the intelligence pane, the record's related activity stream posts will not appear.

Activity Streams		
Enable Activity Streams	(i)	

Advanced

The Advanced panel consists of the following group of settings for advanced configuration of Sugar:

- Validate user IP address : Select this option to validate user's IP address while accessing Sugar. If the IP address of a user changes in mid-session, Sugar will log them out and force them to log back in for security reasons. Note: Some high availability systems, VPNs, and switching Wi-Fi and wired connections may change IP addresses and thus cause your users to be logged out when they have not changed their configuration.
- Log slow queries : Select this option to log queries that take longer than the slow query time threshold. This is useful for performance debugging. Note: There is an inherent overhead to logging slow queries. If the threshold is set too low, it may cause performance issues.
- Maximum upload size : Specifies the maximum file size in bytes that is

allowed to be uploaded to Sugar. This setting affects images, import files, and module uploads.

- Note: The file upload size is also dependent on the php.ini upload_max_filesize and post_max_size directives. This admin setting will not affect the maximum cumulative file size for email attachments, which is set to 10MB per message via the max aggregate email attachments bytes configuration attribute.
- Portal Session Timeout : The maximum time in seconds of inactivity for a Sugar Portal session. The session will timeout and the customer will be logged out when the time limit is reached with no activity.
 Note: This value is only used for legacy versions of Sugar Portal available in 6.5 and older.
- vCal Updates Time Period : Determines the number of months the Free/Busy data is published to vCal. Specify the number of months in advance of the current date that Free/Busy information for calls and meetings to be published. To turn Free/Busy publishing off, enter "0". The maximum is 12 months.
- **Log memory usage** : Select this option to log memory usage per action performed in Sugar. The data will be stored in the ./memory_usage.log file.
- Slow query time threshold (msec) : Specify a threshold in milliseconds to begin logging slow queries at. If "Log slow queries" is selected, queries that take longer than the threshold to process will be logged. If you have enabled the Tracker Queries option on the <u>Tracker</u> page, you can run the pre-defined Slow Queries report to view slow queries.
- **Display stack trace of errors** : Select this option to display where errors occur in the application's stack trace. This option is for debugging purposes and should not be left on in a production instance.
- **Developer Mode** : Select this option to disable caching to immediately view changes made to language, vardefs, and template files. This option is for debugging purposes and should not be left on in a production instance.
- **Import Maximum Number of Rows** : Specify how many rows are allowed within import files. If the number of rows in an import file exceeds this number, the user will be alerted. If no number or zero is entered, an unlimited number of rows are allowed.
 - **Note**: Header rows count towards the total number of rows in the import file.
- **Prevent private team names from inheriting the user's name fields** : Select this option if private team names may be different from the user's first and last name. By default, Sugar will update a private team name to [Firstname Lastname] any time the corresponding user's profile is edited and re-saved, even if the change was not made to the user's first or last name. Enable this option to ensure that edited private team names do not revert to the system default.

Logger Settings

Sugar comes with a built-in logging system to log information or errors that occur in the application. By default, the logs are written to sugarcrm.log in the Sugar root directory. If a problem arises, you can refer to the log file for information that may help in troubleshooting the issue. The Logger Settings panel consists of a group of settings that affect the Sugar logs.

Note: The Logger Settings panel is hidden for instances on Sugar's cloud service. Should you require a log level to be temporarily changed on a SugarCloud production environment, you must open a <u>support case</u>. For more information about default configuration settings for Sugar's cloud environments, please refer to the <u>SugarCloud Policy Guide</u>.

Use the following settings to configure the different aspects of Sugar logging:

- Log File Name : Specify a name for the log file. Defaults to sugarcrm.
- **Maximum log size** : Specify the maximum size of the log file in megabytes (MB). The default is 10MB. Once a log file reaches the specified size it is renamed to have an incrementing number and a new file will be created to contain new logs.
- Log Level : Select the event level that you want to capture in the log file. The levels are listed below in order of the most log records to the least. The default level is fatal. When specifying a logging level, the system will create log files for the specified level as well as higher levels. For example, if you select "error", the system creates log files for "error", "fatal", and "security". Please note that there is an inherent overhead to logging. If the log level is set too high, it may cause performance issues. The "info" and "debug" settings are not recommended for continuous use in a production environment.
 - $\circ~\textbf{debug}$: Logs events that help debug the application
 - **info** : Logs informational messages
 - warn : Logs potentially harmful events
 - **error** : Logs error events in the application
 - fatal : Logs severe error events that cause the application to abort
 - **security** : Logs events that may compromise the security of the application
 - $\circ~ off$: The logger will not log any events
- Extension : Specify the file extension for the log file. Defaults to .log.
- **Default date format** : The date format for the log file. This format must be supported by <u>strftime</u>. Defaults to %c.
- Maximum number of logs (before rolling) : The maximum number of log files to save. When the number of log files exceed this limit, Sugar deletes the log file that was created first. Defaults to 10.
- **Append after filename** : Select a time period from the dropdown list to append to the file name (None, Month_Year, Day_Month, Month_Day_Year).

This makes it easier to identify the log that you want to view.

View Log

The Sugar log is stored in the root directory of Sugar and is accessible from the operating system. Administrators who do not have access to the operating system running Sugar do have the ability to view the log through Sugar. Navigate to Admin > System Settings and find the "View Log" link at the bottom of the screen:

Logger Settings	
Log File Name *	./sugarcrm
Maximum log size *	10MB
Log Level	Warn 🜲
View Log	
Save Cancel	

This opens the log viewer for the current log file. You have the following options for navigating the log file:

- All : Select this option to view the entire log.
- **Mark Point** : Select this option to mark a starting point in the current log file.
- **Refresh From Mark** : Select this option to view any entries made in the log after the most recent mark.
- Next : Select this option to view new entries in the current log file.

All	Mark Point	Refresh From Mark	Next>>
Search:		Reg Exp:	
Ignore S	elf:		

A common method for utilizing these options to debug a problem would be to click "Mark Point", perform the action causing problems, and then select "Refresh From Mark" to see any log entries caused by the action being debugged.

You also have the ability to search within the log file for keywords. To perform a search, simply enter a keyword into the search box and press Enter on your keyboard to execute the search.

Locale

Locale allows administrators to configure localization settings to your organization's specifications. Some of the settings specified here can be overridden by user-level personalizations such as date and time formats on the User Preferences page. The locale settings are split across a few different panels of related information. Change the values in any of the panels and click "Save" to preserve your changes.

Locale



User Interface

The User Interface panel consists of a group of locale settings that affect the interface of Sugar. Use the following settings to configure the different aspects of the interface:

- **Date Format** : Select a format from the dropdown for displaying the date throughout the application.
- **Language** : Select a default language from the dropdown for use throughout the application. Users can select a different language from the login page. For more information regarding enabling or disabling languages, please refer to the <u>Languages</u> section.
- **Name Format** : Select a format from the dropdown for displaying people names throughout the application. You can specify any combination of salutation, first name, and last name.
- **Time Format** : Select a format from the dropdown for displaying the time throughout the application.

Users have the ability to override the default date, time, and name formats through their user profiles. For more information on how to set locale settings per user, please refer to the <u>Locale Settings</u> section of the Getting Started documentation in the Application guide.

System Currency

The System Currency panel consists of a group of currency settings that affect the

interface of Sugar. The system currency is displayed in addition to a record's original currency in most places across Sugar. The value is displayed in the system currency with a grey box containing the value in the record's currency next to it. However, the system currency can be overridden by the user's preferred currency if "Show Preferred Currency" is enabled in their Locale Settings and the user's preferred currency is different from the system currency. Use the following settings to configure the different currency options:

- **Currency** : The name of the default currency your organization uses to conduct business.
- ISO 4217 Currency Code : The ISO code for the currency.
 - **Note**: This setting must be populated in order for the currency (e.g. EUR) to display in the Quotes detail view.
- **Decimal Symbol** : The default decimal symbol.
- **Currency Symbol** : The default symbol for the currency.
- **1000s Separator** : The default delimiter to separate thousands.

Users have the ability to override the currency defaults through their user profiles. For more information on how to set currency settings per user, please refer to the <u>Locale Settings</u> section of the Getting Started documentation in the Application guide.

Export Settings

The Export Settings panel consists of a group of export settings that affect different aspects of exporting in Sugar. Use the following settings to configure the different export options:

- **Export Delimiter** : The delimiter used to separate fields while exporting data. Defaults to a comma.
- **Disable export** : Select this option to disable the export option for all users, including administrators.
- **Default Character Set for Import and Export** : Select a default character set from the dropdown that handles the expected characters in an import and export. Defaults to UTF-8.
- Admin export only : Select this option to disable the export option for standard users, administrators will be allowed to export.

Users have the ability to override the default export delimiter and character set through their user profiles. For more information on how to set export settings per user, please refer to the <u>User Preferences</u> section of the Getting Started documentation in the Application guide.

Note: Locales that use character encoding other than UTF-8 must specify the appropriate character set.

Database Collation

The Database Collation panel only shows if running on a MySQL database and contains an option to change the collation of the connection Sugar makes to the database. Select the desired collation from the dropdown. Defaults to utf8_general_ci.

Note: Changing this setting will not change existing tables, but only new tables going forward. If this setting does not match the collation of the current tables in the database then the database will return errors when accessing those tables.

Currencies

Currencies allow administrators to create and manage currencies and exchange rates in Sugar. The defined currencies in the system can be viewed in the Currencies list view which can be accessed by selecting "Currencies" under the System panel of the Admin page. Please note that the default system currency (e.g. USD) will always display first in the Currencies list view. The default system currency cannot be edited via the Currencies module and will need to be edited via Admin > Locale. For more information on configuring the default currency, please refer to the <u>System Currency</u> section.

Note: For additional information regarding the basics of performing common tasks or operations (e.g. creating records, editing records, deleting records) in the application, please refer to the <u>User Interface</u> documentation in the Application Guide.

•	Accounts 👻 Contacts 👻 Op	oportunities	✓ Leads ▼	Calendar 🔻 Rep	oorts 👻 Curre	ncies
Currer	ncies (2)					Create »
Filter 🔻 🕻	Create Search by currency name				2	
	Currency Name	\$	ISO 4217 Code 🌲	Currency Sym 🌲	Conversion Rate	٥
	Dollars		USD	\$	1	۲
	Euro		EUR	€	0.9	• •

To create a new currency in the system, simply click the Create button on the upper right of the Currencies list view. Enter appropriate values for the fields in the record view layout then click "Save".

•	Accounts 🔻	Contacts 👻	Opportu	unities 🔻	Leads 👻	Curr	rencies	I
	Currency Name							
Cu	Required						Cance	al Save »
ISO 4217	Code			Currency	Symbol			
				Require	d			
Conversio	on Rate			Status				
0				Active				-

Field	Description
Currency Name	The name or designation of the currency Note : The currency name auto- populates based on the value entered in the ISO 4217 Code field.
ISO 4217 Code	The ISO code for the currency Note : This setting must be populated in order for the currency (e.g. EUR) to display in the Quotes module.
Currency Symbol	The default symbol for the currency Note : The currency symbol auto- populates based on the value entered in the ISO 4217 Code field.
Conversion Rate	The conversion rate to get to this currency from the system's default currency.
Status	The current status of the currency (e.g. Active, Inactive) Note : Selecting "Inactive" will remove this currency from currency fields throughout the application.

Updating Conversion Rates

Users may use the currencies defined in Admin > Currencies when populating any currency amount field in stock or custom modules. When doing so, the exchange rate for the selected currency is stored on the record itself. The conversion rate stored on each record will update to match the current rate specified in Admin > Currencies under the following scenarios:

- The record undergoes a save event (e.g., mass update, manual save, etc.) and the record's currency has a different conversion rate defined in Admin
 Currencies than is currently saved in the opportunity.
- An administrator updates the currency exchange rate under Admin > Currencies. This will trigger a scheduled job which updates all records saved with that currency to the new rate.

To keep closed-business amounts historically accurate, opportunity and quote records will not update if they are in a closed status. For more information about updating opportunity currency rates, please refer to the <u>Opportunities</u> documentation in the application guide. For more information about updating quote currency rates, please refer to the <u>Quotes</u> documentation in the application guide.

Languages

The Languages section allows administrators to configure which languages are available for users to log in with. To disable a language, simply drag the language from the Enabled Languages panel to the Disabled Languages panel and click "Save".

Languages

Save Cancel	
Enabled Languages	Disabled Languages
English (US)	
Български	
Česky	
Dansk	
Deutsch	
Ελληνικά	
E Español	1
Français	-
עברית	
Magyar	
Italiano	
Lietuvių	
Save Cancel	

Drag and Drop the names of the languages below to enable and disable them.

Any languages in the Disabled Languages section will not be in the Languages dropdown while logging in.

Search

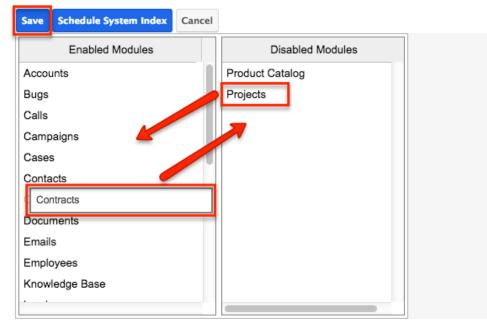
Global search allows users to search for information across their entire Sugar database as opposed to restricting search within a specific module. For more information on how to use global search, please refer to the <u>Global Search</u> section of the Search documentation in the Application guide. The Search administration settings allow administrators to configure, enable, and index full-text search as well as configure legacy global search. Global searches in the desktop application and Sugar Mobile will be returned by <u>full-text search</u>.

Configuring Full-Text Search

Sugar's global search is enabled with full-text searching abilities that use the ElasticSearch engine. Full-text search allows users to search throughout various fields and modules for an enhanced search experience. In order for results to return for a particular module, the module must be enabled on the Full-Text Search Configuration page. To enable or disable a stock or custom module for global search, simply drag and drop the module between the Enabled Modules or Disabled Modules column and click "Save".

Full Text Search

Select the module(s) that users will be able to search against using the Global Search. Perform a full system index after enabling modules for the Global Search. To enable module fields for full text searching, use <u>Studio</u>.



Disabled modules will not be included in the global search results nor available to select in the Modules list on the Global Search bar in the desktop application. For more information on filtering the global search by modules, please refer to the <u>Filtering by Module</u> section of the Search documentation in the Application guide.

Modules must be enabled for Sugar Portal global search in the <u>Legacy Global</u> <u>Search Configuration</u> page. After enabling modules for Global Search, a full system index must be performed in order for the module to appear in the search results. For more information on performing a system index, please refer to the <u>Indexing Full-Text Search</u> section of this documentation.

Individual module fields must be enabled for full-text search in the field attributes via Studio > {Module Name} > Fields > {Field Name}. For more information, please refer to the <u>Studio</u> documentation.

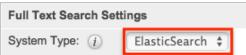
Note: Only modules enabled for Full-Text Search can be referenced in user posts on the activity stream. For more information on referencing record's in posts, please refer to the <u>Activity Stream</u> documentation in the Application guide.

Activating Full-Text Search

Sugar's global search is enabled with full-text searching abilities using the ElasticSearch engine. Full-text search (FTS) allows users to search throughout various fields and modules for an enhanced search experience. Please note that ElasticSearch is required to be set up when installing Sugar for on-site instances and it is automatically enabled by default for instances on Sugar's cloud service.

Use the following steps to configure full-text search:

- 1. The ElasticSearch server is selected by default for the System Type field.
 - **Note**: For more information on ElasticSearch, please refer to <u>www.elasticsearch.org</u>.



- 2. Enter the host name or IP address of the full-text search engine.
 - **Note**: Defaults to "localhost" assuming you are running the search engine on the same server as Sugar.
- 3. Enter the port number for Sugar to connect to the search engine.
 - **Note**: Defaults to "9200", which is ElasticSearch's default port number.
- 4. Click "Test" to verify that the settings are entered correctly and confirm that Sugar connects to the search engine successfully.

Host: (j)	localhost	Test
Port: (j)	9200	

A pop-up message will confirm if the connection was successful or not.

5. If the connection was successful, click "Save" to preserve your changes.

Full Text Search Se	ttings
System Type: (j)	ElasticSearch 🛊
Host: (j)	fts-test2.sjc.sugarcrm Test
Port: (j)	9200
Save Schedule Syst	tem Index Cancel

Each enabled module has a set of fields that are enabled for full-text searching by default. Administrators can enable or disable specific fields for full-text search via Admin > Studio. For more information on how to enable or disable fields for full-text search, please refer to the <u>Studio</u> documentation.

Note: Once a new module or field is added to full-text search, you must perform a system index in order for that field or module to be included in the full-text search results.

Indexing Full-Text Search

Full-text search relies on an index of the records and data to be able to quickly locate results. After enabling full-text search, or enabling a module or field, you should perform a full index of your system.

Note: System performance can be affected while the index is being performed. It is recommended to run a system index during low usage or off hours.

Use the following steps to perform a full system index:

1. Click "Schedule System Index".

Full Text Search Se	ettings
System Type: (j)	ElasticSearch 🛊
Host: (j)	fts-test2.sjc.sugarcrm Test
Port: (j)	9200
Save Schedule Sys	tem Index Cancel

- 2. A pop-up message will display warning of potential performance issues during the index. Click "OK" to proceed.
- 3. The list of available full-text search modules will display. Simply select one or more module(s) to perform the index. You may also select "All" to index all full-text search enabled modules.

All		
Accounts		
Calls		
Cases		
Contacts		
Documents		
Leads		
Meetings		
Notes		
Tasks		
Opportunities		
Delete existing performed. Only will be indexed.		

- 4. Select the checkbox to delete the current index data before the index operation runs. If this is the first index being performed on the system, you do not need to select this option. If you have added fields to a module's index, then this checkbox should be selected or the new field may not show in the results.
- 5. Click the Index button to schedule the index.
- 6. The next time the scheduler runs, it will rebuild the index based on the selected options. For more information on schedulers, please refer to the <u>Schedulers</u> documentation.

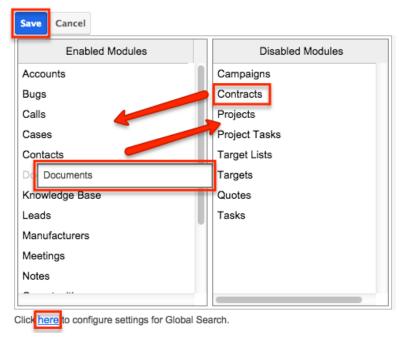
Note: The time and resources required to perform an index are directly proportional to the number of modules selected for the indexing. It is recommended that you choose only the modules that require indexing and perform the index during low usage or off hours.

Configuring Legacy Global Search

Legacy global search is only used to return results in Sugar Portal global search. In order for legacy global search to return results for a particular module, it must be enabled on the Legacy Global Search Configuration page. To enable modules for global search in the desktop application or Sugar Mobile, use the <u>Full-Text</u> <u>Search Configuration</u> instead.

Modules may be enabled or disabled for legacy global search by moving the module to the appropriate column and clicking "Save". To move modules between the columns, simply drag and drop the module names.

Search



Select the module(s) that users will be able to search against.

Note: Legacy global search for Sugar installations running on Oracle is casesensitive by default. To change this, add the following line to theconfig_override.php file:

```
$sugar_config['oracle_enable_ci'] = true;
```

Connectors

The connector settings page allows administrators to configure and manage the various types of connectors to external data sources which integrate with Sugar. A number of different connectors (e.g. Citrix GoToMeeting) come out-of-the-box with Sugar and are enabled by default to allow users to easily view external data via their instance.

Please note that connectors can be disabled and configured accordingly via Admin > Connectors. Developers in your organization can also create connectors to other data sources, which can be uploaded via Module Loader. For more information on how to upload and install packages in Sugar, please refer to the <u>Module Loader</u> documentation. You can also search for other available connectors via Sugar Exchange (<u>http://www.sugarexchange.sugarcrm.com</u>).

Connector Settings



Set Connector Properties Configure the properties for each connector, including URLs and API keys.



Enable Connectors Select which modules are enabled for each connector.



Map Connector Fields Map connector fields to module fields in order to determine what connector data can be viewed and merged into the module records.



Manage Connector Search Select the connector fields to use to search for data for each module.

Setting Connector Properties

Many connectors use web services and require certain connector properties (e.g. API Key, API Secret) to be configured prior to use. To configure the connector properties, simply click the Set Connector Properties button on the Connector Settings page.



Set Connector Properties Configure the properties for each connector, including URLs and API keys.

The Set Connector Properties page displays a tab for each connector that must be configured in order to use in Sugar. The tabs will include the necessary steps or link for you to obtain the information (e.g. API Key, API Secret) needed to set up the connector. Once the necessary information has been entered, click "Save" to preserve your settings.

The following connectors and their properties are available to configure:

Connector	Property	Description
Google	Client ID	The Client ID provided by Google
	Client secret	The Client secret provided by Google
GoToMeeting	Consumer Key	The Consumer Key provided by GoToMeeting
IBM SmartCloud	OAuth Consumer Key	The OAuth Consumer Key provided by IBM
	OAuth Consumer Secret	The OAuth Consumer Secret provided by IBM

Please note that Sugar's WebEx integration is configured via the External Accounts tab of the user's profile. Since WebEx does not have global properties to configure, it will not appear on the Set Connector Properties page.

For more information on configuring the WebEx application, please refer to the <u>Getting Started</u> documentation in the Application guide.

Enabling Connectors

In order to utilize the connectors in Sugar, administrators should ensure that they are enabled properly. Please note that certain connectors are enabled for the entire application while some allow you to enable specific modules for the connector. Simply click the Enable Connectors button on the Connector Settings page to configure the modules that should be enabled for certain connectors.



Enable Connectors Select which modules are enabled for each connector.

The Enable Connectors page will display a tab for each connector that is available in your Sugar instance. Connectors, where you can enable specific modules for, will display the Enabled and Disabled columns where you can drag and drop the desired module from the Disabled column to the Enabled column. Please note that you can enable the connector for any modules (e.g. Accounts, Contacts) that have a standard record view (for Sidecar modules) or detail view (for Legacy modules) layout in Sugar.

Mapping Connector Fields

Some connectors query external services based on fields in Sugar. These mappings can be customized to use different fields based on your organization's needs. To configure the field mappings, simply click the Map Connector Fields button on the Connector Settings page.



Map Connector Fields Map connector fields to module fields in order to determine what connector data can be viewed and merged into the module records.

The Map Connector Fields page has a tab for each connector that has field mappings available. Each of the enabled module(s) will display the connector fields and will need to have the corresponding Sugar field selected from the dropdown list. If the connector is enabled for multiple modules, be sure to select the proper fields for each module. Once the field mapping is set up properly, click "Save" to preserve your changes.

Please note that the connector fields may not always match up with a stock field in Sugar. If you wish to capture and map certain fields from the connector to Sugar, you will need to create new fields via Admin > Studio. For more information on how to create fields in Studio, please refer to the <u>Studio</u> documentation.

Managing Connector Search

Connectors that have multiple fields for mapping need to specify which fields are to be used when searching for data in the module. To designate the connector fields for search, click the Manage Connector Search button on the Connector Settings page. Please note that there are no connectors which come out-of-the-box with Sugar that have search fields defined, so no connectors will be available to configure on this page.



Manage Connector Search Select the connector fields to use to search for data for each module.

The Manage Connector Search page will normally display a tab for every connector that needs connector fields defined for search. The available search fields are limited to the input parameters of the connector being used. To enable a field for search, simply drag and drop the desired field from the Available column to the Default column. Once the necessary field(s) have been selected, click "Save" to preserve your changes.

OAuth Keys

OAuth is an open standard for authorization that enables users to share private resources stored on one site with another site without divulging personal credentials such as user name and password. OAuth works with a public consumer key and a private consumer key. Together, these keys identify which application connects to the service. It is the choice of the Sugar administrator to decide how many different keys to have and whom to give them to.

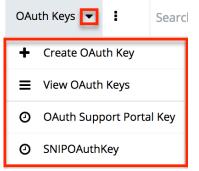
OAuth Keys Fields

The OAuth Keys module contains a number of stock fields which come out-of-thebox with Sugar. The below definitions are suggested meanings for the fields, but the fields can be leveraged differently to best meet your organization's needs.

Field	Description
Consumer Key Name	The name or designation of the OAuth Key.
Consumer Key	Public key. A user name is a suitable consumer key value.
Consumer Secret	Private key. A password is a suitable consumer secret value. Note : The private key is not sent when making a connection.
OAuth Version	The version of the OAuth protocol/framework to use. (OAuth 1.0, OAuth 2.0)
Description	A description or other information about the OAuth key.

OAuth Keys Module Tab

The OAuth Keys module tab appears on the navigation bar once you select "OAuth Keys" from the Administration page. Once in the OAuth Keys list view, you can click the triangle in the OAuth Keys module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of OAuth keys you last viewed in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Create OAuth Key</u>	Opens the edit view layout to create a new OAuth Key
<u>View OAuth Keys</u>	Opens the list view layout to search and display OAuth Keys

Creating OAuth Keys

There are various methods for creating OAuth keys in Sugar including via the OAuth Keys module and via duplication. The full edit view layout opens when creating the OAuth keys directly from the OAuth menu and includes all of the relevant fields for your organization's OAuth keys. The quick-create form is a shortened version of the OAuth Keys edit view and typically contains fewer fields.

Creating Via OAuth Keys Module

One of the most common methods of OAuth key creation is via the Create OAuth Key option in the OAuth Keys module tab. This opens up the edit view layout which allows you to enter all the relevant information for the OAuth key.

Use the following steps to create an OAuth key via the OAuth Keys module:

- 1. Navigate to Admin > OAuth Keys.
- 2. Click the triangle in the OAuth Keys module tab and select "Create OAuth Key".



- 3. Enter appropriate values for the <u>Fields</u> in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.
- 4. Once the necessary information is entered, click "Save".

Create

Save Ca	ncel		
Consumer Key Name: *	ExternalOAuth	OAuth Version:	OAuth 1.0
Consumer Key: *	ExternalOAuthUsername		

Creating Via Duplication

You can also create a new OAuth key by duplicating an existing record. The duplicate option is useful if the key you are creating has similar information to an existing OAuth key.

Note: The system-generated OAuth Support Portal Key cannot be duplicated.

Use the following steps to create an OAuth key by duplicating an existing record:

- 1. Navigate to an OAuth key record's detail view.
- 2. Select "Duplicate" from the Actions menu.

ExternalOAuth



3. The displayed edit view is pre-populated with the original key's values. Update the necessary fields, then click "Save". Create

Save	Cancel		
Consumer Key Name	• ExternalOAuth_New	OAuth Version:	OAuth 1.0
Consumer Key: *	ExternalOAuthUsername		

Note: When duplicating, the Consumer Key and OAuth Version are not modifiable.

Viewing OAuth Keys

There are various options available for viewing OAuth key records in Sugar including via OAuth Keys list view, OAuth Keys detail view, and OAuth Recently Viewed menu.

Viewing Via List View

The OAuth Keys list view displays all OAuth key records meeting the current search criteria. To access the list view, simply click the OAuth Keys module tab. While list view shows key OAuth key fields, you can click the key's name to open the record in detail view. For more information on viewing OAuth keys via list view, please refer to the <u>OAuth Keys List View</u> section.

Viewing Via Detail View

The OAuth Keys detail view displays thorough OAuth key information including all key fields followed by subpanels of the key's related records belonging to various modules. The detail view can be reached by clicking a key record's link from anywhere in the application including from the OAuth Keys list view. For more information on viewing OAuth keys via detail view, please refer to the <u>OAuth Keys</u> <u>Detail View</u> section.

Viewing Via Recently Viewed

As you work in the OAuth Keys module, Sugar will keep track of which OAuth key records you have recently viewed. Click the triangle in the <u>OAuth Keys module tab</u> to see a list of the 3 records you most recently viewed in the module. Clicking the record's name within the list will open it in detail view.



Searching OAuth Keys

The OAuth Keys list view includes a Basic and Advanced Search to help you locate records easily and effectively in a module-specific manner. Once the search is performed, the relevant results will be displayed in the OAuth Keys list view below.

Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g., %services). This will pull up any record that has the word "services" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used in the different methods, please refer to the \underline{Search} documentation.

Basic Search

Basic search offers a few, commonly used fields for a simplified search experience. From the Basic Search panel, you can click "Advanced Search" to access additional search functionality as needed. The buttons and checkboxes available in Basic Search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.

OAuth Consumer Keys

Consumer Key Name My Items My Favorites Search Clear Advanced Search (3) When you run a search, Sugar will return records matching all (as opposed to any) of the fields and checkboxes for which you have given a value. Once the search is complete, the relevant results will populate in the list view below the search panel. To see all OAuth key records to which you have access, simply click "Clear" and then "Search" to perform a blank search with no filters.

Advanced Search

Advanced Search offers a more in-depth search experience than Basic Search including additional fields, layout options, and saved search capability. From the Advanced search panel, you can click "Basic Search" for simplified searching.

The buttons, checkboxes, and dropdowns available in Advanced Search have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.
- **Layout Options** : Use the expandable Layout Options section to configure your list view. For more information, please refer to the <u>Layout Options</u> section of the Search documentation.
- **Saved Searches** : Save, recall, update, and delete searches which you use often. For more information, please refer to the <u>Saved Search</u> section of the Search documentation.

Consumer Key Name	Assigned to	Administrator Chris Olliver Jim Brennan Max Jensen Sally Bronsen Sarah Smith		My Favorites	
∀ Layout Options	Save search as:		Save	Modify current search:	Update Delete

When you run a search, Sugar will return records matching all (as opposed to any)

of the fields for which you have given a value. When searching by a multiselect or dropdown field (e.g., "Assigned to"), however, Sugar will return records matching any of these selections. Once the search completes, the relevant results will populate in the list view below the search panel. To see all OAuth key records to which you have access, simply click "Clear" and then "Search" to perform a blank search with no filters.

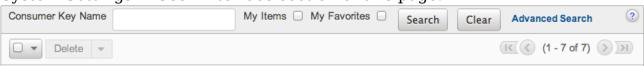
OAuth Keys List View

The OAuth Keys list view displays all OAuth key records meeting the current search criteria. You can view the basic details of each key within the field columns. You have the option to change what fields are displayed in list view by configuring your layout options in the OAuth Advanced Search. For more information on configuring your list view, please refer to the <u>Layout Options</u> section of the Search documentation.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel, you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

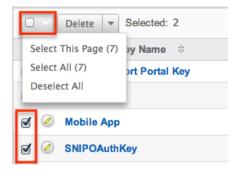
By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the System Settings > User Interface section of this page.



Checkbox Selection

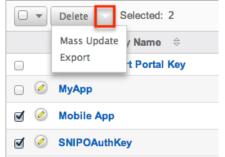
You can perform several actions on OAuth key records directly from the list view by first selecting the desired records. To select individual key records on the OAuth Keys list view, mark the checkbox on the left of each row. To select or deselect multiple key records on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of key results.
- **Select All** : Selects all records in the current search results across all pages of key results.
- **Deselect All** : Deselects all records that are currently selected.



Actions Menu

The Actions menu to the right of the checkbox dropdown allows you to perform various actions on the currently selected records.



The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
<u>Delete</u>	Delete one or more OAuth keys at a time
<u>Mass Update</u>	Mass update one or more OAuth keys at a time
<u>Export</u>	Export one or more OAuth keys to a CSV file

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time. You can also set a default order-by column using the layout options in Advanced Search. For more information on setting a default column sort, please refer to the <u>Layout Options</u> section of the Search documentation.

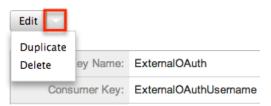
Consumer Key Name 🗦	Consumer Key 🗦	OAuth Version
OAuth Support Portal Key	support_portal	OAuth 2.0

OAuth Keys Detail View

The OAuth Keys detail view displays thorough OAuth key information including all fields. You can also view a key's related tokens which appear in a subpanel beneath the key fields. The detail view can be reached by clicking an OAuth key record's link from anywhere in the application including from the OAuth Keys list view.

Actions Menu

The Actions menu on the top left of each OAuth key's detail view allows you to perform various actions on the current record. Administrator users can change the action items to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on configuring the actions menu, please refer to the System Settings > User Interface section of this page. ExternalOAuth



The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit this OAuth key
Duplicate	Duplicate this OAuth key
Delete	Delete this OAuth key

Next or Previous Record

On the upper right of the OAuth Keys detail view, there are two buttons that allow you to page through each OAuth key in the OAuth Keys list view's current search results. Clicking the Previous button displays the previous key of the current search results while clicking the Next button displays the next key of the current search results. The text in between shows which key result you are currently viewing within the total number of current results.

ExternalOAuth

Edit 💌		((6 of 7) 🕥
Consumer Key Name:	ExternalOAuth	OAuth Version:	OAuth 1.0

Tokens

Beneath an OAuth key record's fields is a subpanel containing related token records. Tokens are created when the user establishes an OAuth connection with the OAuth key pair. These are connections between the Sugar user, the OAuth keys, and the permissions to enable the external application to access data. Tokens created for each OAuth connection are listed in the Tokens subpanel of the corresponding OAuth Keys detail view page. The Tokens subpanel can be collapsed or expanded by clicking the double arrow to the left of the subpanel's name.

× TOKETIS				
			I< < (1 - 2 o	f 2) >>>
ID 😄	Status 😄	Timestamp 🖨	User \ominus	
dec6c86efd62	Request	05/07/2013 06:02pm	Will Westin	delete
3eb3f40415fc	Request	05/07/2013 06:03pm		delete

To delete a token from an OAuth key, choose "Delete" from the far right of the record's row.

Editing OAuth Keys

OAuth keys may be edited at any time to update or add information to the record. You can make changes to existing key records via the OAuth Keys edit view and quick-create forms. Edit view is available within the OAuth Keys module and includes all of the key fields you should need.

Note: The system-generated OAuth Support Portal Key cannot be modified.

ExternalOAuth » Edit					
Save Car	ncel				
Consumer Key Name: *	ExternalOAuth	OAuth Version:	OAuth 1.0		
Consumer Key: *	ExternalOAuthUsername				

Note: Consumer Key and OAuth Version fields cannot be edited after creation. If either of these fields need to be changed, you must create a new OAuth key.

Editing Via Detail View

You can edit OAuth keys via the <u>Detail View</u> by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve your changes. ExternalOAuth

Edit
Consumer Key Name: ExternalOAuth
Consumer Key: ExternalOAuthUsername

Editing Via List View

You can edit OAuth keys via the <u>List View</u> by clicking the Pencil icon to the left of each key's name. A pop-up window will open with the quick create form which is a shortened version of the edit view layout. Update the necessary fields, then click "Save" to preserve your changes.



Deleting OAuth Keys

If an OAuth key record is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from either the OAuth Keys detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once. **Note**: The system generated OAuth Support Portal Key should not be deleted.

Deleting Via Detail View

Use the following steps to delete an OAuth key record via the detail view:

- 1. Navigate to a key record's detail view.
- 2. Select "Delete" from the Actions menu. ExternalOAuth

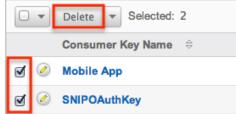
Edit 💌		
Duplicate		
Delete	Key Name:	ExternalOAuth
Consumer Key:		ExternalOAuthUsername

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Mass Deleting Via List View

Use the following steps to delete one or more OAuth key records via the list view:

- 1. Navigate to the OAuth Keys list view by clicking the OAuth Keys module tab.
- 2. Use the <u>Basic</u> or <u>Advanced Search</u> to find the key records you wish to delete.
- 3. Select the desired key records individually or using the <u>checkbox</u> <u>dropdown's</u> options.
- 4. Choose "Delete" from the Actions menu.



5. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of key records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Exporting OAuth Keys

Sugar's Export option allows users to download all fields for the selected OAuth keys to their computers as a .CSV (comma-separated values) file. This may be useful when needing to use OAuth data with other software such as Microsoft Excel. Due to PHP memory limitations on the server, there may be occasions when the application times out while exporting a large number of key records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

OAuth keys may be exported from the OAuth Keys list view by selecting "Export" from the Actions menu.

•	Delete Selected: 2		
	Mass Update / Name 👄		
R 🖉	Export		
e 🖉	SNIPOAuthKey		

Mass Updating OAuth Keys

Mass Updating allows users to make the same change to multiple OAuth key records at once from the OAuth Keys list view. Due to the PHP memory limitations on the server, there may be occasions when the application times out while mass updating a large number of key records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Use the following steps to mass update OAuth key records from the list view:

- 1. Navigate to the OAuth Keys list view by clicking the OAuth Keys module tab.
- 2. Use the list view's Basic or Advanced Search to find key you wish to modify.
- 3. Select the desired keys individually or using the checkbox dropdown's options.
- 4. Choose "Mass Update" from the Actions menu.



5. Scroll to the Mass Update panel and set values for the fields you wish to alter.

Mass Update				
Assigned User Id	k	Client Type	-none- 🗘	
Update Cancel				

6. Click "Update" to save the changes to all of the currently selected key records.

Import Wizard

Import Wizard allows administrators to launch an import for any import enabled module without navigating to the module itself. After selecting "Import Wizard" from the Admin menu, you can select a module to perform an import on.

Which module do you want to import data into?

Next >

After selecting the module, click "Next" to continue the import. The steps to complete the import are identical to performing an import from the module. For more information on how to perform an import, please refer to the <u>Import</u> documentation in the Application guide.

Backups

Sugar Support can schedule and provide backups on a one-time or recurring basis, based on your organization's needs. For some SugarCloud customers, backup files are available to access and download via the Backups module in Sugar.

For more information, please refer to the <u>Downloading Backups From the Backups</u> <u>Module</u> article.

Repair

Repair allows administrators to perform common maintenance routines on their instance of Sugar. The repair menu is available to only administrative users and can be accessed through Admin > Repair.

For more information on the different repair options available, please refer to the <u>Repair</u> documentation in the Administration guide.

Diagnostic Tool

Diagnostic Tool allows administrators to create a file with many diagnostic and configuration details. This tool will collect basic system information regarding Sugar and server configuration and place it all into a zip file to help debug or diagnose issues. The Diagnostic Tool has options that you can turn on and off to include only specific configuration data. Select one or more of the following available options:

Option	Description
SugarCRM config.php	Includes a copy of the config.php file from the root directory of Sugar. This file contains many useful system settings options in Sugar. Note : The database password contained in this file is replaced with asterisks before sending for security purposes.
SugarCRM Custom directory	Includes a copy of the entire custom directory in Sugar
Phpinfo()	Includes the output of the PHP function phpinfo() saved to an HTML file. The phpinfo() function returns information about how PHP is configured on the server running Sugar including the version of PHP, the loaded Extensions, and more.
MySQL - Configuration Table Dumps	Includes an HTML file for each configuration table in Sugar. The file has three sections: field definitions, indexes, and data.
MySQL - All Tables Schema	Includes an HTML file titled MySQLTablesSchema.html which has two sections for each table in Sugar: field definitions and indexes.
MySQL - General Information	Includes an HTML file titled MySQL- General-info.html. This file contains some basic information about the MySQL database Sugar is running on such as version number and character

	sets.
MD5 info	Includes a PHP file that shows any file in your instance of Sugar that has a different hash than the stock file. This can indicate which files are customized and where they are located in your file system.
Copy files.md5	Includes the list of all files and their original md5 hash in a file titled files.md5. Note : Only available when the MD5 info option above is selected.
Copy MD5 Calculated array	Includes the list of all files and their current hash in a PHP file titled md5_array_calculated.php. Note : Only available when the MD5 info option above is selected.
BeanList/BeanFiles files exist	Includes an HTML file titled beanFiles.html. This file contains a list of the modules in Sugar and checks all the references for that module to make sure they are correct.
SugarCRM Log File	Includes a copy of the current log file for Sugar.
Sugar schema output (VARDEFS)	Includes an HTML file titled vardefschema.html which contains detailed metadata on each table in Sugar.

The more options selected, the bigger the resulting zip file will be. Select the desired options and click "Execute Diagnostic".

Diagnostic Tool

Execute Diagnostic Cancel	
SugarCRM config.php	Ø
SugarCRM Custom directory	ø
phpinfo()	ø
MySQL - Configuration Table Dumps	
MySQL - All Tables Schema	
MySQL - General Information	
MD5 info	
- Copy files.md5	
- Copy MD5 Calculated array	
BeanList/BeanFiles files exist	
SugarCRM Log File	I
Sugar schema output (VARDEFS)	

Once the diagnostic tool is finished, select "Download the diagnostic file" to download the zip file containing the results to your computer.

Diagnostic Tool Executing Diagnostic Operations... 100%

Getting config.php... Done Getting custom dir... Done Getting phpinfo() Done Getting sugarcrm.log Done Download the Diagnostic file

Delete the Diagnostic file

Optionally, you can then select "Delete the Diagnostic file" to remove it from the server. Large diagnostic files should be deleted from the server as they can pile up and take necessary disk space.

Tracker

Tracker allows administrators to configure the system to track certain user actions and information for Sugar modules. This information is used in tracker reports and dashlets. By default the tracker options are disabled. Use the following options to record tracker data:

• **Tracker Actions** : Tracks user actions such as modules accessed and records saved.

- **Tracker Sessions** : Tracks active users' session data such as session length.
- **Tracker Performance** : Tracks system performance such as database round trips, number of files accessed, server response time, and memory usage.

Note: This option can cause performance issues and should not be enabled in a production environment.

• **Tracker Queries** : Tracks any query that takes longer than the specified slow query time threshold and saves the data to the database. Tracker queries logs the query, how many times it has been run, the last time ran, and the average seconds the query took. "Log slow queries" also needs to be selected before this option tracks data.

Note: This option can cause performance issues and should not be enabled in a production environment.

• **Log slow queries** : Select this option to log queries that take longer than the slow query time threshold to the sugar log. This is useful for performance debugging.

Note: This option can cause performance issues and should not be enabled in a production environment.

- Number of days of Tracker data to store when Scheduler prunes the tables : Specify the number of days of data to be retained. The Prune Tracker Tables scheduler will remove any tracker records older than the specified number of days. For more information on the Prune Tracker Tables scheduler, please refer to the <u>Prune Tracker Tables</u> section of the Scheduler documentation in the Administration guide.
- Slow query time threshold (msec) : Specify a threshold in milliseconds to begin logging slow queries at. If "Log slow queries" is selected, queries that take longer to process than the threshold duration will be recorded in the Sugar Log. If "Tracker Queries" is selected, queries will be logged to the database.

Select the desired settings and click "Save" to preserve your changes. Tracker

Save Cancel	
	Enabled
Tracker Actions: (i)	
Tracker Sessions: (j)	
Tracker Performance: (i)	
Tracker Queries: (i)	
Log slow queries:	
Number of days of Tracker data to store when Scheduler prunes the tables	30
Slow query time threshold (msec):	100

Note: Changing the Log slow queries and Slow query time threshold values will also change them in Admin > System Settings.

Scheduler

Scheduler provides administrators with a method to automate the execution of custom and system processes. The Scheduler menu is available to only administrative users and can be accessed through Admin > Scheduler.

For more information on the different schedulers available, please refer to the <u>Schedulers</u> documentation in the Administration guide.

PDF Manager

PDF Manager allows administrators to create and manage templates for generated PDF files for any deployed module, custom or standard. The PDF Manager is available to only administrative users and can be accessed through Admin > PDF Manager.

For more information on the PDF Manager, please refer to the <u>PDF Manager</u> documentation in the Administration guide.

Mobile

The Mobile settings on the Administration page allow administrators to configure what modules they want enabled or disabled for Sugar Mobile and the browserbased Sugar mobile application. In addition, you can enable the mobile offline capability for your instance for Sugar Mobile.

The browser-based Sugar mobile application allows users to access various Sugar modules (stock and custom modules) via a web browser on a smartphone or PDA. Sugar Mobile is a native mobile application that enables users to access Sugar from mobile devices. For a list of supported devices for Sugar Mobile, please refer to the <u>Mobile Supported Platforms</u> page.

You can add, edit, and remove fields, including Calculated Value fields, to customize the mobile layouts via Admin > Studio. For more information on configuring fields, please refer to the <u>Fields</u> section of the Developer Tools documentation. For more information on configuring the mobile layouts, please refer to the <u>Mobile Layouts</u> section of the Developer Tools documentation.

Note: Calculated Value fields will not be updated in real time for mobile edit view

layouts.

Configuring Sugar Mobile

You can configure what modules are available for use in Sugar Mobile via Admin > Mobile. Please note that the Bug Tracker, Campaigns, Contracts, Knowledge Base, Products, and Targets modules are not available for Sugar Mobile. For more information on enabling modules for Sugar Mobile, please refer to the <u>Enabling</u> <u>Modules for Mobile Access</u> section of this documentation.

Configuring Mobile Browser Access

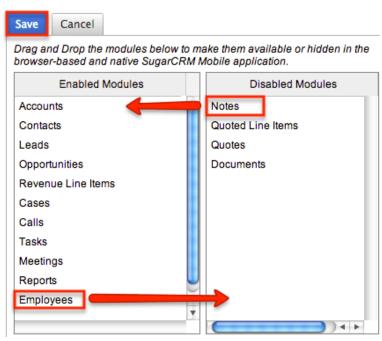
The modules enabled for use via Admin > Mobile will also apply to the browserbased Sugar mobile application. For more information on enabling modules for the browser-based Sugar mobile application, please refer to the <u>Enabling Modules for</u> <u>Mobile Access</u> section of this documentation. Please note that the Reports module is not available for the browser-based Sugar mobile application.

Enabling Modules for Mobile Access

Use the following steps to enable modules for mobile access:

- 1. Navigate to Admin > Mobile.
- 2. To enable a module for the browser-based and native Sugar Mobile application, drag and drop the module from the Disabled Modules column to the Enabled Modules column.
- 3. To disable a module, drag and drop the module from the Enabled Modules column to the Disabled Modules column.

Mobile



4. Click "Save" to apply the changes made to Sugar Mobile and the browserbased Sugar mobile application.

Enabling Offline Mobile Access

You can also allow mobile offline capabilities for your instance in Sugar Mobile by marking the Offline enabled checkbox in Admin > Mobile. Enabling offline access allows the user's mobile device to cache records for offline viewing as well as buffer changes they make to records while offline. The changes made will be synced once they are reconnected. Please note that the offline option must be enabled in Sugar first before users can enable the offline mode on their devices. For more information on enabling offline in mobile devices, please refer to the <u>Sugar Mobile User Guide</u> for your specific mobile device type (iPhone, Android).

Enabled Modules	Disabled Modules
Accounts	Notes
Contacts	Quoted Line Items
Leads	Quotes
Opportunities	Documents
Revenue Line Items	
Cases	
Calls	
Tasks	
Meetings	
Reports	U
Employees	Ă
	Y
Offline Settings	
Offline enabled	

Drag and Drop the modules below to make them available or hidden in the browser-based and native SugarCRM Mobile application.

Last Modified: 2019-08-21 17:47:35

Repair

Overview

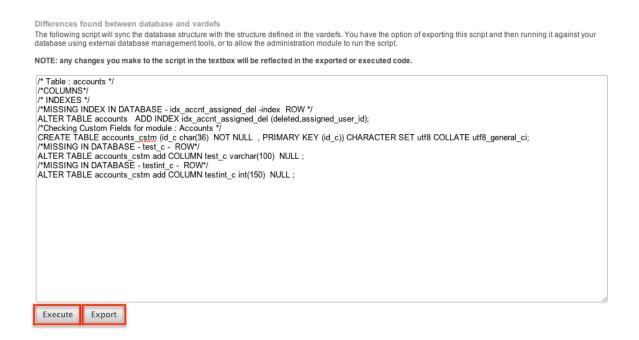
The repair functions in Sugar allow administrators to perform common maintenance routines on their instance of Sugar. The repair menu is available to only administrative users and can be accessed through Admin > Repair. The following sections are available options from the repair menu.

Quick Repair and Rebuild

The quick repair and rebuild is the most commonly used repair option and should be performed after significant changes have been made to your instance of Sugar. If you notice inconsistencies with module layouts or fields as you have customized them via Studio, this option is normally the best first course of action to try and correct the issue. Sugar caches files to help access necessary files quickly. This option clears out many of the cached files in Sugar which allows new versions of the files to be loaded. The quick repair and rebuild option performs the following

actions:

- **Clear Vardefs From Cache** : Deletes any *vardefs.php file in the cached modules folder
- **Clear Language Files From Cache** : Deletes any {Module Name}.lang.php file in the cached modules folder
- **Clear Template Files From Cache** : Deletes any *.tpl files in the cached modules folder
- **Clear JavaScript Files From Cache** : Deletes any *.js files in the cached modules folder
- **Clear JavaScript Language Files From Cache** : Deletes any *.js files in the cached jsLanguage folder
- **Clear Dashlet Files From Cache** : Deletes any *.php files in the cached dashlets folder
- **Clear Sugar Feed Files From Cache** : Deletes the Sugar Feed files in cached modules folder
- **Clear Smarty Template Files From Cache** : Deletes any *.tpl.php files in the cached smarty templates folder
- **Clear Theme Files From Cache** : Deletes theme files in the cached theme folder for all themes in Sugar
- **Clear XML Files From Cache** : Deletes any *.xml files in the cached xml folder
- **Clear Search Files From Cache** : Deletes the unified_search_modules.php file in the cached module folder
- **Clear External API Cache Files** : Deletes the external API cache PHP and JavaScript files in the cached include folder
- **Clear Additional Cache Files** : Loops through the cached API folders and deletes any *.php files as well as the cached clients folder
- Clear PDF Font Cache Files : Deletes the cached PDF font list file
- Rebuild Extension Files : Rebuilds language files, extensions, dashlet containers, relationships, and the table dictionary; this step also clears any cached files by APC or WinCache, resets the Zend accelerator, clears eAccelerator's cache, and clears XCache cached files
 Note : These functions will only run if the associated systems are installed and running.
- **Rebuild Audit Tables** : Creates audit tables for any module that has audit enabled and where the audit table does not already exist; the results for each table are printed on the page
- **Repair Database Tables** : Checks to make sure the database is in synch with the table dictionary and vardef files; any missing tables, columns, and indexes will be scripted to be recreated as well as any column properties that are incorrectly set in the database. The screen will display any database changes that should be made. Click "Execute" to execute the script to apply the changes to the Sugar database or click "Export" to save the script to a SQL file.



Upgrade Teams

The Upgrade Teams option performs some cleanup regarding team records in Sugar. This can be useful to restore the private teams for all users in the event they become corrupted or are removed for any reason. The upgrade teams option performs the following actions:

- **Global Team** : Creates or restores the global team if it does not exist or has been deleted. All users are then assigned to the global team if not already.
- **Private Teams** : Creates a private team for every user in the system that does not already have a private team and assigns the user to their private team.

The results are printed on the screen as to what teams already existed and what teams were created.

Expand Column Width

The expand column width option provides a fix for some limitations of MSSQL when requiring multi-byte characters in the database. This limitation only exists for systems running on a MSSQL database while using the MSSQL Drivers for PHP. This function is not available and not necessary to be run on any of the currently supported database platforms.

Note: We recommend running Sugar on at least version 2.0.1 of the SQLSRV

Drivers.

Use the following steps to run the Expand Column Width repair option:

- 1. Select "Expand Column Width" from the Admin > Repair screen.
- 2. Select from the dropdown which of the following actions you would like to take:

 $\label{eq:execute} \textbf{Execute SQL}: \textbf{Executes the SQL commands on your database}.$

3. Select "Go" to perform the selected action.



4. The script takes any field in the database that is type varchar, char, or text and increases the length of the field. The new length is set to three times the current length, or if that is higher than 255, the length is set to 255.

Rebuild .htaccess File

Rebuild .htaccess File option creates or updates the .htaccess file in the root of the Sugar directory. The .htaccess file contains specific commands to prevent unauthorized access to certain files and directories on your webserver. File permissions need to be configured correctly in order for Sugar to write to the .htaccess file. If writing to the file fails, the expected contents for the file will be printed on the page.

Note: If you have additional lines to add to the .htaccess file, place them outside of the "# BEGIN SUGARCRM RESTRICTIONS" and "# END SUGARCRM RESTRICTIONS" lines or they will be removed when running this repair function.

Rebuild Config File

The Rebuild Config File option takes the config.php file in the root directory of Sugar and rebuilds it to have all default values for any options not specified directly. It first runs a check to make sure Sugar can write to the config.php file and will return to you if it can or not. When ready to rebuild the config file select "Rebuild".

Config Check	The config.php file is ready for rebuild.	
Rebuild Config File	Rebuild	

The default values for the config will be merged with any custom values currently

set and will be loaded into the config.php file.

Rebuild Sugar Logic Functions

The Rebuild Sugar Logic Functions rebuilds the cache files for all Sugar logic functions in the system. The Sugar logic functions are primarily used as formulas in field definitions. The results of the repair are shown on the screen.

Rebuild Relationships

Rebuild Relationships clears out the relationship cache and data and rebuilds it from the vardef files. Custom and stock relationships are all rebuilt. This repair option is good to run after an upgrade or when installing or uninstalling custom modules. The results of the repair are shown on the screen.

Rebuild Schedulers

The Rebuild Schedulers option removes all schedulers and recreates schedulers that come with Sugar by default. If you have customized the Active/Inactive flag, the frequency the job runs, or even deleted a job this repair option will restore all settings back to their original default value and recreate any deleted default schedulers.

Note: This also deletes any custom schedulers added to Sugar. If you have made changes to the default schedulers or created custom schedulers, please backup the details of each scheduler before running this repair.

The schedulers and their default settings are listed below:

	Rebuild Schedulers	Rebuild	
	Rebuilding your Scheduler Jobs will delete all existing job entries and their respective logs. All out-of-the-box Sched	uler jobs will be	
- 1			

Name	Interval	Range	Status
Process Workflow Tasks	As often as possible.	01/01/2005 05:30am - 12/31/2020 06:59pm	Active
Run Report Generation Scheduled Tasks	On the hour; 06:00am	01/01/2005 02:15am - 12/31/2020 06:59pm	Inactive

Prune Tracker Tables	On the hour; 02:00am; 1st	01/01/2005 12:00pm - 12/31/2020 06:59pm	Active
Check Inbound Mailboxes	As often as possible.	01/01/2005 02:00am - 12/31/2020 06:59pm	Active
Run Nightly Process Bounced Campaign Emails	On the hour; From 02:00am to 06:00am	01/01/2005 02:00pm - 12/31/2020 06:59pm	Active
Run Nightly Mass Email Campaigns	On the hour; From 02:00am to 06:00am	01/01/2005 08:15am - 12/31/2020 06:59pm	Active
Prune Database on 1st of Month	On the hour; 04:00am; 1st	01/01/2005 02:15am - 12/31/2020 06:59pm	Inactive
Update tracker_sessions Table	As often as possible.	01/01/2005 01:00am - 12/31/2020 06:59pm	Active
Run Email Reminder Notifications	As often as possible.	01/01/2008 08:30am - 12/31/2020 06:59pm	Active
Clean Jobs Queue	On the hour; 05:00am	01/01/2012 04:15am - 12/31/2030 06:59pm	Active
Create Future TimePeriods	On the hour; 11:00pm	01/01/2012 01:30am - 12/31/2030 06:59pm	Active

Rebuild Sugar Dashlets

Rebuild Sugar Dashlets deletes the cached dashlets.php file and recreates it. This

file contains the path to the php files, the class to use, and the module for each dashlet in Sugar. This repair option is good to run when making changes to the dashlets that come with Sugar or custom dashlet loaded into Sugar. The results of the repair are shown on the screen.

Rebuild WorkFlow

Rebuild Workflow deletes files in the custom workflows folder for each module and then rebuilds the files from the workflow data in the database. This repair also verifies the proper logic hooks are in place to properly fire the workflows and rebuilds any plug-ins that are installed.

Rebuild Javascript Languages

The Rebuild Javascript Languages function deletes all files in the cached jsLanguage folder and deletes any {Module Name}.lang.php file in the cached modules folder. The cached files will be rebuilt when they are needed.

Rebuild Sidecar Files

Rebuild Sidecar Files will replace compressed JavaScript files for the Sidecar framework with original, full JavaScript source files. The full files will then be compressed (minified) to maximize application performance.

Rebuild JS Grouping Files

Rebuild JS Grouping Files takes the many different JavaScript files that are required with Sugar and concatenates them together into the cache directory.

Note: The process will continue working if you navigate away from this page, but if you wait you will see a notification on the page when it is complete.

Rebuild Sprites

Rebuild Sprites takes images in the following directories:

- ./include/images
- ./themes
- ./custom/themes

Creates the sprites and metadata files in the ./cache/sprites/ folder.

Note: The process will continue working if you navigate away from this page, but if you wait you will see a notification on the page when it is complete.

Repair Non-Lowercase Fields

The Repair Non-Lowercase Fields option takes any custom field defined in Sugar and, if the field contains an upper case letter, it will change the field to be lowercase. The database, vardef files, and views are all searched through and corrected for and uppercase fields. This option also clears any vardef files from the cache when finished.

Repair Teams

The Repair Teams option runs a quick check against the database for every user. It performs the following checks:

- Users not in the global team
- Users who do not have a private team
- Users who are not a member of a team that a user who reports to them is a member of

If any of the checks return true, the page will indicate that records were found and the associated action will be selected by default. Select the options you wish to perform and click "Rebuild".

The selected options will perform the following:

Repair Non-Lowercase Fields	Repair mixed-case custom table(s) and metadata file(s) to fix issues wh lowercase field names
🖉 <u>Repair Teams</u>	Rebuilds private team memberships based on user reporting hierarchy
Repair Roles	Repairs Roles by adding all new modules that support Access Controls, new Access Controls to existing modules

- **Rebuild access to global team** : Create a global team if one does not exist and loops through every user and adds them to the global team.
- **Rebuild access to private team** : Loops through every user and creates a private team if one does not exist, and then adds the user to their private team.
- **Rebuild team hierarchy** : Loops through every user and makes sure every manager is included in their employees' teams. This ensures that if Sally reports to Jim, that Jim can see all of Sally's records.

Note : Sugar prevents a loop from being created via the Reports To field. For more information on setting the Reports To field, please refer to the <u>User Management</u> documentation.

• **Clean up unused combinations of teams** : Searches the database for unused combinations of teams and deletes the records from the database.

The users looped through are displayed on the screen when complete.

Repair Roles

Repair Roles goes through every ACL enabled module and ensures that there are appropriate database records to allow roles to be used on the specified module. This repair is important to run after adding new modules via Module Loader or Module Builder to make sure all of the role options are available for the new module. If there is a module that has ACL enabled for it, but the module does not show in the Roles section, then this repair option will add the module. The results of the modules accessed are printed on the screen.

Repair Inbound Email Accounts

Repair Inbound Email Accounts loops through every active inbound email account in Sugar and verifies the settings configured. Any Inbound email account that fails to successfully repair will be listed on the page and will require someone to manually repair them by reentering a valid user name and password.

Remove XSS

The Remove XSS repair loops through the database and removes any malicious scripts from specified field types. Select a module from the dropdown, or select "All" to run for all modules.

Removes XSS Vulnerabilities from the database

Select a module to remove potential XSS strings. Select "All" to address every module. Press execute to start the detection and removal process.

✓ -none-
All
Accounts
Bugs
Calls
Campaigns
Cases
Contacts

The page will then display the count of records that will be scanned, and repaired if necessary. Click "Execute" to being the repair.

Removes XSS Vulnerabilities from the database

Select a module to remove potential XSS strings. Select "All" to address every module. Press execute to start the detection and removal process.

All	\$	Execute
1768	Object(s) found	

You will see the count of Object(s) Repaired incrementing as it is running. Once the repair is complete you will get a popup message saying "Done." and the count repaired should match the count of objects found.

Repair Activities

Repair Activities takes Call or Meeting records where the status field does not equal "Held" and updates the end date based on the duration of the activity. If the status equals "Held" or the record is marked as deleted, this repair will skip it. The screen will show "Done" when complete.

Enable/Disable Seed Users

The Enable/Disable Seed Users option will either enable or disable the default users that are installed with Sugar when selecting a demo installation. If the first seed user retrieved from the database is set to "Active" then this option will give you the option to "Deactivate" the seed users, otherwise, you have the option to "Activate" the seed users.

Enable/Disable Seed Users



This option will set the status based on the option presented for all users that have an id that starts with "seed".

Note: If you did not populate Sugar with demo data when installing, this repair will return "No seed users" and will not do anything.

Clear Additional Cache

The Clear Additional Cache option loops through the cached API folders and deletes any *.php files as well as the cached clients folder. This option is also performed by the Quick Repair and Rebuild option. The screen will show "Done"

when complete.

Last Modified: 2018-03-28 22:32:20

Schedulers

Overview

Schedulers in Sugar provide users with a method to automate the execution of custom and system processes. Sugar comes with many default schedulers to perform jobs such as monitoring inbound emails, executing workflows, running reports and dispatching campaign emails. Schedulers are available only to administrative users and can be accessed through Admin > Schedulers.

Schedulers Fields

The Schedulers module contains a number of stock fields which come out of the box with Sugar. The following definitions are suggested meanings for the fields, but the fields may be leveraged differently to best meet your organization's needs.

Field	Description
Active From	Time the scheduler begins to be active per day
Active To	Time the scheduler stops being active per day
Date & Time End	Date and Time the scheduler will stop running on the specified interval
Date & Time Start	Date and Time the scheduler will begin running on the specified interval
Execute If Missed	Specifies if a scheduler should be executed during the next cron run in the event that cron did not run at the exact time a job is scheduled for
Interval	How often and when the schedule will run, defaults to every day, every minute

Job	The job to execute on the defined schedule
Job Name	The name or designation of the scheduler
Status	The current status of the scheduler (i.e. Active, Inactive)

Note: Any times configured for schedulers will be based on the admin user's time zone (user id = '1').

Default Schedulers

The default schedulers that packaged with Sugar are required for different activities throughout the application. The following lists the default schedulers and their default settings:

Name	Interval	Status
Advanced Workflow Scheduled Job	As often as possible.	Active
Check Inbound Mailboxes	As often as possible.	Active
<u>Clean Jobs Queue</u>	On the hour; 05:00am	Active
<u>Create Future</u> <u>TimePeriods</u>	On the hour; 11:00pm	Active
<u>Elasticsearch Queue</u> <u>Scheduler</u>	As often as possible.	Active
Process Workflow Tasks	As often as possible.	Active
Prune Database on 1st of Month	On the hour; 04:00am; 1st	Inactive
Prune Old Record Lists	As often as possible	Active
Prune Tracker Tables	On the hour; 02:00am; 1st	Active
Publish approved articles & Expire KB Articles	On the hour; 05:00am	Active
<u>Rebuild Denormalized</u> <u>Team Security Data</u>	Every 15 minutes	Inactive
Remove diagnostic tool files	On the hour; 04:00am; Sunday	Active
Remove temporary files	On the hour; 04:00am	Active
Remove temporary PDF	On the hour; 04:00am	Active

files		
<u>Run Email Reminder</u> <u>Notifications</u>	As often as possible.	Active
<u>Run Nightly Mass Email</u> <u>Campaigns</u>	On the hour; From 02:00am to 06:00am	Active
Run Nightly Process Bounced Campaign Emails	On the hour; From 02:00am to 06:00am	Active
Run Report Generation Scheduled Tasks	On the hour; 06:00am	Inactive
<u>Sugar Heartbeat</u>	On the hour; 04:00am	Active
<u>Update tracker_sessions</u> <u>Table</u>	As often as possible.	Active

Advanced Workflow Scheduled Job

The Advanced Workflow Scheduled Job scheduler is responsible for processes associated with the Advanced Workflow business process management tool. It is active and runs as often as possible by default. The Advanced Workflow Scheduled Job will check for any active time-based process events in a pending state. If any processes meet this criterion, the scheduler will ensure the process flow continues. For more information about Advanced Workflow, please refer to the <u>Advanced</u> <u>Workflow</u> documentation.

Note: Advanced Workflow events processed by this scheduler will be run by the admin user (user id = '1') in Process History unless the admin user is disabled.

Check Inbound Mailboxes

The Check Inbound Mailboxes scheduler is active and runs as often as possible by default. This scheduler will retrieve any unread email from active group inbound email accounts configured in the system. Personal and bounce mail accounts are not checked by this scheduler. If the group email account is configured to create cases or to send auto-reply emails, then this scheduler will handle those tasks as well. For more information on how to set up and configure a group inbound email account, please refer to the Email documentation.

Clean Jobs Queue

The Clean Jobs Queue scheduler is active and runs every day at 5:00 AM by default. The jobs queue is essentially a log of when each scheduler has run. This scheduler will go through the job queues and either soft or hard delete old records in the jobs queue. A soft delete is simply hiding the record from Sugar, but keeping it in the database for recovery if necessary. A hard delete is permanently deleting it from the database. Job queue records will be soft and hard deleted by this scheduler with the following criteria:

- **Soft Delete** : Completed more than 7 days ago.
- Hard Delete : Completed more than 21 days ago.

Note: The number of days for a soft and hard delete are configurable through the sugar config files by modifying the values of \$sugar_config['jobs']['soft_lifetime'] and \$sugar_config['jobs']['hard_lifetime'].

Create Future TimePeriods

The Create Future TimePeriods scheduler is active and runs every day at 11:00 PM by default. When setting up the Forecasts module for the first time, you are prompted with what type of time period (Yearly or Quarterly) and how many future and past time periods you would like. This scheduler runs based off of those settings and creates new time period records as needed for forecast data entry.

For more information about configuring the time periods for forecasting, please refer to the <u>Forecast Configuration</u> documentation.

Elasticsearch Queue Scheduler

The Elasticsearch Queue Scheduler job is active and runs as often as possible by default. New records, revised records, and deleted records are queued to be processed by this scheduler and added to the full-text search index. Though this scheduler is set to run as often as possible, it can take a few moments before changes are available in global search results. For more information about Search, please refer to the <u>Search</u> documentation.

Process Workflow Tasks

The Process Workflow Tasks scheduler is active and runs as often as possible by default. This scheduler processes and runs any time elapsed workflows are due to run. If you utilize time-elapsed workflows, it is highly recommended to run this scheduler as often as possible to ensure the workflows are executed quickly. For more information on creating workflows, please refer to the <u>Workflow</u>

Management documentation.

Note: Workflows processed by this scheduler will be run by the admin user (user id = '1') unless the admin user is disabled.

Prune Database on 1st of Month

The Prune Database on 1st of Month scheduler is inactive and runs at 4:00 AM on the first day of every month. Sugar implements a soft delete feature when deleting records through the application. Instead of deleting the record right away, the system marks a field called deleted in the database for the record. This scheduler runs through every table in the Sugar database and deletes any record that has this deleted flag. This is beneficial to keep the database small and efficient but will remove the ability to recover accidentally deleted records. If you have a large database, we recommend activating this scheduler and running it once a month for performance.

Prune Old Record Lists

The Prune Old Record Lists scheduler is active and runs as often as possible by default. This scheduler job will clean up backend database entries Sugar uses when generating export files. Such entries that are older than 1 hour from the current date and time will be removed from the record_list database table.

Keeping this scheduler active will help prevent exports from failing due to size limitations.

Prune Tracker Tables

The Prune Tracker Tables scheduler is active and runs at 2:00 AM on the first day of every month by default. This scheduler will delete data in the tracker tables based on the tracker prune interval. This interval can be set from Admin > Trackers and defaults to 30 days if not set. Any record older than the specified amount of days will be deleted from the following tables:

- tracker
- tracker_sessions
- tracker_perf
- tracker_queries
- tracker_tracker_queries

Keeping this scheduler active helps ensure overall system performance is kept at

optimum levels, as these tables are continually updated via common actions in the application. For more information on trackers and setting this interval, please refer to the <u>Tracker</u> documentation.

Publish Approved Articles & Expire KB Articles

The Publish Approved Articles & Expire KB Articles scheduler is active and is set to run daily at 5:00 AM by default. This scheduler publishes any Knowledge Base articles that have a status of "Approved" and were scheduled for a later publish date. It also checks for any articles that have reached their expiration date and changes their statuses to "Expired".

Rebuild Denormalized Team Security Data

The Rebuild Denormalized Team Security Data scheduler is inactive by default with an interval set to run every 15 minutes when activated. Team Security denormalization can significantly improve SQL query performance when there are a large number of Teams in an on-site Sugar instance. This feature relies on a separate Team security denormalization table that needs to be updated as records change to ensure Sugar's team security visibility rules are applied properly. When denormalization is enabled via the <u>perfProfile.TeamSecurity.default.use_denorm</u> configuration and inline updates are disabled via

<u>perfProfile.TeamSecurity.inline_update</u>, then the Rebuild Denormalized Team Security Data scheduler must be turned on to make sure the table is regularly updated.

Remove Diagnostic Tool Files

The Remove Diagnostic Tool Files scheduler is active and runs Sundays at 4:00 AM by default. The ./cache/diagnostic directory serves as a temporary directory for data generated by Sugar's Diagnostic Tool, which allows administrators and developers to capture basic system and server configuration details in order to diagnose problems in a Sugar instance. The tool places this data into a zip file on the server. The Remove Diagnostic Tool Files scheduler will remove any of these temporary files from the directory once a week during off-peak hours. For more information about the Diagnostic Tool, please refer to the <u>Diagnostic Tool</u> documentation.

Remove Temporary Files

The Remove Temporary Files scheduler is active and runs daily at 4:00 AM by

default. Sugar uses a cache directory to store files such as images, documents, and installable modules uploaded by users. Some of these documents may be large in size and can cause performance issues. This scheduler will remove any unused files that are found in the ./uploads/tmp directory or in most user-configured upload directories. For more information about temporary file storage, please refer to the <u>Advanced Configuration Options</u> documentation.

Remove Temporary PDF Files

The Remove Temporary PDF Files scheduler is active and runs daily at 4:00 AM by default. The ./cache/pdf/ directory serves as a temporary directory for in-progress PDF files generated from reports, quotes, and other parts of Sugar. Upon successful completion of the PDF operation, the file is typically removed from the directory, but there may be circumstances where orphaned PDF files could remain in the directory. This scheduler will remove any PDF files from the directory during off-peak hours.

Run Email Reminder Notifications

The Run Email Reminder Notifications scheduler is active and runs as often as possible by default. This scheduler will send out email reminders for meetings and calls that have met or passed the reminder time. Meetings and calls need to have a status that does not equal "Held" in order for the email reminder to be sent to invitees.

Run Nightly Mass Email Campaigns

The Run Nightly Mass Email Campaigns scheduler is active and runs on the hour, every hour from 2:00 AM to 6:00 AM by default. This scheduler will process any campaign emails waiting to be sent from the email queue up to the configured batch amount. If the number of emails to send per batch is set to 500, and this scheduler is set to run once an hour, then you will be sending 500 emails per hour. Please configure this scheduler and the number of emails to send per batch to allow the proper amount of email to be sent.

Note: Many email providers place limitations on email send rates such as emails per hour, emails per day, unique recipients, etc. Please check with your email provider to ensure that they will be able to process the volume of emails you desire to send through campaigns.

For more information on setting the number of emails sent per batch, please refer to the <u>Campaign Email Settings</u> documentation.

Run Nightly Process Bounced Campaign Emails

The Run Nightly Process Bounced Campaign Emails scheduler is active and runs on the hour, every hour from 2:00 AM to 6:00 AM by default. This scheduler will retrieve any unread email from active bounce inbound mail accounts configured in the system. Bounce email accounts are important for receiving any bounced emails from a campaign. Emails in the bounce mail account must match all of the following criteria to be classified as a bounced email:

- 'From' email address must contain MAILER-DAEMON or POSTMASTER.
- 'Remove me' link from the original email must be in the email body.
- The originating email does not have a campaign activity log type of invalid email or send error.

We recommend setting this scheduler to run at the same time and interval as the Run Nightly Mass Email Campaigns scheduler. For more information on how to set up and configure a bounce inbound email account, please refer to the <u>Email</u> documentation.

Run Report Generation Scheduled Tasks

The Run Report Generation Scheduled Tasks scheduler is inactive by default with an interval set to run daily at 6:00 AM when activated. This scheduler executes any scheduled reports and emails the results to the designated user. If you want to utilize scheduled reports, please enable this scheduler, otherwise, the reports will not be emailed. We recommend running this scheduler as often as possible, this way if someone schedules a report for 6:15 AM, they will not have to wait until 7:00 to receive the report. For more information on scheduling reports, please refer to the <u>Scheduled Reports</u> documentation.

Sugar Heartbeat

The Sugar Heartbeat scheduler is active with an interval set to run daily at 4:00 AM by default. This scheduler ensures that Sugar continues to receive heartbeat information even if no users have logged into your instance in the last three days. When this occurs, the Sugar heartbeat information will be sent automatically when cron runs.

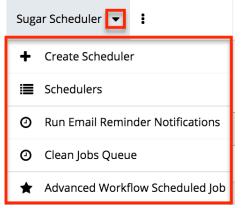
Update tracker_sessions Table

The Update tracker_sessions Table scheduler is active and runs as often as

possible by default. This scheduler updates the tracker_sessions table, setting all records that have a date older than six hours to not active. This ensures any user that is inactive for six hours or more will be logged out and their sessions will no longer be active. Please keep in mind that PHP settings on the server may be more restrictive than the six-hour limitation on inactivity this scheduler imposes.

Schedulers Module Tab

The Schedulers module tab can be accessed by navigating to the Administration page and clicking "Scheduler" in the System section. Once in the Schedulers list view, you can click the triangle in the Sugar Scheduler module tab to display the Actions, Recently Viewed, and Favorites menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of schedulers you last viewed in the module. The <u>Favorites menu</u> displays the list of schedulers you most recently marked as favorites in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
	Opens the edit view layout to create a new scheduler
	Opens the list view layout to search and display schedulers

Creating Schedulers

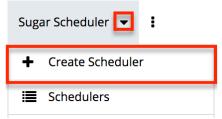
There are various methods for creating schedulers in Sugar including via the Schedulers module and via duplication. The full edit view layout opens when creating the scheduler directly from the Schedulers menu and includes all of the relevant fields for your organization's schedulers. Schedulers can be created for built-in jobs within the application or they can be created to call a URL outside of Sugar.

Creating via Schedulers Module

One of the most common methods of scheduler creation is via the Create Scheduler option in the Sugar Scheduler module tab. This opens up the edit view layout which allows you to enter all the relevant information for the scheduler.

Use the following steps to create a scheduler via the Scheduler module:

- 1. Navigate to Admin > Scheduler.
- 2. Click the triangle in the Sugar Scheduler module tab and select "Create Scheduler".



3. Enter appropriate values for the <u>fields</u> in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.

Note: For more information on setting the advanced options for the interval, please refer to the <u>Advanced Options</u> section.

4. Once the necessary information is entered, click "Save".

Create

Save C	ancel			
Job Name: *	Refresh Jobs	Status:	Active	*
Job:	Refresh Jobs	\$		

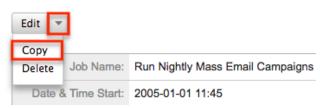
Creating via Duplication

You can also create a new scheduler by duplicating an existing scheduler record. The Copy option is useful if the scheduler you are creating has similar information to an existing scheduler.

Use the following steps to create a scheduler by duplicating an existing record:

- 1. Navigate to a scheduler record's detail view.
- 2. Select "Copy" from the Actions menu.

Run Nightly Mass Email Campaigns 😭



3. The displayed edit view is pre-populated with the original scheduler's values. Update the necessary fields, then click "Save". For more information on setting the advanced options for the interval, please refer to the <u>Advanced Options</u> section.

Create

Save	Cancel		
Job Na	ime: *	Run Nightly Mass Tasks	

Viewing Schedulers

There are various options available for viewing scheduler records in Sugar including via Schedulers list view, Schedulers detail view, and Schedulers Recently Viewed menu.

Viewing via List View

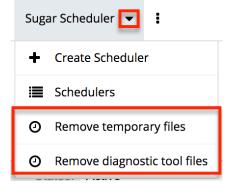
The Schedulers list view displays all scheduler records meeting the current search criteria. To access the list view, simply click the Schedulers module tab. While list view shows key scheduler fields, you can click the scheduler's name to open the record in detail view. For more information on viewing scheduler via list view, please refer to the <u>Schedulers List View</u> section.

Viewing via Detail View

The Schedulers detail view displays thorough scheduler information including all scheduler fields followed by the log records of when this scheduler has run. The detail view can be reached by clicking a scheduler record's link from anywhere in the application including from the Schedulers list view. For more information on viewing scheduler via detail view, please refer to the <u>Schedulers Detail View</u> section.

Viewing via Recently Viewed

As you work, Sugar will keep track of which scheduler you have recently viewed. Click the triangle in the <u>Sugar Scheduler module tab</u> to see a list of the three schedulers you most recently viewed. Clicking the scheduler name will open the scheduler in detail view.



Searching Schedulers

The Schedulers list view includes a Basic Search to help you locate records easily and effectively in a module-specific manner. Once the search is performed, the relevant results will be displayed in the Schedulers list view below. Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %services). This will pull up any record that has the word "services" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used in the different methods, please refer to the <u>Search</u> documentation.

Basic Search offers a few, commonly used fields for a simplified search experience. The buttons in Basic Search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.

Schedulers

Job Name Once the search is complete, the relevant results will populate in the <u>list view</u> below the search panel. To see all scheduler records, simply click "Clear" and then "Search" to perform a blank search with no filters.

Schedulers List View

The Schedulers list view displays all scheduler records meeting the current search criteria. You can view the basic details of each scheduler within the field columns.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel, you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation.

Job Name	Search Clear	(?)
Delete 💌		(K) (1 - 13 of 13)

Checkbox Selection

You can perform several actions on scheduler records directly from the list view by first selecting the desired records. To select individual scheduler records on the Schedulers list view, mark the checkbox on the left of each row. To select or deselect multiple scheduler records in the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of scheduler results.
- **Select All** : Selects all records in the current search results across all pages of scheduler results.
- **Deselect All** : Deselects all records that are currently selected.

🗆 🗸 Delete 💌	Selected: 2
Select This Page (13)	e r ⇔
Select All (13) Deselect All	rnal Update
	text Index
🗹 🏠 🧭 Prune 🛛	Database on 1st of Month
🗹 🏠 🖉 Update tracker_sessions Table	

Actions Menu

The Actions menu to the right of the checkbox dropdown allows you to perform various actions on the currently selected records.

	Delete Selected: 2
	Mass Update 🧃 🔤
0 \$	rnal Update
0 🟠	Run Full-text Index
Ø 😭	Prune Database on 1st of Month
☑ ☆	Ø Update tracker_sessions Table

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Delete	Delete one or more schedulers at a time
<u>Mass Update</u>	Mass update one or more schedulers at a time
Export	Export one or more schedulers to a CSV file

Favorite Designation

Users have the option to mark scheduler records as favorites via the list view as well as the detail view. This allows users to designate records that are important or will be viewed often so that they can easily be accessed via search or from the Schedulers module tab. In the Schedulers list view, the star on the left of each schedule's row is yellow once marked to indicate a favorite schedule. For more information on marking records as favorites, please refer to the Favoriting Schedulers section of this documentation.

	Scheduler \Leftrightarrow
□ ☆ ⊘	Run Full-text Index
0 😭 🖉	Prune Database on 1st of Month

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time.

Scheduler 🔤	Interval	Range ⇔
🕞 😭 🧭 Run Full-text I	dex As often as possible.	04/26/2013 01:45p

Schedulers Detail View

The Schedulers detail view displays thorough scheduler information including all scheduler fields which are grouped by default into the Overview, More Information, and Other panels. You can also view a scheduler's log which appears in beneath the scheduler fields. The detail view can be reached by clicking a scheduler record's link from anywhere in the application including from the Schedulers list view.

Actions Menu

The Actions menu on the top left of each scheduler's detail view allows you to perform various actions on the current record. Administrator users can change the action items to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on configuring the actions menu, please refer to the <u>System</u> documentation.

Run Nightly Mass Email Campaigns 😭

Edit	3	
Copy Delete	Job Name:	Run Nightly Mass Email Campaigns
beiete	Date & Time Start:	

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit this scheduler
Copy	Duplicate this scheduler
Delete	Delete this scheduler

Favorite Designation

Users have the option to mark scheduler records as a favorite via the detail view as well as the list view. This allows users to designate records that are important or will be viewed often so that they can easily be accessed via search or from the Schedulers module tab. In the Schedulers detail view, the star on the right of the scheduler's name is yellow once marked to indicate a favorite scheduler. For more information on how to mark records as favorites, please refer to the Favoriting Schedulers section of this documentation.

Prune Database on 1st of Month

Edit 💌	
Job Name:	Prune Database on 1st of Month
Date & Time Start:	01/01/2005 02:30pm
Date & Time End:	12/31/2020 06:59pm

Next or Previous Record

On the upper right of the Schedulers detail view, there are two buttons that allow you to page through each scheduler in the Schedulers list view's current search results. Clicking the Previous button displays the previous scheduler of the current search results while clicking the Next button displays the next scheduler of the current search results. The text in between shows which scheduler result you are currently viewing within the total number of current results.

Prune Database on 1st of Month 🚖

Edit	-



Job Log

Beneath a schedule record's fields is a subpanel containing the logs of when the scheduler has run. Each record will contain a Job Status field indicating the outcome of the job and an Execute Time field to show when the job started.

		K (1 - 10	of 11) 🔊 河
Job Name	Job Status 🖨	Execute Time 🝦	Date Modified $\ensuremath{\ominus}$
Process Workflow Tasks	done	04/26/2013 05:30pm	04/26/2013 05:30pm
Process Workflow Tasks	done	04/26/2013 05:29pm	04/26/2013 05:29pm
Process Workflow Tasks	done	04/26/2013 05:28pm	04/26/2013 05:28pm

Editing Schedulers

Schedulers may be edited at any time to update or add information to the record. You can make changes to existing scheduler records via the Schedulers edit view and quick-create forms. Edit view is available within the Schedulers module and includes all of the Scheduler fields you should need.

Process Workflow Tasks » Edit

Save Cancel			
Job Name: *	Process Workflow T	asks	
Job:	Process Workflow	Fasks	\$
Advanced Options:			
Interval: *	Every 1 🕈 Minutes 🗘	 ✓ Every Day ✓ Monday ✓ Tuesday ✓ Wednesday 	I Thursday I Friday I Saturday I Sunday

Quick Create is available for editing schedulers from outside the Schedulers module and opens as a pop-up without navigating away from your current page. It generally contains fewer fields, but the Full Form button may be used to access the full edit view should you need to edit additional fields.

Schedul	ers			
Job Name	•	Search	Clear	
	Prune Database on 1s	t of Month		
	Job Name: *	Prune Database on	1st of Montł	
	Job:	Prune Database or	n 1st of Month	\$
	Advanced Options: Interval: *			
□ ☆	interval.	Every 12 ¢ Hours ¢	of Every Day of Monday of Tuaaday	I Thursday I Friday I Saturday
			of Tuesday I Wednesday	of Saturday I Sunday
0 \				
0 🏠	Save Cancel	Full Form		

For more information on setting the advanced options for the interval, please refer to the <u>Advanced Options</u> section.

Editing via Detail View

You can edit schedulers via the detail view by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve your changes.

Prune Database on 1st of Month 😭



Editing via List View

You can edit schedulers via the list view by clicking the Pencil icon to the left of each scheduler's name. A pop-up window will open with the quick create form which is a shortened version of the edit view layout. Update the necessary fields, then click "Save" to preserve your changes.

Scheduler 🔶	Interval
🕞 🏠 🕜 Run Full-text Index	As often as possible.

Deleting Schedulers

If a scheduler record is invalid and should no longer appear in your organization's Sugar instance, it may be deleted from either the Schedulers detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once.

Note: If you wish to disable a scheduler but do not want to delete it, you can set the status to Inactive and it will not run.

Deleting via Detail View

Use the following steps to delete a scheduler record via the detail view:

- 1. Navigate to a scheduler record's detail view.
- 2. Select "Delete" from the Actions menu. Prune Database on 1st of Month 😭

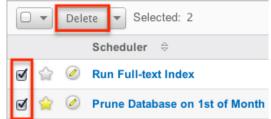
Edit 💌]	
Сору	[
Delete	Job Name:	Prune Database on 1st of Month
Date &	Time Start:	2005-01-01 10:00

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Mass Deleting via List View

Use the following steps to delete one or more scheduler records via the list view:

- 1. Navigate to the Schedulers list view by clicking the Schedulers module tab.
- 2. Use the <u>Search</u> to find the scheduler records you wish to delete.
- 3. Select the desired scheduler records individually or using the <u>checkbox</u> <u>dropdown's</u> options.
- 4. Choose "Delete" from the Actions menu.



5. A pop-up message will display asking for confirmation. Click "Ok" to

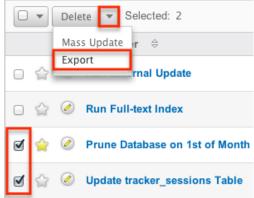
proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of scheduler records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Exporting Schedulers

Sugar's Export option allows users to download all fields for the selected schedulers to their computers as a .CSV (comma-separated values) file. This may be useful when needing to use Scheduler data with other software such as Microsoft Excel. Due to PHP memory limitations on the server, there may be occasions when the application times out while exporting a large number of scheduler records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Schedulers may be exported from the Schedulers list view by selecting "Export" from the Actions menu.



Mass Updating Schedulers

Mass updating allows users to make the same change to multiple scheduler records at once from the Schedulers list view. Currently, only fields with the data type of date, datetime, dropdown, multiselect, and radio may be altered during a mass update. Due to the PHP memory limitations on the server, there may be occasions when the application times out while mass updating a large number of scheduler records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Use the following steps to mass update scheduler records from the list view:

1. Navigate to the Schedulers list view by clicking the Schedulers module tab.

- 2. Use the list view's <u>Search</u> to find schedulers you wish to modify.
- 3. Select the desired schedulers individually or using the <u>checkbox</u> <u>dropdown's</u> options.
- 4. Choose "Mass Update" from the Actions menu.

	•	Delete Selected: 2
		Mass Update 🔐 👄
		Export rnal Update
	습	Run Full-text Index
ø	ŵ	Prune Database on 1st of Month
ø	습	Ø Update tracker_sessions Table

 Scroll to the Mass Update panel and set values for the fields you wish to alter.
 Mass Update

Job	-none-	Date & Time Start	
Date & Time End		Advanced Options	-none-
Last Successful Run	(mm/dd/yyyy)	Status	-none- 😫
Execute If Missed	-none-		
Update Cancel			

6. Click "Update" to save the changes to all of the currently selected scheduler records.

Favoriting Schedulers

Each Sugar administrator has the option to designate their own favorite schedulers that are important or will be viewed often. Once records are marked as favorites, you can select your most recent favorites directly from the <u>Sugar Scheduler</u> <u>module tab</u>.

Favoriting via List View

Use the following steps to mark records as favorites via the Schedulers list view:

- 1. Navigate to the Schedulers list view by clicking the Schedulers module tab.
- 2. Use <u>Search</u> to find the scheduler records you wish to mark as favorites.
- 3. Click the star icon on the left of each desired scheduler's row.
- 4. To remove the scheduler as a favorite, click the star again to revert it to

wh	ite.			
			Scheduler 🔤	Interval
	Ŷ	\oslash	Prune Database on 1st of Month	On the hour; 04:00am; 1st
	슯	0	Run External Update	As often as possible.

Favoriting via Detail View

Use the following steps to mark records as favorites via the Schedulers detail view:

- 1. Navigate to a scheduler record's detail view.
- 2. Click the star icon to the right of the scheduler's name in the upper left of the detail view to designate it as a favorite.
- 3. To remove the scheduler as a favorite, click the star again to revert it to white.

Prune Database	on 1st of Month 😭
Edit 💌	
Job Name:	Prune Database on 1st of Month
Date & Time Start:	01/01/2005 02:30pm
Date & Time End:	12/31/2020 06:59pm

Advanced Options

From the edit view of a scheduler, you can select the Advanced Options checkbox to refine the interval of the scheduler as well as configure the Advanced Options panel.

Job Name: *	Prune Tracker Tables
Job:	Prune Tracker Tables 🗘
Advanced Options:	
Interval: *	min hrs date mo day
	0 2 1 * *
	The above uses standard crontab notation.
Advanced Option	S
Execute If Missed:	(i) d
DIAT: OLIT	
Date & Time Start: *	2005-01-01 02 ¢ : 45 ¢ pm ¢

This opens up the crontab notation for the interval field. Crontab notation gives administrators more flexibility to define when and how often the scheduler runs. Crontab notation allows you to enter a value for each time part for the job to run on. You can specify complex values by using the following notations:

Character	Description
*	Asterisk is used to represent every value for the specified time part. For example, * in the mins field will run every minute.
/	Forward slash is used to represent increments. For example, */15 in the mins field will run every 15 minutes. 30/5 in the mins field will run starting at the 30th minute of the hour and every 5 minutes after.
,	Comma is used to specify multiple values. For example, 18,20 in the hrs field will run at 6:00 PM and 8:00 PM.
-	Hyphen is used to specify a range of values. For example, 1-6 in the mo field will run from January through June.

Specify the values to run in the following interval fields using crontab notation:

- **min** : Specify the minute of the hour to run on (0-59).
- **hrs** : Specify the hour of the day to run on (0-23).
- **date** : Specify the day of the month to run on (1-31).
- **mo** : Specify the month of the year to run on (1-12).
- **day** : Specify the day of the week to run on (0-6).

You may specify any combination of the fields to create the schedule needed to run the job.

Setting up Cron Scheduler

In order for the schedulers to run at the designated times, there needs to be a process running on the server to initiate the schedulers. This backend process will call the cron.php file in Sugar with some specific parameters, and the cron.php file will execute the schedulers as necessary.

Sugar instances hosted on Sugar's cloud service have the cron scheduler set up automatically, but it must be configured for on-site instances. In UNIX systems (MAC and Linux) you can configure crontab to run the schedulers. Navigate to Admin > Scheduler to get the system information necessary to set up the crontab.

 To Setup Crontab

 Note: In order to run Sugar Schedulers, add the following line to the crontab file:

 * * * * * cd /var/www/sugar123; php -f cron.php > /dev/null 2>&1

Note: The scheduler is throttled by default to prevent it from running more often than every 30 seconds. This value is configurable by setting the \$sugar_config['cron']['min_cron_interval'] value in the config_override.php file.

Setting Up in Unix/Linux

Use the following steps to set up crontab to run the Sugar schedulers:

1. From a command prompt, execute the following command:

crontab -u apache -e

- 2. The text editor will launch as the user "apache". If your web server is running under a different user, please adjust the line accordingly.
- 3. Add the commands displayed on the Admin > Schedulers page of your Sugar application into the crontab file:

* * * * * cd /var/www/sugar123; php -f cron.php > /dev/null 2>&1

Note: Make sure that the path to the root directory of Sugar and to PHP is correct.

4. Save the changes to the file. This will run the cron job every minute.

You can check crontab to see what commands are being run by executing the following command:

```
crontab -u apache -l
```

Last Modified: 2020-04-03 14:51:54

PDF Manager

Overview

The PDF Manager is used to create and manage templates for generated PDF files for any deployed module, custom or standard. Sugar comes with two PDF templates out of the box (Quote and Invoice).

Note: Legacy Quote PDF Templates (custom Quote templates created through code customizations) are not displayed in the PDF Manager but are still available in the Quotes module provided the templates were built off the TCPDF engine.

PDF Manager Fields

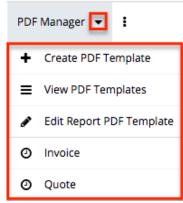
The PDF Manager module contains a number of stock fields which come out-of-thebox with Sugar. The below definitions are suggested meanings for the fields, but the fields can be leveraged differently to best meet your organization's needs.

Field	Description
Author	The author name to be placed in the PDF properties
Description	A description or other information about the template
Footer Text	The text to be placed in the template's footer
Header Logo File	Click "Choose File" to upload a header image to the template Note : The image will display as 454 pixels wide by 45 pixels high; the uploaded image should be sized relative to these dimensions.
Header Text	The text to be placed in the template's header

Header Title	The title of the template header
Keyword(s)	The keywords to be placed in the PDF properties
Module	The module this template will work in Note : Once a template is created, the module cannot be changed.
Name	The name or designation of the template
Published	Determines if a template is available to users or not
Subject	The subject to be placed in the PDF properties
Teams	The Sugar team(s) assigned to the template record
Template	The content of the template
Title	The title to be placed in the PDF properties

PDF Manager Module Tab

The PDF Manager module tab can be accessed by navigating to the Administration page and clicking "PDF Manager" in the System section. Once in the PDF Manager list view, you can click the triangle in the PDF Manager module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of templates you last viewed in the module. Please note that clicking the module tab allows you to access the PDF Manager list view.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Create PDF Template	Opens the edit view layout to create a

	new template
<u>View PDF Templates</u>	Opens the list view layout to search and display templates
Edit Report PDF Template	Opens the edit view layout to modify the report template

Creating PDF Templates

There are various methods for creating PDF templates in Sugar including via the PDF Manager module and duplication. The full edit view layout opens when creating the template directly from the PDF Manager menu and includes all of the relevant fields for your organization's templates.

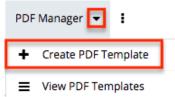
Note: It is generally recommended to create a new template via duplication and then modify the copy to suit your needs.

Creating Via PDF Manager Module

You can create a new template via the Create PDF Templates option in the PDF Manager module tab. This opens up the edit view layout which allows you to enter all the relevant information for the template.

Use the following steps to create a template via the PDF Manager module:

- 1. Navigate to Admin > PDF Manager.
- 2. Click the triangle in the PDF Manager module tab and select "Create PDF Template".



- 3. Enter appropriate values for the <u>fields</u> in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.
- 4. Once the necessary information is entered, click "Save".

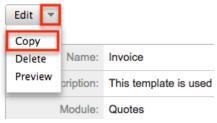
Create	
Save	
Name: *	Account Sheet
Description:	Displays account information
	Displays account mormation
Module: \star 🧃	Accounts 💠

Creating Via Duplication

You can also create a new template by duplicating an existing template record. The Copy option is useful if the template you are creating has a similar layout to an existing template.

Use the following steps to create a template by duplicating an existing record:

- 1. Navigate to a template record's detail view.
- 2. Click "Copy" from the Actions menu.
 - Invoice



3. The displayed edit view is pre-populated with the original template's values. Update the necessary <u>fields</u>, then click "Save".

Create

Save	21	
Name: *	Pro Forma Inv	oice
Description:	This template is	s used to print
Module: \star 🧃	Quotes	\$

Note: If you change the module field during duplication, you will have to remove all variable references to the old module in the layout before saving.

Creating Content

The PDF template can contain images and HTML formatting as well as variable fields from the assigned module. TincyMCE is the rich text editor for formatting your template using HTML. For more information on using TinyMCE, please refer to the <u>TinyMCE</u> section in the User Interface in the Application guide.

To add variable fields from the assigned module, simply select the desired field from the Field dropdown and then click "Insert".

Module: *	Quotes \$	P
	Fields	
Field: (i)	 Actual Close Date 	Insert
	Billina Address	

The variable will be placed wherever your computer's cursor is located in the template and can be moved around as necessary.

Note: The Link section provides all one-to-one and one-to-many relationships to provide linked data in the template.

For modules that have a subset of data in the template (e.g. Product line items in Quotes), there are special containers in the template that indicate where the repeating areas start and stop. These containers are designated by the following commands:

- **Start** : {foreach from=\$product_bundles item="bundle"}
- **End** : {/foreach}

Note: These lines are important and if removed can cause errors when generating a PDF. If you encounter an error when generating a PDF, we recommend checking the template for these start and end placeholders.

To add images to a PDF template, simply select the image icon in the toolbar. Fill out the image details (Image URL, Alignment, Dimensions, Border, etc.) in the Insert/Edit Image dialog then click "Insert".

Name: *	SugarCRM Template		Teams: *	▶ +	Primary
				Global	۲
Description:				1	
Module: * 🧃	Contacts		Published: (j)	Yes 🜲	
Field: (j)	Alternate Address City	Insert			
Template: 🧃	HTML @ B <i>I</i> <u>U</u> ABC 🗮	\overline arr 🔤 📄 🛕 🗸 🎂 🖌 Styles	▼ Paragraph	▼ Font Family ▼ Font Size	-
	🕺 🗈 🕰 🔯 🛍 🚳 🗚 🔇	🎄 🗄 🗮 🚝 🚝 🗺 📢	🗷 ٽ 🔅 🗠 🔊 ا	X ₂ X ² Ω 誧	
	📓 🗃 📰 3 ^e 🔍 🔤 🖏	n m ² ¥ 🖩 🗎 🖛 — 🖉 I	🗊 🕒 🖻 🖄 🌮 👘		

Note: Images cannot be copied and pasted or dragged and dropped into a PDF

template. The image icon must be used to insert an image.

Viewing PDF Templates

There are various options available for viewing template records in Sugar including via PDF Manager list view, PDF Manager detail view, and PDF Manager Recently Viewed menu.

Viewing Via List View

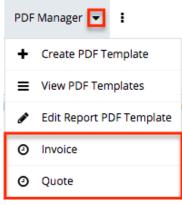
The PDF Manager list view displays all template records meeting the current search criteria. To access the list view, simply click the PDF Manager module tab. While list view shows key template fields, you can click the template's name to open the record in detail view. For more information on viewing templates via list view, please refer to the <u>PDF Manager List View</u> section.

Viewing Via Detail View

The PDF Manager detail view displays thorough template information including all template fields. The detail view can be reached by clicking a template record's link from anywhere in the application including from the PDF Manager list view. For more information on viewing templates via detail view, please refer to the <u>PDF</u> <u>Manager Detail View</u> section.

Viewing Via Recently Viewed

As you work, Sugar will keep track of which templates you have recently viewed. Click the triangle in the <u>PDF Manager module tab</u> to see a list of the 3 templates you most recently viewed. Click the template's name from the list to open it in detail view.



Searching PDF Templates

The PDF Manager list view includes a Basic Search to help you locate records easily and effectively in a module-specific manner. Once the search is performed, the relevant results will be displayed in the PDF Manager list view below. Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %services). This will pull up any record that has the word "services" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used in the different methods, please refer to the <u>Search</u> documentation.

Basic search offers a few, commonly used fields for a simplified search experience. The buttons and checkboxes available in Basic Search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.

Search PDF Manager

Name		Accounts Bug Tracker Calls	Published	Yes No	Teams	KX Search Clear ?
		Campaigns Cases				

When you run a search, Sugar will return records matching all (as opposed to any) of the fields and checkboxes for which you have given a value. For example, if you select a module and enter a template name, Sugar will only return template records with a matching name that are assigned to that module. Once the search is complete, the relevant results will populate in the <u>list view</u> below the search panel. To see all template records, simply click "Clear" and then "Search" to perform a blank search with no filters.

PDF Manager List View

The PDF Manager list view displays all template records meeting the current search criteria. You can view the basic details of each template within the field columns.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation in the Administration guide.

Name	Accounts Bug Tracker Calls Campaigns Cases Contacts	Published	Yes No	Teams	Search Clear 3
Delete 💌					(1 - 4 of 4) ())

Checkbox Selection

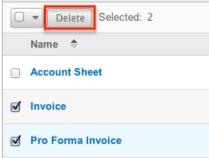
You can perform several actions on template records directly from the list view by first selecting the desired records. To select individual template records on the PDF Manager list view, mark the checkbox on the left of each row. To select or deselect multiple template records on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of PDF template results.
- **Select All** : Selects all records in the current search results across all pages of PDF template results.
- **Deselect All** : Deselects all records that are currently selected.

	Delete Selected: 2		
S	Select This Page (4)		
S	Select All (4)		
D	Deselect All		
ø	Invoice		

Actions Menu

The Actions menu to the right of the checkbox dropdown typically allows you to perform various actions on the currently selected records.



The only action available from the PDF Manager list view is the following operation:

Menu Item	Description
Delete	Delete one or more templates at a time

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time.

Name 🗢	Module 🔤	Published 🔤	Date Created ⇔
Account Sheet	Accounts	Yes	04/22/2013 11:19am

PDF Manager Detail View

The PDF Manager detail view displays thorough template information including all template fields which are grouped by default into the Overview and PDF Document Properties panels. The detail view can be reached by clicking a template record's link from anywhere in the application including from the PDF Manager list view.

Actions Menu

The Actions menu on the top left of each template's detail view allows you to

perform various actions on the current record. Administrator users can change the action items to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on configuring the actions menu, please refer to the <u>System</u> documentation in the Administration guide.

Edit 💌		
Copy Delete	Name:	Invoice
Preview	cription:	This template is used
	Module:	Quotes

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit this template
Сору	Duplicate this template
<u>Delete</u>	Delete this template
Preview	Preview this template

Next or Previous Record

On the upper right of the PDF Manager detail view, there are two buttons that allow you to page through each template in the PDF Manager list view's current search results. Clicking the Previous button displays the previous template of the current search results while clicking the Next button displays the next template of the current search results. The text in between shows which template result you are currently viewing within the total number of current results.

Pro Forma Invoice



Editing PDF Templates

Templates may be edited at any time to update or add information to the record. You can make changes to existing template records via the PDF Manager edit view. Edit view is available within the PDF Manager module and includes all of the template fields you should need.

Pro Forma Invoice » Edit

Save		
Name: *	Pro Forma Invoice	
Description:	This template is used to print a pro forma	
Module: \star 🧃	Quotes 🗳	

Editing Via Detail View

You can edit templates via the <u>detail view</u> by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve your changes.

Pro Forma Invoice

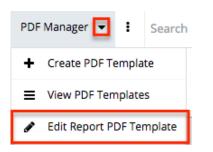


Name:	Pro Forma Invoice	
Description:	This template is used to print apro forma	
Module:	Quotes	

Editing Report PDF Template

The Report PDF Template is used when generating a report as a PDF. The report template may be edited at any time to include your company's logo. This logo displays in the header for all Report PDF files. The image will display as 454 pixels wide by 45 pixels high; the uploaded image should be sized relative to these dimensions.

You can edit the report template via the <u>detail view</u> by selecting the Edit Report PDF Template option from the PDF Manager module tab.



Once the edit view layout opens, update the necessary fields, then click "Save" to preserve your changes.

Report PDF Template

Save	Cancel	
Document	Properties	
Title:		Report generated from SugarCRM
Author: *		SugarCRM

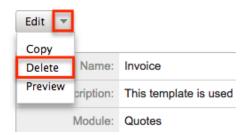
Deleting PDF Templates

If a template record is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from either the PDF Manager detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once.

Deleting Via Detail View

Use the following steps to delete a template record via the detail view:

- 1. Navigate to a template record's detail view.
- 2. Select "Delete" from the Actions menu. Invoice



3. A pop-up message will display asking for confirmation. Click "Ok" to

proceed.

Mass Deleting Via List View

Use the following steps to delete one or more template records via the list view:

- 1. Navigate to the PDF Manager list view by clicking the PDF Manager module tab.
- 2. Use the <u>Basic Search</u> to find the template records you wish to delete.
- 3. Select the desired template records individually or using the <u>checkbox</u> <u>dropdown's</u> options.
- 4. Choose "Delete" from the Actions menu.

Delete Selected: 2
Name 🗢
Account Sheet
Invoice
Pro Forma Invoice

5. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of template records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Adding a Header Image to PDF Template

Image files can easily be uploaded from your local machine to be used as a header image on a PDF template. After uploading and saving the image to the template's Header Logo File field, it will be shown on the PDF generated by users in Sugar.

Header images will display as 454 pixels wide by 45 pixels high, so the uploaded image should be sized relative to these dimensions (e.g. 908x90 or 1816x80).

After saving an appropriately sized image file to your computer, use the following steps to add the header image to the PDF template:

- 1. Create a <u>new PDF template</u> or open up an existing template via Admin > PDF Manager.
- 2. Click the "Choose File" button in the Header Logo File field to open a file

Terralates (3)	
Template: (j)	HTTTL 🕐 B I U ABC E E E E A • 🌺 • Styles • Paragraph • Font Family • Font Size •
	🔏 🛍 🛍 🏙 🏙 🕌 品 🎼 汪 [三] 寧 寧 Μ 💶 🧊 🔍 ∞ 👾 🔱 🗶 ×. ×' Ω 🎟
	📓 🔤 💷 3° 🛼 🗁 🦏 🖓 🖞 🎬 🛅 🖛 — 📿 🔯 🧿 🖄 🂝
Header Title:	Header Text:
Header Logo File:	Choose File No file chosen Footer Text:

selection window from your browser.

3. Select the image file from your local machine then click "Open" to add the image.

Please note that you must save then <u>preview the PDF template</u> in order to view the inserted header image.

Previewing PDF Templates

Previewing PDF templates allows you to see what the template will look like before publishing it in Sugar. The preview option displays the PDF template with the database field names and not actual data values and is accessible from the detail view.

Use the following steps to preview a template via the detail view:

- 1. Navigate to a template record's detail view.
- 2. Select "Preview" from the Actions menu. Invoice

Edit 💌		
Copy Delete	Name:	Invoice
Preview	cription:	This template is used
	Module:	Quotes

3. The PDF will download to your computer for viewing.

Web Logic Hooks

Overview

Web logic hooks allow you to establish events on a per module basis for Sugar to send data from the record in focus to an external URL so that additional processing can be completed outside the Sugar application. When a Web Logic Hook is triggered, the data is not sent instantaneously. Rather, the data is queued and processed under the Dispatch Web Logic Hook scheduled job. Once the job is processed through a regular scheduler run, the data for the record that triggered the hook is transmitted to the designated URL in a JSON format for further processing. This can allow you to send this data to other applications within your organization or to manipulate the data and transmit it back to Sugar via the REST API.

Web Logic Hook Fields

The Web Logic Hooks module contains a number of stock fields which come out-ofthe-box with Sugar. The below definitions are suggested meanings for the fields, but the fields can be leveraged differently to best meet your organization's needs.

Field	Description
Module Name	The module that the web logic hook will trigger off when the trigger event occurs in that module
Name	The name of the web logic hook
Request Method	The HTTP request method that the web logic will utilize to call out to the specified URL
Trigger Event	The event that must occur in order for the web logic hook to process
URL	The URL that will receive the data transmitted by the web logic hook
	Note : This URL should be a URL outside of your SugarCRM instance. If you have

Working With Web Logic Hooks

The Web Logic Hooks module uses Sugar's Sidecar user interface. The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this table describe behaviors and functionality specific to the Web Logic Hooks module.

tion		
The Creating Records section covers the various methods of creating new web logic hook records, including via the Create button in the Web Logic Hooks module and duplication of an existing web logic hook record.		
ving Records section describes ous methods of viewing web ok records, including via the list d record view, the Recently menu in the module tab, and ing records in the right-hand el.		
rching for Records section an introduction to the list view of method which searches and ithin the Web Logic Hooks to locate Sugar records.		
View section walks through the ements of the List View layout, ontains a filterable list of all in the current module. While the menu options are described in r Interface sections linked to the options specifically available in view are described in the List ass Actions Menu and List View Actions Menu sections of this		
1		

Record Actions Menu More Web Logic Hooks Dashboards Web Logic Hooks Record View Next or Previous Record Actions Menu Show More Dashboards	The Record View section walks through the many elements of the Record View layout, which contains detailed information about a single web logic hook record. While the generic menu options are described in the User Interface sections linked to the left, the
	options specifically available in the Web Logic Hooks record view are described in the <u>Record View Actions Menu</u> section of this page.
Editing Web Logic Hooks Editing Inline Via Record View Editing Via Record View Editing Inline Via List View Mass Editing Via List View Editing Fields	The Editing Records section describes the various methods of editing existing records, including inline via the Web Logic Hooks record view, in full edit mode on the record view, inline via the Web Logic Hooks list view, and via the Mass Update option on the list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records.
<u>Deleting Web Logic Hooks</u> <u>Deleting Via Record View</u> <u>Deleting Via List View</u> <u>Mass Deleting Via List View</u>	The Deleting Records section describes the various methods of deleting unwanted web logic hook records, including via the Web Logic Hooks record view, an individual record's Actions menu on the Web Logic Hooks list view, and the Mass Actions menu on the list view.
Exporting Web Logic Hooks	The Exporting Records section provides an introduction to the export functionality, which allows you to download a list of records and all their data as a .csv file for use outside of Sugar (e.g. in Microsoft Excel).
Finding Duplicate Web Logic Hooks	The Finding Duplicate Records section provides instructions for locating duplicate web logic hooks. If searching on matching fields (e.g. Name) identifies one or more duplicates, they can be merged into a single record.

<u>Merging Web Logic Hooks</u> <u>Merging Via List View</u>	The Merging Records section provides instructions for merging duplicate web logic hooks which will combine field values and related records into a single record.
Sharing Web Logic Hooks	The Sharing Records section provides instructions for the Share record view option, which composes an email with a link to the web logic hook record. If the recipient is logged into Sugar, clicking the link will bring them directly to the web logic hook's record view.

Web Logic Hooks Menus

The Web Logic Hooks module contains various options and functionality which are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation.

Module Tab Menus

The Web Logic Hooks module tab is typically located on the navigation bar at the top of any Sugar screen after selecting "Web Logic Hooks" from the admin screen. Click the tab to access the Web Logic Hooks list view. You may also click the triangle in the Web Logic Hooks tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important operations within the module. The <u>Recently Viewed menu</u> displays the list of web logic hooks you most recently viewed.

Web	D Logic Hooks 🔽 🚦
+	Create Web Logic Hook
≡	View Web Logic Hooks
0	New Relationship to Account
0	Sugar Contact Updates
0	Contact Updates

The module tab's Actions menu allows you to perform the following operations:

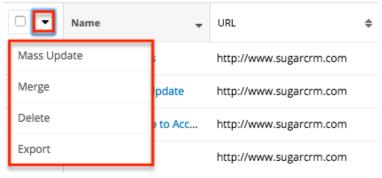
Menu Item	Description
<u>Create Web Logic Hook</u>	Opens the record view layout to create a new web logic hook
<u>View Web Logic Hooks</u>	Opens the list view layout to search and display web logic hooks

List View Menus

The Web Logic Hooks <u>list view</u> displays all web logic hook records and allows for searching and filtering to locate specific web logic hooks. You can view the basic details of each record within the field columns of the list view or click a web logic hook's name to open the record view. To access a module's list view, simply click the module's tab in the navigation bar at the top of any Sugar page.

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual web logic hook records or click the checkbox in the list header to select all records displayed on the current set of list view results.



The Mass Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Mass Update</u>	Mass update one or more web logic hooks at a time
<u>Merge</u>	Merge two or more duplicate web logic hooks
<u>Delete</u>	Delete one or more web logic hooks at a time

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual web logic hook directly from the list view.

Name 👻	URL	\$	Module Name	٠
Target List Hooks	http://www.sugarcrm.com		Target Lists	۰ -
Sugar Contacts Update	http://www.sugarcrm.com		Edit	
New Relationship to Acc	http://www.sugarcrm.com	L	Delete	

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this web logic hook in the intelligence pane
Edit	Edit this web logic hook
<u>Delete</u>	Delete this web logic hook

Record View Actions Menu

The Web Logic Hooks <u>record view</u> displays a single web logic hook in full detail including its fields. To access a web logic hook's record view, simply click a hyperlinked web logic hook name from the Web Logic Hooks list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.

Contact Updates		< > Edit -
URL	Module N	Share
http://www.sugarcrm.com	Contacts	Find Duplicates
Trigger Event After Save	Request N	Сору
Alter Save	F031	Delete

The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this web logic hook
<u>Share</u>	Share a link to this web logic hook via email
Find Duplicates	Locate potential duplicates of this web logic hook
Copy	Duplicate this web logic hook to create a new web logic hook
<u>Delete</u>	Delete this web logic hook

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Email

Overview

Sugar comes with many different email-related capabilities, many of which require an administrator to set up or configure. Email administration covers the system email settings, campaign email settings, email archiving, inbound email, and managing the email queue.

Email Accounts

Outgoing Email Accounts

There are three types of outgoing email accounts used in Sugar:

- <u>System Email Account</u>: The administrator sets up the system email account by configuring the System Email Settings. Sugar uses this account to send campaigns and email notifications such as password reset emails, record assignment notifications, and workflow alerts.
- **Default User Email Account** : A default email account is automatically created by Sugar for each user in Sugar. The default user account will use the primary email address stored in the user's profile. To use their default email accounts for sending email through Sugar, users must edit their profile and select "Sugar Email Client" as their outgoing email client. For more information on how users configure their user accounts, please refer to the <u>Emails</u> documentation in the Application Guide.
 - Note: The users' default email accounts may be affected by the "Allow users to use this account for outgoing email" option in Admin
 <u>System Email Settings</u>. If the administrator has enabled the option, users will not be able to configure their default email account and must instead utilize the system email account or create a new user email account. Users will see the system email account in the Outgoing Email Accounts list view with an asterisk to indicate that it is a system account.
- **User Email Accounts** : When enabled by the administrator, users can set up user email accounts through their Email Settings page.
 - Note: The user email accounts may be affected by the "Allow users to configure email accounts" option in Admin > System Email Settings. This option must be enabled (default) for users to see a Create button to create new outgoing email accounts when they navigate to Emails > Email Settings. For more information, please refer to the <u>Emails</u> documentation in the Application Guide.

Incoming Email Accounts

There are two types of incoming email accounts used in Sugar:

• <u>Group Mail Accounts</u>: Group inbound email accounts allow multiple users, such as team members, to view emails from an external mail account. When emails are addressed to your organization but not to any particular user, you can route it to a Group mail account such as support@example.com or sales@example.com. Users can subsequently distribute emails in the Group mail account to other team members. Emails received to a Group mail account will have no assigned user unless "<u>Create Case from Email</u>" has been enabled for the account.

- **Note**: Group Mail Accounts will only import unread messages from the mail server.
- <u>Bounce Handling Mail Accounts</u> : Bounce handling email accounts are configured to store campaign emails that are returned to the server, or "bounced" back to you due to incorrect email addresses or incompatible server settings on the receiving end. You can create a bounce handling inbox separately for each campaign, or you can create one that is common to all campaigns. The system tags every bounced campaign email with a unique identifier that enables you to identify the campaign.

System Email Settings

The System Email Settings section allows Sugar administrators to configure the system's outbound email settings as well as additional email and security options. Make any necessary changes in the sections below and click "Save" to commit the changes.

Email Settings



Outgoing Mail Configuration

The Outgoing Mail Configuration section contains details for sending email notifications, scheduled reports, workflow alerts, etc. Enter appropriate values for the following fields keeping in mind all required fields are marked with a red asterisk and must be completed prior to saving:

- **From Name** : The name outgoing email will come from; for example, the name of your organization. Defaults to "SugarCRM".
- **From Address** : The email address outgoing email will come from. Defaults to "<u>do_not_reply@example.com".</u>
 - **Note**: If specifying a different address than the email address associated with the account you are authenticating, the email server being utilized may need to be configured to allow the email account to send email as the entered From Address.
- **Choose Your Email Provider** : Choose your mail provider to populate provider-specific values.
- **SMTP Server** : The web address of the external email server Sugar will connect to.
- **SMTP Port** : The communication port number used for connecting to the mail server.

- Use SMTP Authentication? : Check this box to connect to the SMTP server using a user name and password. If left unchecked, the SMTP server must accept anonymous connections, which is not recommended.
- **Enable SMTP over SSL or TLS?** : Select the appropriate option from the dropdown to use Secure Socket Layer, Transport Layer Security, or no encryption when connecting to the mail server.
- **Email Address / Username** : Enter the email address or user name to connect to the SMTP server with.
- **Password** : Enter the password associated with the entered email address or user name.
- Allow users to use this account for outgoing email : Check this box if you would like users to be able to send emails using the same outbound mail account. If the option is not selected, users will still be able to use the outbound mail server to send emails by entering their personal mail account information in their user preferences. For more information on setting up the email settings in user preferences, please refer to the <u>Email</u> <u>Settings</u> section of the Getting Started documentation.

Once the appropriate mail server information is entered, you can send a test email to make sure it is configured properly. Click "Send Test Email", enter your email address, and send the test. If you do not receive the test email, re-enter the account information including the password to ensure it is all correct.

Outgoing Mail Configuratio	n		
Configure the default outgoing	mail server for sending email notifications	, including workflow alerts.	
"From" Name: *	MyCompany SugarCRM		
"From" Address: *	609.sugar.system@gmail.c		
Choose your Email provider			
Gmail Ya	hoo! Mail Microsoft Ex	change Other	
SMTP Mail Server: *	smtp.gmail.com	SMTP Port: *	587
Use SMTP Authentication:	Ø	Enable SMTP over SSL or TLS?	TLS \$
Gmail Email Address *	609.sugar.system@gmail.c		
Gmail Password *	••••		
Allow users to use this account for outgoing email:	e		
Send Test Email			

Email Options

The Email Options section provides some global options for email configuration. Check the box next to the desired options:

Note: Logged in users must log out and back in for changes to the following settings to take effect.

- Assignment Notifications : When enabled (default), Sugar will send email notifications to users automatically when records are assigned to them. When assigning a record to yourself, you will not receive a notification of the assignment.
 - **Note**: To receive notifications, users must also have "Notify on Assignment" checked in their user profile.
- Send notification from assigning user's e-mail address : Enable this option to have Sugar send notifications from the email address and name of the user who is assigning a record to another user. This option is disabled by default.
 - Note: The SMTP server being used must allow sending from a different email address than the authenticated account and the email account may need to be configured to allow the Send As permission. For more information, please refer to the following articles:
 - <u>Configuring "Send As" Permissions With Exchange</u>
 - <u>Configuring "Send As" Permissions With Office 365</u>
 - <u>Configuring "Send As" Permissions With Gmail</u>
- Allow users to configure email accounts : Determines whether users can create new outgoing email accounts. When enabled (default), users will see a Create button when they navigate to Emails > Email Settings.
- **Opt-out new email addresses by default** : Enable this option to mark new email addresses added to Sugar records as opted out by default. Please note that changing this setting will not affect already existing email addresses in Sugar. For more information on opted-out email addresses, please refer to the <u>Emails</u> documentation in the Application guide. **Note**: Email addresses that are marked as opted out cannot receive campaign emails.

Email Security Settings

The Email Security Settings section allows Sugar administrators to decide which HTML tags are allowed to be displayed in Sugar. The selected tags will not be allowed for viewing within Sugar. There are two options to mass set the tag selection:

• Select Outlook default minimum security settings : Select this option to automatically select every tag that Outlook also restricts. This will not strip the style tag which is used by default in Outlook. This option is

selected by default.

• **Toggle All Options** : Select this option to either select all tags or deselect all tags.

After selecting one of those options you can individually select or deselect additional tags to restrict or allow the tags respectively.

Email Security Settings				
Check the follo	Check the following that should NOT be allowed in via InboundEmail or displayed in the Emails module.			
Select Outlook	Select Outlook default minimum security settings (errs on the side of correct display).			
Toggle All Opt	Toggle All Options			
Applet tag	✓ <applet></applet>	Base tag	✓ <base/>	
Embed tag	✓ <embed/>	Form tag	✓ <form></form>	
Frame tag	✓ <frame/>	Frameset tag	✓ <frameset></frameset>	
iFrame tag	✓ <iframe></iframe>	Import tag	✓ <import></import>	
Layer tag	✓ <layer></layer>	Link tag	✓ <link/>	
Object tag	✓ <object></object>	Style tag	<pre>style></pre>	
Xmp tag	✓ <xmp></xmp>			

Related Contacts Emails

The Related Contacts Emails section allows administrators to enable or disable related contact's emails from appearing in the Emails subpanel and History dashlet for certain modules (Cases, Accounts, Opportunities). In order to have emails from related contacts appear in the Emails subpanel, simply mark the checkbox to the right of the module name (e.g. Opportunities). To disable related contact's emails from appearing in the Emails subpanel, uncheck the box for the specific module as necessary. Click "Save" to preserve the change.

Save Cancel			
Enable/Disable emails from related (or linked) contacts to show in Email Subpanel.:	Cases:	Accounts:	
	Opportunities:		

Campaign Email Settings

The Campaign Email Settings section allows Sugar administrators to configure some backend settings for sending campaign emails. Select the appropriate values for the following fields:

• Number of emails sent per batch : When the "Run Nightly Mass Email Campaigns" scheduler runs, it will send out the specified number of emails

for a single run. The default is set to 500. Some email servers have one or more of the following restrictions for a specific timeframe (e.g. hour, day, etc.): the number of unique recipients, how many times the same email can be sent to individual recipients, and the most common, how many emails can be delivered. This setting helps control the outgoing email to conform to these restrictions. For example, if your scheduler is set to run every hour, the number of emails to send per batch is set to 500, and you have 1600 emails to send out, starting at 2:00 AM the last batch of emails will be sent at 5:00 AM. Please check with your email provider to determine the proper level.

- Location of campaign tracking files : Campaign tracking files log responses from campaign targets. If you are running Sugar on an external network, select "Default" to accept the default location. However, if your Sugar instance is behind a firewall, then choose "User Defined" and specify the path to your external web server in the field below. The external web server must have the ability to connect to your Sugar instance behind the firewall. Ensure that you create a file named index.php to handle requests for three different types of entry points: campaign_trackerv2, removeme, and image, and place the index.php file in the path to your external web server. This index.php file must make the appropriate calls to the index.php file located in the root of your Sugar instance in order to properly record the activities in Sugar. For more information on how to setup a custom campaign tracker page, please refer to the <u>Using a Custom Page For</u> <u>Campaign Trackers</u> section of the Advanced Config Options documentation in the Administration guide.
- **Keep copies of campaign messages** : Set this option to "Yes" to keep a copy of every email sent during a campaign. If "No" is selected, the template is saved and one copy of the email is stored in the Emails module. The email record will have an empty To field but the recipients will be visible in the email's related records subpanels. The default is set to "No".
 - Note: Storing every email sent does take up space in the database and can reduce performance. We recommend setting this value to "No".

Outbound Email Options	
Number of emails sent per batch: *	500
Location of campaign tracking files (like campaign_tracker.php) *	Default User Defined
	Value of Config.php se
Keep copies of campaign messages: * (i)	⊖ Yes ●No

Make any necessary changes and click "Save" to commit the changes.

Campaign Email Settings

Email Archiving

The Sugar Email Archiving service allows users to easily archive email to Sugar records simply by sending the email to a special email address. The email archiving service monitors the email address and imports the email into your instance of sugar and links related records without the use of a plug-in or other syncing process.

This section explains how the administrator can enable the Sugar Email Archiving service. For complete steps to use Sugar Email Archiving once it is enabled, please refer to the <u>Emails</u> documentation in the Application Guide.

Enabling Email Archiving

Before you can use Sugar Email Archiving, you need to enable the service for your instance. Email Archiving can be enabled for multiple instances per license key, but each instance must be registered independently and receive its own, unique email address. If you clone an instance that has Email Archiving enabled, the clone will show as having Email Archiving enabled, but must have the service disabled and re-enabled in order to receive its own email address and start using the service. For further troubleshooting information, refer to the Troubleshooting the Sugar Email Archiving Service article.

Use the following steps to enable email archiving via the Administration page:

- 1. In the Email section of the administration page, Select "Email Archiving".
- 2. Read the Email Archiving feature description, Master Subscription Agreement, and privacy policy.
- 3. Select the checkbox to agree to the teams and click "Enable Email Archiving".

I agree to the above terms and the privacy agreement.



Note: Your instance needs to be reachable over the internet from SugarCRM's Email Archiving server. For more information, refer to the <u>Troubleshooting Sugar Email Archiving (SNIP) Activation</u> article.

4. The next screen displays the unique email address assigned to your instance for Email Archiving. Forward emails to this email address to automatically archive the messages to Sugar.

Disable Email Arch	iving Cancel
Status: 🕕	Enabled This Sugar instance is successfully connected to the Email Archiving server.
Email Archiving Address: (i)	od2testexample@sugarondemand.com

To begin using the email archiving service, please refer to the <u>Emails</u> documentation in the Application Guide. To turn off this feature, navigate to Admin > Email Archiving and click "Disable Email Archiving".

Note: If you disable and then re-enable Email Archiving, you will be assigned an archiving email address that is different than the one you were using before.

Inbound Email

Inbound Email allows external email to be pulled into Sugar. Inbound accounts can be configured as either <u>group email accounts</u> or <u>bounce email accounts</u>. Group inbound accounts can be configured to create case records in Sugar or send automatic replies to imported email. This section will cover how to use the Inbound Email module as well as the various actions and options available from within the module.

Note: The Check Inbound Mailboxes scheduler must be configured and running in order to retrieve inbound email messages in Sugar. For more information on setting up and configuring the inbound email scheduler, please refer to the <u>Schedulers</u> documentation.

Inbound Email Fields

The Inbound Email module contains a number of stock fields which come out-of-thebox with Sugar in order to configure inbound email accounts. The below definitions are the meanings for the available fields.

Field	Description
"From" Name and Address as the reply to address	Select this option if you want to enable users to use this account's From name and address as their Reply To address. Only available for Group Accounts and

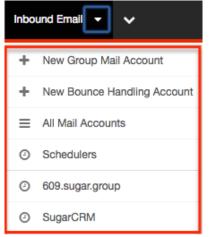
	defaults to not checked.
Assign To Teams	The Sugar team(s) assigned to the email record. Note : Users will only be able to see emails in group accounts as allowed by their team memberships.
Auto-Reply Template	Select an existing template or click "Create" to create a new one to send an automated response notifying email senders that you received their email. Note : If both Auto-Reply and Case Reply templates are selected, Sugar will respond to the sender with the Case Reply template only.
Create Case from Email	Select this option to create cases automatically from inbound emails. Only available for Group Accounts and defaults to not checked. For more information on creating cases via email, the distribution method, and case auto-reply, please refer to the <u>Creating Cases From Email</u> section.
Distribution Method	Only available if Create Case from Email is checked for a Group Account and allows you to select Round-Robin or Least-Busy for assigning the new cases.
From Address	The email address any outgoing email will come from. Defaults to the email address from your user profile.
From Name	The name outgoing email will come from; for example, the name of your organization. Defaults to your first and last name from your user profile.
Import Emails Automatically	Select this option to create email records automatically in Sugar for all incoming emails. Only available for Group Accounts and defaults to checked.
Leave Messages On Server	Select this option to not removed emails from the server. Only available for Group Accounts and defaults to Yes.
Mail Server Address	The web address of the external email

	server from which emails will be imported in Sugar.
Mail Server Port	The communication port number used for connecting to the mail server.
Mail Server Protocol	The mail protocol used to communicate with the mail server. IMAP is the default selection and provides the best functionality with Sugar.
Monitored Folders	The folders in your external account that Sugar will monitor. Inbox is selected by default. To select one or more folders to monitor click "Select" and then pick the folders in your external account for Sugar to monitor.
Name	The name or designation of the account.
New Case Auto-Reply Template	 Only available if Create Case from Email is checked for a Group Account and allows you to select or create an automated response template notifying email senders that a case has been created to resolve their issue. For more information on creating cases via email, the distribution method, and case auto-reply, please refer to the <u>Creating Cases From Email</u> section.
No Auto-Reply to this Domain	Enter the domain name to exclude a domain from receiving the automatic email response. It is common to specify your organization's domain to prevent auto-replies from being sent to your organization's members.
Number of Auto-responses	Set the maximum number of auto- responses to be sent to a unique email address during a period of 24 hours.
Password	Enter the password associated with the email address or username.
Reply-to Address	The email address that will receive any replies from your email. If left blank, replies will be sent to the From Address.
Reply-to Name	The name that will receive any replies from your email. If left blank, replies will be sent to the From Name.

Sent Folder	Select a folder from your external account to store any email being sent from that account through Sugar.
Status	The current status of the account (i.e. Active, Inactive).
Trash Folder	Select a folder from your external account to be designated as the trash folder. Sugar will place deleted emails into this folder on your external account.
Use SSL	Check this box to force the connection and communication between Sugar and the mail server to use a secure socket layer of encryption.
Username	Enter the email address or username used to connect to the SMTP server.

Inbound Email Module Tab

The Inbound Email module tab is typically located on the navigation bar at the top of any Sugar screen after selecting "Inbound Email" from the Admin page. Once in the Inbound Email list view, click the triangle in the Inbound Email module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of inbound email accounts you last viewed in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description

<u>New Group Mail Account</u>	Opens the edit view layout to create a new Group Mail Account
New Bounce Handling Account	Opens the edit view layout to create a new Bounce Handling Account
<u>All Mail Accounts</u>	Opens the list view layout to display all inbound mail accounts
Schedulers	Opens the list view layout to search and display schedulers

Creating Inbound Email Accounts

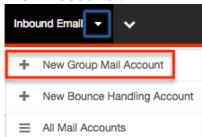
There are various methods for creating inbound email accounts in Sugar. The full edit view layout opens when creating the inbound account directly from the Inbound Email menu and includes all of the relevant fields for your organization's accounts.

Creating Group Mail Accounts

One of the most common methods of Group Mail Account creation is via the New Group Mail Account option in the Inbound Email module tab. This opens up the edit view layout which allows you to enter in all the relevant information for the group mail account. Please note that Group Mail Accounts will only import unread messages from the mail server.

Use the following steps to create a group mail account via the Inbound Email module:

- 1. Navigate to Admin > Inbound Email.
- 2. Click the triangle in the Inbound Email module tab and select "New Group Mail Account".



- 3. Enter appropriate values for the <u>fields</u> in the edit view layout. Note: If your mail account is using Gmail, click "Prefill Gmail[™] Defaults" to populate many fields with defaults to connect to Gmail.
- 4. Once the necessary information is entered, click "Save".

Save	Test Settings
Mail Account Information	
	<u>Prefill Gmail™ Defaults</u>
Name: *	Inbound Case Creation
Mail Server Address: *	imap.gmail.com
Mail Server Protocol: *	IMAP
Mail Server Port: *	993
Use SSL: (1)	1

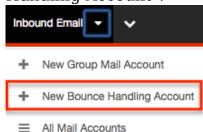
Optionally, click "Test Settings" to verify your entries.

Creating Bounce Handling Accounts

One of the most common methods of Bounce Handling Account creation is via the New Bounce Handling Account option in the Inbound Email module tab. This opens up the edit view layout which allows you to enter in all the relevant information for the bounce handling mail account.

Use the following steps to create a bounce handling account via the Inbound Email module:

- 1. Navigate to Admin > Inbound Email.
- 2. Click the triangle in the Inbound Email module tab and select "New Bounce Handling Account".



- Enter appropriate values for the <u>fields</u> in the edit view layout.
 Note: If your mail account is using Gmail, click "Prefill Gmail[™] Defaults" to populate many fields with defaults to connect to Gmail.
- 4. Once the necessary information is entered, click "Save".

Save Cancel	Test Settings
Mail Account Information	
	Prefill Gmail [™] Defaults
Name: *	Campaigns Bounce Account
Mail Server Address: *	imap.gmail.com
Mail Server Protocol: *	IMAP \$
Mail Server Port: *	993
Use SSL: (1)	I

Optionally, click "Test Settings" to verify your entries.

Note: You can also set up a bounce handling account from the Campaigns module. For more information, please refer to the <u>Campaigns</u> documentation in the Application Guide.

Creating Via Duplication

You can also create a new group mail or bounce handling account by duplicating an existing inbound email account record. The copy option is useful if the inbound email account you are creating has similar information to an existing inbound email account.

Use the following steps to create an inbound email account by duplicating an existing record:

- 1. Navigate to an inbound email account record's detail view.
- 2. Click "Copy".

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Edit	Сору	Delete]	
Mail A	ccount l	nformatio	on	
			Name:	609.sugar.group

3. The displayed edit view is pre-populated with the original account's values. Update the necessary fields, then click "Save".

6	09.sugar.group	
[Save Cancel	Test Settings
	Mail Account Information	
		Prefill Gmail™ Defaults
	Name: *	Inbound Case Creation
	Mail Server Address: *	imap.gmail.com
	Mail Server Protocol: *	IMAP 🛟
	Mail Server Port: *	993
	Use SSL: (1)	I

Viewing Inbound Email Accounts

There are various options available for viewing inbound account records in Sugar including via Inbound Email list view, detail view, and Last Viewed menu.

Viewing Via List View

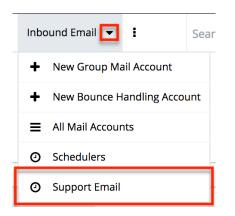
The Inbound Email list view displays all inbound account records. To access the list view, simply click the Inbound Email module tab. While list view shows key inbound account fields, you can click the account's name to open the record in detail view. For more information on viewing inbound accounts via list view, please refer to the <u>Inbound Email List View</u> section.

Viewing Via Detail View

The Inbound Email detail view displays thorough inbound account information including all fields. The detail view can be reached by clicking an account record's link from anywhere in the application including from the Inbound Email list view. For more information on viewing inbound accounts via detail view, please refer to the Inbound Email Detail View section.

Viewing Via Recently Viewed

As you work, Sugar will keep track of which inbound accounts you have recently viewed. Click the triangle in the <u>Inbound Email module tab</u> to see a list of the 3 records you most recently viewed in the module. Clicking the record's name within the list will open the record in detail view.



Inbound Email List View

The Inbound Email list view displays all inbound account records meeting the current search criteria and to which your user has access. You can view the basic details of each account within the field columns.

Modifying the Case Macro

The Case Macro field determines what distinct string Sugar will use to match emails to the Cases module. The Case Macro is on the Inbound Email list view and displays the current case macro string. By default this string is set to [CASE:%1]. To customize it, you can change CASE to a different word, but you must preserve the rest of the string; for example, [TICKET NUMBER:%1]. Home

Save		
Case Macro:	[TICKET NUMBER:\$1]	Set the macro which will be parsed and used to link imported email to a Case. Set this to any value, but preserve the "%1".

Click "Save" to preserve your changes.

Note: Incoming emails must have no space before the case number in order to be related to the existing case. For example, an email with the subject "[Case:1234]" will automatically be related to case number 1234 while an email with the subject "[Case: 1234]" will not.

Pagination

List view displays the current results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the case macro you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation in the Administration guide.

Save			
Case Macro:	[TICKET NUMBER:%1]	Set the macro which will be parsed and used to link imported email to a Set this to any value, but preserve the "%1".	Case.
Inbound Ema	il		
De	lete Selected: 0		(1 - 5 of 7) >>>

Checkbox Selection

You can perform several actions on inbound account records directly from the list view by first selecting the desired records. To select individual inbound account records on the Inbound Email list view, mark the checkbox on the left of each row. To select or deselect multiple inbound account records on the list view, use the options in the checkbox dropdown menu:

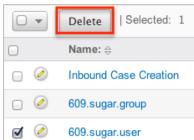
- **Select This Page** : Selects all records shown on the current page of inbound account results.
- Select All : Selects all records across all pages of inbound account results.
- Deselect All : Deselects all records that are currently selected.

🗆 🔻 Delete	Selected: 1				
C Select This Page (5)					
Select All (7)	se Creation				
Deselect All					
roup					
🗹 🖉 609.sugar	user				

Action Buttons

The Actions menu to the right of the checkbox dropdown typically allows you to perform various actions on the currently selected records.

Inbound Email



The only action available from the Inbound Email list view is the following operation:

Menu Item	Description	
<u>Delete</u>	Delete one or more inbound accounts at a time	

Column Sorting

List view provides the ability to sort all of the current results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time. Inbound Email



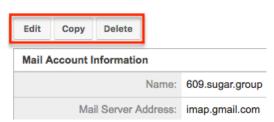
Inbound Email Detail View

The Inbound Email detail view displays thorough inbound account information including all inbound account fields which are grouped by default into the Mail Account Information and Advanced Setup panels. The detail view can be reached by clicking an inbound account record's link from anywhere in the application including from the Inbound Email list view.

Action Buttons

The Action Buttons on the top left of each inbound account's detail view allows you to perform various actions on the current record.

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The action buttons allow you to perform the following operations:

Menu Item	Description	
Edit this inbound account.		
Copy Duplicate this inbound email acce		
Delete	Delete this inbound account.	

Editing Inbound Email Accounts

Inbound accounts may be edited at any time to update or add information to the record. You can make changes to existing inbound account records via the Inbound Email edit view. Edit view is available within the Inbound Email module and includes all of the Inbound Email fields you should need.

Editing Via Detail View

You can edit inbound accounts via the <u>detail view</u> by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve your changes.

609.sugar.group

Edit	Сору	Delete		
Mail A	ccount I	nformation		
			Name:	609.sugar.group

Editing Via List View

You can edit inbound accounts via the <u>list view</u> by clicking the Pencil icon to the left of each inbound account's name. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve your changes.

Inbound Email					
•	Delete Selected: 0				
	Name:	Type ⇔	Mail Account		
□ 🖉	Inbound Case Creation	group	None		

Deleting Inbound Email Accounts

If an inbound account record is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from either the Inbound Email detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once. Deleting inbound account records will not delete the email imported from this account.

Deleting Via Detail View

Use the following steps to delete an inbound account record via the detail view:

- 1. Navigate to an inbound email account record's detail view.
- 2. Click "Delete". 609.sugar.group

Edit	Сору	Delete		
Mail Account Information				
Name: 609.sugar.group				

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Mass Deleting Via List View

Use the following steps to delete one or more inbound email account records via the list view:

- 1. Navigate to the Inbound Email list view by clicking the Inbound Email module tab.
- 2. Select the desired inbound email account records individually or by using the checkbox dropdown's options.
- 3. Click "Delete".

Inbound	Inbound Email				
	Delete Selected: 1		(F		
	Name: 🗢	Type 🌲	Mail Account Usage		
	609.sugar.group	group	None		

4. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of inbound account records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Creating Cases From Email

To create a case via email, simply send an email to a group inbound email account that has the case creation option selected. The subject and description of the case is populated with the subject and body of the email respectively. The new case is assigned to the team defined in the inbound email account record and the case can be assigned to a specific user in that team based on two rules:

- **Round-Robin** : Sugar distributes cases evenly among all users within the team.
- **Least-Busy** : Sugar distributes cases to the least busy user within the team. Least busy is defined by the person with the least number of unread emails assigned to them.

Note: Case assignment is distributed to all members of the specified team, but excludes any inherited members of the team due to the "Reports To" structure. For more information on teams and the Reports To structure, please refer to the <u>Team</u> <u>Management</u> and <u>User Management</u> documentation in the Administration guide.

Cases created from email are automatically related to contact and account records that match the email address in the From field of the email. If a case auto-reply template is specified the sender of the email will receive an email based on the template selected. The response contains the system generated case number in the subject line of the email based off of the case macro. The body of the email for which the case was created displays below the template text. The case auto-reply ignores the "No Auto-Reply to this Domain" field if populated.

Note: If both Auto-Reply and Case Auto-Reply templates are selected, Sugar will respond to the sender with the Case Auto-Reply template only.

Email Queue

The Email Queue option in Admin is where Sugar administrators can monitor and perform actions on queued email. When sending a campaign, the emails are not sent immediately but are instead queued to be sent. Each queued email has a "Send On" date and time set by the campaign they are sent from. The scheduler "Run Nightly Mass Email Campaigns" takes the queued emails that are ready to be sent based on this date and time and sends them in batches. If an email fails to send from the queue for any reason it will be flagged as a send attempt and, by default, Sugar will not attempt to send that email for another 24 hours. Once Sugar reaches six failed attempts to send an email it will be deleted from the queue. In order to send a failed email sooner than the default 24 hours, you can perform a mass update to reset the In Process field. For more troubleshooting information, refer to the Troubleshooting Campaigns Failing to Send From Email Queue article. This section will cover how to use the email queue.

Viewing Via List View

The email queue list view displays all queued email records meeting the current search criteria. To access the list view, simply click the Email Queue link on the Admin page. List view shows key email fields including links to the Campaign, Recipient, and Marketing Message records. For more information on viewing queued email via list view, please refer to the <u>Email Queue List View</u> section.

Searching Queued Email

The email queue list view includes a Basic and Advanced Search to help you locate records easily and effectively in a module-specific manner. Once the search is performed, the relevant results will be displayed in the Email Queue list view below. Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %services). This will pull up any record that has the word "services" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used in the different methods, please refer to the <u>Search</u> documentation.

Basic Search

Basic search offers a few, commonly used fields for a simplified search experience. From the Basic Search panel, you can click "Advanced Search" to access additional search functionality as needed.

The buttons and checkboxes available in Basic Search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.

Email Queue

Campaign My Items Search Clear Advanced Search () Once the search is complete, the relevant results will populate in the list view below the search panel. To see all queued email records to which you have access, simply click "Clear" and then "Search" to perform a blank search with no filters.

Advanced Search

Advanced Search offers a more in-depth search experience than Basic Search including additional fields, layout options, and saved search capability. From the Advanced search panel, you can click "Basic Search" for simplified searching.

The buttons, checkboxes, and dropdowns available in Advanced Search have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.
- **Layout Options** : Use the expandable Layout Options section to configure your list view. For more information, please refer to the <u>Layout Options</u> section of the Search documentation.
- **Saved Searches** : Save, recall, update, and delete searches which you use often. For more information, please refer to the <u>Saved Search</u> section of the Search documentation.

Email Queue

Email Queue			
Campaign	Recipient Name	Recipient Email	3
My Items			
	Save search as: Save	Modify current search:	Update Delete
Search Clear Basic Search	Saved Searches -none-		

When you run a search, Sugar will return records matching all (as opposed to any) of the fields for which you have given a value. For example, if you enter a campaign name to search and a recipient name, Sugar will only return queued email records with matching both fields. Once the search completes, the relevant results will populate in the list view below the search panel. To see all queued email records to which you have access, simply click "Clear" and then "Search" to perform a blank search with no filters.

Email Queue List View

The Email Queue list view displays all queued email records meeting the current search criteria and to which your user has access. You can view the basic details of each email within the field columns.

You have the option to change what fields are displayed in list view by configuring your layout options in the Advanced Search. For more information on configuring your list view, please refer to the <u>Layout Options</u> section of the Search documentation.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation in the Administration guide.

Email Queue

Campaign	My Items	Search	Clear	Advanced Search	?
Delete v				ार (1 - 3 of 3))))

Checkbox Selection

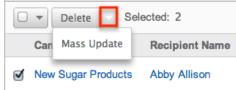
You can perform several actions on queued email records directly from the list view by first selecting the desired records. To select individual queued email records on the Email Queue list view, mark the checkbox on the left of each row. To select or deselect multiple queued email records on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of results.
- **Select All** : Selects all records in the current search results across all pages of results.
- **Deselect All** : Deselects all records that are currently selected.

🗆 🔻 Delete 💌	Selected: 2
Select This Page (3)	Recipient Name
Select All (3) Deselect All	s Abby Allison
New Sugar Product	ts Robert Smith

Actions Menu

The Actions menu to the right of the checkbox dropdown allows you to perform various actions on the currently selected records.



The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
<u>Delete</u>	Delete one or more queued emails at a time

<u>Mass Update</u>

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time. You can also set a default order-by column using the layout options in Advanced Search. For more information on setting a default column sort, please refer to the Layout Options section of the Search documentation.



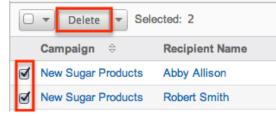
Deleting Queued Email

If a queued email is invalid or should no longer be sent, it may be deleted from the list view. The list view allows for mass deleting multiple records at once. Deleting queued emails will not delete the campaign or target, but will remove the instance of this email so it will not be sent.

Mass Deleting Via List View

Use the following steps to delete one or more queued email records via the list view:

- 1. Navigate to the Email Queue list view by clicking the Email Queue link on the Admin page.
- 2. Use the <u>Basic</u> or <u>Advanced Search</u> to find the queued email records you wish to delete.
- 3. Select the desired records individually or using the <u>checkbox dropdown's</u> options.
- 4. Choose "Delete" from the Actions menu.



5. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

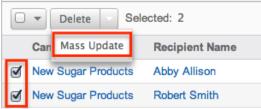
Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of queued email records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Mass Updating Queued Email

Mass Updating allows users to make the same change to multiple queued email records at once from the Email Queue list view. Currently, only fields with the data type of date, datetime, dropdown, multiselect, and radio may be altered during a mass update. Due to the PHP memory limitations on the server, there may be occasions when the application times out while mass updating a large number of queued email records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Use the following steps to mass update queued email records from the list view:

- 1. Navigate to the Email Queue list view by clicking the Email Queue link on the Admin page.
- 2. Use the list view's <u>Basic</u> or <u>Advanced Search</u> to find queued email you wish to modify.
- 3. Select the desired records individually or using the <u>checkbox dropdown's</u> options.
- 4. Choose "Mass Update" from the Actions menu.



Mass Undate

5. Scroll to the Mass Update panel and set values for the fields you wish to alter.

mass opaaro			
Send Date	(mm/dd/yyyy)	In Process	-none- 😫
Queued Date	(mm/dd/yyyy)		
Update Cancel			
Send Queued Campaig	In Emails		

Note: After an email has failed to send, setting In Process to "No" will flag the email to attempt to send again. Otherwise, the email will not attempt to be sent again until 24 hours has passed. Optionally set the Send Date to

configure when the email should be attempted again.

6. Click "Update" to save the changes to all of the currently selected queued email records.

Sending Queued Email

Email in the queue will be automatically be sent out in batches by the "Run Nightly Mass Email Campaigns" scheduler. For more information on setting up and configuring scheduler, please refer to the <u>Schedulers</u> documentation in the Administration guide. Alternatively, you can manually send a batch of emails in the queue. The amount of queued email that will be sent is equal to the "Number of emails sent per batch" value specified in the <u>Campaign Email Settings</u>.

Use the following steps to manually send a batch of queued emails from the list view:

- 1. Navigate to the Email Queue list view by clicking the Email Queue link on the Admin page.
- 2. Choose "Send Queued Campaign Emails" from below the list view. Email Queue

Campaign	My Items
Delete 🔻	
Campaign 🗢	Recipient Name
New Sugar Products	Abby Allison
New Sugar Products	Robert Smith
New Sugar Products	Chris Olliver
Delete 🔻	
Send Queued Campaign	Emails

3. Sugar will then send a batch of queued email whose Send On date and time is equal to now or in the past.

Note: If an email fails to send it will not be tried again for 24 hours.

Selecting specific records and searching for specific records will not determine which queued emails will be sent. This process will send a batch of emails that are queued to be sent in order by the Send On field. For more information on setting the batch amount, please refer to the <u>Campaign Email Settings</u> section.

Note: If your batch size is set high and you have a lot of queued email, this process can take a while to run through a single batch.

Last Modified: 2019-10-22 17:24:36

Developer Tools

Overview

The Developer Tools section of Sugar's Admin page contains various configuration menus that help you customize your instance to best suit your organization's needs. Developer Tools allow you to edit the look, feel, and functionality of your instance, including adding fields, changing layouts, adding automated processes, and creating entirely new modules.

Menu Description Studio Modify fields, relationships, and layouts for existing modules Module Builder Create new modules to be deployed into this instance or exported to other Sugar instances Module Loader Upload and manage customization packages to your instance, such as additional modules or third-party integrations Sugar Portal **Configure your Sugar Portal** Workflow Management Manage automated processes in Sugar to optimize and streamline your company's business process **Rename Modules** Update the name of each module within Sugar **Display Modules and Subpanels** Hide or display modules and subpanels across the application Configure Navigation Bar Ouick Create Configure which modules appear in the Quick Create menu on the navigation bar **Configure API Platforms** Manage platform identifiers for custom **API** integrations **Dropdown Editor** Manage dropdown lists to add new lists or edit existing lists

The Developer Tools section contains the following menus:

Studio

Studio enables administrators to customize stock or custom modules by modifying fields, page layouts, and more. This allows Sugar to be modified to ideally fit your organization's needs and terminology. Please note that only users with administrator or developer access have the ability to make changes via Admin > Studio. For more information on how to utilize Studio, please refer to the <u>Studio</u> documentation.

Module Builder

Module Builder enables administrators to create, deploy, and maintain custom modules in Sugar. For your convenience, the custom modules are based on templates such as Basic, Person, Company, etc. Modules can then be deployed within your instance of Sugar so that users can utilize the new module in their daily process. In addition, modules can be exported for additional development or published and then imported to other Sugar instances. For more information on using Module Builder, please refer to the <u>Module Builder</u> documentation.

Module Loader

Module Loader is used to import packages into Sugar that make changes to core files. Examples of module-loadable packages include Sugar custom modules that were created in Module Builder, language packs, third-party integrations, or any other type of file that would make changes to Sugar's core file system. Module Loader provides a portal within the application where zip files can be easily uploaded and then installed. For more information on how to use Module Loader, please refer to the Module Loader documentation.

Sugar Portal

Sugar Portal is a powerful tool which allows Sugar users to interact with customers and share information related to multiple modules. Your customers can log into the portal and view information in your Sugar instance as well as submit <u>cases</u>, <u>bugs</u>, and review <u>knowledge base</u> articles. The information allowed and viewable in the portal can be updated and restricted by Sugar users as allowed by team membership, user access type, and assigned roles. Administrators can configure portal settings, the look and feel of the theme, and the layout

configurations via Admin > Sugar Portal. For more information on configuring the portal, please refer to the <u>Sugar Portal</u> documentation.

Workflow Management

Sugar's Workflow functionality allows administrators to configure cause and effect type actions throughout Sugar and across multiple modules. Workflows can be used to update fields, send emails, or create records once certain sets of conditions are met. Workflows are a great way to configure automated processes within Sugar so that users do not need to remember manual steps and instead can focus on their primary tasks and job responsibilities. Administrators can create and manage workflows via Admin > Workflow Management.For more information on workflows, please review the <u>Workflow Management</u> documentation.

Rename Modules

Depending on your business needs, it may be necessary to alter the display label to make the module's name (e.g. Contacts, Accounts, etc.) align with your various business components. Administrators can easily rename modules via Admin > Rename Modules. When editing a name, you are given the option to update both the singular and plural version of the word. This change will be reflected globally across Sugar so that every use of the given module name is updated to your preference, seamlessly to all users. You can also use the language dropdown list at the top of the page to rename the modules to a language other than English.

The following steps cover renaming the Contacts module as an example:

- 1. Navigate to Admin > Rename Modules.
- 2. Locate the module you wish to change and click the Pencil icon to the left of the module's name.

Rename Modules

Click Save to apply the changes.

Save	
Language: English (US)	Ì
O Home	
Contacts	
Accounts	
Opportunities	
Cases	

3. Enter a new singular and plural name for the module then click the Pencil icon again to close the text boxes. Rename Modules

Click Save to apply the changes.						
Sa	Save Cancel					
Lar	Language: English (US)					
0	Home					
0	[Contac	:ts]				
	Singular	Label	Customer			
	Plural	Label	Customers			

4. Click "Save" to deploy your changes across your instance.

Display Modules and Subpanels

Administrators have the ability to control which modules and subpanels will appear in their instance via Admin > Display Modules and Subpanels. This option is useful as any unnecessary module(s) and subpanel(s) can be hidden to prevent users from accessing it. Please note that not every module and subpanel in Sugar is enabled by default when initially installed.

Once the "Display Modules and Subpanels" page is open, you will see the Displayed Modules, Hidden Modules, Displayed Subpanels, and Hidden Subpanels columns. To configure which modules are displayed on the navigation bar, drag and drop the module from the Hidden Modules column to the Displayed Modules column. To hide a module, simply drag and drop the module from the Displayed Modules column to the Hidden Modules column. To configure which subpanels appear in modules, drag and drop the module from the Hidden Subpanels column to the Displayed Subpanels column. To hide a subpanel, simply drag and drop the module from the Displayed Subpanels column to the Hidden Subpanels column. After making the necessary changes, click "Save" at the top of the page to deploy your changes or "Cancel" to revert back to your previous settings.

Please note that if a hidden module is related to a module that is visible in Sugar, it will display as a subpanel in the record view (for Sidecar modules) or detail view (for Legacy modules) of the related module. In addition, hidden modules continue to be available to users when viewing, creating, and managing reports via the Reports module. When a subpanel is hidden, users cannot view any related records from the record view (for Sidecar modules) or detail view (for Legacy modules) of the related module.

Display Modules and Subpanels

Save Cancel		
Allow users to select mo	odules to ap	opear in the navigation bar $~~i$
Displayed Modules		Hidden Modules
Accounts		Contracts
Contacts		
Opportunities	Opportuniti	es
Leads		
Calendar		
Reports		
Quotes		
Quoted Line Items		
Documents		
Web Logic Hooks		
Emails	*	
• ·	Ψ	
Displayed Subpanels		Hidden Subpanels
Contacts		Bug Tracker
Leads		Quoted Line Items
Accounts		Contracts

Drag and Drop the names of the modules below to set them to be displayed or hidden

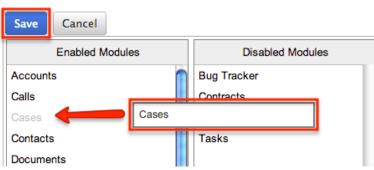
Users have the option to hide and display modules per their viewing preference via the <u>User Profile</u>. The list of available modules to display and hide in a user's account is based on the modules in the Displayed Modules column of the Display Modules and Subpanels page. To disable the users' ability to modify which modules are hidden or displayed on their navigation bar, uncheck the Allow users to select modules to appear in the navigation bar checkbox above the Displayed and Hidden Modules columns. If you wish to prevent certain users from accessing specific modules in Sugar, you can keep the module enabled globally but assign a role to the user. For more information on creating and assigning roles, please refer to the <u>Role Management</u> documentation.

Configure Navigation Bar Quick Create

The Quick Create menu allows users to easily create new records from anywhere in Sugar. Simply click the quick-create button on the upper right of any Sugar page to access the menu. Administrators can easily configure the Quick Create menu via Admin > Configure Navigation Bar Quick Create menu to control which modules are enabled/disabled, as well as the order the modules will appear in the menu.

Once the "Configure Navigation Bar Quick Create" page is open, you will see the Enabled Modules and Disabled Modules columns. Modules that appear within the Enabled Modules column will display in the Quick Create menu. To enable a module to be displayed in the Quick Create menu, drag and drop the module from the Disabled Modules column to the Enabled Modules column. To disable a module, simply drag and drop the module from the Enabled Modules column to the Disabled Modules column. You can also change the order of the modules as they appear in the Quick Create menu by dragging and dropping the modules up-anddown within the Enabled Modules list. After making the necessary changes, click "Save" at the top of the page to deploy your changes or "Cancel" to revert back to your previous settings.

Note: The Quick Create menu can display a maximum of 10 modules at one time. Configure Navigation Bar Quick Create



Choose which modules for which users can quickly create records using the Plus in

Configure API Platforms

Developers use the platform parameter to distinguish their custom platform from other clients when using the Sugar API. For example, when a user accesses Sugar via the desktop client and the mobile client simultaneously without being logged out of either, it is because the API recognizes that they are different platforms due to their unique platform identifiers. The platform identifier also makes it easy for a Sugar administrator to configure which API platforms are allowed to access their instance via Admin > Configure API Platforms.

Note: To learn more about platform identifiers, please refer to the <u>Dev Blog</u> in SugarClub.

The API Platforms panel is a list of client IDs that have been given permission to interact with your Sugar instance. The panel will automatically display some standard platform identifiers required by every Sugar instance. The stock API platforms listed in the following table cannot be removed and must not be reused as platform identifiers for a custom integration.

API Platform Identifier	Platform/Client
base	Sugar desktop client (default platform)
mobile	Sugar Mobile app
portal	Sugar Portal (Sugar Enterprise and Ultimate)
opi	Sugar Plug-in for Microsoft Outlook
lpi	Sugar Plug-in for IBM Notes

To allow a new integration for your Sugar instance, find the package's platform parameter, enter it in the text box below the API Platforms panel, and then click "Add". You may need to ask your developer to check the

.custom/clients/platforms.php file for this information. To remove any custom API platforms from the list, click the Remove icon next to the API platform identifier that you wish to remove. Upon removing the platform, all integrations that relied upon it will stop working.

Configure API Platforms

Save	Cancel	
	API Platforms	
base		
mobil	e	
portal		
орі		
lpi		
my_c	ustom_integration	\odot
		Add
Save	Cancel	

Alternatively, developers may choose to create a module loadable package to add custom identifier(s) via Sugar's Module Loader tool. To remove platform identifiers that were added via Module Loader, simply uninstall the package. More information on adding platform identifiers via Module Loader can be found on the <u>Dev Blog</u> in SugarClub and the <u>Platforms</u> documentation in the Developer Guide.

Dropdown Editor

The Dropdown Editor allows administrators to view, modify, and create dropdown lists which can be added as fields in Sugar. Since dropdown lists are not module specific, they are stored and managed through the Dropdown Editor. Please note that the dropdown list can only be associated with dropdown, multiselect, and radio-type fields via Admin > Studio. For more information on associating dropdown lists to the different field types, please refer to the <u>Studio</u> documentation.

You can restrict which dropdown values are available to users based on their roles. For more information about role-based visibility, please refer to the <u>Editing Role-Based Availability</u> section of this page.

Certain dropdown lists cannot be edited via the Dropdown editor as they are controlled by a separate area (e.g. Contract Types, Releases, etc.) of the Admin

page. These include dropdown lists for the <u>Forecasting</u>, <u>Bug Tracker</u>, <u>Contracts</u>, and <u>Products and Quotes</u> modules. Please refer to the appropriate sections of the Administration Guide for more information regarding the fields and how they can be edited.

Adding Dropdown Lists

Dropdown lists can be created at any time and added to a Dropdown type field via <u>Studio</u>. When creating a list, please keep in mind that this list is not module specific, so be sure to properly name your list and any dropdown options to avoid any confusion in the future.

If desired, you can restrict which dropdown values are available to users based on their roles. For more information about role-based visibility, please refer to the <u>Editing Role-Based Availability</u> section of this page.

Use the following steps to create a dropdown list via Dropdown Editor:

- 1. Navigate to Admin > Dropdown Editor.
- 2. Click the Add Dropdown button, which is located above the list of existing dropdown lists.



- 3. Enter a name for your dropdown list in the Name field (e.g. "account manager list").
 - Note: The name must be alphanumeric and use the underscore character for spaces

	Char	acter	101	space
Dropdown	Editor	Edit D	ropdov	vn ×
Save	Undo	Redo	Canc	el
Name: acc	ount_ma	nager_li:		
Language:	English	(US)		÷
List Items: Item Name[]	Display Lał	bel]		

4. To create the items that will appear in your dropdown list, enter an "Item Name" and a "Display Label". Click "Add" once you have populated both fields to add the value to the dropdown list.

- The item name is the backend system name for the list item and must be alphanumeric. An underscore or a period can be used for the item name.
- The display label defines what will be displayed in the actual dropdown. Please note that there are no character restrictions when entering the display label. Click "Add" once you have populated both fields to add the value to the dropdown list.

• j_kelly[Joseph Kelly]	
em Name:	Display Label:
w westin	Will Westin

5. Once all values have been added to your dropdown list, you can click one of the sort options to rearrange the values as desired. Lists can be sorted alphabetically in ascending or descending order based on the display label. You can also sort the list manually by dragging and dropping the values upand-down the list.

Item Name:		Display Label:
Add		
Sort Ascending	Sort Descending	

6. Click "Save" at the top of the screen to complete and add your dropdown list. You will be directed back to the main dropdown editor page once the save completes.

Dropdo	wn Editor	Edit D	ropdown $ imes$
Save	Undo	Redo	Cancel
Name: a	.ccount_m	anager_lis	st

Viewing Dropdown Lists

The Dropdown Editor displays all existing dropdown lists in two separate sections (Dropdowns list, Dropdown Editor) on the page. The Dropdowns list to the left of the page displays the dropdown lists in alphabetical order. The Dropdown Editor tab displays the dropdown lists in columns and allows you to view more of the lists

at	once	instead	of	scrolling	down	ิล	single l	ist
at	once	mstoau	01	Scroning	uown	a	Single I	136.

Dropdowns	<	Dropdown Editor	
Elastic_boost_options		Dropdown Editor	
account_manager_list		Diopdown Editor	
account_type_dom		Add Dropdown	
activity_dom			
available_language_dom		Elastic boost options	account manager list
bopselect_type_dom		activity dom	available language dom
bselect_type_dom		bselect_type_dom	bug_priority_dom
bug_priority_dom		bug_status_dom	bug_type_dom
bug_resolution_dom		<u>call_status_dom</u> <u>campainglog_activity_type_dom</u>	<u>campaign_status_dom</u> <u>campainglog_target_type_dom</u>

Once you locate the dropdown list you are looking for, click the list's name to open the Edit Dropdown tab to view and edit the list. The Edit Dropdown tab displays the name, the set language for the list, list values, and the item name. The list will be ordered as they appear in the dropdown list when added as a field to a layout. You can reorder the list if you wish by dragging and dropping the items into the desired positions.

Dropdow	Edit Dropdown ×	
Save	Undo Redo Cancel	
Name: acc	ount_type_dom	
Language:	English (US)	
List Items: Item Name	Display Label]	
•	-blank- [-blank-]	0
•	Analyst [Analyst]	0
•	Competitor [Competitor]	0
•	Customer [Customer]	 Image: Image: Ima

If your organization uses Sugar in languages other than English, Sugar can display translated dropdown lists for each language used. For example, Sugar will display French dropdown items when a user is logged into Sugar in French. You must provide the translations for each language by specifying display labels for each dropdown item. First, finalize your list's items by adding or removing items; the item names (a.k.a. database values) and order of items will be consistent across all languages. Choose the desired language in the Language dropdown above the list. Then, click the pencil icon for each item and enter a translated display label. When all labels have been translated, click "Save" to preserve your changes. After saving, the list will automatically be displayed in English, but you can change the Language dropdown again to check your labels.

Dropdow	n Editor	Edit D	ropdown ×
Save	Undo	Redo	Cancel
Name: acc Language List Items Item Name	count type ✓ English Българ Česky Dansk Deutsc	і (US) іски	

Editing Dropdown Lists

Dropdown lists can easily be modified via the Dropdown Editor by selecting the specific dropdown list which opens the edit layout. You can reorder the items in the list, add new values, remove unnecessary values, change the display label for a value, or change the display label language.

If desired, you can restrict which dropdown values are available to users based on their roles. For more information about role-based visibility, please refer to the <u>Editing Role-Based Availability</u> section of this page.

Please note that the name of the dropdown list cannot be changed once created. Also, dropdown lists cannot be deleted since they can span multiple modules in Sugar and cause important data to be lost if removed in error. Once the necessary modifications have been made, click "Save" on the upper right to preserve the changes made.

To sort the list alphabetically, you can simply click the Sort Ascending or Sort Descending button on the bottom left of the tab view. Please note that the sorting is based on the display label. You can also reorder the items in your list, by dragging and dropping the items into the desired position.

List Items: Item Name	Display Label]	Drag the item up or down the list then drop it into
	-blank- [-blank-]	the desired position.
•	Analyst [Analyst] Customer [Customer] Customer [Customer]	
	Competitor [Competitor]	
	Integrator [Integrator]	
	Investor [Investor]	
	Partner [Partner]	
	Press [Press]	
	Prospect [Prospect]	
	Reseller [Reseller]	
	Other [Other]	
Item Name	:	Display Label:
Add Sort Asc	ending Sort Descending	

To add a new value, enter an item name and corresponding display label below the list of existing values then click "Add". Please note that the item name is the backend system name and must be alphanumeric without any special characters other than an underscore or a period. The text in the display label defines how the value will be displayed in the dropdown list when viewed in the user interface. Please note that this there is no character restriction for the display label.

Item Name[Display Label]		
◆ j_kelly [Joseph Kelly]	Q	9 6
Item Name:	Display Label:	
w_westin	Will Westin	
Add		

To remove a value from the list, click the Minus icon to the far right of the item row. Once deleted, the item will show a strike through and will be removed from the list once saved.

List Items:

Item Name[Display Label]

j_kelly [Joseph Kelly]	Θ
w_westin[Will Westin]	•

The item name of a dropdown value cannot be edited, but you can update the display label via the Dropdown Editor. Simply locate the value in the list then click the Pencil icon to the far right of the item row. Enter the new value into the open text box then click anywhere on the page to close the edit.

Item Name	Display Label]	
•	w_westin Will Westin	
•	j_kelly [Joseph Kelly]	

Editing Sales Stages

The Revenue Line Items module contains two fields that function unlike other fields in Sugar. When the Sales Stage dropdown field is updated, the corresponding probability is automatically populated in the Probability (%) field. This is a unique function of the Revenue Line Items module. These two fields use the two dropdown lists, "sales_stage_dom" and "sales_probability_dom". Both dropdown lists have the same item name for all values but different display labels. The sales_stage_dom list is associated with the Sales Stage field and displays the various sales stages (e.g. prospecting, qualification, closed won, etc.). The sales_probability_dom list is associated with the Probability (%) field and displays the corresponding probability value (e.g. 10, 20, 100, etc.) for each sales stage.

When any changes are made to the sales_stage_dom list, you must consider the sales_probability_dom list as well to ensure the relationship between the two fields remains intact. For example, if you add a new sales stage (e.g. Item Name: "review_stage", Display Label: "Review Stage") to the sales_stage_dom list then you must add a corresponding probability (e.g. Item Name: "review_stage", Display Label: "50") to the sales_probability_dom list in order for it to populate properly in the revenue line item. The two lists' item names and order must match.

The Opportunities module's Status field uses the sales_status_dom list. Modifying this list is not recommended as the values in this dropdown are tied to the Revenue Line Item module's Sales Stage field. Making changes to this dropdown list's item names via code or Studio can cause unexpected behavior. For more information regarding the Status field, please refer to the <u>Opportunities</u> documentation.

Note: The dropdown lists "sales_stage_dom" and "sales_probability_dom" must have "Closed Won" and "Closed Lost" as item names in order for the Forecasts module to function correctly. Please ensure any changes to these lists does not remove or change the item name for these two options.

For sales_stage_dom list:

Name: sale	es_stage_dom
Language:	English (US)
List Items: Item Name	Display Label]
	Prospecting [Prospecting]
	Qualification [Qualification]
	Needs Analysis [Needs Analysis]
For sale	Value Proposition [Value Proposition] s_probability_dom_list:
Name: sale	s_probability_dom
Language:	English (US)
List Items: Item Name[Display Label]
	Prospecting [10]
	Qualification [20]
	Needs Analysis [25]
	Value Proposition [30]

Users can create similar logic for custom fields using Sugar Logic in <u>Studio</u>.

For sal	es_status_dom list:
Name: sale Language:	s_status_dom
	English (US)
List Items: Item Name	Display Label]
•	New [New]
	In Progress [In Progress]
-	Closed Won [Closed Won]
•	Closed Lost [Closed Lost]
	eroed Loot [crosed Lost]

Editing Time Intervals

The "After Time Elapsed" workflow triggers after a specified period of time has

elapsed from when a record save occurs in Sugar. For more information on "After Time Elapsed" workflows, please refer to the <u>Workflow Management</u> documentation. When creating the conditions for the workflow, you have the option to specify the time interval (e.g. 0 hours, 4 hours, 1 day, 1 week, etc.) used by the system to execute the workflow. The available time interval values can easily be modified via the Dropdown Editor.

The Dropdown Editor contains the "tselect_time_dom" list, which allows administrators to configure the time intervals used for time elapsed workflows. To add new time intervals to the dropdown list, simply enter the "Item Name" and "Display Label", keeping in mind that the item name must display the number of seconds corresponding to the new time interval. The display label value should have the time as it relates to minutes, hours, days, etc. For example, if you are adding 2 hours to the time interval list, the item name value will be "7200" and the display label will show "2 hours".

Name: tsele	ect_type_dom
Language:	English (US)
List Items: Item Name[Display Label]
•	0 [0 hours]
	7200 [2 hours]
•	14440 [4 hours]

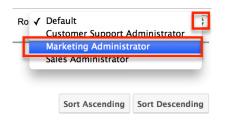
Editing Role-Based Availability

You can restrict which options are available for a user to select when he or she is editing records based on the user's role. When editing a particular dropdown list, the Roles dropdown appearing on the top right contains all existing roles in the Sugar application. The Default role-list allows admins to add, remove, or reorder options within a dropdown list. By default, none of the other Sugar roles have customized lists, so changes made to the Default role-list will automatically be copied to the other role-lists upon save. This means that as long as no role-list are customized here, all users will continue to see the dropdown options and order matching the Default role-list.

Note: It is recommended to assign each user to a maximum of one role. Users belonging to multiple roles which each have customized role-views may experience unexpected behavior when using record views. For more information about roles, please refer to the <u>Role Management</u> documentation.

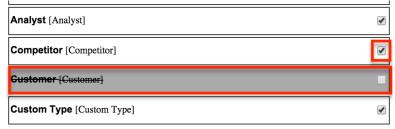
If you wish to restrict certain roles to use a modified list of options when editing records, select the desired role from the Roles dropdown to make changes specific

to that role (e.g. Marketing Administrator).

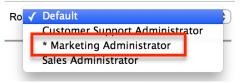


When viewing a Sugar role's role-list (e.g. Marketing Administrator), you have the option to disable, enable, or reorder the existing options. Options cannot be added or deleted via any role-list except "Default". Drag and drop an option in order to change its position in the role-list's options list. To disable an option, deselect the checkbox in the option's row. Doing so will prevent the option from appearing in the dropdown when a user belonging to this role is editing or creating a record. Once an option is disabled, it will appear greyed out with a strike-through. When the desired changes have been made, click "Save & Deploy".

Note: Each role's role-list must have at least one enabled option.



Once you have saved and deployed a modification to a role-list, it is considered customized and will display an asterisk (*) next to the role's name in the Roles dropdown. Reordering options on the Default role-list will no longer have any effect on customized role-lists. However, adding an option, deleting an option, or changing an option's display label on the Default role-list will add, remove, or alter the option for all role-lists including customized role-lists.



Note: Users will be able to view all dropdown values regardless of role restrictions when viewing records. This means if a record has a dropdown value set to which a user has a role-based restriction, he or she will still be able to view the value.

Note: Role-based customizations to dropdown lists are included when exporting customizations from Studio. For more information, please refer to the <u>Studio</u> and <u>Module Loader</u> documentation.

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Studio

Overview

Studio enables administrators to modify Sugar's fields, page layouts, and more to fit your organization's needs and terminology. Only users with administrator or developer access can make changes via Admin > Studio. This documentation will cover how to use Studio as well as the various actions and options available from within Studio.

Navigation

Studio's navigation is different than other modules within Sugar. Studio is divided into three main sections: the <u>main panel</u>, the <u>Modules panel</u>, and a <u>footer</u>.

Main Panel

The main panel in Studio is where you can access the modules, add fields, configure layouts, and perform other in-app customizations. It displays to the right of the Modules panel and houses the various components (e.g. fields, layouts, subpanels, etc.) of the module. As you select the different components, they will load in new tabs on the main panel.

Edit Accounts					
< 🛍 Studio > A	Accounts				
Reset Module					
	5	elect a module co	mponent to e	edit.	
Abcde:	v Sdati				-atl 12:54 ***
Labels	Fields	Relationships	Layouts	Subpanels	Mobile Layouts

For example, if you select "Fields" on the main panel, the list of available fields along with the options to configure will appear under the Edit Fields tab. Additional tabs that appear as you configure the module can be closed by clicking the "X" within the tab.

Edit Fields	Edit Fiel	d ×	
🗲 🛍 Studio >	Accounts >	> Fields	
Add Field	Edit Lab	els	
Name	÷	Display Label	÷
name		Name	
date_entered		Date Created	

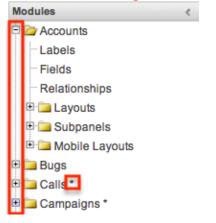
The main panel also includes a breadcrumb bar showing where in Studio you currently are. You can navigate to a specific section by clicking the link within the breadcrumb bar.

Edit Fields Edit Fields	eld ×
🗲 🛍 Studio > Accounts	s > Fields
Add Field Edit La	bels
Name	⇔ Display Label ⇒
name	Name
date_entered	Date Created

To go back to the previous page that you were viewing, click the Left arrow on the breadcrumb bar. Clicking the Home icon to the right of the arrow will navigate you back to the Developer Tools home page.

Modules Panel

The Modules panel is located to the left of the screen and displays a list of existing stock and custom modules that are editable through Studio. Please note that all modules (e.g. Campaigns, etc.) using the Legacy user interface will display an asterisk (*) to the right of the module's name in Studio. The associated fields, labels, layouts, subpanels, etc. are grouped within each module. Click the plus sign (+) preceding the module name to expand the module tree and display the associated items (e.g. fields, layouts, etc.). Simply select an item in the Modules panel to load the view in the main panel to the right.



Please note that if you do not see the Modules panel, it may be collapsed. Locate the gray bar to the left of the main panel and click the Right arrow to expand the Modules panel.

>	Edit Fields	Edit Field ×	
_	🗲 🛍 Studio > Accounts > Fields		
	Add Field	Edit Labels	
	Name	⇔ Displa	
	name	Name	
	date_entered	Date Created	
	date_modified	Date Modified	
		Description	

Footer

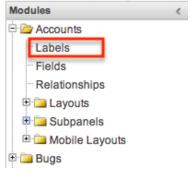
The footer is located at the bottom of Studio pages and displays buttons which enable you to navigate to the different areas (e.g. Dropdown Editor) of Developer Tools.

Home Studio Module Builder Sugar Portal Editor Drope The options in the footer allow you to nav	SIC Code
Menu Item	Description
Home	Navigates to the home page of the Developer Tools
Studio	Navigates to the home page of Studio
<u>Module Builder</u>	Opens Module Builder to create or edit modules
Sugar Portal Editor	Opens the Sugar Portal Editor to configure the Portal
<u>Dropdown Editor</u>	Opens the Dropdown Editor to modify dropdown options

Editing Labels

Labels are used throughout Sugar to designate field headers, subpanel titles, error messages, and more. To modify the labels for a module, select "Labels" from the

Modules panel under the desired module (e.g. Accounts). Please note that HTML tags are not supported in labels.



The Edit Labels tab will open in the main panel displaying all the labels associated with the module. Please note that you can change the language for the labels by selecting from the Language dropdown list.

Edit Labels		
< 🛍 Studio > A	.ccounts > Labels	
		Frequently used labels
Save & Deploy	Change Module Name	Frequently used labels 🗘
	Language: English (US)	
1		

If the label you wish to change cannot be found, change the filter dropdown option from "Frequently used labels" to "All Labels".

Edit Labels		
< 🛍 Studio > Accounts > Labels		
Save & Deploy Change Module	Name	Frequently used labels 🗘
Langua	ige: English (US)	

Modify the labels accordingly per the selected language and click "Save and Deploy" when complete. This will save your changes and instantly deploy them to your Sugar instance.

Edit Labels	
🗲 🛍 Studio > Accounts > Labels	
Save & Deploy Change Module Nam	Frequently used labels \$
Language:	English (US)

To change the name of the module, click "Change Module Name" to the right of the Save & Deploy button.

This will direct you to the Rename Modules page where you can change the labels for the module accordingly. For more information on how to rename modules, please refer to the <u>Rename Modules</u> section of the Developer Tools documentation.

Edit Labels	
🗲 🛍 Studio > Accounts > Labels	
Save & Deploy Change Module Nam	Frequently used labels 🗘
Language:	English (US)

Fields

The Fields section in Studio allows administrators to create new fields for stock and custom modules as well as update existing fields. To access the Fields section in Studio, select "Fields" from the Modules panel under the desired module (e.g. Cases) and the Edit Fields tab will open in the main panel.

Modules <	Edit Fields	_
🖲 🧰 Accounts	🗲 🛍 Studio > Cases > F	ields
🗉 🗀 Bugs		
🖲 🗀 Calls *	Add Field Edit Lab	els
🕀 🚞 Campaigns *		
🖻 🦢 Cases	Name 🕀	Display Label
Labels	name	Subject
Fields	date_entered	Date Created
Relationships	date_modified	Date Modified
	description	Description
E a Layouts	deleted	Deleted
🗉 🛄 Subpanels	case_number	Number
Mobile Layouts	type	Туре

Field Types

Studio comes out-of-the-box with many different types of fields which can be created in Sugar. Please note that the options and properties available when configuring the field varies for each data type.

The following data types are available when creating fields in Studio:

Data Type	Description
Address	Creates fields for street, city, postal code, state, and country.
	Note : Custom address fields cannot be grouped together like stock address fields (e.g. billing address).
Checkbox	Creates a checkbox for data fields with a Yes/No action.

Currency	Creates a field to enter a currency value. The system automatically creates a dropdown of the currency type if the field does not already exist in that module.
Date	Creates a field to enter a date. Includes a button for a calendar popup.
DateTime	Creates a field to enter the date and time. Includes a Calendar icon button to choose a date via the popup calendar, as well as a dropdown list to select the time.
Decimal	Creates a field to hold a number rounded to a specified decimal precision. Sugar stores the exact representation of the number in the database (e.g. For a precision of 2: 1.236 is stored as 1.24).
Dropdown	Creates a field where you can associate a dropdown list of values.
Encrypt	Creates a field for sensitive information, such as social security numbers, whose value is to be encrypted in the Sugar database. The value is encrypted using the Blowfish algorithm prior to being captured in the database. It is decrypted prior to display in the user interface to users. The first time an encrypted field is enabled, a unique key is automatically generated and stored on the filesystem in the file ./custom/blowfish/encrypt_field.php. This generated key is used for all subsequent field level encryption and decryption operations.
Flex Relate	Creates a dropdown list from which you can relate a single record from a variety of modules. Note: Only one Flex Relate-type field is allowed per module. Out of the box, the Flex Relate option is not available for the Accounts, Calls, Contracts, Meetings, Notes, and Tasks modules.

Float	Creates a field to hold a number rounded to a specified decimal precision. Sugar stores the value differently based on the database platform Sugar is running on.
HTML	Creates static HTML-formatted text to display in record views.
IFrame	Creates a field to store or generate a URL to display an iFrame in record views.
Image	Creates an image field to upload an image to display on a record.
Integer	Creates a field to specify positive or negative numbers with no decimal places.
MultiSelect	Creates a dropdown list of values where multiple values can be selected at once.
Phone	Creates a field to enter a phone number.
Radio	Creates a radio button for a user to select one value from a dropdown list.
Relate	Creates a field to associate a record with another module's record as a one- way relationship. You can add multiple Relate fields to a module.
	Note : Relate fields and custom relationships are independent of each other. Changes made to either one are not reflected in the other. Relate fields can be added to a report, but any data on the related record cannot be accessed in the report. To access related record data in a report you will need to create a custom relationship.
TextArea	Creates an open text area field for multiple lines of text.
TextField	Creates a field for a single line of text.
URL	Creates a field to store or generate a URL and display as a link.

Note: Name-type and ID-type fields cannot be created via Studio. Each stock

module and module created via Module Builder will have a Name-type and ID-type field. The Name-type field is automatically displayed in the header of each record view (for Sidecar modules) while the ID field is not available in Studio but is a part of the unique URL for each record.

Field Options

Fields provide ways to store different data types in Sugar. While many fields come with Sugar by default, there can be instances where your organization needs to create custom fields to store additional data.

Each field, depending on the data type, will have different properties and options available when configuring the field via Studio. Please note that some properties can exist across all data types and some are unique to only a few types.

The following properties and options are available for fields in Studio:

- Audit : Select this checkbox to audit the field for changes made in Sugar.
 - Users can view the changes made to audited fields via the View Change Log option in the module's record view (for Sidecar modules) or detail view (for Legacy modules).
 - Fields marked as "Audit" will generate update posts in the activity stream for Sidecar modules (e.g. Accounts, Contacts, etc.) whenever the field gets updated. For more information on activity streams, please refer to the <u>Activity Streams</u> documentation.
 - $\circ~$ Note: The Audit option is available for all data type fields.
- **Boost value** : Enter a boost value for the field to enhance the relevancy of the field for full-text search.
 - The default boost value is 1.0 which indicates a neutral boost. To apply a positive boost, set the boost value higher than 1. To apply a negative boost, use values lower than 1. For example a value of 1.35 will positively boost a field by 135%. But using a value of 0.60 will apply a negative boost.
 - **Note**: It is not necessary to perform a full system index when boost values are changed for fields.
- **Border** : Select this checkbox to add a border around the image for this field.

• **Note**: The Border option is only available for Image data type fields.

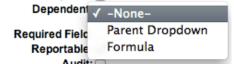
- **Calculated Value** : Select this checkbox to designate this field as a calculated field.
 - This opens up the Formula option and disables the Default Value and Importable options. For more information regarding entering a formula for a calculated value, please refer to the Formula option listed in this section.

Calculated Value: 🥑 🥡	
Formula:	Edit Formula

- The result of the formula will be entered into the field for any new or modified records. When selecting this option, the field value cannot be modified by users.
- **Note**: The Calculated Value option is only available for the following data type fields:

Checkbox	Currency
Date	Datetime
Decimal	Encrypt
Float	Integer
Phone	TextArea
TextField	

- **Columns** : Enter the number of columns to specify the width of a TextArea data type field.
 - **Note**: The Columns option is only available for TextArea data type fields.
- **Comment Text** : Enter a comment or description about the field. The comment text is only viewable via Studio.
 - **Note**: The Comment Text option is available for all data type fields except Flex Relate.
- **Default Value** : Specify or select a default value for this field when a record is created. Default values for the record are populated by default on the record view (for Sidecar modules) and edit view (for Legacy modules) layout but can be modified by users.
 - **Note**: The Default Value option is available for all data type fields except HTML, Image, Flex Relate, and Relate.
- **Dependent** : Select this option to designate this field as being dependent on a formula or a parent dropdown.
 - For dropdown data type fields you can select "Parent Dropdown" or "Formula" for the dependency.



 Selecting "Parent Dropdown" will open the Parent Dropdown option as shown below. Selecting "Formula" will open the "Visible If" option to create a dependency formula. For other field data types (e.g. Date), select the Dependent checkbox to open the Visible If option. For more information regarding entering a formula to make a dependent field visible, please refer to the Visible If option listed in this section.

Dependent: 🥑 🥡	
Visible If:	Edit Formula

- **Note**: The Dependent option is available for all data type fields except Address.
- **Disable Format** : Select this checkbox to disable number formatting such as the thousands separator.
 - **Note**: The Disable Format option is only available for Integer data type fields.
- **Display Label** : Enter a value to display as the field label and header in layouts. Normally defaults to the Field name entered when creating field.
 - This value is also modifiable via the Labels section of Studio.
 - **Note**: The Display Label option is available for all data type fields except Flex Relate. Flex Relate uses the Label Value option.

4

• **Drop Down List** : Select a list of values to associate to the field. Drop Down List: mydd_list

myuu_	iist
Edit	Add

- Only values in the chosen list will be available for selection in the field. Click "Edit" to change the values for the currently selected list, or click "Add" to create a new list.
- **Note**: The Dropdown List option is only available for the dropdown, multiselect, and radio data type fields. For more information on editing dropdown values via the Dropdown Editor, please refer to the Editing Dropdown Lists section of the Developer Tools documentation.
- **Duplicate Merge** : Select one of the following options to determine the field's functionality when records are being merged:
 - **Disabled** : Selected by default. The field will not appear on the Merge Duplicates screen.
 - **Enabled** : The field will appear on the Merge Duplicates screen.
 - In Filter : (Legacy/BWC modules only) The field will appear in the Merge Duplicates feature, and will also be available in the Find Duplicates feature.
 - **Default Selected Filter** : (Legacy/BWC modules only) The field will be used for a filter condition by default in the Find Duplicates page, and will also appear in the Merge Duplicates feature.
 - Filter Only: (Legacy/BWC modules only) The field will not appear in the Merge Duplicates feature but will be available in the Find Duplicates feature.
 - Note: The Duplicate Merge option is available for all data type fields except Image.
- Field Name : Enter the name of the field being created. Once a field has been created the field name cannot be changed.
 - Field names can contain only alphanumeric characters as well as the underscore character.

- $\circ~$ Custom fields added via Studio are automatically appended with "_c" to ensure the field does not conflict with a current or future stock field.
- **Note**: The Field Name option is required for all data type fields.
- **Full Text Searchable** : Specify whether or not the field should affect Global Search results.
 - Disabled : Select "Disabled" if you do not want this field to be captured when the database is indexed for searches. Search indices collect the values of searchable fields for evaluation by the Global Search.
 - $\circ~$ Searchable : Select "Searchable" to include this field's value in search indexes.
 - Selecting "Searchable" will reveal the Boost value field, which allows you to set a relevance weight for searches. When a user's search query matches the value of a field with a higher boost level, the record will appear higher in the search results. For more information regarding boost values in Full-Text Search, please refer to the <u>Search</u> documentation in the Application guide.
 - The Full Text Searchable option is only available for the following data type fields:

Ph	one	TextArea
Tex	xtField	URL

- **Note**: For a list of searchable fields for each module for global search, please refer to the <u>Search</u> documentation in the Application guide.
- Formula : Contains the current formula to return a calculated value.
 - Click "Edit Formula" to launch the formula builder and change the formula. For more information on how to build a formula using the formula builder, please refer to the <u>Using Sugar Logic</u> section of this documentation.

Iculated Value:			
Formula:	ifElse(equal(\$account_	Edit Formula	

- **Note**: The Formula option is only available when the Calculated Value option is selected when editing or creating a field.
- **Generate URL** : Select this checkbox to allow variables from the current module to be placed into the Default Value option for creating dynamic URLs.

Generate URL:

billing_address_postalcode	\$	Insert Field
----------------------------	----	--------------

Default Value: 1/maps?q=[billing_adc

 $\circ~$ This is useful for providing links or iFrames to internal systems

such as an ERP or to external systems such as Google Maps.

- Select the desired field to add from the dropdown and click "Insert Field" to add the field to the Default Value. When selecting this option, the field value cannot be modified by users.
- **Note**: The Generate URL option is only available for the IFrame and URL data type fields.
- **Height** : Enter the number of pixels to vertically scale the image for this field. Enter only the Width or Height options to retain the aspect ratio of the image.
 - **Note**: The Height option is only available for Image data type fields.
- **Help Text** : Enter basic instructions for populating this field. The text entered here will display below the field when creating or editing a record for modules using the Sidecar user interface. For modules using the Legacy user interface, the help text will appear when users hover their mouse within the field in the Edit View layout.
 - **Note**: The Help Text option is available for all data type fields.
- **HTML** : Enter static rich text with formatting or HTML code to display on a record. For more information on how to use the text editor please refer to the <u>TinyMCE</u> section of the User Interface documentation in the Application guide.

	U					
HTML:	HTML	0	В	I	<u>U</u>	ABC
	Ж	Đ	(Ē (d (4	<u>1</u>
					• B.	-
	Hell	o, w	orld!			

• **Note**: The HTML option is only available for HTML data type fields.

- **IFrame Height** : Enter the number of pixels for the height of the IFrame field. The width of the IFrame field is always the width of the field container.
 - **Note**: The IFrame Height option is only available for IFrame data type fields.
- **Importable** : Select one of the following options to determine the field's functionality when records are being imported:
 - **Yes** : The field can be included in an import operation.
 - $\circ~\textbf{No}:$ The field cannot be included in an import.
 - **Required** : A value for the field must be provided in any import.
- Label Value : Enter a value to display as the field label and header in layouts. This value is also modifiable in the Modules panel under <u>Labels</u>. Defaults to "Flex Relate".
 - **Note**: The Label Value option is only available for Flex Relate data type fields.
- **Mass Update** : Select this checkbox to add this field as an option to mass update.
 - **Note**: The Mass Update option is only available for the following data type fields:

Date	Datetime
Dropdown	MultiSelect
Radio	

- **Max Size** : Enter the maximum number of characters (or, for DB2 databases, the maximum number of bytes) allowed for this field. Defaults to 255.
 - **Note**: The Max Size option is only available for the following data type fields:

<u>-5 F</u>	
Address	Decimal
Float	IFrame
Integer	Phone
URL	TextField

- **Max Value** : Enter the highest value allowable for this field. If a user enters a higher value in the field than the specified value, a notification will appear upon save informing them of the set maximum value.
 - **Note**: The Max Value option is only available for Integer data type fields.
- **Min Value** : Enter the lowest value allowable for this field. If a user enters a value in the field that is lower than the specified value, a notification will appear upon save informing them of the set minimum value.
 - **Note**: The Min Value option is only available for Integer data type fields.
- **Module** : Select a module from the dropdown to relate to the current module.
 - A module can relate back to itself, a good example of this would be a relate field on Contacts to relate back to Contacts for a referred by field. This will allow users to select which contact record referred a different contact. The chosen module cannot be modified once the field is created.

Module: Contacts \$

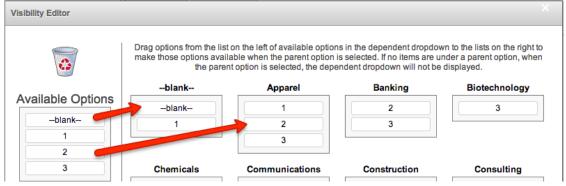
- **Note**: The Module option is only available for Relate data type fields.
- **Open Link In** : Select one of the following options to determine how a URL will open:
 - **New Window** : Opens the URL in a new Tab or Window depending on your browser and settings.
 - **Same Window** : Opens the URL in the same window as the record you are currently browsing.
 - **Note**: The Open Link In option is only available for URL data type fields.
- **Parent Dropdown** : Select an option from the dropdown to specify the

parent that controls the visibility of this dropdown field.

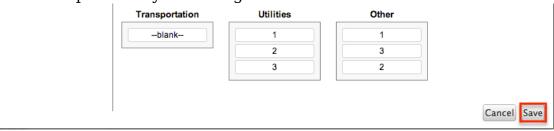
 The Parent Dropdown option is populated with the other dropdown data type fields in the current module.

Dependent:	Parent Dropdown 💲		
Parent Dropdown:	Industry 🗘 Edit	Visibility	

- **Note**: The Parent Dropdown option is only available when the Dependent option has "Parent Dropdown" selected.
- Click "Edit Visibility" to specify which options are available from the current dropdown for each value of the parent dropdown. In the Visibility Editor window, drag values from the current dropdown list to the value sections of the parent dropdown.



 This will determine which options in the dropdown list are available when the parent dropdown is set to the specified value. In this example, if the parent dropdown is set to "Apparel", then the current dropdown will have options 1, 2, and 3 where if the parent dropdown is set to "Banking", then the current dropdown will only have options 2 and 3 available. If there are no available options for a parent dropdown value, then the dependent dropdown will not display. To remove an item from the list, simply click and drag the value to the Trash bin on the left. Once the values are set, click "Save" to preserve your changes.



- **Precision** : Enter a number to specify the number of digits to the right of the decimal point the value should be stored as in Sugar.
 - **Note**: The Precision option is only available for the Decimal and Float data type fields.
- **Reportable** : Select this checkbox to allow the field to be used in reports.
 - **Note**: The Reportable option is available for all data type fields except Encrypt, Flex Relate, HTML, IFrame, and Image.
- Required Field : Select this checkbox to mark the field as required in

Sugar. The user will be required to enter a value for the field when saving the record.

- **Note**: The Required option is available for all data type fields except Checkbox and HTML.
- **Rows** : Enter the number of rows to specify the height of a TextArea data type field.
 - **Note**: The Rows option is only available for TextArea data type fields.
- **System Label** : Enter the system value for storing the label of the field. This is defaulted to the name of the field preceded with "LBL_". Any lowercase characters entered will be converted to an uppercase upon saving. Once the field has been created, the system label cannot be changed.
 - It is recommended that administrators avoid naming fields with the same system label in order to prevent the same label and header values from existing in the system.
 - **Note**: The System Label option is available for all data type fields.
- **Visible If** : Contains the current formula to determine if a field is visible on the layout or not. Click "Edit Formula" to launch the formula builder to change the formula.

Dependent:	J (i)	
Visible If:	equal(\$name,"SugarCF	Edit Formula

- The formula must result in a Boolean (true/false) response. For more information on how to build a formula using the formula builder, please refer to the <u>Using Sugar Logic</u> section of this documentation.
- **Note**: The "Visible If" option is only available when the Dependent option is checked or "Formula" is selected from the dropdown.
- Width : Enter the number of pixels to horizontally scale the image for this field. Enter only the Width or Height options to retain the aspect ratio of the image.
 - $\circ~$ Note: The Width option is only available for Image data type fields.

Creating Fields

Use the following steps to create a new field via Studio:

1. Expand out the tree under the desired module (e.g. Cases) in the Modules panel and select "Fields".

Modules	<
🖻 🧀 Accounts	
🗉 🚞 Bugs	
🗉 🧀 Calls *	
🖲 🗀 Campaigns *	
🖻 🧁 Cases	
Labels	
Fields	
Relationships	
🗉 🗀 Layouts	
🗉 🗀 Subpanels	
🗉 🗀 Mobile Layouts	
🗉 🧀 Contacts	

2. In the main panel, click "Add Field".

Edit Fields		
🗲 🋍 Studio > Cases :	> Fields	
Add Field Edit L	abels	
Name	Display Label	
case_number	Number	
date_entered	Date Created	
date_modified	Date Modified	
deleted	Deleted	

- 3. Enter appropriate values for the <u>Field Options</u>. **Note**: Field Name is required.
- 4. Once the necessary information is entered, click "Save".

Edit Fields	Edit Field ×
Save	cel Delete Clone
Data Type: D	DropDown
Field Name:	support_level
Display Label:	Support Level
System Label:	LBL_SUPPORT_LEVEL
Help Text:	The current support le
Comment Text:	
Drop Down List:	support_level_list
	Edit Add
Default Value:	Standard \$
Mass Update: Dependent:	✓ -None- ♦
Required Field:	

Please note that once a field is created, it must be placed on the record view (for Sidecar modules) or edit view (for Legacy modules) layout before users can enter data into that field. For more information on editing layouts, please refer to the <u>Editing Layouts</u> section of this documentation.

Editing Fields

Use the following steps to edit an existing field via Studio:

<

1. Expand out the tree under the desired module (e.g. Cases) in the Modules panel and select "Fields".



- 2. In the main panel, select a field to edit. Sorting the fields by the column header will help in locating the field faster.
 - **Note**: Fields created via Studio will display an asterisk next to their names.

Cases	s > Fields	
Add Field Edit	Labels	
Name	Display Label	⇔ Type
case_number	Number	Integer
date_entered	Date Created	Datetime
date_modified	Date Modified	Datetime
deleted	Deleted	Checkbox
description	Description	TextArea
name	Subject	Name
portal_viewable	Show in Portal	Checkbox
priority	Priority	DropDown
resolution	Resolution	TextArea
status	Status	DropDown
* support_level_c	Support Level	DropDown
system_id	System ID	Integer
type	Туре	DropDown
work_log	Work Log	TextArea

- 3. Enter appropriate values for the <u>Field Options</u>.
- 4. Once the necessary information is entered, click "Save".

Edit Fields Edit Field ×				
Save Cancel Clone				
Data Type: TextArea Field Name: description				
Display Label:	Description:			
System Label:	LBL_DESCRIPTION			
Help Text:	Enter in a detailed Des			
Comment Text: Case details.				
Rows:	6			
Columns:	80			

Deleting Fields

Use the following steps to delete an existing field via Studio:

1. Expand out the tree under the desired module (e.g. Cases) in the Modules panel and select "Fields".



- 2. In the main panel, select a field to delete. Sorting the fields by the column header will help in locating the field faster.
 - Fields created via Studio will display an asterisk (*) next to their names.
 - Note: Stock fields cannot be deleted.

Edit Fields	e > Fielde	
	t Labels	
Name	Display Label	🕀 Туре
case_number	Number	Integer
date_entered	Date Created	Datetime
date_modified	Date Modified	Datetime
deleted	Deleted	Checkbox
description	Description	TextArea
name	Subject	Name
portal_viewable	Show in Portal	Checkbox
priority	Priority	DropDown
resolution	Resolution	TextArea
status	Status	DropDown
* support_level_c	Support Level	DropDown
system_id	System ID	Integer
type	Туре	DropDown
work_log	Work Log	TextArea

3. Click "Delete" to remove the field.

Edit Fields	Edit Field ×	
Save	cel Delete Clone	
	support_level_c	
Display Label:	Support Level	
System Label:	LBL_SUPPORT_LEVEL	
Help Text:	The current support le	
Comment Text:		
Drop Down List:	support_level_list	*
	Edit Add	

- 4. A pop-up message will display asking for confirmation. Click "Ok" to proceed.
 - When deleting fields, both the field and all the data related to the field in the database will be permanently removed. Before deleting a field, confirm that the field is no longer used or displayed in the following places:
 - Report filters or display columns
 - Workflows that filter by or display the field
 - Dashlets that filter by or display the field
 - Sugar Logic formulas for other fields
 - Email templates
 - Saved searches (legacy modules)
- 5. The field will automatically be removed from any module layouts when deleted.

Cloning Fields

Use the following steps to clone an existing field via Studio:

1. Expand out the tree under the desired module (e.g. Cases) in the Modules panel and select "Fields".



- 2. In the main panel, select a field to delete. Sorting the fields by the column header will help in locating the field faster.
 - **Note**: Fields created via Studio will display an asterisk (*) next to their names.

Edit Fields		
🗲 🛍 Studio > Cases > Fi	ields	
Add Field Edit Lab	pels	
Name 🗧	Display Label 🗧	Type 🗧
case_number	Number	Integer
date_entered	Date Created	Datetime
date_modified	Date Modified	Datetime
deleted	Deleted	Checkbox
description	Description	TextArea
name	Subject	Name
portal_viewable	Show in Portal	Checkbox
priority	Priority	DropDown
resolution	Resolution	TextArea
status	Status	DropDown
* support_level_c	Support Level	DropDown
system_id	System ID	Integer
type	Туре	DropDown
work_log	Work Log	TextArea

- 3. Select "Clone" to duplicate the field.
 - **Note**: Some non-standard stock fields (e.g. Name) do not have the ability to clone.

Edit Fields	Edit Field ×	
Save Can	cel Delete Clone	
	support_level_c	
Display Label:	Support Level	
System Label:	LBL_SUPPORT_LEVEL	
Help Text:	The current support le	
Comment Text:		
Drop Down List:	support_level_list	÷
	Edit Add	

- 4. Enter appropriate values for the <u>Field Options</u>.
- 5. Once the necessary information is entered, click "Save".

Edit Fields	Edit Field ×	
Save Can	cel	
Data Type: D	PropDown	
Field Name:	secondary_support	
Display Label:	Secondary Support	
System Label:	LBL_SECONDARY_SUPF	
Help Text:	The current support le	
Comment Text:		
Drop Down List:	support_level_list	\$
	Edit Add	
Default Value:	Standard 🗘	
Mass Update:	J.	
Dependent:	-None-	
Required Field:		

Relationships

Relationships define the links between different modules in Sugar and allow records between those modules to be related. Related records display in fields or subpanels on a module's record view (for Sidecar modules) or detail view (for Legacy modules) depending on the relationship type. When you create a new relationship between two modules, the system automatically creates the necessary subpanels, related fields, and metadata relationships. Relationships provide the added benefit in reports to allow access to a related records fields in addition to the base module's fields.

The relationships section in Studio allows administrators to create new relationships between custom and stock modules as well as change some properties on existing relationships. To access the Relationships section in Studio, select "Relationships" from the Modules panel and the module's relationship tab

will open in the main panel.
Modules <
P accounts
Labels
Fields
Relationships
🗉 🗀 Layouts
🖲 🚞 Subpanels
😐 🚞 Mobile Layouts
🖲 🧰 Bugs

Relationship Types

Sugar contains a few different types of relationships you can create between modules. The relationship type will determine which fields or tables will be created in the database as well as what the interface will look like to the user when managing relationships for the affected records.

When you create a relationship between modules, the module you initiate the relationship from is considered the primary module and the module that you relate it to is the related module.

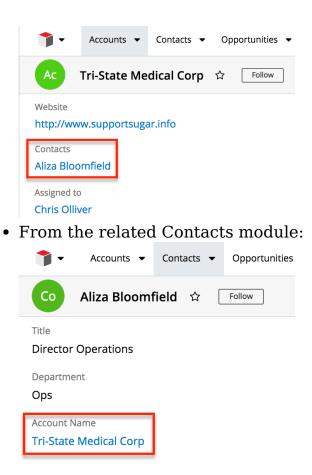
The following sections explain the relationship types available in Studio.

One-to-One Relationships

When records in the primary module and the related module are uniquely related to each other, you have a one-to-one relationship. In other words, each primary record will relate to only one related record and vice-versa.

As an example, in a one-to-one relationship between Accounts and Contacts, an account can be associated with only one contact and a contact can be associated with only one account. The relationship will show as a field in each module's record view. For this two-way relationship, changing the related record from one module's record will also change the value in the other module's record.

• From the primary Accounts module:



Note: You can alternatively create a one-way relationship between modules using relate fields. For more information regarding relate fields, please refer to the <u>Field</u> <u>Types</u> section of this documentation.

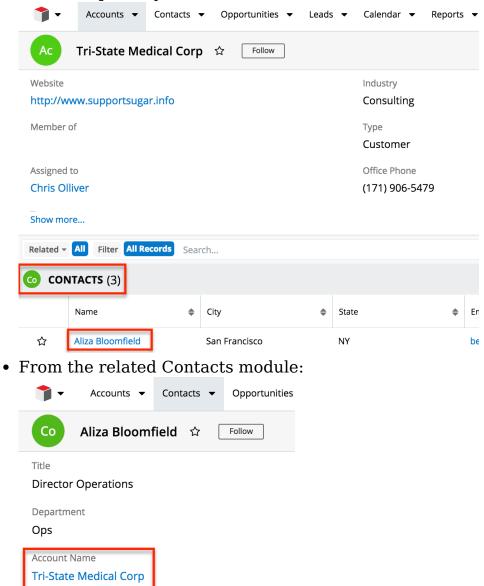
One-to-Many and Many-to-One Relationships

In one-to-many relationships, one primary record may relate to many records in the related module, but the related module records will only be able to relate to one primary record. This is often referred to as a parent-child(ren) relationship.

Note: Only modules with subpanels available can be on the "Many" side of a relationship. For example, the Product Catalog module lacks a subpanel; therefore, Product Catalog can only be selected on the "One" side of a relationship.

As an example, in a one-to-many relationship between Accounts and Contacts, an account can be associated with many contacts, but each contact can be associated with only one account. The record view of the primary module will display a subpanel for the related module, and the record view of the related module will display a field containing a link to the related record.

A one-to-many relationship is the same as a many-to-one relationship except the primary and related modules are reversed.



• From the primary Accounts module:

You can also create a one-to-many relationship between a module and itself. For example, Sugar relates Accounts to Accounts in order to allow "Member Organization" sub-accounts within the primary "Member of" parent account.

Note: Adding a custom one-to-many relationship to "Activities" will add custom relationships to calls, meetings, notes, tasks, and emails. This will also automatically add these subpanels to the record view.

Many-to-Many Relationships

In many-to-many relationships, many primary records may be related to many related records, often overlapping. For example, the contact Joe Smith may relate to many different Sugar campaign records, and each of those campaign records may relate to many contacts in addition to Joe Smith.

For a many-to-many relationship between Accounts and Contacts, an account could be associated with many contacts, and a contact, in turn, could be associated with many accounts. Both modules' record views would display a subpanel for the opposite module.

Note: Only modules with subpanels available can be on the "Many" side of a relationship. For example, the Product Catalog module lacks a subpanel; therefore, Product Catalog can only be selected on the "One" side of a relationship.

Creating Relationships

Use the following steps to create a new relationship via Studio:

1. Expand the tree under the desired module (e.g. Cases) in the Modules panel and select "Relationships".



2. In the main panel, click "Add Relationship".

Accounts Relationships		
🗲 🛍 Studio > Accounts > Rela	ationships	
Add Relationship		
Name	Primary Module	e ⇔
quotes_billto_accounts	Accounts	Many
quotes_shipto_accounts	Accounts	Many
documents_accounts	Documents	Many
accounts_modified_user	Users	One t
accounts created by	Users	One t

3. Enter appropriate values for the following options: **Type** : Select the type of relationship to create from the options in the <u>Relationship Types</u> section.

 ${\bf Module}:$ The Primary module is set as the module to which you are adding the relationship. Select the related module from the dropdown list to the

right. The Primary and Related module can be the same in order to create a parent-child relationship.

Label : Enter a label to reference the Primary module or Related module's subpanels for this relationship.

• **Note**: This option is only available for the "Many" side of a **Subparelafirons**hißelect a subpanel option to display the Primary or Related module's records in. This will determine the fields displayed in the subpanel.

- **Note**: This option is only available for the "Many" side of a relationship.
- 4. Once the necessary information is entered, click "Save & Deploy".

Cases Relationships	Edit Relationship ×			
Save & Deploy Cancel				
Language: English (US) \$			
Primary Module		Туре	Relate	d Module
Module:	Cases	Many to Many 💲	Module:	Products \$
Label:	Product Cases		Label:	Products Affected
Subpanel from Cases:	default \$		Subpanel from Products:	ForProducts \$

5. The required fields and subpanels are instantly created and deployed to the appropriate modules.

Editing Relationships

Use the following steps to edit a relationship via Studio:

1. Expand out the tree under the desired module (e.g. Cases) in the Modules panel and select "Relationships".



- 2. In the main panel, select a relationship to edit.
 - Sorting the column header will help in locating the relationship faster.

• **Note**: Relationships created via Studio will display an asterisk next to their names.

Cases > Relations	hips		
Add Relationship			
Name	🗧 Primary Module 🗧	Type 🗧	Related Module
case_kbdocuments	Cases	One to Many	Knowledge Base
cases_bugs	Cases	Many to Many	Bug Tracker
contacts_cases	Contacts	Many to Many	Cases
projects_cases	Projects	Many to Many	Cases
documents_cases	Documents	Many to Many	Cases
cases_products_1*	Cases	Many to Many	Products
cases_modified_user	Users	One to Many	Cases
cases_created_by	Users	One to Many	Cases
cases_assigned_user	Users	One to Many	Cases
case_calls	Cases	One to Many	Calls
case_tasks	Cases	One to Many	Tasks
case_notes	Cases	One to Many	Notes
case_meetings	Cases	One to Many	Meetings
account cases	Accounts	One to Many	Cases

- 3. The only editable field on a relationship is the Label field for naming the Primary or Related modules subpanels.
 - **Note**: This option is only available for the "Many" side of a relationship.
- 4. Once the necessary information for the Label field is entered, click "Save".

Туре	Related	Module
Many to Many 🗘	Module:	Products
	Label:	Products Affected
	Subpanel from Products:	ForProducts
	Туре	Type Related Many to Many \$ Module: Label: Label:

Deleting Relationships

Use the following steps to delete a relationship via Studio:

1. Expand out the tree under the desired module (e.g. Cases) in the Modules panel and select "Relationships".

Modules	<
🖻 🧀 Accounts	
🕀 🚞 Bugs	
🗉 🗀 Calls *	
🗉 🗀 Campaigns *	
🖻 🗁 Cases	
Labels	
Fields	
Relationships	
🗉 🗀 Layouts	
🖲 🗀 Subpanels	
🖻 🗀 Mobile Layouts	

- 2. In the main panel, select a relationship to delete.
 - Sorting the column header will help in locating the relationship faster.
 - **Note**: Relationships created via Studio will display an asterisk next to their names.

🗧 🛍 Studio > Cases > Relations	ships		
Add Relationship			
Name	Primary Module	🖯 Туре	Related Module
case_kbdocuments	Cases	One to Many	Knowledge Base
cases_bugs	Cases	Many to Many	Bug Tracker
contacts_cases	Contacts	Many to Many	Cases
projects_cases	Projects	Many to Many	Cases
documents_cases	Documents	Many to Many	Cases
cases_products_1*	Cases	Many to Many	Products
cases_modified_user	Users	One to Many	Cases
cases_created_by	Users	One to Many	Cases
cases_assigned_user	Users	One to Many	Cases
case_calls	Cases	One to Many	Calls
case_tasks	Cases	One to Many	Tasks
case_notes	Cases	One to Many	Notes
case_meetings	Cases	One to Many	Meetings
account_cases	Accounts	One to Many	Cases

3. Select "Delete" to remove the relationship.

Cases Relationships	Edit Relationship \times				
Save Cancel Delete					
Language: English (US	5) *				
Name: cases_products_1					
Primary Module		Туре	Related Module		
Module:	Cases	Many to Many 🗘	Module:	Products	
Label:	Product Issues		Label:	Products Affected	
Subpanel from Cases:	default		Subpanel from Products:	ForProducts	

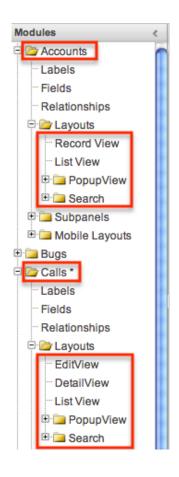
4. A pop-up message will display asking for confirmation. Click "Yes" to proceed.

- Note: If you wish to retain the data and table structure that currently exists for the relationship, select the "Do Not Remove Tables" option. Leaving the "Do Not Remove Tables" unchecked will delete the relationship data and remove the tables for the relationship from the database.
- Before deleting a relationship please verify and resolve the following issues:
 - Relationship must be removed from any report filters or displays
 - Relationship must be removed from any workflows that filters or displays fields from the relationship
 - Relationship must be removed from any Sugar Logic formulas referencing the relationship

Alert ×	
Are you sure you wish to delete this relationship?	,
Do Not Remove Tables	
Yes No	

Layouts

The layouts in Studio are used to represent the various views (e.g. record view, list view, edit view, etc.) in Sugar. Users with administrator or developer access have the ability configure these layouts via Admin > Studio. Please note that the layouts available to configure will vary based on whether the module uses the Sidecar or Legacy user interface. All modules using the Legacy user interface will display an asterisk (*) to the right of the module's name in Studio. The available layouts for the selected module will appear once you open up the Layouts option.



Layout Types

Sugar comes with different types of layouts to represent different sections of Sugar. Please note that not all layouts are available in every module.

The following layout options are available in Sugar:

- **Convert Lead** : The Convert Lead layout can be configured to mark modules as required for lead conversion, add or remove modules from the convert lead layout, etc. Please note that the Convert Lead layout is only available for the Leads module. For more information on modifying the Convert Lead layout, please refer to the <u>Editing Convert Lead Layout</u> section below.
- **Record View(for Sidecar modules)** : Record view is used to modify, create, or view the current record's details within a specified module. This layout is specific to modules using the Sidecar user interface and controls the layout for viewing, creating, and editing a record, as well as the quick-create layout and the fields displayed when the record is viewed via the preview pane.
- Edit View (for Legacy modules) : Edit view layout is used to modify or create records in the specified module.

- **Detail View(for Legacy modules)** : Detail view layout is used to view the current data for a record within the specified module.
- **List View** : List view layout is used to view multiple records within the specified module. The list view is also used for displaying the results from module search (for Sidecar modules), as well as Basic or Advanced search (for Legacy modules).
- **Quick Create (for Legacy modules)** : Quick Create layout is used in Sugar to quickly view and modify records within a specified module without having to navigate away from the current page. For example, logging a call from the Quotes detail view will open up the call's quick create form.
- **Popup List View** : Pop-up list view layout is used to view a list of records in a pop-up window when selecting one or more records to relate to a current record.

Account List

			K (1 - 1	of 1) >>>
Acct. Name \Leftrightarrow	City 🗧	State 🔤	Country 🗧	User 🔤
SugarCRM Inc	Cupertino	California	United States	Administrator
			K (1 - 1	of 1) 🔊 🔊

• **Popup Search(for Legacy modules)** : Pop-up search layout allows users to search for records in the pop-up window to relate to a current record and appears above the pop-up list view in the same window. Legacy modules (e.g. Quotes) use this layout for pop-up searching while Sidecar modules (e.g. Accounts) use the Search layout's configuration. Account Search

Name	Sugar	Billing City		?
Billing State		Billing Country		
Any Email		Assigned to	Administrator Will Westin	
Search	Clear			

• **Search** : Search layout is used to allow users to search for records from a module's list view via module search (for Sidecar modules) or Basic and Advanced search (for Legacy modules). This layout is also used by Sidecar modules on the pop-up search and select. In addition, changes made to the Search layout for Sidecar modules affects the list of available fields to filter for the module's list view dashlet (e.g. My Contacts) since it is controlled by the same layout as well.

Note: Encrypt fields cannot be added to Search layouts.

Layout Options

Administrators have the ability to configure the various layouts (e.g. record view, list view, etc.) available via Studio. The following are some of the options available to administrators when configuring layouts in Studio.

Record views may be configured to display differently <u>based on the viewing user's</u> <u>role</u>.

Panels

Every field on a layout is contained within a panel, which can be organized to contain groups of similar or related fields to assist in organization. Modules using the Legacy user interface will have fields grouped by default into the Overview and Other panels while modules using the Sidecar user interface will have the Business Card and Show More panels. You can change the panel header titles by clicking the Pencil icon to the right of the panel name.

Note: You can have the panel collapsed by default on the Record View, Edit View, or Detail View by marking the Collapse? checkbox to the far right of the panel header.

Record View layout (for Sidecar modules):

View History	Restore Default Layout	Role: Default	\$
Layout			
Busi	ness Card 🕜 Display Ty	vpe (i) : Panel 🛊	Collapse?
V	Vebsite 🤇	Industry	\checkmark
Ν	Nember of	Туре	\bigcirc
A	Assigned to	Office Phone	0
Edit View	v layout (for Le	egacy modules	5):
View History	Restore Default Layout	Sync to DetailView	i
Layout			
Over	view 🕗 Display Type	i) : Panel 🜲	Collapse?
Ν	lame 🧭	Status	\oslash
S	Start Date 🥥	Priority	\bigotimes
E	End Date		\bigcirc

Tabs

Each of the panels (Business Card, Overview, etc.) may optionally be displayed as tabs in the layout. You can also nest panels within other panels defined as tabs. For example, if you set the Business Card panel as a "Tab" and leave "Show More" as a panel in the Record View layout, the Show More panel will appear within the Business Card tab.

View History	Restore Default Layout	Role: Default	*
Layout			
Busi	ness Card 🧭 Display Typ		Collapse?
V	Website 🧭		\bigcirc
Γ	Member of 🥢	Туре	\bigotimes
F	Assigned to	Office Phone	\bigcirc
E	Tags		\bigcirc
Show	w More 🧭 Display Type	i Panel	Collapse?
E	Billing Address ** 🛛 🕜	Shipping Address **	$\overline{\checkmark}$

Every panel listed under a Tab display type will be a panel within the tab until the next Tab display type panel is reached. So if you add a new panel below "Show More" and set both the Business Card and Show More panel as "Tabs", then the newly added panel will appear within the Show More tab.

Restoring Layouts

Sugar keeps a history of the changes made to each layout. You can preview and restore historical layouts via "View History". For more information on viewing the history of layouts, please refer to the <u>Viewing Layout History</u> section of this documentation.

It is also possible to restore the Record View, Detail View, etc. layouts back to the default out-of-the-box layout. For more information on how to reset a layout to default, please refer to the <u>Restoring Default Layouts</u> section in this documentation.

Note: When using role-specific record view layouts, the functionality of the Restore Default Layout button changes depending on which the Role dropdown's selection. Please refer to the <u>Restoring Customized Role-Views to the Default Role-View Layout</u> section for more information.

Sync And Copy (Legacy Modules)

Sugar provides administrators with the ability to sync and copy certain layouts to assist in configuring layouts. Often it makes sense for a module's edit view and detail view layouts to be identical. Instead of having to duplicate any changes made to one layout, administrators can configure the detail view layout to be synced to the edit view layout.

To sync the layouts, select the Sync to DetailView checkbox on the upper right of the EditView layout and click "Save & Deploy".



The current detail view layout will be replaced with the current edit view layout. At this point, changes cannot be made to the DetailView layout in Studio, but any changes made to the EditView layout will automatically be synced to the DetailView layout when saved.

As an alternative to syncing the layouts, administrators can copy the layout from the EditView to the DetailView or QuickCreate layouts. This is especially useful if you want the layouts to be similar, but different. Make any necessary changes to the EditView layout, then navigate to either the DetailView or QuickCreate layout. Select "Copy from EditView" to replace the current layout with details from the EditView layout. Once copied, you can continue to edit the DetailView layout as you wish.



Note: The copy feature is a one-time copy of the layouts. Any future changes to the EditView layout will not be reflected on the DetailView layout without performing the copy again.

Editing Layouts

You can add, remove, hide, etc. the fields for the available layouts in the module by selecting the specific layout under the Modules panel to edit. Please note that the List View, PopupView, and Search layouts have columns where you can designate fields users can and cannot see.

Record views may be configured to display differently based on the viewing user's

<u>role</u>.

Editing Record View Layout

The following steps cover editing the Record View layout for the Accounts module as an example:

1. Expand "Layouts" from the Modules panel under the Accounts module and select "Record View". The Record View layout will display in the main panel to the right.

Modules <	Record View	
Accounts	🗲 🛅 Studio > Accounts >	> Layouts > Record View
Fields	Save Save & Deploy	View History Restore Default Layout Role: Default
Relationships	Toolbox	Layout
E Layouts		Business Card 🧭 Display Type 🕖 : Panel 🛊 Collapse?
" Record View		Business card O Display Type O : Pariel -
List View		Website 🖉 Industry 🖉
🕀 🚞 PopupView		Member of Type
🗉 🚞 Search	New Panel	Member of O
🗈 🗀 Subpanels		Assigned to Office Phone
🗈 🚞 Mobile Layouts	New Row	

- 2. To add a field to the Record View layout, drag the field from the list of fields in the Toolbox to a "(filler)" location on the layout per your preference.
 - You can also drag a field to a location on the layout that already has a field in place. The newly added field and the existing field on the layout will swap places.

Reco	rd View				
🗲 🛍 I	Studio > Accounts > La	ayouts > Record	d View		
Save	Save & Deploy	View History	Restore Default Layo	ut Role: Default	*
Toolbo	xc	Layout			
	~	Busi	iness Card 🧭 Display ⁻	Type 🛈 : Panel 🛊	Collapse?
-			Website	Industry	\bigcirc
New	Panel	ľ	Member of	⊘ Туре	\checkmark
New		Google (Ansignmed to	Office Phone	\checkmark
(filler)			filler)	(filler)	
Facel	book Account				
		Sho	w More 📀 Display Typ	e 🕧 : Panel 🜲	Collapse?

3. To remove a field from the layout, drag and drop the field from the layout to the trash bin in the toolbox to remove the field from the layout. You may remove an entire row in the layout using the same method.

	rd View	> Lavouts	> Record	View		
Save	Save & Deploy	View	History	Restore Default Layout	Role: Default	\$
Toolb	ox		Layout			
	Office Phone	2		ness Card 🖉 Display Typ Website 🧭	e (i) : Panel 🜲	Collapse?
New	/ Panel		١	Member of	Туре	\bigcirc
	/ Row		4	Assigned to		

- 4. To expand or minimize the field column in the layout, click the Plus icon (+) to stretch the field over two columns or click the Minus icon (-) to fit the field into one column.
 - **Note**: The layout will display a "(filler)" if there is no field in that location.

Reco	rd View				
ا 🖬 🕈	Studio > Accounts >	Layouts > Recor	rd View		
Save	Save & Deploy	-	Restore Default Layout	Role: Default	*
Toolb		Layout			
	-	Bus	siness Card 🧭 Display Typ	e 🕧 : Panel 🛊	Collapse?
-	1		Website 🧭	Industry	\bigcirc
1.0000			Member of 📀 🧭	Туре	0
New	Panel		Assigned to	(filler)	
New	Row				

5. To add a new row, drag the "New Row" item in the Toolbox to the layout to allow additional fields or blank spaces to be added.

Reco	rd View					
🗲 🛍 I	Studio > Accounts >	Layouts > Recor	rd View			
Save	Save & Deploy	View History	Restore Default L	ayout	Role: Default	A
Toolbo	x	Layout				
	50.	Bu	siness Card 📀 Disp	Іау Туре	(i): Panel 🛊	Collapse?
-			Website	\bigcirc	Industry	
New	Panel		Member of	Ø	Туре	\bigcirc
New	Row		+ Assigned to	Ø	(filler)	
(filler)		New	Row			
Faceb	book Account 🛛 🕢					

6. To add a new panel, drag the "New Panel" item in the Toolbox to the layout to group different sets of fields together in the Record View layout.

Reco	rd View					
	Studio > Accounts >	Layouts > Rec	ord View			
Save	Save & Deploy	View Histor	ry Restore Defaul	t Layout	Role: Default	\$
Toolb	ox	Layo	ut			
	-	В	usiness Card 📀 D	isplay Type	(i) : Panel 🜲	Collapse?
-	1		Website	Ø	ndustry	
New	Panel	1	Member of	 Image: A start of the start of	Гуре	\bigcirc
New	Row		+Assigned to	0	filler)	
(filler))	New	v Panel			
Face	book Account 🛛 🕜					
Goog	le Plus ID 🛛 🕢	s	how More 🧭 Displa	ay Type 🕧	: Panel 🜲	Collapse?

- 7. Once the layout is finalized, click "Save & Deploy" to preserve your changes and deploy immediately.
 - You can click "Save" if you wish to preserve the changes made but not deploy to Sugar's user interface.

Reco	rd View				
🗲 🏠 j	Studio > Accour	its > Layouts > Record	View		
Save	Save & Deploy	View History	Restore Default Layout	Role: Default	A
Toolbo	х	Layout			
	-	Busi	iness Card 📀 Display Typ	e 🛈 : Panel 🜲	Collapse?
	1		Website 🖉	Industry	

Note: It is recommended that dependent fields be placed below and/or to the right of the independent field in order to preserve the correct display of fields on the layout.

Creating Role-Based Record View Layouts

Record Views can be configured to display customized layouts based on the viewing user's role. The availability and organization of fields may be altered to provide only the relevant fields for each user's role according to your business practices. When editing a particular module's record view, the Role dropdown appearing on the top right contains all existing roles in the Sugar application. By default, none of the Sugar roles have customized views, so changes made to the Default role-view will automatically be copied to the other role-views upon save. This means that as long as no role-views are customized here, all users will continue to see the record view layout matching the Default role-view.

Note: It is recommended to assign each user to a maximum of one role. Users belonging to multiple roles which each have customized role-views may experience

unexpected behavior when using record views. For more information about roles, please refer to the <u>Role Management</u> documentation.

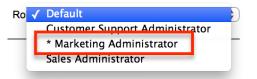
Note: Role-based customizations to record views are included when exporting customizations from Studio. For more information, please refer to the <u>Exporting</u> <u>Role-Based Customizations</u> section and the <u>Module Loader</u> documentation.

If you wish to cause certain roles to use a modified record view for a module (e.g. Accounts), navigate to Admin > Studio > Accounts > Layouts > Record View and select the desired role from the Role dropdown to make changes specific to that role (e.g. Marketing Administrator).

View History	Restore Default Layout	Rol	1	Default
				Customer Support Administrator
Layout				Find Dup Test
Busi	ness Card 🧭 Display Typ	e 1.		Marketing Administrator
				Sales Administrator
1	Vebsite 📀	Industry		

When viewing a Sugar role's role-view (e.g. Marketing Administrator), you have the option add, remove, and rearrange fields and panels. You may manipulate the layout as described in the <u>Editing Record View Layout</u> section above. The inclusion and location of fields will be specific to the role-view you are customizing. However, changes made to a field's display label from any of the role-views will update that field's display label on all role-views.

Once you have saved a modification to a role-view, it is considered customized and will display an asterisk (*) next to the role's name in the Role dropdown. Adding, removing, and rearranging fields or panels on the Default role-view will no longer have any effect on customized role-lists.



Note: Role-based views are not available for Legacy modules' detail views or any other sidecar layouts besides the record view. The Sidecar module must be available for editing in Studio for you to be able to create role-based record views for it.

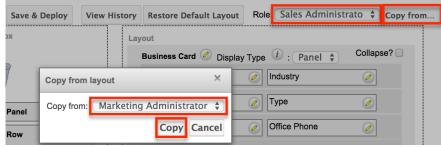
Copying a Role-View From a Customized Role-View Layout

Customized role-view layouts may be copied to any other role-view except for the Default role-view.

- 1. Select the role-view you wish to alter in the Role dropdown
- 2. Click "Copy from..." and select the customized role-view you wish to duplicate.

Note: The Copy from... button will only appear when a customized roleview is available to be copied.

3. Click "Copy" and save.



This will update the role-view to match the copied layout, and the role-view will now be considered customized and display an asterisk (*) next to the role's name in the Role dropdown.

Restoring Customized Role-Views to the Default Role-View Layout

The Restore Default Layout button may be used to bring a customized role-view back to the Default role-view's layout.

- 1. Select the customized role-view in the Role dropdown.
- 2. Click "Restore Default Layout" and save.



This will re-establish the link between the selected role-view and the Default roleview so that changes to the Default role will once again be automatically applied to the selected role-view. This will also remove the asterisk from the selected roleview's name in the Role dropdown since it is no longer considered customized.

Restoring the Default Role-View to the System Default Layout

The Restore Default Layout button can also be used to bring the Default role-view back to the system stock record view layout.

- 1. Select the Default role-view in the Role dropdown
- 2. Click "Restore Default Layout" and save.

View History Restore Default Layout Role Default

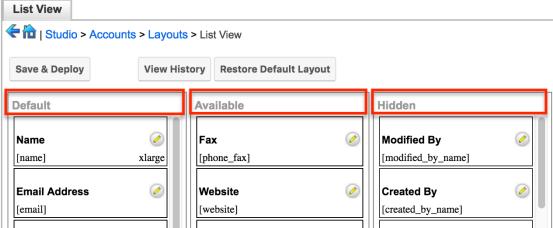
This will remove any Studio changes to the layout so that it once again matches

the system's stock layout. All other, non-customized role-views will also be updated to match.

Editing List View Layout

The List View layout has columns where you can define the fields that users can and cannot see. The List View layout also controls the list of available fields for the module's list view dashlet (e.g. My Contacts). Once the appropriate configurations are made in Studio, the deployed changes will be reflected in the Columns field of the corresponding module dashlet's Configuration Options page. Keep in mind that the module dashlet will not automatically reflect the Studio changes and users must edit the dashlet in order to view the changes, add new fields to the layout, etc.

To configure the List View layout, move the displayed fields among the Default, Available, and Hidden columns :



- **Default** : Drag fields into the Default column to display them on the default List view layout. The top-to-bottom order of fields corresponds with the leftto-right presentation of columns on the list view (or right-to-left for users viewing an RTL language). For example, the topmost field in the default column will be shown in the leftmost column of the list view.
- Available : Drag fields into the Available column to make them available for users to personalize their view of the layout without making them part of the default layout. Users will be able to click the Column Selection icon to see the list of available fields. For more information on working with columns in the list view, please refer to the <u>User Interface</u> documentation.
 Note: Not all list-type layouts have an Available fields section.
- **Hidden** : Drag fields into the Hidden column to hide them from users in the list view. Hidden fields will be unavailable in list view regardless of a user's team or role settings, but they may still be available to users in other

places such as in reports or the record view.

Note: To enable fields as filters in a Sidecar module's list view and list view dashlet (e.g. the "My Contacts" dashlet), please refer to the <u>Editing Search Layout</u> section.

The following steps cover editing the List View layout as an example:

1. Expand "Layouts" from the Modules panel under the Accounts module and select "List View".



- 2. To add a field to the List View layout, drag and drop the fields from the Hidden column to the Default column.
 - **Note**: The fields in the Default column will be available to add as display columns in the corresponding module dashlet (e.g. My Accounts).

List View		
I Studio > Accounts > La	avouts > List View	
Save & Deploy Vie	w History Restore Default Lay	out
Default	Available	Hidden
	[Drop Here]	
Account Name		Tags 🧭
[name] small		[tag]
City		Modified By 🧭
[billing_address_city]		[modified_by_name]
Billing Country		Created By
[billing_address_country]		[created_by_name]
Phone 🖉		Description
		Description 🖉
[phone_office]		
User	Teams 🕗	Teams
[assigned_user_n	[team_name]	[team_name]
Email Address 📀		Facebook Account 🥢
[email]		[facebook]

- 3. To remove a field from the layout, drag and drop the field from the Default column to the Hidden column.
- 4. To change the left-to-right order of the fields displayed on the list view, drag and drop fields up or down within the Default list.
 - **Note**: The order of fields designated for the List View layout also affects the order for the list of available fields in the corresponding module dashlet (e.g. My Accounts).
- 5. Optionally, modify the label and width for the field. Click the Pencil icon next to each field, enter the new label or select the width (e.g. small, medium, large), then click "Save". Changes to a field's label will affect all List View layouts for this module. For more information on setting column widths, please refer to the List View Column Widths section.

List View	Properties ×					
	Label: Name					
	Width custom \$ 200					
Save						

6. Click "Save & Deploy" to preserve your changes and deploy immediately.

List View Column Widths

Administrators can easily set the column widths for specific fields when configuring the List View layout. You can choose from a pre-defined list of width sizes (e.g. small, medium, large) that are available out-of-the-box with Sugar or enter a custom width value. The custom width value should be entered in pixels (e.g. 200) for Sidecar modules. Legacy modules should be entered as a percentage (e.g. 40) of the total width of the list view that should be dedicated to the column.

The following table describes the available column width sizes for fields in Sugar's list-view layouts. The Approximate Characters column indicates the maximum number of characters that the column will display before indicating overflow with an ellipsis. For example, a column size with an Approximate Characters value of 4 would display "University of Miami" as "Univ...". This number is an approximation due to the various widths of characters in the alphabet (e.g. a "w" character occupies more horizontal space than an "i" character). Users may expand the default column width manually or hover over the ellipses to reveal the field's entire contents.

Name	Width	Approximate Characters
xxsmall	20px	1
xsmall	40px	2
small	68px	8

medium	128px	15
large	180px	30
xlarge	280px	50
xxlarge	460px	85

Note: For currency fields, Sugar enforces a minimum 141px column width. Therefore, only the "large" setting and above will apply and custom values must be defined as 141 or wider.

Editing Search Layout

The Search layout controls which fields are available as filters in a module's list view or list view dashlet. You edit the Search layout in the same fashion as the List <u>View layout</u>, but using only the Default and Hidden columns. Fields placed in the Default column will be available as filters for users in the module's list view and list view dashlet; fields placed in the Hidden column will not. For more information on dragging and dropping fields between the Default and Hidden columns, please refer to the <u>Editing List View Layout</u> section of this page.

Note: After an administrator edits the Search layout for a module in Studio, users must edit or re-create their list view dashlets to see the deployed changes to their available filters or columns.

Editing Convert Lead Layout

The Convert Lead layout in Sugar is structured differently from the other layouts as it is specific to the lead conversion page for the Leads module. Administrators can configure which modules are available to convert, mark modules as required, add modules to the Convert Lead page, etc.

Convert La	yout					
I Studio > Leads > Layouts > Convert Lead						
Save	Notes	÷	Add Module			
	Module	Required	Copy Data	Delete		
Contacts		1				
Accounts				Θ		
Opportunities				•		

The following settings are available when configuring the Convert Lead layout:

• **Required** : Makes the module required during lead conversion. Required

modules must be created or selected on the Convert Lead page in order for the lead to be converted and saved.

- **Copy Data** : Copies data from the Leads fields (stock and custom) to fields with the same name in the newly created record for the module.
 - **Note**: The field name and type must match between both modules (e.g. Leads and Accounts) in order for the data to copy over.
- **Delete** : Removes the module from the Convert Lead layout.

The following steps cover adding the Notes module to the Convert Lead layout:

1. Select the Notes module from the dropdown list above the convert lead table then click "Add Module".

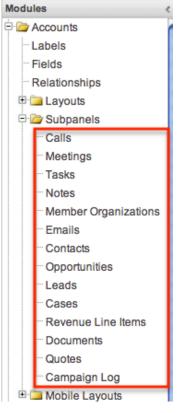
Convert Layout							
I Studio > Leads > Layouts > Convert Lead							
Save	✓ Meetings Tasks	Add Module					
	Targets	Required	Copy Data	Delete			
Contacts	Calls						
Accounts	Notes	 ✓ 		Θ			
Opportunities	Cases Bugs		 ✓ 	Θ			

- 2. The Notes module will appear in the convert lead table and you can configure the settings as necessary. Click "Save" to preserve your changes.
 - Note: Modules added to the Convert Lead layout can be rearranged by dragging and dropping the row (e.g. Notes) within the table. The Contacts, Accounts, and Opportunities modules cannot be re-arranged on the layout.

Convert Lay	out			
🗲 💼 Studio	> Leads > Layo	uts > Convert Lead		
Save	Revenue	Line Items 🛊 🗸	Add Module	
	Module	Required	Copy Data	Delete
Contacts		1	1	
Accounts		×		9
Opportunities				Ξ
Notes				Θ
<u> </u>	*****)4 1

Subpanels

Related records between modules in Sugar are commonly displayed in Subpanels. Similar to list type layouts, administrators can modify the subpanel layouts to change which fields are shown in a module's subpanel. You can add or remove fields for these subpanels depending on the information you want to be displayed to users. You can also rename a subpanel if needed. To access the subpanels section in Studio, expand "Subpanels" from the Modules panel under the desired module and the available subpanels will appear. Please note that the list of available subpanels for each module will vary.



Subpanel Options

When configuring the Subpanel layout in Studio, there are options which allow you to change the subpanel title, view historical layout changes, as well as restore the default layout.

The following options are available when configuring subpanels in Studio:

- **Subpanel Title** : Sugar administrators have the option to modify the name of the subpanel. This will change the display value of the subpanel when viewing the record view (for Sidecar modules) or detail view (for Legacy modules) of a record from the specified module.
- View History : Sugar keeps a history of the changes made to each subpanel. You can preview and restore historical layouts via "View History". For more information on viewing the history of subpanels, please refer to the <u>Viewing Layout History</u> section of this documentation.
- **Restore Default Layout** : Restores the subpanel layout back to the default out-of-the-box layout. For more information on how to reset a subpanel to the default layout, please refer to the <u>Restoring Default Layouts</u> section of this documentation.

Contacts Subpanel				
🗲 🛅 Studio > Accou	nts > Subpane	ls >	Contacts	
Save & Deploy	View Histe	ory	Restore Default Layout	
Title Contacts				
Default		Hi	dden	
Name	\oslash	N	ame	\bigcirc
[full_name]		[n	ame]	
City	\oslash	D	ate Created	\bigcirc
[primary_address_city]		[d	ate_entered]	

Editing Subpanels

The following steps cover editing the Notes subpanel for the Cases module as an example:

1. Expand "Subpanels" from the Modules panel under the Cases module and select "Notes". The Notes subpanel layout will display in the main panel to the right.

3					
Modules <	Notes Subpanel				
🗄 🚞 Accounts	Cases > Subpanels > Notes				
🖻 🛅 Bugs					
🕀 🚞 Calls	Save & Deploy View His	tory Restore Default Layout			
🕀 🚞 Campaigns *	Title Notes				
🖻 🗁 Cases					
Labels	Default	Hidden			
Fields					
Relationships	Subject	Modified By			
🗉 🚞 Layouts	[name]	[modified_by_name]			
🖻 🗁 Subpanels	Last Modified	Created By			
Calls	[date_modified]	[created_by_name]			
Meetings					
Tasks	Date Created	Description 🧭			
Notes	[date_entered]	[description]			
		1111 1			

2. To add a field to the Subpanel layout, drag and drop the fields from the Hidden column to the Default column. You can then drag the field up and down the list to change the position of the field in the subpanel.

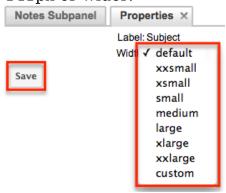
Notes Subpanel	
🗧 🛅 Studio > Cases > Subp	panels > Notes
Save & Deploy	ew History Restore Default Layout
Title Notes	
Default	Hidden
Subject	Modified By
[name]	Created By_by_name]
	[created_by_name]
Last Modified	Created By
[date_modified]	[created_by_name]
Date Created [date_entered]	Oescription [description]
Assigned User	🧭 Mime Type 🧭
[assigned_user_name]	[file_mime_type]

3. To remove a field, drag and drop the fields from the Default column to the Hidden column.

Notes Subpanel	
Cases > Subpanels >	> Notes
Save & Deploy View Histo	ory Restore Default Layout
Title Notes	
Default	Hidden
Subject 🖉	Modified By (modified_by_name)
Last Modified	Created By (created_transf
Date Created [date_entered]	Description @
Assigned User (assigned_user_name)	Mime Type 🔗

- 4. Click the Pencil icon to change the column width of the field in the subpanel.
 - Note: Administrators can choose from a pre-defined list of width sizes (e.g. default, small, medium, etc.). Please note that selecting the Default width will set the list view column to equal the Medium width size. Selecting "custom" from the list will allow you to enter a custom width value in the open box. The custom width value should be entered in pixels (e.g. 200) for Sidecar modules. Legacy modules should be entered as a percentage (e.g. 40) of the total width of the list view that should be dedicated to the column.
 - When defining the column width for currency fields (e.g. Likely, Best, etc.), only "large" and above applies because there is a

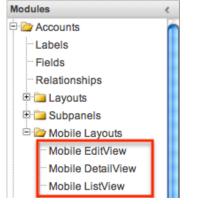
minimum width requirement in Sugar for this field type. In addition, when defining a custom width for currency fields, the value must be 141px or wider.



5. Click "Save & Deploy" to preserve your changes and deploy immediately.

Mobile Layouts

Mobile layouts are used to represent the views in Sugar Mobile. The mobile layouts section in Studio allows administrators to add fields and configure the various mobile layouts. To access the mobile layouts section in Studio, expand "Mobile Layouts" from the Modules panel under the desired module. The available mobile layouts for the selected module will appear under "Mobile Layouts".



Mobile Layout Types

There are various mobile layouts in Sugar to represent the different areas of the Sugar Mobile application. Please note that not all layouts are available in every module and the different mobile applications will use the information defined here differently.

The following mobile layouts are available in Sugar:

- **Edit View** : Edit view layout is used to modify or create records in the specified module.
- **Detail View** : Detail view layout is used to view the current data for a record within the specified module. Certain fields are translated to Sugar Mobile as buttons instead of data. For example, instead of seeing the phone number, there is a phone icon to be able to call the number on the record.
- **List View** : List view layout is used to view multiple records within the specified module. Only the first two fields in the list view section will be displayed in Sugar Mobile.

Mobile Layout Options

Administrators have the ability to configure the various mobile layouts available via Studio.

The following options are available when configuring mobile layouts in Studio:

- **View History** : Sugar keeps a history of the changes made to each layout. You can preview and restore historical layouts via "View History". For more information on viewing the history of layouts, please refer to the <u>Viewing</u> <u>Layout History</u> section of this documentation.
- **Restore Default Layout** : Restores the mobile layout back to the default out-of-the-box layout. For more information on how to restore the default layout, please refer to the <u>Restoring Default Layouts</u> section in this documentation.
- **Role** : Record views may be configured to display differently based on the viewing user's role. For more information, please refer to the <u>Creating Role-Based Record View Layouts</u> section.



Editing Mobile Layouts

You can add, remove, hide, etc. the fields for the available layouts in "Mobile Layouts" by selecting the specific layout under the Modules panel to edit. Please note that the Mobile EditView and DetailView layouts are modified in similar fashions. The Mobile ListView layout has columns where you can designate fields users can and cannot see. Mobile EditView and DetailView can both be configured to display customized layouts based on the viewing user's role. The availability and organization of fields may be altered to provide only the relevant fields for each user's role according to your business practices. For more information about configuring role-based layouts, please refer to the <u>Creating Role-Based Record View Layouts</u> section above.

The following steps cover editing the Mobile EditView layout for the Cases module as an example:

1. Expand "Mobile Layouts" from the Modules panel under the Cases module and select "Mobile EditView". The Mobile EditView layout will display in the main panel to the right.

1	3		
Modules <	Mobile EditView		
🗄 🚞 Accounts	🗲 🛅 Studio > Cases > Mobile	a avouts > Mobile EditView	
🗄 🚞 Bugs			
🗈 🚞 Calls	Save Save & Deploy	View History Restore Default Layout Role: Default	\$
🕀 🚞 Campaigns *	Toolbox	Levent	
🖻 🗁 Cases		Layout	Collapse?
Labels		Default 🖉 Display Type 🕧 : Panel 🜲	
- Fields		Number	$\overline{\diamond}$
Relationships		Subject	
🗉 🚞 Layouts	New Row	Subject	\bigcirc
🗉 🚞 Subpanels	(filler)	Account Name	 Image: A start of the start of
🖻 🗁 Mobile Layouts	(filler)		
Mobile EditView	Created By	Priority	$\overline{\diamond}$
Mobile DetailView	Date Created 📀	Status	
Mobile ListView	Date Modified		

- 2. To add a field to the Mobile EditView layout, drag the field from the list of fields in the Toolbox to a "(filler)" location on the layout per your preference.
- 3. You can also drag a field to a location on the layout that already has a field in place. The newly added field and the existing field on the layout will swap places.

Mobil	le EditView						
(Studio > Cases > I	Mobile L	<mark>ayouts</mark> > M	obile EditView			
Save	Save & Deploy	Vie	w History	Restore Default Layout	Role:	Default	\$
Toolb	ox		Layout	ult 🖉 Display Type 🛈 :	Danal A		Collapse? 🗌
3	7			Number	Panel 🗸		
New	Row		٤	Subject			
(filler))		/	Account Name			\bigcirc
Creat	ted By	\geq	F	Priority			$\overline{\mathcal{O}}$
	Created (\geq	Source	Ștatus			
				filler)			
Syste	em ID	\geq	[Description			\bigcirc

4. To remove a field from the layout, drag and drop the field from the layout to the trash bin in the Toolbox to remove the field from the layout. You may remove an entire row in the layout using the same method.

ave	Save & Deploy	View Histor	Restore Default Layout	Role: Default	\$
oolb Sour		Leyeu	fault Dioploy ype ① : (Panel 🜢	Collapse?
0			Number		\bigcirc
New	Row		Subject		Ø
filler))		Account Name		\bigcirc
Creat	ted By 🧭		reity		
2040	Created 🧭				

5. To add a new row, drag the "New Row" item in the Toolbox to the layout to allow additional fields or blank spaces to be added.

Mobile EditView				
🗲 🛅 Studio > Cases > Mob	ile Layouts > M	obile EditView		
Save Save & Deploy	View History	Restore Default Layout	Role: Default	*
Toolbox	Layout			
_	Defa	ault 🧭 Display Type 🕧 :	Panel 🛊	Collapse?
3		Number		\checkmark
		Subject		
New Row		Account Name		
(filler)				
Created By		Priority		\bigcirc
Date Created 📀		tus		
Date Modified 📀				
System ID 📀	New Row	Source		
Tags 📀				
Туре 🖉				
Work Log 🔗		Description		\oslash

6. Once the layout is finalized, click "Save" to preserve your changes or "Save & Deploy" to preserve your changes and deploy them instantly.

Unlike the Mobile EditView layout, the Mobile List View layout has columns were you can designate fields users can and cannot see. When configuring the Mobile List View layout, you will see three columns (Default, Available, Hidden) where fields can be dragged and dropped accordingly.

- **Default** : This column contains fields that are displayed in the list view.
- **Available** : Available fields are fields that will not show by default in the layout, but if the layout can be personalized, users can add these fields to their view of the layout. Not all list type layouts have an available fields section.
- **Hidden** : This column contains fields that will not be displayed in the list view.

The following steps cover editing the Mobile List View layout as an example:

1. Expand "Layouts" from the Modules panel under the Cases module and select "Mobile List View".

Modules <
🕀 🧰 Accounts
🕀 🚞 Bugs
🗉 🧰 Calls
🕀 🧰 Campaigns *
🖻 🦢 Cases
Labels
Fields
Relationships
⊞ 🚞 Layouts
🕀 🚞 Subpanels
E D Mobile Layouts
Mobile EditView
Mobile DetailView
Mobile ListView

2. To add a field to the Mobile ListView layout, drag and drop the fields from the Hidden column to the Default column.

WODIIe LIStview			
🗲 🛅 Studio > Cas	ses > Mobile	Layouts > Mobile ListView	1
Save & Deploy	View	History Restore Defaul	t Layout
Default		Available [Drop Here]	Hidden
Subject			Date Created
[name]	466 px		[date_entered]
Status	\oslash		Date Modified
[status]	110 px	Description	[date_modified]
		[description]	
Number	110		Description
[case_number]	110 px		[description]
Priority	\checkmark		Modified By
[priority]	110 px		[modified_by_name]

- 3. Click the Pencil icon to modify the label of the field as well as the width size the field will take up in the list view. Please note that the modified label will display in all List View layouts.
- 4. Click "Save & Deploy" to preserve your changes and deploy immediately.

Using Sugar Logic

Sugar Logic allows administrators to write simple formulas and logic checks to provide a calculation for a field or to set the visibility of a field. For more information regarding the types of field that you can use Sugar Logic in, please refer to the <u>Field Options</u> section of this documentation. A calculated field uses a formula to derive its value based on the values of other fields as well as mathematical or logical operators. A dependent field uses a formula to determine

whether or not the field should be displayed. These formulas are automatically recalculated when the record is updated. In addition, when a record containing a formula's input field is updated, the formula is automatically recalculated.

Note: When creating a calculated formula for a Currency field, the currency symbol should not be used for a value (e.g. \$100) in the formula. The formula should only define the numeric value (e.g. 100), as including the currency symbol will result in improperly calculated values.

When a calculated or dependent field is created or its formula is modified, all existing records in the module will not use the new formula until they have undergone a save action. To update the existing records to use the new formula, the module's list view includes a Recalculate Value action. Admin users or users with developer-level access can use this feature to cause existing records to recalculate affected fields without having to perform an update on each record individually. For more information, please refer to the <u>User Interface</u> documentation in the Application Guide.

Administrators can access the formula builder for the fields and options that accept formulas by selecting "Edit Formula".

Formula:	ifElse(equal(\$account_	Edit Formula			

For more information and examples using Sugar Logic, please refer to the <u>Sugar</u> <u>Logic section of the Knowledge Base</u>, which includes articles covering the use of dependent and calculated fields. Topics range from introductory information to example Sugar Logic formulas and detailed walkthroughs of how to construct various fields and formulas in the formula builder.

Functions

Functions are listed on the lower left-hand corner of the formula builder and provide a variety of calculations, logic checks, and formatting options. To locate the function you need, simply scroll through the list or enter search criteria to narrow the list.

day	<
Functions	÷ 🔶
dayofweek	#
daysUntil	#
addDays	
today	

To see how to use a function, simply hover over the function to view the syntax, parameters, and a brief description of what the function does.

day	\sim		Search Fields
Functions	÷	€ ●	Fie
dayofweek		#	<pre>\$account_type</pre>
daysUntil		#	\$alt_add_city_c
daysUntil(Date d)		(TT)	Cell edd countr
			falt and countr
	s from now u		e specified date. \$alt_add_state_c
daysUntil(Date d)	s from now ι		
daysUntil(Date d)	s from now ι		\$alt_add_state_o

The function name is followed by a comma-separated list of parameters to the function. The list specifies the data type expected for each parameter. For example, the function "daysUntil" expects one parameter of Date type.

The description in the hover text will typically specify what data type is being returned, but if it does not, the symbol to the right of the function also represents the function's data type.

Functions	• ÷
abs	#
add	#
addDays	
and	%
average	#
ceil	#
concat	Α
contains	%

The following is a list of the possible return type symbols and the data types they return:

Symbol	Description
#	Returns a Number

Calendar	Returns a Date object with a date and time
%	Returns a Boolean (true or false) value
А	Returns Text
[]	Returns a List
?	Returns a variable data type that could be any of the above

List of Functions

Some functions require a given number of parameters while others are more flexible. Most parameters require a specific data type to be passed in for the function to work. Functions with the same data type can be nested in a single formula.

The following functions and their parameters (multiple parameters are represented by "...") are available in Sugar:

Function	Description	Parameters	Return Type	
abs Returns the absolute value \$param1.		Number \$param1	Number	
add Returns the sum of the given parameters.		Number \$param1, 	Number	
addDays	Returns \$date moved forward or backwards by \$days.	Date \$date, Number \$days	Date	
and	Returns true if and only if all given parameters are true.	Boolean \$param1, 	Boolean	
average	Returns the average of the given parameters.	Number \$param1, 	Number	
ceil	Returns \$param1 rounded up to the next integer.	Number \$param1	Number	

concat	Returns all of the given parameters appended together in the order passed.	String \$param1,	Text
contains	Returns true if \$needle is within \$haystack.	String \$haystack, String \$needle	Boolean
count	Returns the number of records related to this record by \$module	Relate \$module	Number
countConditional	Returns the number of records related to this record by \$link and that match the value of a specific field.	Relate \$link, Field \$string, Values \$list	Number
createList	Returns a List of the given parameters.	Generic \$param1, 	List
date	Returns \$param1 as a Date object.	String \$param1	Date
dayofweek	Returns the number of the day of week that \$param1 falls on.	Date \$param1	Number
daysUntil	Returns the number of days from now until \$param1.	Date \$param1	Number
divide	Returns the \$numerator divided by the \$denominator.	Number \$numerator, Number \$denominator	Number
equal	Returns true if \$param1 is equal to \$param2.	Generic \$param1, Generic \$param2	Boolean
floor	Returns \$param1 rounded down to the next integer.	Number \$param1	Number
forecastIncludedCo	Returns all the		List

mmitStages	included commit stages for the Forecast module.		
forecastSalesStage s	Returns all the included sales stages for the Forecast module from the sales_stage_dom; If you pass in "false" for the \$includeWon or \$includeLost, those values will not be returned in the list.	Boolean \$includeWon, Boolean \$includeLost	List
getDropdownKeySe t	Returns a List of the keys in the dropdown named \$param1. This list must be defined in the Dropdown editor.	String \$param1	List
getDropdownValue	Returns the value for the \$key found in the dropdown named \$list. This list must be defined in the Dropdown editor.	String \$list, String \$key	Text
getDropdownValue Set	Returns a List of the values in the dropdown named \$param1. This list must be defined in the Dropdown editor.	String \$param1	List
getListWhere	Returns the matched array from lists.	String \$trigger, Enum \$lists	List
greaterThan	Returns true if \$param1 is greater than \$param2.	Number \$param1, Number \$param2	Boolean
hoursUntil	Returns the	Date \$param1	Number

	number of hours from now until \$param1.		
ifElse	Returns \$return1 if \$condition is true or \$return2 if \$condition is false.	Boolean \$condition, Generic \$return1, Generic \$return2	Variable
indexOf	Returns the position of \$needle in \$haystack or -1 if \$haystack does not contain \$needle. The index starts at 0.	Generic \$needle, List \$haystack	Number
isAfter	Returns true if \$param1 is after \$param2.	Date \$param1, Date \$param2	Boolean
isBefore	Returns true if \$param1 is before \$param2.	Date \$param1, Date \$param2	Boolean
isForecastClosed	Returns true if \$status is in the forecast config for sales_stage_won or sales_stage_lost	String \$status	Boolean
isForecastLost	Returns true if \$status is in the forecast config for sales_stage_lost	String \$status	Boolean
isForecastWon	Returns true if \$status is in the forecast config for sales_stage_won	String \$status	Boolean
isInList	Returns true if \$needle is contained within \$haystack.	Generic \$needle, List \$haystack	Boolean
isValidDate	Returns true if \$param1 is a valid date string.	String \$param1	Boolean
isValidEmail	Returns true if \$param1 is in a	String \$param1	Boolean

	valid email address format.		
isWithinRange	Returns true if \$value is greater than or equal to \$min and less than or equal to \$max.	Number \$value, Number \$min, Number \$max	Boolean
ln	Returns the natural log of \$param1.	Number \$param1	Number
log	Returns the \$base Log of \$value.	Number \$value, Number \$base	Number
max	Returns highest value of the given parameters.	Number \$param1, 	Number
maxRelatedDate	Returns the highest value of \$field in records related to \$module.	Relate \$module, String \$field	Date
median	Returns the median of the given parameters.	Number \$param1, 	Number
min	Returns lowest value of the given parameters.	Number \$param1, 	Number
monthofyear	Returns the number of the month that \$param1 is in.	Date \$param1	Number
multiply	Returns the value of the given parameters multiplied together.	Number \$param1, 	Number
negate	Returns the negated value of \$param1.	Number \$param1	Number
not	Returns true if \$param1 is false, and false if \$param1 is true.	Boolean \$param1	Boolean
now	Returns a Date object representing		Date

	todays date and the current time.		
number	Returns the numeric value of \$param1.	String \$param1	Number
or	Returns true if any given parameters are true.	Boolean \$param1, 	Boolean
pow	Returns the \$value raised to the power of \$exponent.	Number \$value, Number \$exponent	Number
related	Returns the value of \$field in the related \$module.	Relate \$module, String \$field	Variable
rollupAve	Returns the average value of \$field in records related to \$module.	Relate \$module, String \$field	Number
rollupConditionalS um	Returns the sum of the values of \$field in records related by \$link where \$conditionField contains something from \$conditionalValues.	Relate \$link, String \$field, String \$conditionField, List \$conditionalValues	Number
rollupMax	Returns the highest value of \$field in records related to \$module.	Relate \$module, String \$field	Number
rollupMin	Returns the lowest value of \$field in records related to \$module.	Relate \$module, String \$field	Number
rollupSum	Returns the sum of the values of \$field in records related to \$module.	Relate \$module, String \$field	Number
strlen	Returns the number of characters in \$param1.	String \$param1	Number

strToLower	Returns \$param1 converted to lower case.	String \$param1	Text
strToUpper	Returns \$param1 converted to upper case.	String \$param1	Text
subStr	Returns the portion of \$value specified by \$start and \$length. The position starts at 0.	of \$value specifiedNumber \$start,by \$start andNumber \$length\$length. The	
subtract	Returns \$param1 minus \$param2.	Number \$param1, Number \$param2	Number
timestamp	Returns the passed in datetime string as a unix timestamp.		Date
today	Returns a Date object representing todays date.		Date
toString	Returns \$param1 converted to a string.	Generic \$param1	Text
translateLabel	Returns the translated value of \$label for \$module.	String \$label, String \$module	Text
valueAt	Returns the value at position \$index in \$haystack.	Number \$index, List \$haystack	Variable

Fields

Fields are listed on the lower right-hand corner of the formula builder and contain the fields for the current module. Fields can be referenced in formulas and will start with a \$. To locate the field you need, simply scroll through the list or enter search criteria to narrow the list.

state	\times	
Fields		
\$billing_address_state		Α
\$shipping_address_state		Α

To add a field to the formula, simply click on the field to be added. The variable name for the field will be placed at the end of the formula. You can also type the variable names manually in the formula.

Related Field

Related fields are available to be added to formulas via the related function. You can manually add related function calls to your formula or you can build the syntax for the related function by clicking "Related Field".

Formula Builder			×
Related Field	Rollup		
			/
Search Functions	🗙	Search Fields	×

This will open a dialog box which will assist in building the syntax to use the related function. Select a module and a field within that module to pull the related field from and click "Insert".

Formula Builder			×
Module: Accoun	ts (Member of:)	\$	
Field: Type	\$		
		Cancel	Insert

The resulting syntax for the selected options will be added to the formula.

Note: If a record has multiple related records to a module, the related function

will pull the field from one of the related records. It is not recommended to rely on the related function to pull the same related records for a many relationship.

Rollup

In addition to adding related fields, you can also add aggregate functions on related fields to formulas via the rollup functions. You can manually add rollup function calls to your formula or you can build the syntax for the rollup function by clicking "Rollup".

Formula Builder	
Related Field Rollup	
Search Functions 🗙	Search Fields 🗙

This will open a dialog box which will assist in building the syntax to use the rollup function. Select the type of rollup function (Sum, Average, Minimum, or Maximum) to perform on the module field. To perform a count of related records, please refer to the count function listed in the <u>Functions</u> section. Select a module and a field within that module to perform the rollup function on and click "Insert".

Formula I	Builder	
Type:	Sum \$	
Module:	Quotes (Quotes Ship to)	
Field:	Total (US Dollar)	
	Cancel	sert

The resulting syntax for the selected options will be added to the formula.

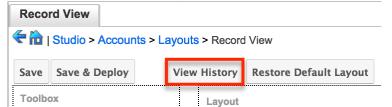
Note: Rollup functions can only aggregate number type fields.

Viewing Layout History

Layouts, subpanels, and mobile layouts in Studio keep a history of the last ten changes made to the specific layout. To view the history for any of these layouts, simply select "View History" from the Record View (for Sidecar modules), List View, Edit View (for Legacy modules), etc. layout in Admin > Studio.

The following steps cover viewing the layout history for the Record View layout as an example:

- 1. Navigate to the <u>Record View</u> layout in Admin > Studio.
- 2. Click the View History button on the upper left of the layout editor.



3. The History dialog box will appear showing the timestamps of the last ten saves to the selected layout.

Accounts : Record View history				
TimeStamp				
09/17/2013 02:34pm	Preview	Restore		
09/17/2013 01:53pm	Preview	Restore		
09/17/2013 01:53pm	Preview	Restore		
09/17/2013 01:52pm	Preview	Restore		
09/17/2013 01:52pm	Preview	Restore		
09/17/2013 01:52pm	Preview	Restore		
09/17/2013 01:52pm	Preview	Restore		
09/17/2013 01:52pm	Preview	Restore		
09/17/2013 01:51pm	Preview	Restore		
09/17/2013 01:51pm	Preview	Restore		

4. Click the timestamp or Preview button and a preview of the modified layout will appear in a new tab of the main layout panel.

Record Vi	lew	Previe	× w							
Close	Rest	tore								
Layout P	reviev	v								
Busi	ness C	ard								
V	Vebsite	•	_		Indust	у				
N	/lembe	r of	Acc	oun	nts : Re	cord Vi	ew hi	istory		×
A	\ssigne	d to			TimeSt	amp				
			<u>09</u>	17/2	2013 0	2:34pn	1	Preview	Resto	re
Show	v More		09/	17/2	2013 0	1:53pn	1	Preview	Resto	re

5. To restore a specific layout per the history, click the Restore button within the Preview layout or from the History dialog box.

Record View Preview	×		
Close Restore			
Layout Preview			
Business Card			
Website	Industry		
Member of	Accounts : Record View h	istory	×
Assigned to	TimeStamp		
	09/17/2013 02:34pm	Preview	Restore

The chosen Record View layout will load into the editor and you may make appropriate changes to the layout as you wish. Click "Save" to preserve your changes or "Save & Deploy" to preserve your changes and deploy immediately.

Restoring Default Layouts

Various layouts in Studio can be restored back to the default out-of-the-box configuration, which will revert all changes made to the specific layout (e.g. list view, record view, etc.). To restore the default layout, simply click the Restore Default Layout button from the Record View (for Sidecar modules), List View, Edit View (for Legacy modules), etc. layout in Admin > Studio.

From Record View layout (for Sidecar modules) :

Reco	rd View				
🗲 🏠	Studio > Accounts >	Layouts > Record	View		
Save	Save & Deploy	View History	Restore Default Layout	Role: Default	* *
Toolbo	ox 7		ness Card 🖉 Display Type Vebsite 🖉	(1) : Panel \$	Collapse?
Fror EditV		v layout (f	for Legacy mo	dules) :	
(Studio > Projects > L	ayouts > EditView	,		
Save	Save & Deploy	View History	Restore Default Layout	Sync to DetailView	(i)
Toolb	ox 7		view 🖉 Display Type 🚺 lame 🕜	: Panel \$	Collapse?

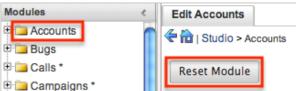
The default layout will load into the editor and you may make appropriate changes to the layout as you wish. Click "Save" to preserve your changes or "Save & Deploy" to preserve your changes and deploy immediately.

Note: When using role-specific record view layouts, the functionality of the Restore Default Layout button changes depending on which the Role dropdown's

selection. Please refer to the <u>Restoring Customized Role-Views to the Default Role-View Layout</u> section for more information.

Resetting Modules

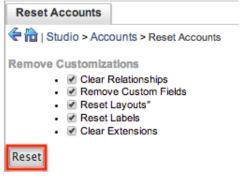
Sugar comes with the ability to reset an entire module back to the default settings. You can also pick and choose which customizations you would like to remove. To reset a module, select the module from the Modules Panel and click "Reset Module" in the Main Panel.



The next screen will give you the following options to remove specific customizations:

- Clear Relationships : Deletes all relationships added via Studio.
- Remove Custom Fields : Deletes all fields added via Studio.
- **Reset Layouts** : Resets the layouts back to the out-of-the-box configuration. You will need to click "Save & Deploy" on edit view and detail view layouts to be able to access the layouts.
- **Reset Labels** : Deletes the custom language files located in ./custom/modules/{Module Name}/language/ which sets the labels for the module.
- **Clear Extensions** : Deletes any customizations made to stock or custom fields and sets them back to the default. Deletes the module folder located in ./custom/Extension/modules/.

Select the desired options and click "Reset" to execute the reset.



Exporting Customizations

Sugar allows you to export a module's customized layouts, fields, and field labels from one Sugar instance to import into another Sugar instance. To do this, you will need to package the customizations in Studio, export it to your local machine, and then upload it into another Sugar instance. The system applies the customizations to the appropriate layouts, fields, and field labels.

Note: Safari users will need to change the default browser setting to disable automatic unzipping of files to ensure that exported packages install properly in Sugar. Navigate to Safari > Preferences > General and uncheck "Open 'safe' files after downloading" to disable the setting.

Use the following steps to export your customizations via Studio:

1. From the Studio home page, select "Export Customizations" in the main panel.

Studio						
h Studio						
E.m.s	et Custominations					
Expo	rt Customizations					

- 2. Enter appropriate values in the following fields. All required fields are marked with a red asterisk and must be completed prior to saving.
- **Package Name** : Enter the name of the package to be displayed during installation.
- **Author** : Enter the name of the author creating the package to be displayed during installation.
- **Description** : Enter a description of the export to be displayed during installation.
- Select at least one module to include in the customization export and click "Export".

Export Customi	zations	
🛍 Studio		
Export		
* Package Name:	2013-05-21-Accounts Customizations	
Author:	Admin	
Description:	Accounts customizations as of 2013-05-21	
	l -Admin	6
Accounts		customized field(s) customized field(s) customized layout(s) undefined
Bug Tracker		customized field(s) customized field(s) customized layout(s)

• The customizations are saved to your computer in a zip file that can be loaded into a different instance of Sugar via the module loader. For more information regarding installing packages, please refer to the <u>Module</u> <u>Loader</u> documentation.

Exporting Role-Based Customizations

If you have created role-based <u>custom record views</u> or <u>custom dropdown lists</u>, these role-based customizations will be included in your exported package. When installing the package on another Sugar instance, you will be given the opportunity to map role-based customizations from the package's roles to the destination instance's roles. Please refer to the <u>Module Loader</u> documentation for more information.

Last Modified: 2020-07-02 12:16:49

Module Builder

Overview

Module Builder enables administrators to create, deploy, and maintain custom modules in Sugar. Modules can be created in Module Builder and then deployed within your instance of Sugar or exported for additional development and deployment to other instances of Sugar. This is convenient for testing new modules and for distributing a module to many different instances. Please note that only users with administrator or developer access can create and manage custom modules via Admin > Module Builder. This documentation will cover how to use Module Builder as well as the various actions and options available from within Module Builder.

Navigation

Sugar's Module Builder is divided into three main sections which consist of the main panel, packages panel, and footer. You can easily create, access, and manage the custom modules via the main panel and Packages panel. The footer of Module Builder allows you to access different areas (e.g. Studio, Dropdown Editor) of the Developer Tools section by clicking the corresponding buttons at the bottom of the page.

Main Panel

The main panel in Module Builder is where you can create a new package, access existing packages, deploy a package, etc. As you create and configure the module(s) within the package, the various sections (e.g. layouts, fields, etc.) you access will open inside tabs on the main panel. Additional tabs that open up can be closed by clicking the "X" within the tab.

Fields	Edit Field ×					
🗲 🏠 Ma	🗲 🛍 Module Builder > ITModules > HelpDesk > Fields					
Add Fie	Id Edit Labe	ls				

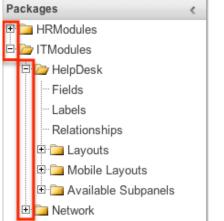
The main panel also displays the breadcrumbs bar showing where in Module Builder you currently are. You can navigate to a specific section by clicking the link within the breadcrumb bar.



To go back to the previous page you were viewing, click the Left arrow on the breadcrumbs bar. Clicking the Home icon will navigate you back to the Developer Tools home page.

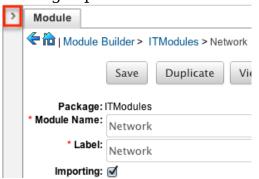
Packages Panel

The Packages panel is located to the left of the main panel and displays a list of existing packages and associated custom modules that are accessible via Module Builder. The custom modules are grouped under a package and the fields, layouts, subpanels, etc. specific to each module appear when you expand out the tree for the module.



Select an item in the Packages panel to load it into the main panel. Please note that i f you do not see the Packages panel, it may be collapsed. Simply locate the

gray bar to the left of the main panel and click the Right arrow to expand the Packages panel.



Footer

The footer is located on the bottom left of Module Builder and displays buttons which enable you to navigate to the different areas (Studio, Dropdown Editor, etc.) of Developer Tools.

		tea	m_name	Teams
		tea	ms	Teams
Home	Studio	Module Builder	Sugar Portal Editor	Dropdown Editor

The options in the footer allow you to navigate to the following locations:

Menu Item	Description
<u>Home</u>	Navigates to the home page of Developer Tools
Studio	Navigates to the home page of Studio
Module Builder	Opens Module Builder to create and manage custom modules
Sugar Portal Editor	Opens the Sugar Portal Editor to configure the Portal
<u>Dropdown Editor</u>	Opens the Dropdown Editor to create and edit dropdown lists

Packages

Packages in Module Builder allow you to create and house multiple modules of different types. Please note that a package must first be created in order to create a custom module via Module Builder. While packages can be useful to group similar or dependent modules together to ensure they are deployed together, it is generally recommended that a separate package be created for each module. This can help prevent potential issues down the road since if you ever need to uninstall a module and it is part of a larger package, then all modules in that package must be uninstalled. Keeping modules isolated to their own package allows greater flexibility in the future if a module is no longer needed.

Creating Packages

Use the following steps to create a new package via Module Builder:

1. Navigate to the Module Builder's main panel and click "New Package".
Package List



- 2. Enter appropriate values for the following fields:
 - **Package Name** : The name or designation of the package. The package name is what displays in the Packages panel and in Module Loader when installing packages.
 - **Author** : The author who is creating the package. The author displays in Module Loader when installing packages.
 - **Key** : The key is an alphanumeric text to distinguish modules with similar names. The system will prefix all class names, directories, and table names with this key.
 - **Description** : A description or other information about the package.
 - **Readme** : Click "Readme" to display an open text box where you can enter additional information about the package or modules contained in the package.
 - **Note**: All required fields are marked with a red asterisk and must be completed prior to saving.
- 3. Once the necessary information is entered, click "Save".

Package	
< 🛍 Module B	Builder > New Package
- 1	Save
* Package Name:	FinModules
Author:	Admin
* Key:	FIN
Description:	
1	

Deploying Packages

Once the package is created and saved, you can create custom modules by clicking the New Module icon. Please note that the package must contain at least one module in order to properly publish and deploy the package, as well as export the customizations. There are various options (e.g. deploy, publish, export, etc.) available when viewing the package which allow you to perform various actions.

Раскаде						
< 🛍 Module E	Builder > Fi	nModules				
	Save	Duplicate	Deploy	Publish	Export	Delete
Last Modified: * Package Name:						
Author:	Admin					
* Key: Description:						
Modules:	¥ Readme	٦				

The Package options allow you to perform the following operations:

Action	Description
Save	Click "Save" to preserve any changes made to the Package details (Package Name, Author, etc.).
Deploy	Installs the package into the current instance. Any modules in the package

	will be created or updated in the current instance. Note : Do not re-deploy a package once deployed from Module Builder as any workflows, code-level customizations, or changes made through Studio for the custom modules will be lost. It is recommended that module packages be deleted from Module Builder after a successful deploy to avoid an accidental re-deploy. Please use Studio to perform any additional configurations to your module once deployed.
Publish	Saves the package into an installable zip file containing all customizations. Upload the file via Module Loader to install the package into a different instance. Note : Packages developed on Ultimate editions of Sugar can only be installed on instances running Ultimate editions of the same version.
Export	Saves the package into an importable zip file containing all customizations. Upload the file via Module Loader to view the package in Module Builder on a different instance where it can then be further developed and deployed. Note : Packages developed on Ultimate editions of Sugar can only be installed on instances running Ultimate editions of the same version.

Deleting Packages

If a package is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from Module Builder. Please note that deleting a package will delete all files contained in the package, but will not remove the package from any instance where the package was deployed. For more information on how to uninstall a deployed package from an instance, please refer to the <u>Module Loader</u> documentation in the Administration guide.

Note: We recommend deleting packages from Module Builder after they have been deployed in a production instance to prevent it from accidentally being redeployed. The only exception to this rule is in a development environment as you may want to continue working and testing until you are ready to move the module to your production environment.

Use the following steps to delete a package via Module Builder:

1. Select the desired package from either the Packages panel or from the main panel.



Package	
🗲 🛍 Module Bu	ilder > FinModules
	Save Duplicate Deploy Publish Export Delete
	2013-05-30 09:48am
* Package Name:	FinModules
Author:	Admin
* Kev:	EIN

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Modules

Various types of modules can be created and configured within the package in Module Builder. Although multiple custom modules can be created in a package, it is generally recommended that only one module be created per package. This will help prevent potential issues down the road and allow greater flexibility in the future if a module is no longer needed.

Note: Activity streams are not available for custom modules.

Module Types

Module Builder comes with a few predefined module templates for creating

modules. Select the module type that best fits your organization's use of the new module and then customize the module to further fit your needs. The following module types are available by default in Module Builder:

Туре	Description
Basic	Generic module with only the most basic fields defined by default. All other module types build on top of the basic module type.
Company	Contains fields designed for company, account, or organization type records. Includes billing and shipping addresses, email address, phone numbers, industry, website, and more.
File	Contains fields designed for file upload or document records. Includes category, expiration date, status, filename, and more.
Issue	Contains fields designed for bug, issue, or case record types. Includes issue number, status, priority, work log, and more.
Person	Contains fields designed for people, contacts, or lead records. Includes first and last name, primary and alternate addresses, email addresses, phone numbers, and more.
Sale	Contains fields designed for sales, transactions, or opportunities. Includes, amount, currency, probability, sales stage, and more.

Module Options

When creating modules in Module Builder, the following options are available to complete when setting it up:

- **Module Name** : The name (e.g. HelpDesk) or designation of the module. The module name is what displays in the Packages Panel as well as in Studio after deploying.
- Plural Label : The plural label (e.g. HelpDesks) for the module name. The

label is what displays when using the module within Sugar.

- **Singular Label** : The singular label (e.g. HelpDesk) for the module name. The label is what displays when using the module within Sugar.
- Importing : Select this option to enable importing for the module.
- **Team Security** : Select this option to enable team security for the module. If this option is unchecked, records in this module will not be assigned to a team and will be restricted by roles only. For more information on teams and roles, please refer to the <u>Team Management</u> and <u>Role Management</u> documentation in the Administration guide.
- **Navigation Tab** : Select this option to add the module and module actions to the navigation bar.
- **Type** : Select the module type to use as a template when building the module. Each module type includes a list of stock fields by default which can be added and removed in the layout as necessary. Please note that the module type can only be selected when initially creating the module. For more information regarding the module types, please refer to the <u>Module Types</u> section of this page.

Creating Modules

While you have the option to create multiple types of modules within a package, it is generally recommended that only one module be created per package. Doing so will help prevent potential issues down the road and allow greater flexibility in the future if a module is no longer needed.

Creating Modules Via Package

One of the most common methods of module creation is via the New Module option in the package. When the New Module icon is selected, it opens up the New Module screen which allows you to enter in the module's details (e.g. name, label, etc.) as well as select the module type you wish to use as a template. Use the following steps to create a custom module in the package:

1. Select a package from the Packages Panel to create a new module.



2. In the main panel select "New Module".

Package	
 (Module Bu	uilder > HRModules
	Save Duplicate Deploy Publish Export Delete
Last Modified:	2013-05-30 03:45pm
* Package Name:	HRModules
Author:	Admin
* Key:	HR
Description:	
2	
Modules:	
	New Module People

- 3. Enter the appropriate values for the <u>Module options</u>. All required fields are marked with a red asterisk and must be completed prior to saving.
- 4. Select a module type (e.g. file) to use as a template when configuring your module.
- 5. Once the necessary information is entered, click "Save".

uilder > HRModules > New Module
Save
HRModules
Resumes
Resumes
I A A A A A A A A A A A A A A A A A A A
ଏ ଏ
basic company file issue person sale

Creating Modules Via Duplication

You can also create a new module by duplicating an existing module within a package. The duplicate option is useful if the module you are creating has similar information or structure to an existing module.

Use the following steps to create a module by duplicating an existing module:

1. Select a package from the Packages panel to create a new module.



2. In the main panel, select a module to duplicate.

Package	uilder > HRModules
	Save Duplicate Deploy Publish Export Delet
Last Modified:	2013-05-30 03:45pm
* Package Name:	HRModules
Author:	Admin
* Key:	HR
Description:	
2	≫ Readme
Modules:	New Module People

3. Click "Duplicate" to create a copy of the module.

Module				
HRModules > People				
	Save	Duplicate	View Fields	
Package: HRModules				
* Module Nar	me: People			
* Lal	bel: People			
Importi	ing: 🗹			

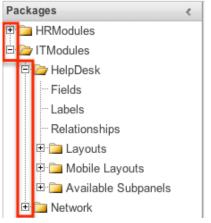
_

4. The selected module is duplicated to a new module with a "1" appended at the end of the module name. Update the necessary fields, then click "Save".

Module			
HRModules > People1			
	Save	Duplicate	View Fields
Package: HRModules			
* Module Name	People1		
* Label	People		
Importing	: 🗹		

Modifying Modules

The associated fields, labels, layouts, subpanels, etc. for each module can be modified within each package. Click the plus sign (+) preceding the module name to expand the module and view the associated items (e.g. Layouts, Fields, etc.). Selecting the module from the Packages panel will load the view into the main panel. You can modify the <u>Module options</u> for the selected module via this page.



Modifying Labels

Labels are used throughout Sugar for items like buttons, field headers, subpanel titles, error messages, and more. To modify the labels for a module, select "Labels" from the Packages panel under the desired module.



The Labels tab will open up in the main panel where you can change the names for specific labels associated to the module. Please note that you can also define the primary language to use per the language packs currently installed in Sugar when changing the labels. Select the desired language from the dropdown to view and modify the labels according to that language.

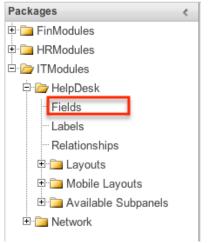
Labels	
Contract Con	sk > Labels
Save	
Language:	English (US)

Modify the labels for the selected language and click "Save" to preserve your changes.

Labels		
Contract Con	sk > Labels	
Save		
Language:	English (US)	\$

Fields

The Fields section in Module Builder allows administrators to create new fields as well as change properties on existing fields within a module. To access the Fields section in Module Builder, select "Fields" from the Packages panel under the desired module and the view will open up in the main panel to the right.



Field Types

The Fields section for each module contains a number of stock fields which come out-of-the-box with Sugar. Please note that each data type has various options and properties available to configure.

The following data types are available to be added to modules in Module Builder:

Data Type	Description	
Address	Creates fields for street, city, postal code, state, and country. Note : Custom address fields cannot be grouped together like the stock address fields.	
Checkbox	Creates a checkbox for data fields with a Yes/No action.	
Currency	Creates a field to enter a currency value. The system automatically creates a dropdown of the currency type if the field does not already exist in that module.	
Date	Creates a field to enter a date. Includes a button for a calendar popup.	
DateTime	Creates a field to enter the date and time. Includes a button for a calendar popup as well as dropdowns for the time.	
Decimal	Creates a field to hold a number rounded to a specified decimal precision. Sugar stores the exact representation of the number in the database (e.g. For a precision of 2: 1.236 is stored as 1.24).	
DropDown	Creates a field that you can associate with a dropdown list of values.	
Encrypt	Creates a field for sensitive information, such as social security numbers, whose value is to be encrypted in the Sugar database. The value is encrypted in the database but is visible in the user interface to users.	
Float	Creates a field to hold a number rounded to a specified decimal precision. Sugar stores the value differently based on the database platform Sugar is running on.	
HTML	Creates static HTML-formatted text to display in record views.	
IFrame	Creates a field to store or generate a URL to display an iFrame in record	

	views.
Image	Creates an image field to upload an image to display on a record.
Integer	Creates a field to specify positive or negative numbers with no decimal places.
MultiSelect	Creates a dropdown list of values where multiple values can be selected at once.
Flex Relate	Creates a dropdown list from which you can relate a single record from a variety of modules. Only one Flex Relate field is allowed per module. If the module already has a Flex Relate field, this option does not display in the Data Type dropdown list.
Phone	Creates a field to enter a phone number.
Radio	Creates a radio button for a user to select one value from a dropdown list.
Relate	Creates a field to associate a record with another module's record as a one- way relationship. You can add multiple Relate fields to a module. Note : Relate fields and custom relationships are independent of each other. Changes made to either one are not reflected in the other. Relate fields can be added to a report, but any data on the related record cannot be accessed in the report. To access related record data in a report you will need to create a custom relationship.
TextArea	Creates an open text area field for multiple lines of text.
TextField	Creates a field for a single line of text.
URL	Creates a field to store or generate a URL and display as a link.

Field Options

Fields provide ways to store different data types in Sugar. While many fields come

out-of-the-box with Sugar by default, there can be instances where your organization needs to store additional data.

When creating or modifying fields via Module Builder, there are some properties that exist across all field types, and there are some that are unique to only a few types.

The following field properties and options are available in Sugar:

- Audit : Select this checkbox to audit the field for changes made in Sugar.
 - Users can view the changes made to audited fields via the View Change Log option in the module's record view (for Sidecar modules).
 - Note: The Audit option is available for all data type fields.
- **Boost value** : Enter a boost value for the field to enhance the relevancy of the field for full text search.
 - The default boost value is 1.0 which indicates a neutral boost. To apply a positive boost, set the boost value higher than 1. To apply a negative boost, use values lower than 1. For example, a value of 1.35 will positively boost a field by 135%. But using a value of 0.60 will apply a negative boost.
 - **Note**: It is not necessary to perform a full system index when boost values are changed for fields.
- **Border** : Select this checkbox to add a border around the image for this field.
 - **Note**: The Border option is only available for Image data type fields.
- **Calculated Value** : Select this checkbox to designate this field as a calculated field.
 - This opens up the Formula option and disables the Default Value and Importable options. For more information regarding entering a formula for a calculated value, please refer to the Formula option listed in this section.

Calculated Value:	1
-------------------	---

Formula:

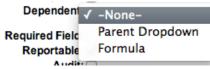
Edit Formula

- The result of the formula will be entered into the field for any new or modified records. When selecting this option, the field value cannot be modified by users.
- **Note**: The Calculated Value option is only available for the following data type fields:

Checkbox	Currency
Date	Datetime
Decimal	Encrypt
Float	Integer

Phone	TextArea
TextField	

- **Columns** : Enter the number of columns to specify the width of a TextArea data type field.
 - **Note**: The Columns option is only available for TextArea data type fields.
- **Comment Text** : Enter a comment or description about the field. The comment text is only viewable via Module Builder and Studio.
 - **Note**: The Comment Text option is available for all data type fields except Flex Relate.
- **Default Value** : Specify or select a default value for this field when a record is created. Default values for the record are populated by default on the record view layout, but can be modified by users.
 - **Note**: The Default Value option is available for all data type fields except HTML, Image, Flex Relate, and Relate.
- **Dependent** : Select this option to designate this field as being dependent on a formula or a parent dropdown.
 - For DropDown data type fields you can select "Parent Dropdown" or "Formula" for the dependency.



 Selecting "Parent Dropdown" will open the Parent Dropdown option as shown below. Selecting "Formula" will open the Visible If option to create a dependency formula. For other field data types (e.g. Date), select the Dependent checkbox to open the Visible If option. For more information regarding entering a formula to make a dependent field visible, please refer to the Visible If option listed in this section.

Dependent:	i
Visible If:	

Edit Formula

- **Note**: The Dependent option is available for all data type fields except Address.
- **Disable Format** : Select this checkbox to disable number formatting such as the thousands separator.
 - **Note**: The Disable Format option is only available for Integer data type fields.
- **Display Label** : Enter a value to display as the field label and header in layouts. Normally defaults to the Field name entered when creating the field.
 - This value is also modifiable in the packages panel under <u>Labels</u>.
 - **Note**: The Display Label option is available for all data type fields except Flex Relate. Flex Relate uses the Label Value option.

• Drop Down List : Select a list of values to associate to the field. Drop Do

wn List: mydd	list
---------------	------

• Only values in the chosen list will be available for selection in the field. Click "Edit" to change the values for the currently selected list, or click "Add" to create a new list.

4

- Note: The Drop Down List option is only available for the DropDown, MultiSelect, and Radio data type fields. For more information on editing dropdown values via the Dropdown Editor, please refer to the Editing Dropdown Lists section of the Developer Tools documentation.
- **Duplicate Merge** : Select one of the following options to determine the field's functionality when records are being merged:
 - **Disabled** : Selected by default. The field will not appear in the Merge Duplicates feature and will not be available to use for the filter conditions in the Find Duplicates feature.
 - **Enabled** : The field will appear in the Merge Duplicates feature, but will not be available to use for the filter conditions in the Find Duplicates feature.
 - In Filter : The field will appear in the Merge Duplicates feature, and will also be available in the Find Duplicates feature.
 - Default Selected Filter : The field will be used for a filter condition by default in the Find Duplicates page, and will also appear in the Merge Duplicates feature.
 - Filter Only : The field will not appear in the Merge Duplicates feature, but will be available in the Find Duplicates feature.
 - **Note**: The Duplicate Merge option is available for all data type fields except Image.
- Field Name : Enter the name of the field being created. Once a field has been created, the field name cannot be changed.
 - Field names can contain only alphanumeric characters as well as the underscore character.
 - **Note**: The Field Name option is required for all data type fields.

• Full Text Searchable : Specify whether or not the field should affect Global Search results.

- Disabled : Select "Disabled" if you do not want this field to be captured when the database is indexed for searches. Search indices collect the values of searchable fields for evaluation by the Global Search.
- Searchable : Select "Searchable" to include this field's value in search indexes.
 - Selecting "Searchable" will reveal the Boost value field, which allows you to set a relevance weight for searches. When a user's search query matches the value of a field with a higher boost level, the record will appear higher in the

search results. For more information regarding boost values in Full Text Search, please refer to the <u>Search</u> documentation in the Application guide.

• **Note**: The Full Text Searchable option is only available for the following data type fields:

Phone	TextArea
TextField	URL

- Formula : Contains the current formula to return a calculated value.
 - Click "Edit Formula" to launch the formula builder and change the formula. For more information on how to build a formula using the formula builder, please refer to the <u>Using Sugar Logic</u> section of this page.

Calculated Value: 🗹 🧃

Formula: ifElse(equal(\$account_	Edit Formula
----------------------------------	--------------

- **Note**: The Formula option is only available when the Calculated Value option is selected.
- **Generate URL** : Select this checkbox to allow variables from the current module to be placed into the Default Value option for creating dynamic URLs.

Generate URL: 🗹

billing_address_postalcode	-	Insert Field

Default Value: 1/maps?q=[billing_adc

- This is useful for providing links or iFrames to internal systems such as an ERP or to external systems such as Google Maps.
- Select the desired field to add from the dropdown and click "Insert Field" to add the field to the Default Value. When selecting this option, the field value cannot be modified by users.
- **Note**: The Generate URL option is only available for IFrame and URL data type fields.
- **Height** : Enter the number of pixels to vertically scale the image for this field. Enter only the Width or Height options to retain the aspect ratio of the image.

• **Note**: The Height option is only available for Image data type fields.

- **Help Text** : Enter in basic instructions for populating this field. The text entered here will display when users hover their mouse on the field in record view.
 - **Note**: The Help Text option is available for all data type fields.
- **HTML** : Enter in static rich text with formatting or HTML code to display on a record. For more information on how to use the text editor please refer to the <u>TinyMCE</u> section of the User Interface documentation in the Application guide.

HTML:	HTML 😧 B I <u>U</u> ABC
	🔏 🗈 🛍 🛍 🚳
	🛃 🗃 📰 💒 🛼 🗁
	Hello, world!

- **Note**: The HTML option is only available for HTML data type fields.
- **IFrame Height** : Enter the number of pixels for the height of the IFrame field. The width of the IFrame field is always the width of the field container.
 - **Note**: The IFrame Height option is only available for IFrame data type fields.
- **Importable** : Select one of the following options to determine the field's functionality when records are being imported:
 - **Yes** : The field can be included in an import operation.
 - **No** : The field cannot be included in an import.
 - **Required** : A value for the field must be provided in any import.
- **Label Value** : Enter a value to display as the field label and header in layouts. This value is also modifiable in the packages panel under <u>Labels</u>. Defaults to "Flex Relate".
 - **Note**: The Label Value option is only available for Flex Relate data type fields.
- **Mass Update** : Select this checkbox to add this field as an option to mass update.
 - **Note**: The Mass Update option is only available for the following data type fields:

Date	Datetime
DropDown	MultiSelect
Radio	

- **Max Size** : Enter the maximum amount of characters allowed for this field. Defaults to 255.
 - **Note**: The Max Size option is only available for the following data type fields:

Address	Decimal
Float	IFrame
Integer	Phone
URL	TextField

• **Max Value** : Enter the highest value allowable for this field. If a user enters a higher value in the field than the specified value, a notification will appear upon save informing them of the set maximum value.

- **Note**: The Max Value option is only available for Integer data type fields.
- **Min Value :** Enter the lowest value allowable for this field. If a user enters a value in the field that is lower than the specified value, a notification will appear upon save informing them of the set minimum value.
 - **Note**: The Min Value option is only available for Integer data type fields.
- **Module** : Select a module from the dropdown to relate to the current module.
 - A module can relate back to itself, a good example of this would be a relate field on Contacts to relate back to Contacts for a referred by field. This will allow users to select which contact record referred a different contact. The chosen module cannot be modified once the field is created.

Module: Contacts \$

- **Note**: The Module option is only available for Relate data type fields.
- **Open Link In** : Select one of the following options to determine how a URL will open:
 - **New Window** : Opens the URL in a new Tab or Window depending on your browser and settings.
 - **Same Window** : Opens the URL in the same window as the record you are currently browsing.
 - **Note**: The Open Link In option is only available for URL data type fields.
- **Parent Dropdown** : Select an option from the dropdown to specify the parent that controls the visibility of this dropdown field.
 - The Parent Dropdown option is populated with the other dropdown data type fields in the current module.

Dependent: Parent Dropdown \$

Parent Dropdown: Industry 🗘 Edit Visibility

- **Note**: The Parent Dropdown option is only available when the Dependent option has "Parent Dropdown" selected.
- Click "Edit Visibility" to specify which options are available from the current dropdown for each value of the parent dropdown. In the Visibility Editor window, drag values from the current dropdown list to the value sections of the parent dropdown.

sibility Editor				
	make those options avail	t on the left of available options lable when the parent option is nt option is selected, the depen	selected. If no items are up	nder a parent option, when
	blank	Apparel	Banking	Biotechnology
Available Options	blank	1	2	3
blank	1	2	3	
1		3		
2				
3	Chemicals	Communications	Construction	Consulting

 This will determine which options in the dropdown list are available when the parent dropdown is set to the specified value. In this example, if the parent dropdown is set to "Apparel", then the current dropdown will have options 1, 2, and 3 where if the parent dropdown is set to "Banking", then the current dropdown will only have options 2 and 3 available. If there are no available options for a parent dropdown value, then the dependent dropdown will not display. To remove an item from the list, simply click and drag the value to the Trash bin on the left. Once the values are set, click "Save" to preserve your changes.



- **Precision** : Enter a number to specify the number of digits to the right of the decimal point the value should be stored as in Sugar.
 - **Note**: The Precision option is only available for Decimal and Float data type fields.
- **Reportable** : Select this checkbox to allow the field to be used in reports.
 - **Note**: The Reportable option is available for all data type fields except Encrypt, Flex Relate, HTML, IFrame, and Image.
- **Required Field** : Select this checkbox to mark the field as required in Sugar. The user will be required to enter a value for the field before saving the record.
 - **Note**: The Required option is available for all data type fields except Checkbox and HTML.
- **Rows** : Enter the number of rows to specify the height of a TextArea data type field.
 - **Note**: The Rows option is only available for TextArea data type fields.
- **System Label** : Enter the system value for storing the label of the field. This is defaulted to the name of the field preceded by "LBL". Any lowercase characters entered will be converted to an uppercase upon saving. Once the field has been created, the system label cannot be changed.

- It is recommended that administrators avoid naming fields with the same system label in order to prevent the same label and header values from existing in the system.
- **Note**: The System Label option is available for all data type fields.
- **Visible If** : Contains the current formula to determine if a field is visible on the layout or not.
 - Click "Edit Formula" to launch the formula builder to change the formula.

Dependent: 🥑 🥡			
Visible If:	equal(\$name,"SugarCF	Edit Formula	

- The formula must result in a Boolean (true/false) response. For more information on how to build a formula using the formula builder, please refer to the <u>Using Sugar Logic</u> section of this page.
- **Note**: The Visible If option is only available when the Dependent option is checked or "Formula" is selected from the dropdown.
- Width : Enter the number of pixels to horizontally scale the image for this field. Enter only the Width or Height options to retain the aspect ratio of the image.
 - **Note**: The Width option is only available for Image data type fields.

Creating Fields

Use the following steps to create a new field via Module Builder:

1. Expand out the tree under the desired module in the Packages panel and select "Fields".



2. In the main panel click "Add Field".

Fields	> ITModules > HelpDesk > Fields
Add Field Edit L	Labels
Name	🗢 🛛 Display Label 🕀
assigned_user_id	Assigned User Id
assigned_user_link	assigned_user_link
assigned_user_name	Assigned to
created_by	Created By

- 3. Enter appropriate values for the <u>Field options</u>. Please note that Field Name is required.
- 4. Once the necessary information is entered, click "Save".

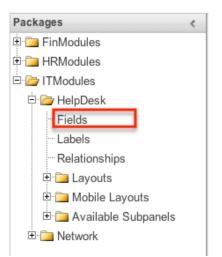
Edit Fields	Edit Field ×			
Save Cancel Delete Clone				
Data Type: D	PropDown			
Field Name:	support_level			
Display Label:	Support Level			
System Label:	LBL_SUPPORT_LEVEL			
Help Text:	The current support le			
Comment Text:				
Drop Down List:	support_level_list \$			
	Edit Add			
Default Value:	Standard 🗘			
Mass Update: 🗹				
Dependent:	-None-			
Required Field:				

5. Once a field is created it must be placed on the record view layout in order for users to enter data into that field. For more information on editing layouts, please refer to the <u>Editing Layouts</u> section of this page.

Editing Fields

Use the following steps to edit an existing field via Module Builder:

1. Expand out the tree under the desired module in the Packages panel and select "Fields".



- 2. In the main panel, select a field to edit. Sorting the fields by the column header will help in locating the field faster.
 - **Note**: Fields created via Module Builder will display an asterisk (*) in front of their name.

Fields		
🗲 눱 Module Builder > I	TModules > HelpDesk > Fields	
Add Field Edit La	bels	
Name	Display Label	Туре
assigned_user_id	Assigned User Id	Relate
assigned_user_link	assigned_user_link	Link
assigned_user_name	Assigned to	Relate
created_by	Created By	Assigned_user_nam
created_by_link	Created by User	Link
created_by_name	Created By	Relate
date_entered	Date Created	Datetime
date_modified	Date Modified	Datetime
deleted	Deleted	Checkbox
* department	department	TextField
description	Description	TextArea
id	ID	ld
itmp_helpdesk_number	Number	Integer
modified_by_name	Modified By Name	Relate
modified user id	Modified By	Assigned user nam

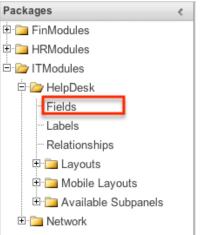
3. Update the necessary <u>Field options</u> and click "Save" once complete.

Edit Fields Edit Field ×			
Save Cancel Clone			
Data Type: TextArea Field Name: description			
Display Label:	Description:		
System Label:	LBL_DESCRIPTION		
Help Text:	Enter in a detailed Des		
Comment Text:	Case details.		
Rows:	6		
Columns:	80		

Deleting Fields

Use the following steps to delete an existing field via Module Builder:

1. Expand out the tree under the desired module in the Packages panel and select "Fields".



- 2. In the main panel, select a field to delete. Sorting the fields by the column header will help in locating the field faster.
 - Fields created via Module Builder will display an asterisk in front of their name.
 - Note: Fields added via the module type template cannot be deleted.

Fields Image: Module Builder > I Add Field Edit La	TModules > HelpDesk > Fields bels	
Name	Display Label	⇔ Туре
assigned_user_id	Assigned User Id	Relate
assigned_user_link	assigned_user_link	Link
assigned_user_name	Assigned to	Relate
created_by	Created By	Assigned_user_nam
created_by_link	Created by User	Link
created_by_name	Created By	Relate
date_entered	Date Created	Datetime
date_modified	Date Modified	Datetime
deleted	Deleted	Checkbox
* department	department	TextField
description	Description	TextArea
id	ID	ld
itmp_helpdesk_number	Number	Integer
modified_by_name	Modified By Name	Relate
modified user id	Modified By	Assigned user nam

3. Select "Delete" to remove the field.

Edit Fields	Edit Field ×			
Save Cancel Delete Clone				
	DropDown support_level_c			
Display Label:	Support Level			
System Label:	LBL_SUPPORT_LEVEL			
Help Text:	The current support le			
Comment Text:				
Drop Down List:	support_level_list			
	Edit Add			

- 4. A pop-up message will display asking for confirmation. Click "Ok" to proceed.
 - Before deleting a field please verify and resolve the following issues:
 - 1. Field must be removed from any report filters or displays.
 - 2. Field must be removed from any workflows that filters or displays the field.
 - 3. Field must be removed from any dashlet that filters or displays the field.
 - 4. Field must be removed from any Sugar Logic formulas.
 - 5. Field must be removed from any email templates.
 - 6. Field must be removed from any saved searches.
- 5. The field will automatically be removed from any module layouts when deleted.
 - $\circ~$ Note: When deleting fields in a module and re-deploying the

package, the data related to the field in the database will not be removed.

Cloning Fields

Use the following steps to clone an existing field via Module Builder:

1. Expand out the tree under the desired module in the Packages panel and select "Fields".



- 2. In the main panel, select a field to delete. Sorting the fields by the column header will help in locating the field faster.
 - **Note**: Fields created via Module Builder will display an asterisk (*) in front of their names.

Fields		
🗲 🛍 Module Builder > IT	Modules > HelpDesk > Fields	
Add Field Edit Lab	els	
Name 🌐	Display Label	🕀 Туре
assigned_user_id	Assigned User Id	Relate
assigned_user_link	assigned_user_link	Link
assigned_user_name	Assigned to	Relate
created_by	Created By	Assigned_user_nam
created_by_link	Created by User	Link
created_by_name	Created By	Relate
date_entered	Date Created	Datetime
date_modified	Date Modified	Datetime
deleted	Deleted	Checkbox
* department	department	TextField
description	Description	TextArea
id	ID	ld
itmp_helpdesk_number	Number	Integer
modified_by_name	Modified By Name	Relate
modified user id	Modified By	Assigned_user_nam

- 3. Select "Clone" to duplicate the field.
 - Note: Some non-standard stock fields (e.g. Name) do not have the

abi	ility to clone.	
Edit Fields	Edit Field ×	
Save	cel Delete Clone	
	DropDown support_level_c	
Display Label:	Support Level	
System Label:	LBL_SUPPORT_LEVEL	
Help Text:	The current support le	
Comment Text:		
Drop Down List:	support_level_list	\$
	Edit Add	

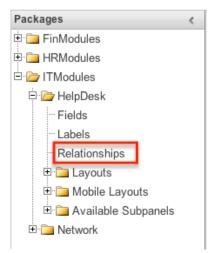
- 4. Enter appropriate values for the <u>Field options</u>.
- 5. Once the necessary information is entered, click "Save".

Edit Fields	Edit Field ×
Save Can	cel
Data Type: D)ropDown
Field Name:	secondary_support
Display Label:	Secondary Support
System Label:	LBL_SECONDARY_SUPF
Help Text:	The current support le
Comment Text:	
Drop Down List:	support_level_list \$
	Edit Add
Default Value:	Standard 🗘
Mass Update:	2
Dependent:	-None-
Required Field:	0_

Relationships

Relationships define the links between different modules in Sugar and allow records between those modules to be related. Related records display in fields or subpanels on a module's detail page depending on the relationship type. When you create a new relationship between two modules, the system automatically creates the necessary subpanels, related fields, and metadata relationships. Relationships provide the added benefit in reports to allow access to a related records fields in addition to the base module's fields.

The relationships section in Module Builder allows administrators to create new relationships between custom and stock modules as well as change some properties on existing relationships. To access the relationship section in Module Builder, select "Relationships" from the Packages panel under the desired module.



Note: Relationships created through Module Builder cannot be deleted in Studio after being deployed. Due to this, it is recommended that relationships be created in Studio after deploying the module instead of via Module Builder. As a best practice, never re-deploy the module from Module Builder as it will remove all customizations made to your module via Studio, code customizations, etc.

Relationship Types

Sugar contains a few different types of relationships you can create between modules. The relationship type will determine what fields or tables will be created in the database as well as what interface the user will see to manage the relationship.

The following relationship types are available in Module Builder:

• **One-to-One** : Records in the primary module and the related module are uniquely related to each other. For a one-to-one relationship between Accounts and Contacts, an account can be associated with only one contact and a contact can be associated with only one account. The relationship will show as a field in each module's record view where changing the relationship from either module will also change the value in the other module.

From the primary Accounts module:

	Ac Avery Software Co 🛧 Follow
	Website http://www.avery.com
	Member of
	Assigned to Max Jensen
	Contacts Donny Milliron
F	From the related Contacts module:
	Title VP Sales
	Department
1	Account Name Avery Software Co
ſ	

Note: You can create a one way relationship between modules using relate fields. For more information regarding relate fields, please refer to the <u>Field Types</u> section of this page.

• **One-to-Many** : Records in the primary module can have relationships with many records in the related module. For a one-to-many relationship between Accounts and Contacts, an account can be associated with many contacts, but each contact can be associated with only one account. The record view of the primary module will display a subpanel for the related module, and the detail view of the related module will display a field containing a link to the related record.

From the primary Accounts module:

[∞] Co	ontacts	
	Name	Account Name
*	Herb Glancy	NW Bridge Con
*	Donny Milliron	Avery Software

From the related Contacts module:

Со	Donny Milliron	Tollow
⊤itle VP Sale	es	
Departmen	ıt	
Account Na	ame	

Avery Software Co

Note: A one-to-many relationship is the same as a many-to-one relationship except the Primary and Related modules are reversed. Adding a custom one-to-many relationship to "Activities" will add custom relationships to calls, meetings, notes, tasks, and emails. This will also automatically add these subpanels to the record view.

• **Many-to-Many** : Records in both the primary module and the related module can have multiple records related in each module. For a many-to-many relationship between Accounts and Contacts, an account can be associated with many contacts, and a contact can be associated with many accounts. Both module's record view will display a subpanel for the opposite module.

Co Cor	ntacts	
	Name	Account Name
*	Herb Glancy	NW Bridge Con
*	Donny Milliron	Avery Software

From the primary Accounts module:

From the related Contacts module:

Ac Accounts				
	Name	÷	Phone	÷
*	Avery Software Co		(320) 013-8679	
*	NW Bridge Construction		(265) 634-6785	

Note: Only modules with subpanels available can be on the "Many" side of a relationship. For example, the Product Catalog module lacks a subpanel; therefore, Product Catalog can only be selected on the "One" side of a relationship.

When you create a relationship for a module, the selected module is considered to be the primary module and the module that you relate it with is the related module.

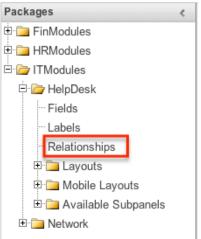
You can also create a relationship between a module and itself. In this case, the relationship becomes a parent-child relationship. For example, you can create a

relationship from Accounts to Accounts in order to create sub-accounts within the primary account.

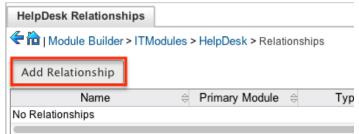
Creating Relationships

Use the following steps to create a new relationship via Module Builder:

1. Expand out the tree under the desired module in the Packages Panel, and select "Relationships".



2. In the main panel, click "Add Relationship".



3. Enter appropriate values for the following options: **Type** : Select the type of relationship to create from the options in the <u>Relationship Types</u> section.

Module : The Primary module is set to the module you are adding the relationship to. Select the Related module from the dropdown. The Primary and Related module can be the same in order to create a parent child relationship.

Label : Enter a label to reference the Primary module or Related module's subpanels for this relationship. This option is only available for the "Many" side of a relationship.

Subpanel from : Select a subpanel option to display the Primary or Related module's records in. This will determine the fields displayed in the subpanel. This option is only available for the "Many" side of a relationship.

4. Once the necessary information is entered, click "Save".

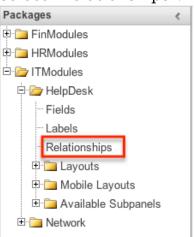
HelpDesk Relati		ship ×		
Prir	mary Module	Туре	Re	lated Module
Module:	Help Desk	Many to Many 💲	Module:	Accounts 🛟
Label:	Help Desk		Label:	Accounts
Subpanel from Help Desk:	default 🗘		Subpanel from Accounts:	default 🗘

5. The required fields and subpanels are instantly created and saved in the package.

Editing Relationships

Use the following steps to edit a relationship via Module Builder:

1. Expand out the tree under the desired module in the Packages Panel, and select "Relationships".



2. In the main panel, select a relationship to edit. Click the column headers to sort the grid by different columns to assist in locating the relationship.

HelpDesk Relationships				
🗲 🛍 Module Builder > ITMod	dules > HelpDesk > Relation	onships		
Add Relationship				
Name	Primary Module	≑ Туре	⇒ Related Module	Ą
itmp_helpdesk_accounts	Help Desk	Many to Many	Accounts	٦.
itmp helpdesk hr people	Help Desk	One to Many	Person	

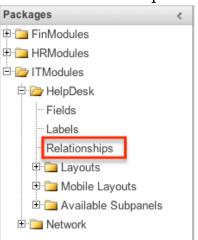
- 3. The only editable field on a relationship is the Label field for naming the Primary or Related module subpanels. Please note that this option is only available for the "Many" side of a relationship.
- 4. Once the necessary information for the Label field is entered, click "Save".

HelpDes	HelpDesk Relationships Edit Relationship ×					
Save	Save Cancel Delete					
Name: itmp	_helpdesk_hr_people					
	Primary Module	Туре	Relate	d Module		
Module:	Help Desk	One to Many 💲	Module:	Person 🛊		
			Label:	Employee		
			Subpanel from Person:	default 🗘		

Deleting Relationships

Use the following steps to delete a relationship via Module Builder:

1. Expand out the tree under the desired module in the Packages panel and select "Relationships".



2. Select a relationship to delete in the main panel. Click the column headers to sort the grid by different columns to assist in locating the relationship.

HelpDesk Relationships			
🗲 🛅 Module Builder > ITMo	dules > HelpDesk > Rela	tionships	
Add Relationship			
Name	Primary Module	⇔ Type	Related Module
itmp_helpdesk_accounts	Help Desk	Many to Many	Accounts
	Help Desk	One to Many	Person

3. Click "Delete" to remove the relationship.

HelpDes	HelpDesk Relationships Edit Relationship ×					
Save	Save Cancel Delete					
Name: itmp	_helpdesk_hr_people					
	Primary Module Type Related Module					
Module:	Help Desk	One to Many 💲	Module:	Person 💠		
			Label:	Employee		
			Subpanel from Person:	default 🗘		

4. A pop-up message will display asking for confirmation. Click "Yes" to proceed.



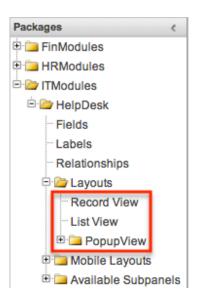
Note: If you wish to retain the data and table structure that currently exists for the relationship, select the "Do Not Remove Tables" option. Leaving the "Do Not Remove Tables" unchecked will delete the relationship data and remove the tables for the relationship from the database when the package is installed.

Before deleting a relationship please verify and resolve the following issues:

- Relationship must be removed from any report filters or displays.
- Relationship must be removed from any workflows that filters or displays fields from the relationship.
- Relationship must be removed from any Sugar Logic formulas referencing the relationship.

Layouts

Layouts are used to represent many screens in Sugar. The layouts section in Module Builder allows administrators to add fields and configure layouts. To access the layouts section, expand "Layouts" from the packages panel under the desired module. The available layouts for the selected module will appear below.



Layout Types

Sugar comes with different types of layouts to represent different sections of Sugar. Please note that not all layouts are available in every module. The following layouts are available to configure in Module Builder:

- **Record View** : Record view layout is used to modify, create, or view a record within the specified module. Please note that this layout is specific to modules using the Sidecar user interface.
- **List View** : List view layout is used to view multiple records within the specified module and displays all results meeting the current search criteria.
- **Popup List View** : Popup list view layout is used to view multiple records via a popup window used to locate and select records in the specified module.

For Sidecar modules:

Searc	h and Select	Accounts				С	ancel	Create	>>
Filter *	All Accounts Sea	arch by name.							
Select	Name	÷ City	÷	Billing Country	÷	Phone	÷		
0	Trait Institute Inc	San Jos	se	USA		(728) 209-6	017	۲	

• **Popup Search** : Popup search layout is used to allow users to perform a search via the popup window used to select records in the specified module.

For Sidecar modules:

Search and Select Accounts Cancel C						Cre	ate »		
Filter -	All Accounts Sear	rch by name							
Select	Name	÷ City	÷	Billing Country		Phone	÷		
\odot	Trait Institute Inc	San Jose		USA		(728) 209-6017			۲

Layout Options

Administrators have the ability to configure the various layouts (e.g. record view, list view, etc.) available via Module Builder. Please note that the layouts can be configured via Admin > Studio as well once the module has been deployed. For more information on configuring layouts, please refer to the <u>Studio</u> documentation.

The following are some of the options available to administrators when configuring layouts via Module Builder:

• **Panels** : Every field on a layout is contained within a panel. Panels can be open or collapsed by default and have a title defining the panel. Panels can be organized to contain groups of similar or related fields to assist in organization.

Select the Pencil icon next to the Panel title to modify the title. Select the Collapsed? checkbox to default the panel as collapsed. Users can open and close panels as the wish.

View History	Restore Defai		o DetailView 🕧
Layout			_
Overview 🖉 🛛	isplay Type 🕧	Panel 🛊	Collapse?
Name	Ø	Office Phone	\checkmark
Website	\checkmark	Fax	\oslash
Billing Stree	t 🖉	Shipping Stree	et 🧭
Email Add	Iress		\bigotimes
Descriptio	n		$\overline{\diamond}$

Note: The default panel name cannot be modified in Module Builder.

- **View History** : Sugar preserves a history of the changes made to each layout. Click "View History" and the History dialog box will display the timestamp of when changes occurred and allow you to preview the layout then restore if you wish. For more information on viewing the history of layouts, please refer to the <u>Viewing Layout History</u> section of this page.
- **Restore Defaults** : Sugar provides the option to restore a layout to its original default configuration. For more information on how to restore the

default layout, please refer to the <u>Restoring Layout Defaults</u> section of this page.

Editing Layouts

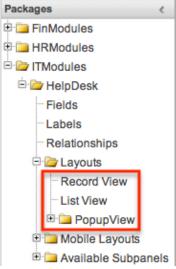
You can add, remove, hide, etc. the fields for the available layouts in the module by selecting the specific layout under the Packages panel to edit. Please note that the List View and Popup View layouts have columns where you can designate fields users can and cannot see.

Once a module is deployed, record views may be configured in Studio to display differently <u>based on the viewing user's role</u>.

Editing Record View Layout

The following steps cover editing the Record View layout as an example:

1. Expand "Layouts" from the Packages panel under the desired module and select the layout (e.g. Record View) you wish to edit. The Record View layout will display in the main panel to the right.



- 2. To add a field to the Record View layout, drag the field from the list of fields in the Toolbox to a "(filler)" location on the layout per your preference.
 - You can also drag a field to a location on the layout that already has a field in place. The newly added field and the existing field on the layout will swap places.

Record Vie	ew		
🗲 🛍 Mod	ule Builder > ITModu	ules > HelpDesk > Layouts > Record View	
Save	View History	Restore Default	
Toolbox		Layout	
New Panel		Business Card O Display Type (1): Panel + C Number: Priority Status Type	
New Row	·	Resolution Created By	
(filler) Modified By	/ Name	Description	

3. To remove a field from the layout, drag and drop the field from the layout to the trash bin in the toolbox to remove the field from the layout. You may remove an entire row in the layout using the same method.

Record Vie	w		
 🕆 Modu	le Builder > ITModu	ules > HelpDesk > Layouts > Record View	
Save	View History	Restore Default	
Toolbox		Layout	
		Business Card 🖉 Display Type 🕧 : Panel 🛊	Collapse?
Mod fied	By Name	Number: Priority	
New Panel		Туре	
New Row		Resolution Assigned to	
(filler)		System Id:	

- 4. To expand or minimize the field column in the layout, click the Plus icon (+) to stretch the field over two columns or click the Minus icon (-) to fit the field into one column.
 - **Note**: The layout will display a "(filler)" if there is no field in that location.

Layout		
Business Card 🧭 Display T	ype 🕧 : Panel 🛊	Collapse?
Number:	Priority	
Status	Туре	
Resolution	Assigned to	
estem Id:	(filler)	
escription		

5. To add a new row, drag the "New Row" item in the Toolbox to the layout to allow additional fields or blank spaces to be added.

Record View	v				
🗧 🛅 Modul	e Builder > ITModu	iles > HelpDesk > Lay	youts > Record Vi	ew	
Save	View History	Restore Default			
Toolbox		Layout			
		Business Card	Ø Display Type	(i) : Panel 🛊	Collapse?
3		Number:		Priority	
New Panel		Status		Туре	
New Row		Resolution		Assigned to	
(filler)		New Row			
Created By					

6. To add a new panel, drag the "New Panel" item in the Toolbox to the layout to group different sets of fields together in the Record View layout.
Record View

C 🔟 Mod	ule Builder > ITModu	ules > HelpDesk > Layouts > Record View	
Save	View History	Restore Default	
Toolbox		Layout	
		Business Card Oisplay Type : Panel +	Collapse?
New Panel		Status	
New Row	New Panel	Resolution Assigned to	
(filler)	New Fallel	Description	
Created By			

7. Once the layout is finalized, click "Save" to preserve your changes.

Module Builder > ITModules > HelpDesk > Layouts > Record View				
Save	View History	Restore Default		
Toolbox		Layout		
		Business Card 🧭 Display Type 🕧 : Panel 🛊 Collapse? 🗆		
3		Number: Priority		

Note: It is recommended that dependent fields be placed below and/or to the right of the independent field in order to preserve the correct display of fields on the layout.

Editing List View Layout

Unlike the Record View layout, the List View layout has columns where you can designate fields users can and cannot see. When configuring the List View layout,

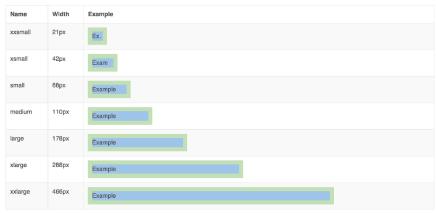
you will see three columns (Default, Available, Hidden) where fields can be dragged and dropped accordingly.

Please note that editing the List View layout affects the list of available fields for the module's list view dashlet as well since both are controlled by the same layout (List View). Once the custom module is deployed, the configurations made to the list view layout in Module Builder will be reflected in the Columns fields of the corresponding module dashlet's Configuration Options page. After the custom module is deployed, all succeeding changes to the List View layout can be made via <u>Studio</u>. Please keep in mind that the custom module dashlet will not automatically reflect the Studio changes and users must edit the dashlet in order to view the changes, add new fields to the layout, etc.

Administrators can easily set the column widths for specific fields when configuring the List View layout. You can choose from a pre-defined list of width sizes (e.g. small, medium, large, etc.) that are available out-of-the-box with Sugar or enter a custom width value in pixels (e.g. 200) for Sidecar modules.

Note: When defining the column width for currency fields (e.g. Likely, Best, etc.), only "large" and above will apply because there is a minimum width requirement in Sugar for this field type. In addition, when defining a custom width for currency fields, the value must be 141px or wider.

The following table lists the available column width sizes in Sugar along with the corresponding width in pixels: Table column widths



- **Default** : This column contains fields that are displayed in the layout.
- **Available** : Available fields are fields that will not show by default in the layout, but if the layout can be personalized, users can add these fields to their view of the layout. Not all list type layouts have an available fields section.
- **Hidden** : This column contains fields that will not be displayed in the layout.

The following steps cover editing the List View layout as an example:

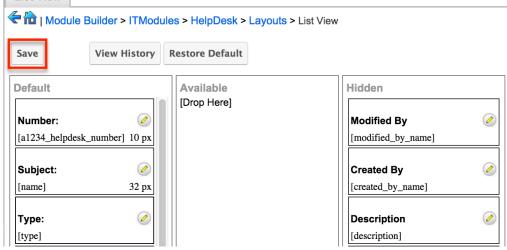
- 1. Expand "Layouts" from the Packages panel under the desired module and select "List View".
- 2. To add a field to the List View layout, drag and drop the fields from the Hidden column to the Default column.
 - Note: The fields in the Default column will be available to add as display columns in the corresponding custom module dashlet (e.g. My HelpDesk).

List View			
🗄 🛍 Modu	le Builder > ITModu	ules > HelpDesk > Layouts > L	ist View
Save	View History	Restore Default	
Default		Available	Hidden
Number:	lesk_number] 5 px	[Drop Here]	Modified By (modified_by_name)
	lesk_humber] 5 pk	Туре:	
Subject:	e	[type]	Туре:
[name]	32 px		[type]
Status:	0		Created By
[status]	10 px		[created_by_name]

- 3. To remove a field from the layout, drag and drop the field from the Default column to the Hidden column.
- 4. To change the left-to-right order of the fields displayed on the list view, drag and drop fields up or down within the Default list.
 - **Note**: The order of fields designated for the List View layout also affects the order for the list of available fields in the corresponding custom module dashlet (e.g. My HelpDesk).
- 5. To modify the label of the field, as well as the width of the field, click the Pencil icon next to each field.
- 6. Enter the new label or select the width (e.g. small, medium, large, etc.) then click "Save". Please note the modified label will display in all List View layouts for this module.
 - Note: Administrators can choose from a pre-defined list of width sizes (e.g. default, small, medium, etc.). Please note that selecting the Default width will set the list view column to equal the Medium width size. Selecting "custom" from the list will allow you to enter a custom width value in the open box. The custom width value should be entered in pixels (e.g. 200) for the fields.

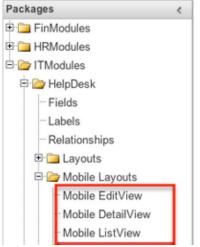
List View	Properties ×
La	abel: Number:
w	idth custom 🗘 5
Save	

7. Once the layout is finalized, click "Save" to preserve your changes.



Mobile Layouts

Administrators can also configure the mobile layouts for Sugar Mobile by expanding "Mobile Layouts" for the desired module from the Packages panel. The list of available mobile layouts will display below and you can select the specific layout (e.g. Mobile EditView, Mobile ListView, etc.) you wish to configure.



Mobile Layout Types

There are various mobile layouts in Sugar to represent the different areas of the Sugar mobile application. Please note that not all layouts are available in every module and the different mobile applications will use the information defined here differently.

The following mobile layouts are available in Sugar:

- **Edit View** : Edit view layout is used in Sugar to modify or create records in the specified module.
- **Detail View** : Detail view is used in Sugar to view the current data for a record within the specified module. Certain fields are translated to Sugar Mobile as buttons instead of data. For example, instead of seeing the phone number, there is a phone icon to be able to call the number on the record.
- List View : List view layout is used in Sugar to view multiple records within the specified module. Only the first two fields in the list view section will be displayed in Sugar Mobile.

Mobile Layout Options

Administrators have the ability to configure the various layouts available via Module Builder. Please note that the mobile layouts can be configured via Admin > Studio as well once the module has been deployed. For more information on configuring layouts, please refer to the <u>Studio</u> documentation.

The following are some of the available options when configuring mobile layouts via Module Builder:

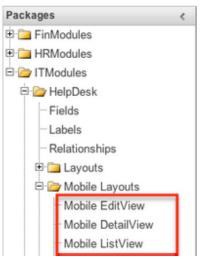
- **View History** : Sugar preserves a history of the changes made to each layout. Click "View History" and the History dialog box will display the timestamp of when changes occurred and allow you to preview the layout then restore if you wish. For more information on viewing the history of layouts, please refer to the <u>Viewing Layout History</u> section of this page.
- **Restore Defaults** : Sugar provides the option to restore a layout to its original default configuration. For more information on how to restore the default layout, please refer to the <u>Restoring Layout Defaults</u> section of this page.

Editing Mobile Layouts

You can add, remove, hide, etc. the fields for the available layouts in "Mobile Layouts" by selecting the specific layout under the Packages panel to edit. Please note that the Mobile EditView and DetailView layouts are modified in similar fashions. The Mobile ListView layout has columns where you can designate fields users can and cannot see.

The following steps cover editing the Mobile EditView layout as an example:

1. Expand "Mobile Layouts" from the Packages panel under the desired module and select "Mobile EditView". The selected layout will display in the main panel to the right.



- 2. To add a field to the Mobile EditView layout, drag the field from the list of fields in the Toolbox to a "(filler)" location on the layout per your preference.
 - You can also drag a field to a location on the layout that already has a field in place. The newly added field and the existing field on the layout will swap places.

Mobile EditVi	iew	
🗲 🛅 Module	e Builder > ITModu	les > HelpDesk > Mobile Layouts > Mobile EditView
Save	View History	Restore Default
Toolbox		Layout
		Default 🖉 Display Type 🕧 : 🏼 Panel 🛊
0		Number
New Row		Priority
(filler)		Status
Created By		Cubject
Date Created		
Date Modifie		(filler)
		Assigned to

3. To remove a field from the layout, drag and drop the field from the layout to the trash bin in the Toolbox to remove the field from the layout. You may remove an entire row in the layout using the same method.

Mobile EditView				
< 🗎 Module Bu	ilder > ITModul	les > HelpDesk > Mobile Layouts > Mobile EditView		
Save	iew History	Restore Default		
Toolbox		Layout		
Teams		Default 🧭 Display Type 🕧 : Panel 🛊		
🐻 🔨		Number		
New Row		Priority		
(filler)		Status		
Created By		Description		
Date Created				
Date Modified		(filler)		
Subject		Ass ned to		
Modified By Name				

4. To add a new row, drag the "New Row" item in the Toolbox to the layout to allow additional fields or blank spaces to be added.

🗲 🛍 Module	Builder > ITModu	Iles > HelpDesk > Mobile Layouts > Mobile EditView
Save	View History	Restore Default
Toolbox		Layout
		Default 🖉 Display Type 🕧 : Panel 🖨
New Row		Priority
(filler)		Status
Created By		Subject
Date Created Date Modified	New Row	
Modified By Na	ame	Description

5. Once the layout is finalized, click "Save" to preserve your changes.
Mobile EditView

🗲 🛍 Ma	odule Builder > ITModul	les > HelpDesk > Mobile Layouts > Mobile EditView
Save	View History	Restore Default
Toolbox		Layout
_		Default 🖉 Display Type 🕧 : Panel 🛊
0		Number
		Priority

Unlike the Mobile EditView layout, the Mobile ListView layout has columns were you can designate fields users can and cannot see. When configuring the Mobile ListView layout, you will see three columns (Default, Available, Hidden) where fields can be dragged and dropped accordingly.

- **Default** : This column contains fields that are displayed on the list view.
- **Available** : Available fields are fields that will not show by default in the layout, but if the layout can be personalized, users can add these fields to their view of the layout. Not all list type layouts have an available fields section.
- **Hidden** : This column contains fields that will not be displayed on the list view.

The following steps cover editing the Mobile ListView layout as an example:

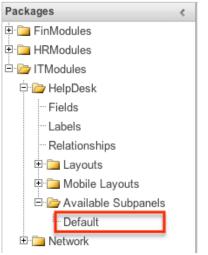
- 1. Expand "Layouts" from the Packages panel under the desired module and select "Mobile ListView".
- 2. To add a field to the Mobile ListView layout, drag and drop the fields from the Hidden column to the Default column.

MODIle LISTAIEW				
🗲 🛅 Module Builder > ITM	odules >	HelpDesk > Mobile Layou	uts > Mobile ListView	
Save View His	tory	Restore Default		
Default		Available	Hidden	
Number:	\oslash	[Drop Here]	Date Created	0
[C1234_HelpDesk_number]	5%		[date_entered]	%
Subject:	\bigcirc		Date Modified	0
[name]	32 %		[date_modified]	%
Status:	\oslash		Modified By Name	0
[status]	10 %	Description	[modified_by_name]	%
Priority:	\bigcirc	[description]	% Created By	\oslash
[priority]	10 %		[created_by_name]	%
Resolution	\oslash		Description	0
[resolution]	10 %		[description]	%

- 3. Click the Pencil icon to modify the label of the field as well as the width percentage the field will take up in the list view. Please note that the modified label will display in all List View layouts in Sugar Mobile.
- 4. Once the layout is finalized, click "Save" to preserve your changes.

Available Subpanels

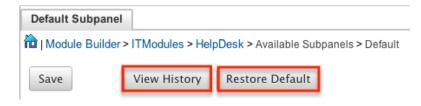
Related records between modules in Sugar are commonly displayed in Subpanels. Similar to list type layouts, administrators can modify the available subpanel layouts to change which fields are shown in a module's subpanel. You can add or remove fields for these subpanels depending on the information that you want to display to users. To access the subpanels section in Module Builder, expand "Available Subpanels" from the Packages panel under the desired module. The available subpanel for the selected module will appear to the right of the screen.



Subpanel Options

When configuring the Subpanel layout in Module Builder, there are some available options which allow you to view historical layout changes as well as restore the default layout. Please note that the subpanel layout can be configured via Admin > Studio as well once the module has been deployed. For more information on configuring layouts, please refer to the <u>Subpanels</u> section of the Studio documentation.

- **View History** : Sugar keeps a history of the changes made to each subpanel. These changes and when they occurred can be viewed and restored via "View History". For more information on viewing the history of subpanels, please refer to the <u>Viewing Layout History</u> section of this page.
- **Restore Defaults** : Sugar also contains the ability to restore a subpanel to its original default configuration. For more information on how to reset a subpanel to default, please refer to the <u>Restoring Layout Defaults</u> section of this page.



Editing Subpanel Layout

Use the following steps to modify a subpanel via Module Builder:

1. Expand "Available Subpanels" from the Packages panel under the desired module and select the subpanel you wish to edit. The selected subpanel layout will display to the right in the main panel.

5 10	
Packages	<
🗉 🚞 FinModules	
🗉 🚞 HRModules	
🖻 🗁 ITModules	
🖻 🗁 HelpDesk	
Fields	
Labels	
···· Relationships	
🕀 🧰 Layouts	
🗉 🪞 Mobile Layouts	
🖻 🗁 Available Subpanels	
· Default	
🗉 🗀 Network	

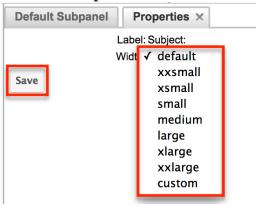
- 2. To add a field to the Subpanel layout, drag and drop the fields from the Hidden column to the Default column.
 - $\circ\,$ You can drag the field up and down the list to change the position of the field in the subpanel.

Default Subpanel Propertie	es ×			
I Module Builder > ITModules >	HelpDesk > Available Subpanels > Default			
Save View History	Restore Default			
Defeult	Hidden			
Default	Hidden			
Subject:	Teams 🧭			
[name]	[team_name]			
Date Created				
Status:	ate_entered]			
[status]	[[date_entered]			
Priority:	Date Modified			
[priority]	[date_modified]			

3. To remove a field, drag and drop the fields from the Default column to the Hidden column.

Default Subpanel Propert	ies ×
I Module Builder > ITModules	> HelpDesk > Available Subpanels > Defaul
Save View History	Restore Default
Default	Hidden
Subject: 🧭	Teams 🧭
[name]	[team_name]
Status: 🧭	Date Modified
[status]	[date_modified]
Date Created	Modified By
[date entered] Priority:	nodified_by_name]
[priority]	Created By
[priority]	[created_by_name]

- 4. Click the Pencil icon to change the column width of the field in the subpanel.
 - Note: Administrators can choose from a pre-defined list of width sizes (e.g. default, small, medium, etc.). Please note that selecting the Default width will set the list view column to equal the Medium width size. Selecting "custom" from the list will allow you to enter a custom width value in the open box. The custom width value should be entered in pixels (e.g. 200) for the fields.
 - When defining the column width for currency fields (e.g. Likely, Best, etc.), only "large" and above applies because there is a minimum width requirement in Sugar for this field type. In addition, when defining a custom width for currency fields, the value must be 141px or wider.



5. Once the subpanel layout is finalized, click "Save" to preserve your changes.

Default Subpa	inel				
hodule Buil	der > ITModules	>	HelpDesk > Ava	ailable Subpanels	> Default
Save	View History	R	estore Default		
Default			Hidden		
Subject: [name]	Medium	L	Teams [team_name]	Ø	

Using Sugar Logic

Sugar Logic allows administrators to write simple formulas and logic checks to provide a calculation for a field or to set the visibility of a field. A formula specifies one or more field values along with operators and functions that are mathematical or logical. When you execute a formula, Sugar performs the calculation to derive the value. When a field is used in a formula, Sugar recalculates the value whenever a user updates it and saves the record. Similarly, if you update a formula, Sugar recalculates the field value based on the updated formula. For the complete list of Sugar Logic functions and how to use them, please refer to the <u>Studio</u> documentation.

For more information regarding the types of fields that support the use of Sugar Logic, please refer to the <u>Field Options</u> section of this page.

Viewing Layout History

Layouts, subpanels, and mobile layouts keep a history of the last ten changes made to each layout. To view the history for any of these layouts, simply click "View History" on the layout editor view in Module Builder.



The History dialog box will open up displaying the timestamps of when changes occurred and allow you to preview the layout by clicking the Preview button.

HelpDesk : Record View history				
TimeStamp				
09/24/2013 04:35pm	Preview	Restore		
09/24/2013 04:35pm	Preview	Restore		
09/24/2013 04:35pm	Preview	Restore		
09/24/2013 04:35pm	Preview	Restore		
09/24/2013 04:35pm	Preview	Restore		
09/24/2013 04:34pm	Preview	Restore		
09/24/2013 04:34pm	Preview	Restore		
09/24/2013 04:31pm	Preview	Restore		
09/24/2013 04:31pm	Preview	Restore		
09/24/2013 04:27pm	Preview	Restore		

The preview will show the details of the layout as of the specific time it was saved. To restore the layout to the particular version you are viewing, simply click the Restore button from under the Preview tab or in the History dialog box. The restored layout will load into the layout editor allowing you to make any additional changes as necessary. Click "Save" to preserve your changes.

Record View Preview ×				
Close Restore				
Layout Preview Business Card				
Number	Priority			
Assigned to	HelpDesk : Record View h	istory	×	
Туре	TimeStamp			
Modified By Name	09/24/2013 04:35pm	Preview	Restore	
	09/24/2013 04:35pm	Preview	Restore	
Description	09/24/2013 04:35pm	Preview	Restore	

Restoring Layout Defaults

Many layouts, subpanels, and mobile layouts can be restored to their original default configuration. To restore the default for any of these layouts, simply select "Restore Default" from the edit layout screen in Module Builder.

View History	Restore Default 🗆 Sync to I	DetailView (i)
Layout		
Overview 🖉 🛛	Display Type и : Panel 🛊	Collapse?
Name	Office Phone	\checkmark
Website	Fax	\checkmark

The default layout will load into the editor allowing you to make changes as necessary. Click "Save" to preserve your changes.

Deleting Modules

If a module is invalid or should no longer appear in a package, it may be deleted from Module Builder. Please note that deleting a module from a package will not remove the module from any instances where the package was deployed. For more information on how to uninstall a deployed package from an instance, please refer to the <u>Module Loader</u> documentation.

Use the following steps to delete a module from a package via Module Builder:

1. Select the desired package and module from the Packages panel or the main panel.

Packages	< Package
🗄 🚞 FinModules	(Contraction of the second sec
HRModules	Save Duplicate Deploy
± TModules	Last Modified: 2013-05-31 10:23am
	* Package Name: HRModules
	Author: Admin
	* Key: HR
	Description:
	⇒ Readme
	Modules:
	New Module People Resumes

2. Click "Delete" to remove the module.

Module	
🗲 🏠 Module	Builder > HRModules > People1
	Save Duplicate View Fields View Relationships View Layouts Delete
Package:	HRModules
* Module Name:	People1
* Label:	People
Importing:	$\overline{\mathscr{A}}$
Team Security:	
Navigation Tab:	
* Type:	лî
	person

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Last Modified: 2019-08-21 17:48:43

Module Loader

Overview

Module Loader is used to install a variety of custom file packages, including custom modules, into a Sugar instance. Using Module Loader, you can also manage and uninstall these packages, all done through Sugar's user interface. Packages are uploaded as a ZIP file from an administrator's local computer and then, when deployed, will force changes upon the instance's filesystem and database.

Custom module packages can be created and modified in <u>Module Builder</u>, and then, after deployment, they will show in Module Loader. They can also be exported from Module Builder in one instance, and then uploaded to another instance via Module Loader.

Module Loader Layout

Module Loader consists of three panels. The panels include all necessary information about the packages, and also include different action buttons, explained in <u>Module Loader Fields</u>. The panels are:

• **Installed Packages :** This panel shows all installed packages. On this panel, you have the option to uninstall or disable installed packages. After installation, the packages will move from the Uploaded Packages panel to this panel.

Module Loader				
The following extensions are installed on this system:				
Name	÷	Action	Enable/Disable	Туре
Dashboard Manager		Uninstall	Disable	module

• **Module Upload :** This panel consists of an upload option where files can be uploaded to Sugar via a browser file selection window. Please review <u>Uploading Modules</u> for more information on using this panel.

Module Choose File No file chosen	Upload
Choose File No The Chosen	Upload

• **Uploaded Packages :** This panel shows all packages that have been uploaded to Sugar, but have not yet been installed, or have been uninstalled. Packages can be installed or deleted from Sugar using this

panel.

Name	÷	Install	Delete	Туре
SchedulerAlerts		Install	Delete Package	Module

Module Loader Fields

Module Loader contains different fields on the <u>Installed Packages and Uploaded</u> <u>Packages panels</u>. Each set of fields show relevant and identifying information about the module package.

The Installed Packages panel consists of the following fields:

Field	Description
Name	The name of the package, pulled from the manifest.php file of the package
Action	Button allowing you to uninstall the package from your Sugar instance if the package is marked as uninstallable in the manifest.php file of the package
Enable/Disable	Button allowing you to enable or disable the functionality of the package without uninstalling Note : Always perform a <u>Quick Repair</u> and Rebuild after disabling and then re- enabling a package via Module Loader.
Туре	Describes the type of package, pulled from the manifest.php file of the package
Version	The version of the package pulled from manifest.php file of the package
Date Installed	The date and time that the package was installed
Description	The description of the package pulled from the manifest.php file of the package

The Uploaded Packages panel consists of the following fields:

Field	Description
Name	The name of the package pulled from

	the manifest.php file of the package
Install	Button allowing you to install the package to your Sugar instance
Delete	Button allowing you to delete the package from your Sugar instance
Туре	Describes the type of package, pulled from the manifest.php file of the package
Version	The version of the package, pulled from manifest.php file of the package
Date Published	The date and time that the package was initially created from the publisher
Uninstallable	Tells you if the package is uninstallable from the manifest.php file of the package
Description	The description of the package pulled from the manifest.php file of the package

Uploading Packages

After receiving the file that you would like to install, you must first upload it to your Sugar instance. To upload a file, follow the following steps:

- 1. Navigate to Admin > Module Loader
- 2. Click the "Choose File" button in the Module Upload panel to open a file selection window from your browser



- 3. Select the file from your local computer
- 4. After you select your file, click the "Upload" button to complete the process



5. After it has been uploaded, the package will show in the Uploaded Packages panel

Module Choose File No file chosen Upload				
Name 🔤	Install	Delete	Туре	
Dashboard Manager	Install	Delete Package	Module	

Installing Packages

After uploading a package to Module Loader, it must be installed for the package's contents to take effect on your instance. To install a package, follow the following steps:

- 1. Follow the steps to <u>upload your package</u> to Module Loader.
- 2. Click the "Install" button on the Uploaded Packages panel.

Name	Ð	Install	Delete	Туре
Dashboard Manager		Install	Delete Package	Module

3. You will be brought to the installation screen to confirm that the packages should be installed and to read and accept any license or readme documentation as needed. Click "Commit" when ready to run the installation.

Ready To Install	
License Readme	
Please read the following License Agreement:	
PLEASE READ THIS MASTER SUBSCRIPTION AGREEMENT CAREFULLY BEFORE ACCEPTING. THE TERMS AND CONDITIONS OF THIS MASTER SUBSCRIPTION AGREEMENT, ANY ADDITIONAL TERMS AND ANY ORDER FORMS ENTERED INTO BY YOU AND SUGARCRM ARE COLLECTIVELY REFERRED TO AS THE "AGREEMENT." UNLESS OTHERWISE DEFINED HEREIN, CAPITALIZED TERMS SHALL HAVE THE MEANINGS SET FORTH IN SECTION 11 BELOW.	
	_//
Commit Cancel	

- 4. The next page will show a progress bar and a completion notice. If there are any errors, they will be displayed with a verbose explanation of what went wrong. If not, click "Display Log" to show what happened during the installation process.
 - Note: To sustain the stability, security, and integrity of Sugar's cloud service environment, all installed packages are scanned to check for code not conforming to environmental agreements. Any package that fails this scanner will not be installed and the installer will produce a reason for the failed installation. If this happens, please contact the developer of your package for more information.
- 5. Click "Back to Module Loader" when complete to return to Module Loader.

If you do not need to install any further packages, you can navigate to any other section of Sugar as need be.

100%	
<u>Display Log</u> Module Installed Successfu	ılly
Back to Module Loader	

Uninstalling Packages

After a package has been <u>installed</u> in your Sugar instance, it can be removed if it is no longer needed. When uninstalled, the package will remove any available customizations to your instance from the filesystem and database.

Note: Packages have to be defined as "Uninstallable" in the manifest.php file of the package to be able to be uninstalled.

To uninstall a package, perform the following steps:

- 1. Navigate to Admin > Module Loader.
- 2. Locate the package you would like to uninstall in the Installed Packages panel.
- 3. Click the "Uninstall" button.

The following extensions are installed on this system:			
Name 🔤			Туре
Dashboard Manager	Uninstall	Disable	module

- **Note:** If you do not see an Uninstall button next to your package, it may be caused by one of the following circumstances:
 - There may be a newer version of the package installed that has an Uninstall button and that package must be uninstalled first.
 - The manifest.php file may not define the package as uninstallable.
 - The package may be missing files that are critical to performing the uninstall.
- 4. If the package has added any database tables to your instance, you will see a selection whether to remove or retain the database tables. If the database tables include any information you would like to keep, select the "Do Not Remove Tables" option. An example of this would be if you are uninstalling a custom module but will be reinstalling a new version of the same module. You would want to keep the data but remove any files associated with the old module that will be replaced with the new package.
- 5. Click "Commit" when you are ready to uninstall the package.

Ready To Uninstall			
Commit Cancel			
Remove Tables Do Not Remove Tables			

- 6. The next page will show a progress bar and a completion notice. If there are any errors, they will be displayed with a verbose explanation of what went wrong. If not, click "Display Log" to show what happened during the uninstall process.
- 7. Click "Back to Module Loader" when complete to return to Module Loader. If you do not need to uninstall any further packages, you can navigate to any other section of Sugar as need be.

Display Log	
Removing for dash_DashboardBackups Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardBackups	
Removing for dash_DashboardManager	
Removing for dash_DashboardManager Removing for dash_DashboardManager	
Removing for dash_DashboardManager	
centoving for dash_bashboardmanager	
Complete	
Indule Uninstalled Successfully	
Back to Module Loader	
Back to Module Loader	

8. After the package has been uninstalled, it can be deleted from your instance via the Uploaded Packages panel.

Name 🔤	Install	Delete	Туре	
Dashboard Manager	Install	Delete Package	Module	

Installing Role-Based Customizations

Administrators have the ability to create role-based custom dropdown lists and role-based custom record views via Studio and Dropdown Editor. These role-based customizations are included when exporting customizations via Studio. When the exported package is then installed on a destination instance, administrators will be given the opportunity to map the package's customized roles to the destination

instance's roles. Sugar will attempt to select a matching role from amongst the destination instance's roles. The role mapping can be manually altered by selecting a different role from the dropdown menus. If you wish to not install a role's customizations, choose "Do not map this role" in the dropdown. Once the mappings are correctly set, click "Commit" to proceed with installing the package.

Map ACL Roles

Package Roles	Insta	nce	Roles
Sales Administrator ID: 40df175a-e723-804a-8af7-556cde10469e	Sales Administrator	\$	(matches by Name)
Customer Support Administrator D: 4ef9edf3-9145-73d1-5682-556cde2fd660	Customer Support Administrator	*	(matches by Name)
Marketing Administrator D: 47fcf6db-c11e-8032-2174-556cdef11e45	Do not map this role	•	

Importing Role-Based Custom Record Views

If the package contains role-based custom record views, the mapped roles in the destination instance will be updated to match the package's custom record views. Any prior customizations made record view for the destination instance's role will be overwritten. Regardless of any prior customizations made on the destination instance, all mapped roles will be updated to completely match the imported rolebased record views. For more information about creating role-based custom record views, please refer to the <u>Studio</u> documentation.

Importing Role-Based Custom Dropdown Lists

When a package contains non-stock dropdown values for the default role, the destination instance's default role-list will be completely overwritten by the package.

If the package, the destination instance, or both include role-based custom dropdown lists, Sugar will take the destination instance's original customized rolelists into consideration when deciding on the resulting customized role-lists. The following table demonstrates how default custom dropdown lists and role-based custom dropdown lists will be affected:

- When a cell indicates "Undefined", it means that the role does not have a customized role-list, and it will inherit the custom default list.
- When a cell indicates "Any", it means that the role's role-list is customized, but any of the possible combinations of values will produce the same result.

- When a cell indicates "Empty", it means that the role's role-list is customized to have no enabled values.
- In every situation, the resulting default role-list will be overwritten to exactly match the package's default role-list.

Situation and Outcome	Destinati on Default Role-List	Destinati on Custom Role-List	Package Default Role-List	Package Custom Role-List	Resulting Default Role-List	Resulting Custom Role-List
The destinatio n and package match.	A,B,C	B,C	A,B,C	B,C	A,B,C	B,C
The destinatio n remains unchanged						
This role is not customize d in the destinatio n or package.	A,B,C	Undefined	X,Y,Z	Undefined	X,Y,Z	Undefined
This role will not be customize d and will inherit the default role-list.						
This role is customize d in both the destinatio n and package.	A,B,C	Any	A,B,C	A,C	A,B,C	A,C
This role's custom						

role-list is updated to match the package's.						
This role is customize d in both the destinatio n and package.	A,B,C	Any	X,Y,Z	X,Y	X,Y,Z	X,Y
This role's custom role-list is updated to match the package's.						
This role's custom role-list has no enabled options in the package. This role's custom	A,B,C	Any, Empty, or Undefined	X,Y,Z	Empty	X,Y,Z	Empty
role-list will have no enabled values.						
This role is customize d in the destinatio n but not in the package.	A,B,C	A,C	A,B,E	Undefined	A,B,E	A
This role's custom role-list is reduced to						

the values present in both the d estination' s custom role-list and the package's default role-list.						
This role is customize d in the destinatio n but not in the package.	A,B,C	Any	X,Y,Z	Undefined	X,Y,Z	Empty
This role's custom role-list will have no enabled values since there is no overlap between the destin ation's custom role-list and the package's default role-list.						
This role is customize d in the destinatio n but not in the package. This role's	A,B,C	С	A,B,E	Undefined	A,B,E	Empty

I .	1	1		I	
custom					
role-list					
will have					
no enabled					
values					
since					
there is no					
overlap					
between					
the destin					
ation's					
custom					
role-list					
and the					
package's					
default					
role-list.					

For more information about creating role-based custom dropdown lists, please refer to the <u>Dropdown Editor</u> documentation.

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Sugar Portal

Overview

The Sugar Portal is used by customers to access and view specific information in your instance or create new records in your instance. The portal allows customers with valid login credentials to access <u>cases</u>, <u>bugs</u>, and <u>knowledge base</u> records, and the ability to update their <u>contact</u> information. Administrators can configure portal settings, the look and feel of the theme, and the layout configurations via Admin > Sugar Portal.

For more information on how a Sugar user can interface with the portal, please review the <u>Portal Deployment User Guide</u>.

For more information on how your customers can interface with the portal, please review the <u>Portal User Guide</u>.

Configure Portal

Multiple settings for the portal can be edited in the Configure Portal menu in the Sugar Portal section of Admin menu. This is the first place to look when initially enabling and setting up your portal. This menu includes the following options:

Field name	Description
Configure Portal	Select the "Enable" checkbox to have the portal enabled for customers. After enabling the portal and clicking "Save" at the bottom of the page, the portal URL will appear under the Enable checkbox. This is the URL where the portal for your instance can be accessed.
Logo URL	 Add a URL to an image or logo to this field so that your company logo will show on the login page of the portal. Note: The image must have a publicly accessible URL and cannot be uploaded from your local machine. The recommended size of the image is 163 × 18 pixels.
Number of records to display on list	 Enter the number of how many records will show when viewing a dashlet or list view in the portal. The default number of records is 20. Note: This value must be no greater than 100.
Default assigned for new portal registrations	When a user tries to register for the portal and creates a lead in Sugar, this designation defines the user assigned to the lead.

Enabling Sugar Portal automatically creates a Customer Self-Service Portal Role and a portal API user called "Sugar Customer Support Portal" which can be viewed in the <u>Roles</u> and <u>Users</u> modules, respectively. You can use Access controls within the role to enable and/or disable the Bugs, Cases, or Knowledge Base modules for the Sugar portal. The Sugar Customer Support Portal user is used to authenticate customer requests to the portal. Please do not modify any other Access controls or the field level permissions for this role to avoid unknown and unpredictable system behavior. **Note**: If the Customer Self-Service Portal Role or Sugar Customer Support Portal user are accidentally deleted, please disable and re-enable the Sugar Portal to recreate the role and user.

After the Configure Portal's save button, there may be a section of text showing a list of any modules that are currently disabled in <u>Display Modules and Subpanels</u>.



If a module is disabled, it will not appear in the Sugar Portal. The modules that will show here are Cases, Bugs, and Knowledge Base.

Theme Portal

Sugar Portal Editor allows you change the colors of the navigation bar, the line under the navigation bar, and the main button in each Sugar Portal page to match your company's color scheme.

The theme menu allows you to configure the following elements on the portal page:

- **Border Color** : The line separating the Navigation Bar and the rest of the page.
- **Navigation Bar** : The bar at the top of the screen that includes module tabs and the search bar.
- **Primary Button** : The button on the page that contains the primary function, usually Save or Edit.

To change the color of one of the elements, click the text box to the right of the current color to drop down a color palette editor. Use the vertical slider on the right to select the color group, and then the shade from the main window in the center. The selected color is shown on the bottom horizontal bar. Click anywhere on the page to confirm your color for the given element.

Note: If you know the HTML hexadecimal code for your company's colors, you can manually enter this in the text box.

After selecting your colors, a preview will show on the right of the screen as to how the elements will appear in the portal. After confirming the proper colors, click "Save and Deploy" to push the changes to your portal. If you are editing the colors and do not like your changes, click "Reset" to return to your most recently saved color options. You can also click "Restore Default Theme" to return to the Sugar stock colors (border - red, navigation bar - black, primary button - blue).

Layouts

Sugar Portal Editor allows you to manipulate the <u>record view</u> and <u>list view</u> of the modules customers see in the portal. These layouts are configured with stock fields when the portal is initially enabled, but as additional fields are created in <u>Studio</u>, you may want to add them to the portal layouts to mimic other Sugar layouts in Studio.

Record View

The Portal record view will be seen by customers when creating or viewing a case or bug report and when viewing or editing contact information under their user profile.

Note: The Contacts layouts define the portal user's profile layouts.

The editor allows you to drag and drop fields into the layout to add or rearrange the page. Fields can be removed from the layout by dragging and dropping them onto the recycling bin icon. After the layout is configured the way you want customers to see it, click "Save & Deploy" to push the changes to the portal. If you would like to save your work, but not deploy the changes, simply click "Save". For more information on editing the record view layout, please refer to the <u>Studio</u> documentation.

Save Save & Deploy	
Foolbox	Layout
	Record Header 🧭 Display Type 🕧 : Panel 🛊 Collapse?
6	+ picture (filler)
	-Subject
New Row	
(filler)	
	Business Card 🧭 Display Type 🕖 : Panel 🛊 Collapse?
Resolution	Business Card O Display Type : Panel Collapse?
Resolution 🖉	Farler V
Resolution 🖉 Show in Portal 🧭 Source 🧭	Obspray Type Parter
Resolution Show in Portal Source System ID	-Number Original Content of Display Type Original Content
Resolution Show in Portal Source System ID	Obspray Type Parter
Resolution Show in Portal Source System ID	-Number Original Content of Display Type Original Content

List View

The Portal list view will be seen by customers when viewing the list of all bugs, cases, or Knowledge Base articles. The editor allows you to drag and drop fields into the layout's "Default" column and rearrange the order of them. Fields can be removed from the layout by dragging and dropping them to the "Hidden" column. After the layout is set up the way you would like for customers to access it, click "Save & Deploy" which will push the changes to the portal. For more information on editing the list view layout, please refer to the <u>Studio</u> documentation.

Edit Layout				
< 🛍 Sugar Portal E	ditor > Layou	ts > Cases > ListView		
Save & Deploy				
Default		Available	Hidden	
		[Drop Here]	·	
Num.	\checkmark		Date Modified	$\overline{\mathcal{O}}$
[case_number]	8 %		[date_modified]	%
	~			
Subject	0		Modified By Name	
[name]	49 %		[modified_by_name]	%
	0			
Status	 Image: A start of the start of		Created By	
[status]	17 %		[created_by_name]	%
Priority	0		Description	0
[priority]	13 %		[description]	%

Note: Clicking the pencil to the right of any field will allow you to edit the name of the field as it shows on the portal and also the percentage of the list view layout that you would like to take the field to take.

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Workflow Management

Overview

Important Note: New workflow processes should be created using Sugar's Advanced Workflow. The legacy Workflows module described on this page will be deprecated in a future release. Existing workflow definitions should also be re-created in Advanced Workflow. For information on using Advanced Workflow, please refer to the <u>Advanced Workflow</u> documentation.

Sugar's Workflow functionality allows administrators to configure cause -and-effect type actions throughout Sugar and across multiple modules. Workflows can be used to update fields, send emails, or create records when certain conditions are met. Workflows are a great way to configure automated processes within Sugar so that users do not need to remember manual steps and instead can focus on their primary tasks and job responsibilities.

All workflow conditions are reached and checked for once a record is saved. Workflows can be configured to either start their process to perform the job the moment the save occurs, or they can be delayed for a given amount of time.

The following save events can trigger a workflow to fire:

- Manually saving a record
- Mass updating records
- <u>Importing</u> records
- Another workflow updating a record
- Reassigning Records via <u>User Management</u>
- Updating or creating a record via <u>plug-ins</u>
- Updating or creating a record via Sugar mobile applications
- Updating or creating a record via the portal
- Updating or creating a record via the <u>Web Services</u>

Workflows can be viewed and configured by any System Administrator User. In addition, regular users with a role that provides Developer access will be able to access workflows for the module they have the rights to. For more information on Roles, please review the <u>Roles</u> documentation.

Workflow Fields

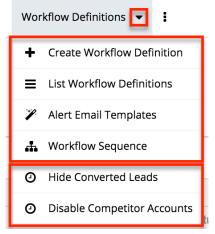
The Workflow module contains seven fields that will retain both functional and organizational purposes in Workflows. These fields cannot be edited or added to because of their functional purposes in the workflow process.

Field	Dropdown Options	Description
Applies To	 New and Updated Records New Records Only Updated Records Only 	Choose if this workflow is going to fire on all saves, when a new record is created, or when an existing record is updated
Description	(Text Area Field, no character limit)	A description of this workflow and its purpose
Execution Occurs	 When record saved After time elapses 	Whether the workflow effects will occur once a record is saved, or if they will be re-checked and occur after a defined amount of time

Name	(Text field, limit of 50 characters)	Identifying name of the workflow
Processing Order	Alerts then ActionsActions then Alerts	If your workflow is going to include both email alerts and workflow actions, select which of the two you would like to happen first
Status	ActiveInactive	When set to Inactive, the workflow will not process
Target Module	(Module List)	A list of all modules in Sugar that are compatible with workflows. Choose which module the primary conditions will be triggered from

Workflow Module Tab

The Workflow Definitions module tab is typically located on the navigation bar at the top your Sugar screen after navigating to Admin > Workflow Management. Click the tab to access the Workflows list view. You may also click the triangle in the Workflow Definitions tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed</u> menu displays the list of workflow definitions you last viewed in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
-----------	-------------

Create Workflow Definition	Opens the edit view layout to create a new workflow
List Workflow Definitions	Opens the list view layout to search and display workflows
<u>Alert Email Templates</u>	Opens the Alert Template menu to allow you to create, view, and edit existing alert email templates
<u>Workflow Sequence</u>	Opens the Workflow Sequence menu to allow you to reorganize the processing order of your workflows for each module

Creating Workflows

Workflows are created by accessing the Admin menu, navigating to the Developer Tools section and then clicking on the link for Workflow Management.

Dropdown Editor Add, delete, or change dropdown lists	the 較 <u>Workflow Management</u>	Manage workflow conditions, alerts and actions
---	----------------------------------	--

Product and Quotes

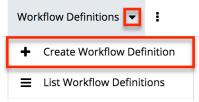
Once on the Workflow Management module, you can create a new workflow or duplicate an existing one. The process of creating workflows contains four main sections. First, the workflow itself must be created. This creation process will include the name of the workflow, as well as the rest of the values for the fields listed in the <u>Workflow Fields</u> section of this documentation. After the workflow has been saved, the next step will be to configure the <u>Workflow Conditions</u>, which defines what will cause the workflow to happen, or its triggers. Finally, the <u>Workflow Alerts</u> and <u>Workflow Actions</u> must be configured. These define what the workflow will do to Sugar records or what emails will be sent out after triggered.

Creating Via Workflow Module

The most common method of workflow creation is via the Create Workflow Definition option in the Workflow Management module. This opens up the edit view layout which allows you to enter in all the relevant information for the workflow.

Use the following steps to create a workflow via the Workflow Management module:

- 1. Navigate to Admin > Workflow Management.
- 2. Click the triangle in the Workflow Definitions tab to open the Actions menu and select "Create Workflow Definition".



- 3. Enter appropriate values for the <u>fields</u> in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.
- 4. Once the necessary information is entered, click "Save". Create

Sav	ve Cancel	
1	Name: *	Converted Account from Lead
1	Execution Occurs: *	When record saved _

- 5. Define the conditions of the workflow that will trigger the workflow to process as described in <u>Creating Workflow Conditions</u>.
- 6. Define what will happen when the workflow is processed as described in <u>Creating Workflow Alerts</u> and <u>Creating Workflow Actions</u>.

Creating Via Duplication

You can also create a new workflow definition by duplicating an existing workflow record. The duplicate option is useful if the workflow you are creating has similar information, conditions, and alerts and actions to an existing workflow as all of these are copied over during the duplication process.

Use the following steps to create a workflow definition by duplicating an existing record:

- 1. Navigate to a workflow definition's detail view.
- 2. Click the Actions menu and select "Copy".

Lead Converted to Contact

Edit 🔻	1	
Copy Delete	Name:	Lead Converted to Contact
Delete	Execution Occurs:	When record saved

3. The displayed edit view is pre-populated with the original workflows values. Update the necessary fields then click "Save".

Create

Save	Cancel	
Name	ə: *	Converted Account from Lead
Exec	ution Occurs: *	When record saved 💌

Creating Workflow Conditions

Workflow conditions are an essential function when creating workflows. Workflow Conditions define the "cause" side of workflow's cause and effect type functionality. At least one condition must exist for a workflow to trigger. If more than one conditions exist, they all must be fulfilled for the workflow to trigger.

Use the following steps to create a workflow condition:

- 1. Navigate to the detail view of the workflow.
- 2. Click "Create" on the Conditions subpanel to open a popup box with the different condition possibilities.

When these conditions are met:
Conditions
Create
Description:

- 3. Follow the prompts in the popup to create the different conditions, as described below. Once complete, click "Save" and the condition will be added to your workflow definition.
- 4. Repeat this process as necessary to add additional conditions.
- 5. After the condition has been created, it will appear in the <u>conditions</u> <u>subpanel</u>.

Note: The available conditions will vary depending on the execution type ("When record saved" or "After time elapses") you have chosen for the workflow.

Creating "After Time Elapsed" Workflow Conditions

Before creating workflows with time-elapsed conditions, please take note of the following:

- The system's Process Workflow Tasks scheduler must be enabled and running as often as possible for time-elapsed workflows to work. For more information, please refer to the <u>Schedulers</u> documentation.
- When a time-elapsed condition is used on a workflow definition, the Date Modified and Modified By fields will change on the records affected by the workflow's action(s). The Modified By user will be the admin user with ID = 1 (usually "Administrator") and the Date Modified will reflect the date and time that the action occurred in the system.
- The time intervals (e.g. 0 hours, 4 hours) available when setting up timeelapsed conditions can be configured via Admin > Dropdown Editor. For more information on configuring the time intervals, please refer to the <u>Developer Tools</u> documentation.

The "After time elapsed" workflow condition options are different for the first condition and subsequent conditions. This is to ensure that your time-based condition is recorded. After that, you can set additional conditions to filter the records from which the workflows will fire.

When used as the first condition of a workflow, the "After time elapsed" options are as follows:

- When a field in the target module changes to or from a specified value : You will be asked to specify a specific field within the module, and its value. Then, you will select the amount of time after the change that, after this threshold, the workflow will fire.
- Field does not change for a specified amount of time : You will be asked to specify a specific field within the module and a timeframe. After the field changes, if it does not change again in the given timeframe, the workflow will fire.

When used as subsequent conditions of a workflow, the "After time elapsed" options are the two mentioned above as well as two additional options:

• When a field in the target module contains a specified value : This condition is used to filter records that should or should not be included in the workflow. You will be asked to specify a field and the value of the field, and if you want to include records where the field is a specific value, or if it

is not a specific value. These conditions will vary by which field is chosen.

• When the target module changes and a field in a related module contains a specified value : This condition is used to filter records based on their related records. You will be asked to specify which relationship you would like to the workflow to look at, and which field and value should or should not be used when triggering the workflow.

Creating "When Record Saves" Workflow Conditions

The "When record saves" workflow condition options are as follows:

- When a field in the target module changes to or from a specified value : This option can be used to specify both the new value of a specific field to trigger a workflow, and also what the previous value was. You will be asked to specify the specific field and the new value after save to use this condition. The previous value is not required.
- When the target module changes : This option will cause the workflow to trigger when any change to the record takes place.
- When a field on the target module changes : This option will cause the workflow to trigger when there is any change to a specific field, regardless of what the change is.
- When a field in the target module contains a specified value : This condition is used to filter records that should or should not be included in the workflow. You will be asked to specify a field and the value of the field, and if you want to include records where the field is a specific value, or if it is not a specific value. These conditions will vary by which field is chosen.
- When the target module changes and a field in a related module contains a specified value : This condition is used to filter records based on their related records. You will be asked to specify which relationship you would like to the workflow to look at, and which field and value should or should not be used when triggering the workflow.

Creating Workflow Alerts

Workflow alerts are one of the possible effects of workflow's cause and effect type functionality. These can be used with or without <u>workflow actions</u>. Workflow alerts, when triggered by the workflow condition, will cause an email to be sent to a specified recipient. These recipients include Sugar users or individuals related to the target module. To create a workflow alert, follow the following steps:

- 1. Navigate to the detail view of the workflow.
- 2. Click "Create" on the Alerts subpanel, which will bring you to the alert setup page.

These operations will be performed:

Alerts

Create	•	
Details	Туре:	Event Description

3. You will be presented with the following fields to populate.

Field	Description
Name	Choose a brief, descriptive name for this alert.
Alert Type	Defaults to "Email", which is the most common usage, but you can choose "Invite" if the alert is going to send an invitation for appointment-based modules.
Source Type	Choose "Normal message" to type a plain-text email message in the Alert Text field, or choose "Custom Template" to select and use a <u>Workflow Alert Template</u> .
Alert Text	Enter text that will be sent to the alert's recipients as a simple email message without formatting or variables.
	Note: This field is shown only when the Source Type field contains "Normal message".
Custom Template	Select from your available <u>Workflow</u> <u>Alert Templates</u> for this alert's target module.
	Note: This field is shown only when the Source Type field contains "Custom Template".

4. Enter necessary values for all fields and click Save.

Save	Cancel		* Indica
Name: *	New Customer Alert Email		
Alert Type:	Email \$	Source Type:	Custom Template \$
Custom Template	New Account Template		

5. On the next screen, click "Create" on the "Alert Recipient List" subpanel to choose your recipients.

New Customer Alert Email

Edit Delete	
Name:	New (
Alert Type:	Email
Alert Recipient List	

Create Alert Recipients:

Note: The only options that will send to someone other than a Sugar user are "Recipient associated with the target module" and "Recipient associated with a related module".

6. Pick the recipients, select any blue hyperlink text to define any variables, such as who a specified user is, or if the recipient should be sent the email as a "To", "CC", or "BCC" recipient, and then click "Save" to continue.

Edit Delete	0	User who create	Please Select	User's Manager √ User	Save	Cancel
	0	User who last n				
	\odot	User who is as				
	0	User who has as	signed the record	i	-	
Alert Recipient List Create Alert Recipients:		en ssociated with who is assigned t	0			
			S	ave Cancel		

- 7. Repeat steps 5 and 6 as need be to add additional recipients for this workflow alert.
- 8. Click the hyperlink for "Send alert to the following recipient" to make any changes, remove any errant recipients with the "Remove" button on the corresponding row, or the "Edit" button on the top left if you need to

change any configurations. Once complete, click "Return to Workflow Definition".

New Customer Alert Email

Edit	Delete		Retu	rn to Workflow Definition
	Name:	New Customer Alert Email	Source Type:	Custom Template
	Alert Type:	Email		
Alert Recipient List				
Create				
Alert Recip	pients:			
Send alert to the following recipient: A user associated with the target module emove				

9. After the alert has been created, it will appear in the <u>Alert Subpanels</u>.

Creating Workflow Actions

Workflow actions are one of the possible effects of workflow's cause and effect type functionality. These can be used with or without <u>Workflow Alerts</u>. Workflow actions, when triggered by the workflow condition, will cause either updates to existing records or creation of new records. To create a workflow action, follow the following steps:

- 1. Navigate to the detail view of the workflow that you are working on
- 2. Click "Create" on the Actions subpanel to open a popup box with the different action possibilities

Actions		
Create	•	
Details 1	Гуре:	Event Description:

- 3. Follow the prompts in the popup to create the different actions, as described in <u>Workflow Actions</u>. Once complete, click "Save" and the action will be added to your workflow definition.
- 4. Repeat this process as necessary to add additional actions.
- 5. After that action has been created, it will appear in the <u>Actions Subpanel</u>.

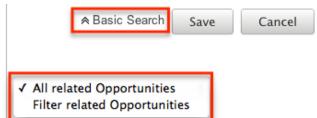
Workflow Action Types

There are four options for actions that are available. These options can make updates to the module your workflow is tied to, or a module related to this target module. The options can also create records in related modules or modules related to related modules. The options are as follows:

- **Update fields in the target module :** You will be given the option so select one or more fields within the target module of the workflow, and what the new value or values should be.
- **Update fields in a related module :** You will first be given the option to choose which related module to the target module you would like to update. After selecting the related module, you will select one or more fields within the related module to update, and what the new value or values should be.
- **Create a record in a module associated with target module :** You will be given the option to choose a related module to your target module. This action will create a new record in the related module, such as creating a new call related to an account, where Accounts is the target module. After selecting the module, you will be given the option to populate any or all fields with the related module. Any required fields will be marked with a red asterisk.
- Create a record associated with a module related to the target module : This action will take a record, or all records, related to your target module, and create a related record to this middle module. When creating these actions, you are asked to select the related module to your target module, and then select that module's related module where the new record is going to be created. For example, if your workflow's target module is Contacts, the following screenshot shows how a call will be created and related to the contact's related Opportunity.

\bigcirc	Update f	ields ir	the targe	et mod	ule	
\odot	Update fields in a related module					
0	 Create a record in a module associated with target module 					
۲			associat to the tar			
Create a new record						
00	0	Sug	garCRM			HL a
1.001	ated dule:		Oppor	tunity		¢
Mo	ated dule's dule:	Call				¢
			Save	Ca	ancel	

On the next screen, after selecting your modules, you will select one or more fields within the related module to update, and what the new value or values should be. Clicking on the "Advanced Search" button at the bottom of this window will allow you to select if the workflow is specific for all related records (Opportunities), or if the related record should be filtered at all.



The "Advanced Search" function also contains special functions for specific field types:

- **Assigned User :** Allows you to configure the action to set the assigned user to be either the actual user or the user's manager who either is currently assigned to the triggered record, the one who most recently updated it, the one who created it, or is the one saving the record.
- **Team ID** : Allows you to configure the action to set the team to be the default team of the user who triggered the workflow or, if it is

updating a related record, to match the primary team of the triggered record.

• **Dropdown Fields :** Allows you to configure the action to sequentially move the dropdown option forward or backward in the order in which it appears in the dropdown list.

Viewing Workflows

There are various options available for viewing workflow records in Sugar including via Workflow Definitions list view, Workflow Definitions detail view, and the Workflow Definitions Last Viewed menu. Each method will provide varying degrees of detail and insight into the workflow.

Viewing Via List View

The Workflow Definitions list view displays all records meeting the current search criteria. To access the list view, simply click the Workflow Definitions module tab, which is made available by navigating to Admin > Workflow Management. While list view shows key workflow fields, you can click the workflow definition's name to open the record in detail view. For more information on viewing workflows via list view, please refer to the <u>Workflows List View</u> section of this documentation.

Viewing Via Detail View

The Workflow Definitions detail view displays thorough workflow information including all workflow fields followed by subpanels showing the Conditions, Alerts, and Actions that process the workflow. The detail view can be reached by clicking a workflow definition's link from the Workflow Definitions list view. For more information on viewing workflows via detail view, please refer to the <u>Workflow</u> <u>Detail View</u> section of this documentation.

Viewing Via Recently Viewed

As you work, Sugar will keep track of which workflows you have recently viewed. Click the Actions menu in the <u>Workflow Definitions module tab</u> to see a list of your most recently viewed workflows and click each name to open the workflow definition in detail view.

Wor	kflow Definitions 🔽 🚦
+	Create Workflow Definition
=	List Workflow Definitions
1	Alert Email Templates
ж	Workflow Sequence
Ø	Hide Converted Leads
0	Disable Competitor Accounts

Searching Workflows

The Workflow Definitions list view includes a Basic and Advanced Search to help you locate records easily and effectively. Once the search is performed, the relevant results will be displayed in the Workflows list view below. Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %created). This will pull up any workflow that has the word "created" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used in the different methods, please refer to the <u>Search</u> documentation.

Basic Search

Basic search offers a simplified search experience allowing you to search for just the name of the workflow. From the Basic Search panel, you can click "Advanced Search" to access additional search functionality as needed.

The buttons and checkboxes available in Basic Search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear criteria from the Name field.

Workflow Definitions

Name	Search	Clear	Advanced Search
------	--------	-------	-----------------

When you run a search, Sugar will return records matching all (as opposed to any) of the fields for which you have given a value. Once the search is complete, the relevant results will populate in the <u>list view</u> beneath the search panel. To see all workflow definitions, simply click "Clear" and then "Search" to perform a blank search with no filters.

Advanced Search

Advanced Search offers a more in-depth search experience than Basic Search including additional fields, layout options, and saved search capability. From the Advanced search panel, you can click "Basic Search" for simplified searching.

The buttons and dropdowns available in Advanced Search have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.
- **Layout Options** : Use the expandable Layout Options section to configure your list view. For more information, please refer to the <u>Layout Options</u> section of the Search documentation.
- **Saved Searches** : Save, recall, update, and delete searches which you use often. For more information, please refer to the <u>Saved Search</u> section of the Search documentation.

Name	Target Module	Accounts Bug Tracker Calls Campaigns Cases Contacts				
	Save search as:		Save	Modify current search:	Update	Delete
Search Clear	Basic Search Saved Sea	rches -none-	¢			

When you run a search, Sugar will return records matching all (as opposed to any) of the fields for which you have given a value. For example, if you select the Target Module as "Accounts" or "Contacts" and enter in the word "Created" for the Name search, Sugar will only return workflow definitions with a matching name from the

Accounts or Contacts modules. Once the search completes, the relevant results will populate in the <u>list view</u> beneath the search panel. To see all workflow definitions, simply click "Clear" and then "Search" to perform a blank search with no filters.

Workflows List View

The Workflows list view displays all workflow definitions meeting the current search criteria. You can view the basic details of each workflow within the field columns. The list view also allows for records to be edited or deleted as need be.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

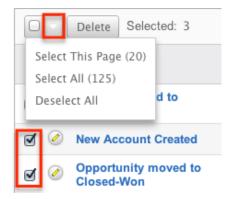
By default, Sugar displays 20 records per list view page, but the number of records displayed can be changed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation.

Name	Search	Clear	Advanced Search	?
Delete 💌			(I< <) (1 - 20 of 125))))

Checkbox Selection

You can delete workflow definitions directly from the list view by first selecting the desired records. To select individual workflows on the Workflow Definitions list view, mark the checkbox on the left of each row. To select or deselect multiple workflow definitions on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of workflow results.
- **Select All** : Selects all records in the current search results across all pages of workflow results.
- **Deselect All** : Deselects all records that are currently selected.



Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time. You can also set a default order-by column using the layout options in Advanced Search. For more information on setting a default column sort, please refer to the Layout Options section of the Search documentation.

Name 🗢	Execution Occurs 👙	Status ≑	Target Module
New Account Created	When record saved	Active	Accounts

Workflow Detail View

The Workflow Definition detail view displays thorough workflow information including all workflow fields. You will also see the Conditions, Alerts, and Actionssubpanels beneath the workflow fields. The detail view can be reached by clicking a workflow record's link from the Workflow Definitions list view or from the recently viewed menu.

Actions Menu

The Actions menu on the top left of each workflow definition's detail view allows you to perform various actions on the current record. The action items can be configured to be displayed as separate buttons instead of a dropdown menu via Admin > System Settings. For more information on configuring the actions menu, please refer to the <u>System</u> documentation in the Administration guide.

New Account Created

Edit 🔽		
Copy Delete		
	Name:	New.

The Options in the Actions menu allow you to perform the following operations:

Menu Item	Description	
Edit	Edit this workflow definition	
Сору	Duplicate this workflow definition	
Delete	Delete this workflow definition	

Next or Previous Record

On the upper right of the Workflow Definitions detail view, there are four buttons that allow you to page through each workflow in the Workflow Definition list view's current search results. Clicking the Previous button displays the previous workflow of the current search results while clicking the Next button displays the next workflow of the current search results. The two double-arrow First Page and Last Page buttons allow you to skip to the first or the last workflow of your current results. The text in between shows which workflow result you are currently viewing within the total number of current results.

New Account Created

Edit 🔻		
		(2 of 125) (>))
Name:	New Account Created	

Conditions Subpanel

The Workflow Conditions subpanel allows you to create additional conditions for your workflow and also lets you view and modify the existing ones. The subpanel shows a Description and a Value for each condition. The Description is an automatically generated, brief explanation of the condition. The Value shows what field or fields are covered in the condition, if not expressly stated in the description. The Conditions subpanel allows the following operations to be performed.

- To view the details or edit a condition, either click the condition's description in the subpanel or click the edit button to from the far right of the record's row to open the condition popup.
- To create a new workflow condition, choose "Create" from above the subpanel, then follow the steps supplied in the <u>Creating Workflow</u> <u>Conditions</u> section of this documentation.
- To delete a condition on this workflow, choose "Remove" from the far right of the record's row.

Create		
Description:	Value:	
When the target module changes	any field	🖉 edit 😑 remove
When a field in the target module contains a specified value	Industry: Equals Technology	🖉 edit 🖻 remove

Alert Subpanels

Conditions

The Workflow Alert subpanel allows you to create additional alerts for your workflow and also lets you view and modify the existing ones. The subpanel displays the "Detail"s, "Type", and "Event Description" for each condition. After an alert has been created, there is also a column for Recipients. The "Event Description" is automatically generated and provides a brief explanation of the alert with the name of the Alert record and what template (if applicable) is being sent to the recipients. The Alerts subpanel allows the following operations to be performed.

- To view or edit an alert, either click the alert's event description or click "Edit" on the far right of the row to open the alert's edit view.
- To view the recipients of the alert, click "Show" from the far left of the record's row. Click "Hide" to collapse the drawer highlighting the recipients
- To edit or add recipients of the workflow alert, click "Recipients". This button will also open the alert's detail view.
- To create a new workflow alert, choose "Create" from above the subpanel, then follow the steps supplied in the <u>Creating Workflow Alerts</u> section of this documentation.
- To delete an alert on this workflow, choose "Remove" from the far right of the record's row.

Alerts		
Create		
Details Type:	Event Description:	
	Send New Account Created using a Custom Template: New Account Template	edit eremove
A specified user Administrator		

Actions Subpanel

The Workflow Actions subpanel allows you to create additional actions for your workflow and also lets you view and modify the existing ones. The subpanel shows a Details, Type and an Event Description for each condition. The Event Description is an automatically generated, brief explanation of the action that will be performed by the workflow. The Conditions subpanel allows the following operations to be performed.

- To view the details or edit a condition, either click the condition's description in the subpanel or click the edit button to from the far right of the record's row to open the condition popup.
- To view the actions that will be performed, click "Show" from the far left of the record's row. Click "Hide" to collapse the drawer highlighting the actions.
- To create a new workflow action, choose "Create" from above the subpanel, then follow the steps supplied in the <u>Creating Workflow Actions</u> section of this documentation.
- To delete an action on this workflow, choose "Remove" from the far right of the record's row.

Create 🔻			
Details Type:	Event Description:		
Actions	Update fields in the target module	🧭 edit	⊖ _{remove}
 Set account_type as Customer 			

Editing Workflows

...

Workflows may be edited at any time to update or add information to the definition. You can make changes to existing workflow definitions via the

Workflows edit view. Edit view is available within the Workflows module and includes all of the Workflow fields. It can be accessed either via the detail view or list view. Please note that Conditions, Alerts, and Actions are not edited through the Workflow edit view.

Note: After a workflow has been created, the fields "Execution Occurs" and "Target Module" cannot be edited

Editing Via Detail View

You can edit workflows via the <u>detail view</u> by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve the changes made.

New Account Created

Edit	•		
		Name:	New Account Created

Editing Via List View

You can edit workflows via the <u>list view</u> by clicking the Pencil icon to the left of each workflow's name. The page will navigate to the edit view. Update the necessary fields, then click "Save" to preserve the changes. After saving, you will be brought to the detail view of the workflow.

Name 🗢	Execution Occurs \Leftrightarrow	Status 🗦	Target Module 🗦
New Account Created	When record saved	Active	Accounts

Deleting Workflows

If a workflow definition is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from either the Workflow Definitions detail view or list view. Deleting via the detail view allows you to delete a single record while the list view allows for mass deleting multiple records at once. Deleting the workflow definition will also remove the conditions, actions, and alerts to stop workflows from firing.

Deleting Via Detail View

Use the following steps to delete a workflow via the detail view:

- 1. Navigate to a workflow definition's detail view.
- 2. Select "Delete" from the Actions menu. New Account Created

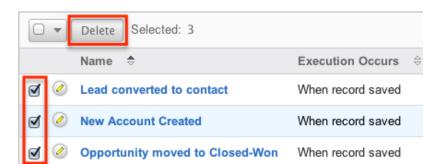
Edit 💌		
Copy Delete		
	Name:	New

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Mass Deleting Via List View

Use the following steps to delete one or more workflows via the list view:

- 1. Navigate to the Workflow Definitions list view via Admin > Workflow Management.
- 2. Use the <u>Basic</u>or <u>Advanced Search</u>to find the Workflow Definitions you wish to delete.
- 3. Select the desired records individually or using the <u>checkbox dropdown's</u> options.
- 4. Choose "Delete" from the Actions menu.



5. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Due to PHP memory limitations on the server, there may be occasions when the application times out while deleting a large number of workflow definitions. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Workflow Alert Templates

When sending a workflow alert, you have the option of sending either a "Normal Message" which will be just a simple, plain text alert, or utilizing a workflow template. Templates have the option to use full HTML editing, to include formatting changes, colors, variables to include data from fields in Sugar, and more.

Alert Template Fields

The Workflow Templates functionality contains several fields that will retain both functional and organizational purposes in Workflows. These fields cannot be edited or added to because of their functional purposes in the workflow process.

Field	Description
Body	This is where you can design your email template using the WYSIWYG (What you See Is What You Get) editor. Click the "Alt Text" checkbox to edit the plain text version of this email. The entry into this box is what will actually be sent to the recipients of the email.
Description	A short explanation of the template and what it is used for.
Field List	Used to select which field from the given module will be inserting into the Variable Insert field to eventually be inserted into the template, which can be changed by updating the Related Module dropdown field.
From Address	What sender's email address will be shown on the email when received by the recipient.
	Note: Mail servers have the functionality to override this setting meaning the email address will show as the one that actually sends this, defined in Admin > System Email Settings. Please review the <u>Emails</u> documentation for more information.
From Name	What sender's name will be shown on

	the email when received by the recipient.
Name	Identifying name of the template.
Related Module	List of modules related to the Target Module, which will change the Field List and, therefore, change the fields that can be used for variables in the email.
Subject	The subject line of the email which will show for the recipients.
Target Module	Selected when creating the template and a non-editable field, this will cause the template show when using the template for workflows made to the corresponding module.
Туре	Will only show as workflow, but will vary when making other template types to include Email and Campaign.
Value Type	Select "New Value" or "Old Value" if the variable will be changing on the workflow to determine if the variable should include the value of the field before or after the record is saved.
Variable Insert	This field will build the variable for you based on the Target Module, Related Module, Field List, and Value Type fields.

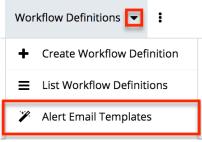
Creating Alert Templates

Alert Templates are created only via the Workflow module. Alert templates can be created either directly from the workflows module via the Alert Templates page, or via duplication. The Target Module is defined during the creation process, and then a full edit view layout opens including all fields that will be necessary to create the template.

Creating Alert Templates Via Workflows Module

The most common method of template creation is via the Alert Email Templates option in the Workflow Definitions module tab. This will open the edit view layout allowing you to configure the template to your specifications. Use the following steps to create the template via Workflow Management:

- 1. Navigate to Admin > Workflow Management.
- 2. Click the triangle in the Workflow Definitions tab and select "Alert Email Templates".



3. Select the module you wish to create the alert template for then click "Create".

Alert Templates

	Accounts	Create
	Bug Tracker	
	Calls	
Al	Campaigns	
	Cases	
	Contacts	
-	Contracts	

- 4. Enter appropriate values for the following fields below. Required fields are marked with a red asterisk and must be completed prior to saving.
 - **Name** : Enter a name for the email template.
 - **Type** : Leave as "Workflow".
 - **From Name** : The name that the email recipient will see as the sender.
 - $\circ~$ From~Address : The email address that the email recipient will see as the sender.

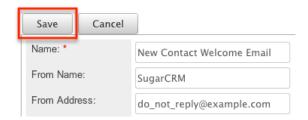
Note: This may be overwritten by your mail server configured in Admin > System <u>Email Settings</u>.

- **Description** : Enter a description or other information about the template.
- **Related Module** : To insert a field from a record related to the target module, select the related module.
- **Subject** : Enter the subject of the email that will be sent.
- **Body** : Enter the body of the emails that will be sent.
- **Attachments** : Click the "Choose File" button to open a file selection window from your browser and attach a file. Click the Sugar Document button to attach a file from the sugar database.
- 5. Populate the template body that will be sent to the email recipients. <u>Insert</u> <u>variables</u> as necessary for your workflows.
- 6. Using the TinyMCE functions, add simple formatting to your email's content. For more advanced customization you can click the HTML button

in the top left to access and edit the generated HTML code. For more information on using TinyMCE, please refer to the <u>User Interface</u> documentation.

Note: If images or advanced CSS are required in your email template, it is highly recommended to host the images or CSS file on a publicly available hosting service and link to it in the email template.

7. Once the necessary information is entered, click "Save" to preserve your changes to the email template.



Creating Alert Templates Via Duplication

You can also create a new template by duplicating an existing template. The duplicate option is useful if the template you are creating has similar information to an existing template.

Use the following steps to create a template by duplicating an existing template:

- 1. Navigate to an existing template's detail view.
- 2. Click the action option for "Copy".

New Contact Welcome Message



3. The displayed edit view is pre-populated with the original template's values. Update the necessary fields then click "Save".

New Contact Welcome Email

Save	Cancel	
Name: *		New Contact Welcome Email 2
From Nam	ie:	SugarCRM
From Add	ress:	do_not_reply@example.com

Inserting Variables

When constructing the subject and body of your email, Sugar allows you to insert variables, or placeholders, into the template that will be populated with the record's information for that variable. The variables allow you to insert data from fields within the record that triggered the workflow and its related records into your template. Use the following steps to insert a variable for the recipient's first name into the template:

1. Click to place your cursor on the location in the subject or body where the recipient's first name should appear.



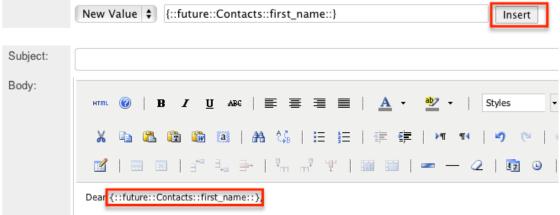
2. Set the variable dropdown to the desired field from the workflow's target module. For our example, select "First Name".

	Target Module: Contacts	
	✓ Link to Record	
	Date Created Date Modified	
	Madifierd Du	
	Modified By Mame cts::href_link::}	
	Created By	
Subject:	Created By	
	Description	
Body:	Assigned User	
	Assigned to	≣
	Team	_
	Salutation	_
	First Name	=
	Last Name	
	Name	
	Title	

3. Choose between "New Value" and "Old Value" in the value dropdown field.

This will determine if the value of the given variable shown on the template will be the value of the field in question before or after the workflow fired. This functionality is especially helpful if you are showing a change between two values, such as an opportunity moving from new ("Old Value") to closedwon ("New Value"). "New Value" is the default option for this list.

4. Click "Insert" to insert the generated variable name to your subject or body at your cursor's location.



Note: You can click "Alt Text" at the bottom of the page to have the plain text option send differently than the HTML text.

Viewing Alert Templates

There are various options available for viewing workflow templates in Sugar including via Workflow Templates list view, Workflow Templates detail view, and from the Emails module.

Viewing Alert Templates Via List View

The Workflow Templates list view displays all workflow templates and key fields about each template. To access the list view, simply navigate to the Workflow Management section of the Admin menu and select "Alert Email Templates" from the Workflow Definitions module tab. Use the Alert Templates list view for the following functions:

- To open the record in detail view, click the template's name
- To re-sort the list view results one column at a time, click the column header, and the columns will sort alphabetically or chronologically
- Use the arrows in the top right side of the list view navigate through the pages of your templates, or skip to the first or last page using the double arrow buttons
- To delete a template, click "Remove" from the far right of the

corresponding template's row

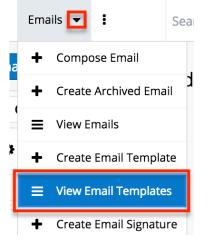
Viewing Alert Templates Via Detail View

The Alert Templates detail view displays thorough alert template information including all template fields and a preview of the workflow template that recipients will see after it is sent. The detail view can be reached by clicking a template's link from the Alert Templates list view.

While viewing the detail view, the preview of the email template is shown as the last field option. You can also click the "Alt Text" checkbox to see how this email will look when the recipient views it as plain text.

Viewing Alert Templates Via Emails Module

The Emails module contains all of the email templates in Sugar. Alert Templates can be accessed via Emails, in addition to accessing via Workflow Management. To access alert templates via Emails, simply select the View Email Templates option from the <u>Emails</u> module tab.



This will bring you to the <u>Email Templates list view</u> where you can select which template you would like to view. For more information on navigating the Emails module, please review the <u>Emails</u> module section of the Application Guide.

Editing Alert Templates

Alert Templates may be edited at any time to update or add information to the template. You can make changes to existing templates via the Alert Templates edit view. Edit view is accessible via the Alert Templates detail view. You can edit alert templates via the <u>detail view</u> by clicking the Edit button on the upper left of the

page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve the changes made.

New Contact Welcome Message

Edit	Сору	Delete
	Name	New Contact Welcome Message

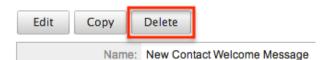
Deleting Alert Templates

If an alert template is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from either the Alert Templates detail view or list view. Deleting alert templates will not delete any workflows using them. If a workflow is utilizing a template which you are deleting, it is recommended that the workflow be updated to include a new template on the alert.

To delete a template from the template's detail use the following steps:

- 1. Navigate to the Alert Templates detail view.
- 2. Click the Delete button.

New Contact Welcome Message



3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

To delete a template from the list view, use the following steps:

- 1. Navigate to the Alert Templates list view.
- 2. Select the "Remove" button on the row of the template you would like to delete.

Name ⇔	Base Module: \Leftrightarrow	Description \Leftrightarrow	Last Modified \doteqdot	
New contact welcome email	Contacts	Use this template for the new contact workflow	03/20/2013	⊖ _{remove}

3. A pop-up message will display asking for confirmation. Click "Ok" to proceed.

Time Intervals for Time Elapsed Workflows

Time elapsed workflows trigger after a specified amount of time has passed from when the record was saved. Users with administrator or developer access have the ability to add new time intervals to the dropdown list ("tselect_type_dom") used for time elapsed workflows. The time interval dropdown list can be viewed and edited via Admin > Dropdown Editor. For more information on Dropdown Editor, please refer to the <u>Developer Tools</u> documentation.

By default, the time intervals are:

4 days5 days1 week2 weeks5 weeks		
0 hours	3 days	30 days
4 hours	60 days	
8 hours	90 days	
12 hours	120 days	
1 day	150 days	
2 days	180 days	

4 days5 days1 week2 weeks3 weeks

The following steps cover adding a 1 hour time interval to the dropdown list via Dropdown Editor as an example:

- 1. Navigate to Admin > Dropdown Editor.
- 2. Locate the tselect_type_dom dropdown list and click to view the details.



- 3. Enter in an item name (e.g. 3600) and display label (e.g. 1 hours) into the corresponding fields below the existing item list.
 - Please note that the Item Name field must be in seconds equaling to the hours, days, weeks you wish to add.

	7776000 [90 days]			0	$\overline{}$
	10368000 [120 days]			0	$\overline{}$
	12960000 [150 days]			0	$\overline{}$
	15552000 [180 days]			\checkmark	$\overline{}$
Item Name	:	Display Label:			
3600		1 hours			
Add			-		

- 4. Click "Add" to add the new value to the dropdown list.
 - **Note**: The value will be added to the end of the list, but you can drag and drop the item to the top of the list if you wish. For more information on how to reorder and position values in the dropdown list, please refer to the <u>Developer Tools</u> documentation.

Dropdown Editor		Edit Dr	ropdown ×	
Save	Undo	Redo	Cancel	
Name: tsele	ect_type_do	om		
Language:	English (US)		•	
List Items:	list Items:			
Item Name	ame[Display Label]			
	0 [0 hours]			
	3600[1 hours]			
	14440 [4 hours]			

5. Once the item has been added and placed in the correct position, click "Save" to preserve the change.

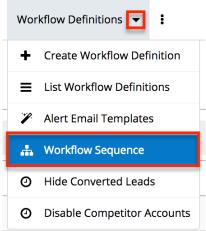
The newly added time interval will now appear in the corresponding dropdown list when creating the condition for a time elapsed workflow.

Workflow Sequence

When a record is saved within a module, Sugar will check all workflows for that module to see if they need to process and perform any actions or send any alerts. Sugar processes each of the workflows in a sequential order, one after another. By default this order is determined as the order in which the workflow definitions were created; the oldest workflow fires first, moving up to the newest. This order, however, can be reorganized using the Workflow Sequence menu.

Workflow Sequence can be accessed through the following process:

- 1. Navigate to Admin > Workflow Management.
- 2. On the Workflow Definitions module tab, select "Workflow Sequence".



3. Select the module you would like to reorganize from the dropdown menu and click "Select".

Workflow Sequence



This process will produce a list view with all of the workflows for the particular selected module. The list view will show three columns containing details from the <u>workflow fields</u>, as well as a fourth column for "Process Order".

Workflow Sequence: Accounts

			(1 - 4 of 4) > >
Name 😄	Execution Occurs: 🜩	Status ⇔	Process Order: ⇔
New Account Created	When record saved	Active	ît up ↓ dn

The Process Order column is used to reorganize the workflows into their correct processing order. The Up button will move the workflow up one rung in the process, whereas the Dn button will lower it in the sequence. The order of the workflow process for this module is determined on this menu, starting at the top and working its way down.

Last Modified: 2018-11-30 21:57:35

Products and Quotes

Overview

The Products and Quotes section of the Admin panel enables you to define products and product details which are used in the <u>Quoted Line Items</u>, <u>Quotes</u>, and <u>Revenue Line Items</u> modules. The Products and Quotes panel provides access to the following administrative modules:

Module	Description
Product Catalog	List of products sold by your organization; used as a template for the <u>Quoted Line Items</u> and <u>Revenue Line</u> <u>Items</u> modules
Product Categories	The categories by which products are organized in the <u>Product Catalog</u>
Product Types	The Type dropdown list in the <u>Product</u> <u>Catalog</u>
<u>Manufacturers</u>	The Manufacturer Name dropdown list in the <u>Product Catalog</u>
Shipping Providers	The Shipping Provider dropdown list in Quotes
Tax Rates	The Tax Rate dropdown list in <u>Quotes</u>

This documentation will cover information and actions specific to the above module. For instructions concerning views and actions which are common across most Sugar modules, such as creating, editing, and deleting records, please refer to the <u>Working With Records</u> section of this page.

Please note that only administrators or users with developer-level role access have the ability to control the configurations within this documentation.

Working With Products- and Quotes-Related Modules

The Product Catalog and Product Categories modules use Sugar's Sidecar user interface. The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this table describe behaviors and functionality specific to the Products- and Quotes-related modules.

Content Link	Description

<u>Creating Records</u> <u>Basic Record Creation</u> <u>Creating Via Subpanels</u> <u>Creating Via Duplication</u> <u>Importing Records</u>	The Creating Records section covers the various methods of creating new records, including via the Create button in the module, via the subpanel on related module records, duplication of an existing record, and importing a list of records into Sugar using a .csv spreadsheet.
<u>Viewing Records</u> <u>Viewing Via List View</u> <u>Viewing Via Record View</u> <u>Viewing Via Recently Viewed</u> <u>Viewing Via Preview</u> <u>Viewing Via Reports</u>	The Viewing Records section describes the various methods of viewing records, including via the list view and record view, the Recently Viewed menu in the module tab, previewing records in the right-hand side panel, and reports displaying the record's data.
<u>Searching for Records</u> <u>Global Search</u> <u>List View Search</u> <u>Creating a Filter</u> <u>Saving a Filter</u>	The Searching for Records section provides an introduction to the two searching methods for locating Sugar records: global search, which searches across all Sugar modules, and list view search, which searches and filters within the module.
List View Total Record Count Create Button List View Search Checkbox Selection Mass Actions Menu Column Reordering Column Resizing Column Sorting Column Sorting Column Selection Preview Record Actions Menu More Records Dashboards	The List View section walks through the many elements of the List View layout, which contains a filterable list of all records in the current module. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the list view are described in the List View Mass Actions Menu and List View Record Actions Menu sections of the module overviews below.
Record View Next or Previous Record Actions Menu Show More Dashboards	The Record View section walks through the many elements of the Record View layout, which contains detailed information about a single record. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the record view are

	described in the Record View Actions Menu sections of the module overview sections below.
Editing Records Editing Inline Via Record View Editing Via Record View Editing Inline Via Subpanels Editing Inline Via List View Mass Editing Via List View Editing Fields	The Editing Records section describes the various methods of editing existing records, including inline via the record view, in full edit mode on the record view, inline via the subpanel on related module records, inline via the list view, and via the Mass Update option on the list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records.
<u>Deleting Records</u> <u>Deleting Via Record View</u> <u>Deleting Via List View</u> <u>Mass Deleting Via List View</u>	The Deleting Records section describes the various methods of deleting unwanted records, including via the record view, an individual record's Actions menu on the list view, and the Mass Actions menu on the list view.
Exporting Records	The Exporting Records section provides an introduction to the export functionality, which allows you to download a list of records and all their data as a .csv file for use outside of Sugar (e.g. in Microsoft Excel).
Recalculating Calculated Values	The Recalculating Calculated Values section provides instructions on utilizing the Recalculate Values list view option to update calculated field values in the module if the administrator has changed the field's formula via Admin > Studio.
Finding Duplicate Records	The Finding Duplicate Records section provides instructions for locating duplicate records. If searching on matching fields (e.g. Name) identifies one or more duplicates, they can be merged into a single record.
<u>Merging Records</u> <u>Merging Via List View</u>	The Merging Records section provides instructions for merging duplicates, which combines field values and related records into a single record.
Sharing Records	The Sharing Records section provides

option, which composes an email with a link to the record. If the recipient is logged into Sugar, clicking the link will bring them directly to the record view.

Product Catalog

Sugar's Product Catalog module contains a list of all products or services that your organization sells. This module provides the <u>Quoted Line Items</u> and <u>Revenue Line</u> <u>Items</u> modules with the template used when creating products to be used for <u>Opportunities</u> and <u>Quotes</u>, including pricing and cost information and information about the <u>manufacturer</u>.

Products within the Product Catalog can be broadly classified into <u>product types</u>, such as Software and Hardware. Each product type can be further organized into several <u>product categories</u>. For example, the software product type can contain product categories such as Spreadsheets and Word Processors. You can also create sub-categories within a category.

This documentation will cover information and actions specific to the Product Catalog. For instructions concerning views and actions which are common across most Sugar modules, such as creating, editing, and deleting records, please refer to the <u>Working With Products- and Quotes-Related Modules</u> section of this page.

Product Catalog Fields

The Product Catalog contains a number of stock fields that come out-of-the-box with Sugar. The definitions below are suggested meanings for the fields, but the fields can be leveraged differently to best meet your organization's needs. Fields can be altered, added, or removed via Admin > Studio. For more information on configuring fields, please refer to the <u>Studio</u> documentation in the Administration guide.

Field	Description
Availability	Select if the item is in stock or not from the dropdown list
Category Type	The <u>product category</u> to which the new item belongs
Cost	The actual cost of the item. This will not

	appear on printed quotes
Currency	The <u>currency</u> of the given prices (Cost, List, Unit)
Date Available	Select the date of availability if the item is out of stock
Date Created	The date the product catalog record was created
Date Modified	The date the product catalog record was last modified
Date-Cost-Price	The starting date that the cost is valid
Default Pricing Formula	Select a formula from the dropdown list to arrive at the discount price for the Unit Price field. The formulas are as follows:
	 Fixed Price: Allows you to enter a Unit Price without any calculation. Profit Margin: Enter the points in the adjoining field to vary the percentage against the cost. Markup over Cost: Choose a percentage to raise the price over the cost. Discount from List: Enter the discount percentage from the List Price in the adjoining field. Same as List: The Unit Price will be the same as the List Price.
Description	A description or other information about the product
List Price	The quotable list price of the product
Manufacturer Name	The <u>manufacturer</u> of the product
Mft. Part Number	The manufacturer's part number for the product
Product Name	The name of the product
Product URL	The web address of product if it is available online
Quantity in Stock	Enter the number of units that are in stock of the product

	Note : Negative values are supported in this field.
Support Contact	The support person's contact information, such as the phone number or email address
Support Desc.	Brief description or other information regarding the support provided
Support Name	The name of the Customer Support person
Support Term	The term (e.g. six months, one year, etc.) in which support will be provided for the product
Tags	User-created keywords that can be used to identify records in filters, dashlets, and reports Note : For more information on creating and using tags, please refer to the <u>Tags</u> documentation.
Tax Class	Tax classification (e.g. taxable, non- taxable) for the product
Туре	The specified product type
Unit Price	The unit price of the product
Vendor Part Number	The vendor's part number for the product
Weight	The weight of the product
	Note : Negative values are supported in this field.

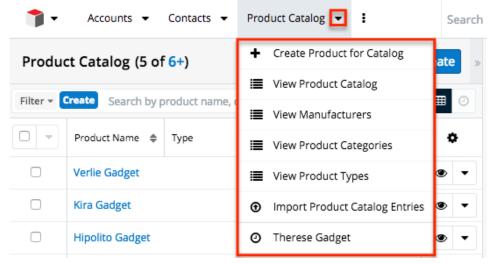
Product Catalog Menus

The Product Catalog module contains various options that are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for module-specific functionality, within this page.

Module Tab Menu

The Product Catalog module tab can be accessed by clicking the Product Catalog

option in the Admin menu. Click the tab to access the Product Catalog <u>list view</u>. You may also click the triangle in the Product Catalog tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of product catalog records you last viewed in the module.



The Product Catalog's Actions menu allows you to perform the following operations:

Menu Item	Description
Create Product for Catalog	Opens the record view layout to create a new product for the catalog
View Product Catalog	Opens the list view layout to search and display the product catalog
View Manufacturers	Opens the Manufacturers list view
View Product Categories	Opens the Product Categories list view
View Product Types	Opens the Product Types list view
Import Product Catalog Entries	Opens the import wizard to create or update product catalog entries using external data

List View Menus

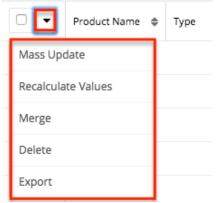
The Product Catalog list view displays all product catalog records meeting the current search criteria. You can view the basic details of each product within the field columns. Please note that you will only be able to see product catalog records as allowed by your user access type (Developer) and assigned roles. For more

information on roles, please refer to the <u>Role Management</u> documentation.

Users with administrator or developer access have the ability to change what fields are visible in the list view via Admin > Studio. For more information on editing layouts, please refer to the <u>Studio</u> documentation.

Mass Actions Menu

The Mass Actions menu to the right of the checkbox option allows you to perform various actions on the currently selected records.



The options in the Mass Actions menu allow you to perform the following operations:

Menu Item	Description
<u>Mass Update</u>	Mass update one or more product catalog records at a time
<u>Recalculate Values</u>	(Available in certain circumstances) Updates calculated values to reflect changes to calculated fields made in Studio
<u>Merge</u>	Merge two or more duplicate products
<u>Delete</u>	Delete one or more product catalog records at a time
Export	Export one or more product catalog records to a CSV file

Record Actions Menu

The Record Actions menu to the right of each record's Preview button allows users

Product Name 👙	Category Name 🌲	Availability 🜲	Qu	uantity in Sto🖨	٠
Verlie Gadget	Albaugh Widgets	In Stock	12		• -
Kira Gadget	Albaugh Widgets	In Stock	13	Edit	
Hipolito Gadget	Albaugh Widgets	In Stock	58	Delete	

to edit, follow, or delete specific records directly from the list view.

The options in the Record Actions menu allow you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this product in the intelligence
	pane
Edit	Edit this product
<u>Delete</u>	Delete this product

Record View Actions Menu

The Product Catalog record view displays thorough product information including all product fields. The record view can be reached by clicking a product record's link in the Product Catalog list view. You have the ability to change the record view by configuring the layout via Admin > Studio. For more information on editing layouts, please refer to the <u>Studio</u> documentation.

The Actions menu on the top right of each product's record view allows you to perform various actions on the current record.

PC Therese Gadget		Edit
Availability	Product U	Share
In Stock		Download PDF
Date Available	Tax Class	Email PDF
2004-10-15	Taxable	Find Duplicates
Quantity in Stock	Category	Find Duplicates
52	Rimes W	Сору
Manufacturer Name	Part Num	Delete

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit this product
<u>Share</u>	Share a link to this product via email
Download PDF	Download product information as a PDF file
Email PDF	Email product information as a PDF attachment
Find Duplicates	Locate potential duplicates of this product
Copy	Duplicate this product
<u>Delete</u>	Delete this product

Product Categories

The Product Categories module allows you to create categories to group records under a Product Type. This is one of the levels of organization you can use for the products and services that your organization offers, and will contain multiple entries from the <u>product catalog</u>.

This documentation will cover information and actions specific to the Product Catalog. For instructions concerning views and actions which are common across most Sugar modules, such as creating, editing, and deleting records, please refer to the <u>Working With Products- and Quotes-Related Modules</u> section of this page.

Product Category Fields

The Product Category module contains four stock fields that come out-of-the-box with Sugar. The definitions below are suggested meanings for the fields.

Field	Description
Product Category	The category's name as it will appear on the Product Category dropdown list
Parent Category	Select a parent product category if this product category is a sub-set of another category
Description	A description or other information about

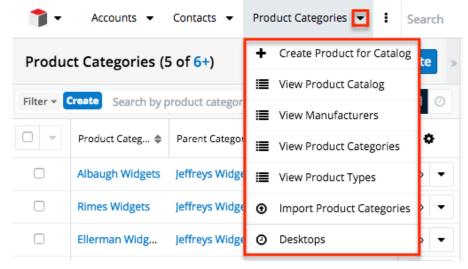
the product category
Enter a number to specify the order in which this category will appear in the Product Category dropdown list

Product Category Menus

The Product Categories module contains various options and functions that are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for module-specific functionality, within this page.

Module Tab Menu

The Product Categories module tab can be accessed by clicking the Product Categories option in the Admin page. Click the tab to access the Product Categories list view. You may also click the triangle in the Product Categories tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of product category records you last viewed in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Create Product for Catalog	Opens the product catalog's record view to create a new product for the catalog

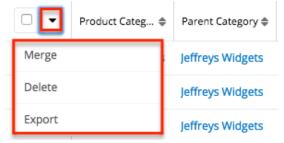
View Product Catalog	Opens the Product Catalog list view
<u>View Manufacturers</u>	Opens the Manufacturers list view
View Product Categories	Opens the Product Categories list view
View Product Types	Opens the Product Types list view
Import Product Categories	Opens the import wizard to create or update product categories using external data

List View Menus

The Product Categories list view displays all product category records. You can view the basic details of each product category within the field columns. You can also click on a category's name to <u>edit</u> it, or <u>delete</u> the category by clicking the "Delete" button at the end of the row.

Mass Actions Menu

The Mass Actions menu to the right of the checkbox option allows you to perform various actions on the currently selected records.

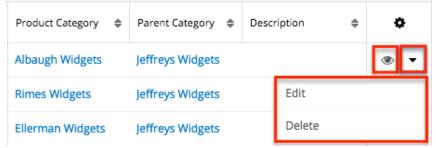


The options in the Mass Actions menu allow you to perform the following operations:

Menu Item	Description
<u>Merge</u>	Merge two or more duplicate product categories
<u>Delete</u>	Delete one or more product categories at a time
Export	Export one or more product categories to a CSV file

Record Actions Menu

The Record Actions menu to the right of each record's Preview button allows users to edit or delete specific records directly from the list view.



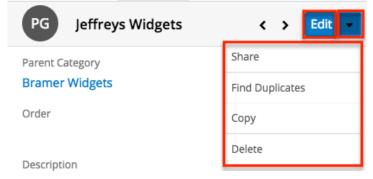
The options in the Record Actions menu allow you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this category in the intelligence
	pane
Edit	Edit this product category
<u>Delete</u>	Delete this product category

Record View Actions Menu

The Product Categories record view displays product category information including all relevant fields. The record view can be reached by clicking a product category's link from the Product Categories list view.

The Actions menu on the top right of each product category's record view allows you to perform various actions on the current record.



The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
Edit	Edit this product category
<u>Share</u>	Share a link to this product category
Find Duplicates	Locate potential duplicates of this product category
<u>Copy</u>	Duplicate this product category
<u>Delete</u>	Delete this product category

Product Types

The Product Types module controls the Type dropdown list in the <u>Product Catalog</u> <u>fields</u>. In addition to <u>product categories</u>, the product type allows you to define the classification of a product or service that is being offered on a product catalog record.

This documentation will cover information and actions specific to the product types. For instructions concerning views and actions which are common across most Sugar modules, such as creating, editing, and deleting records, please refer to the <u>Working With Products- and Quotes-Related Modules</u> section of this page.

Product Type Fields

The Product Types module contains three stock fields that come out-of-the-box with Sugar. The definitions below are suggested meanings for the fields.

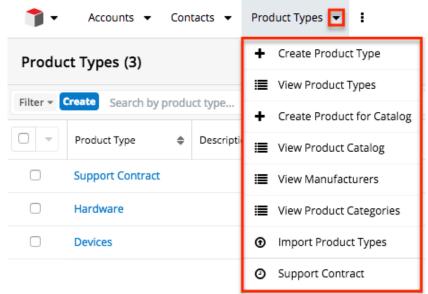
Field	Description
Product Type	The product type's name as it will appear on the Type dropdown list in the product catalog
Description	A description or other information about the product type
Order	Enter a number to specify the order in which this product type will appear in the Type dropdown list

Product Type Menus

The Product Types module contains various options and functions that are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for module-specific functionality, within this page.

Module Tab Menu

The Product Types module tab can be accessed by clicking the Product Types option in the Admin menu. Click the tab to access the Product Types list view. You may also click the triangle in the Product Types tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of product type records you last viewed in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Create Product Type	Opens the Product Types list view to create a product
View Product Types	Opens the Product Types list view
Create Product for Catalog	Opens the Product Catalog record view to create a new product for the catalog
View Product Catalog	Opens the Product Catalog list view
View Manufacturers	Opens the Manufacturers list view
View Product Categories	Opens the Product Categories list view

Import Product Types	Opens the import wizard to create or update product types using external data
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List View Menus

The Product Types list view displays all product type records. You can view the basic details of each product type within the field columns. You can also click on a product type's name to <u>edit</u> or <u>delete</u> the category by clicking the "Delete" button at the end of the record's row in the list view.

Mass Actions Menu

The Mass Actions menu to the right of the checkbox option allows you to perform various actions on the currently selected records.

Filter - Create Search by product type			
Product Type		\$	Description
Mass Update		t	
Merge			
Delete			
Export			

The options in the Mass Actions menu allow you to perform the following operations:

Menu Item	Description
<u>Mass Update</u>	Mass update one or more product type records at a time
<u>Merge</u>	Merge two or more duplicate product types
<u>Delete</u>	Delete one or more product types at a time
Export	Export one or more product types to a CSV file

Record Actions Menu

The Record Actions menu to the right of each record's Preview button allows users to edit or delete specific records directly from the list view.

Product Type	\$ Description	Order	\$	٠
Support Contract		3		• -
Hardware		2	Edit	
Devices		1	Delete	

The options in the Record Actions menu allow you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this product type in the intelligence pane
Edit	Edit this product type
<u>Delete</u>	Delete this product type

Record View Actions Menu

The Product Types record view displays product type information including all relevant fields. The record view can be reached by clicking a product type's link from the Product Types list view.

The Actions menu on the top right of each product type's record view allows you to perform various actions on the current record.

PT Hardware		< > Edit -
Description	Order	Share
	2	Find Duplicates
Date Created	Date Mod	Сору
12/21/2017 07:39am by Admini	12/21/20	Delete

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description

Edit	Edit this product type
Share	Share a link to this product type
Find Duplicates	Locate potential duplicates of this product type
Сору	Duplicate this product type
Delete	Delete this product type

Ordering Product Types

The Order field in Product Types defines the order of the different type options when viewing the Type dropdown list of a <u>Product Catalog</u> record. The Order field allows you to organize what order the dropdown list will display, with 1 being the highest on the list and moving down as the order number rises. When <u>creating</u> new product type record options, the Order field will automatically increment to the next number in the list, thereby adding the new option to the bottom of the list. The Order field can be overwritten with another number if you would like to manually re-order the options.

Manufacturers

The Manufacturers module controls and maintains the Manufacturer Name field in the <u>Product Catalog</u> module. The Manufacturer Name field allows you to select from a list of the manufacturers you use to classify your products and specify from which manufacturer they are produced.

Manufacturer Fields

The Manufacturers module contains three stock fields that come out-of-the-box with Sugar. The below definitions are suggested meanings for the fields.

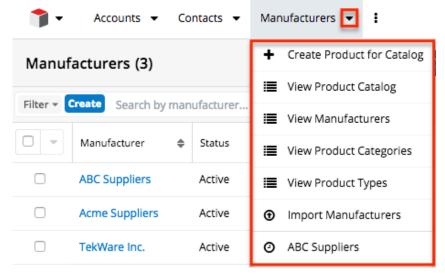
Field	Description
Manufacturer	The manufacturer's name as it will appear in the Manufacturer Name field in the <u>product catalog</u>
Status	Select "Active" or "Inactive" to indicate which manufacturers are displayed as options in the Manufacturer Name field
<u>Order</u>	Enter a number to specify the order in

Manufacturer Menus

The Manufacturers module contains various options and functions that are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for module-specific functionality, within this page.

Module Tab Menus

The Manufacturers list view can be accessed by navigating to the Admin page and selecting "Manufacturers" under the Product and Quotes panel. Click the tab to access the Manufacturers list view. You may also click the triangle in the Manufacturers tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of manufacturers you most recently viewed.



The module tab's Actions menu allows you to perform the following operations:

Menu Item	Description
Create Product for Catalog	Opens the Product Catalogs record view to create a new product for the catalog
View Product Catalog	Opens the Product Catalog list view layout to search and display product

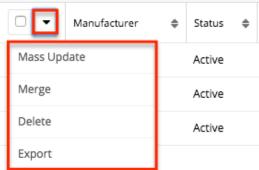
	catalogs
<u>View Manufacturers</u>	Opens the Manufacturers list view to search and display manufacturers
View Product Categories	Opens the Product Categories list view to search and display product categories
<u>View Product Types</u>	Opens the Product Types list view to search and display product categories
Import Manufacturers	Opens the import wizard to create or update manufacturers using external data

List View Menus

The Manufacturers <u>list view</u> displays all manufacturer records and allows for searching and filtering to locate specific manufacturers. You can view the basic details of each record within the field columns of the list view or click the manufacturer's name to open the record view. To access the module's list view, simply navigate to the Admin page and select "Manufacturers" under the Product and Quotes panel. You can also click the module's tab in the navigation bar once the Manufacturers module opens.

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual manufacturer records or click the checkbox in the list header to select all records displayed on the current set of list view results.



The Mass Actions menu allows you to perform the following operations:

Menu Item	Description

<u>Mass Update</u>	Mass update one or more manufacturer records at a time
<u>Merge</u>	Merge two or more duplicate manufacturers
<u>Delete</u>	Delete one or more manufacturer records at a time
<u>Export</u>	Export one or more manufacturer records to a CSV file

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on individual manufacturer records directly from the list view.

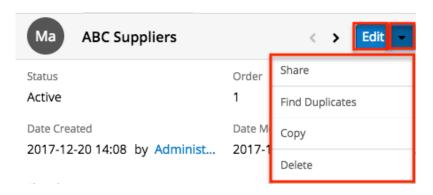
Manufacturer 🔶	Status	\$ Order	\$ ٥
ABC Suppliers	Active	1	۰ -
Acme Suppliers	Active	1 Edit	
TekWare Inc.	Active	Delete	

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this manufacturer in the intelligence pane
Edit	Edit this manufacturer
<u>Delete</u>	Delete this manufacturer

Record View Actions Menu

The Manufacturer's <u>record view</u> displays a single manufacturer in full detail including its fields. To access a manufacturer's record view, simply click the hyperlinked manufacturer name in the Manufacturers list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this manufacturer
Share	Share a link to this manufacturer via email
Find Duplicates	Locate potential duplicates of this manufacturer
Сору	Duplicate this manufacturer
Delete	Delete this manufacturer

Ordering Manufacturers

The Order field in the module defines the order in which the manufacturer options are displayed in the corresponding Manufacturer Name field of the <u>Product</u> <u>Catalog</u> module. Enter the numeric value (e.g. 1, 2, 3) in the manufacturer record's Order field to determine the order it will display in the corresponding field list (Manufacturer Name). For example, a manufacturer record with an order value of "1" will display at the top of the list followed by the next value (e.g. 2), and so forth. When creating new manufacturer records, the Order field will automatically increment to the next number in the list, thereby adding the new option to the bottom of the list. The Order field can be overwritten with another number if you would like to manually re-order the options.

Shipping Providers

The Shipping Providers module controls and maintains the Shipping Provider field in the <u>Quotes</u> module. The Shipping Provider field allows you to determine how you are going to transport the purchased products or services to the customer.

Shipping Provider Fields

The Shipping Provider module contains three stock fields that come out-of-the-box with Sugar. The definitions below are suggested meanings for the fields.

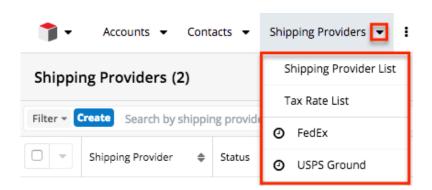
Field	Description
Shipping Provider	The provider's name as it will appear in the Shipping Provider field of the Quotes module
Status	Select "Active" or "Inactive" to indicate which shipping providers are displayed as options in the Shipping Provider field
Order	Enter a number to specify the order in which this shipping provider option will appear in the quote's Shipping Provider field list

Shipping Provider Menus

The Shipping Providers module contains various options and functions that are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for module-specific functionality, within this page.

Module Tab Menus

The Shipping Providers list view can be accessed by navigating to the Admin page and selecting "Shipping Providers" under the Product and Quotes panel. Click the tab to access the Shipping Providers list view. You may also click the triangle in the Shipping Providers tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of shipping providers you most recently viewed.



The module tab's Actions menu allows you to perform the following operations:

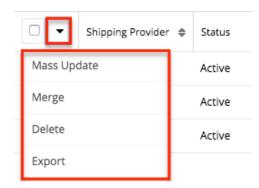
Menu Item	Description
	Opens the Shipping Providers list view layout to search and display shipping providers
	Opens the Tax Rates list view layout to search and display tax rates

List View Menus

The Shipping Providers <u>list view</u> displays all shipping provider records and allows for searching and filtering to locate specific shipping providers. You can view the basic details of each record within the field columns of the list view or click the shipping provider's name to open the record view. To access the module's list view, simply navigate to the Admin page and select "Shipping Providers" under the Product and Quotes panel. You can also click the module's tab in the navigation bar once the Shipping Providers module opens.

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual shipping provider records or click the checkbox in the list header to select all records displayed on the current set of list view results.



The Mass Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Mass Update</u>	Mass update one or more shipping provider records at a time
<u>Merge</u>	Merge two or more duplicate shipping providers
<u>Delete</u>	Delete one or more shipping provider records at a time
Export	Export one or more shipping provider records to a CSV file

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on individual shipping provider records directly from the list view.

Shipping Provider 🜲	Status 🌲	Order	\$	٥
DHL	Active	3	(۰ 🔻
USPS Ground	Active	Edit		
FedEx	Active	Delete		

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this shipping provider in the
	intelligence pane

Edit	Edit this shipping provider
Delete	Delete this shipping provider

Record View Actions Menu

The Shipping Providers <u>record view</u> displays a single shipping provider in full detail including its fields. To access a shipping provider's record view, simply click the hyperlinked shipping provider name in the Shipping Providers list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.

SP USPS Ground		Edit
Status	Order	Share
Active	2	Find Duplicates
Date Created	Date Mod	Сору
2017-12-20 01:57 by Administr	2017-12	Delete

The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this shipping provider
<u>Share</u>	Share a link to this shipping provider via email
Find Duplicates	Locate potential duplicates of this shipping provider
Copy	Duplicate this shipping provider
<u>Delete</u>	Delete this shipping provider

Ordering Shipping Providers

The Order field in the module defines the order in which the shipping provider options are displayed in the corresponding Shipping Provider field of the <u>Quotes</u> module. Enter the numeric value (e.g. 1, 2, 3) in the shipping provider record's Order field to determine the order it will display in the corresponding field list (Shipping Provider) on the quote record. For example, a shipping provider record

with an order value of "1" will display at the top of the list followed by the next value (e.g. 2), and so forth. When creating new shipping provider records, the Order field will automatically increment to the next number in the list, thereby adding the new option to the bottom of the list. The Order field can be overwritten with another number if you would like to manually re-order the options.

Tax Rates

The Tax Rates module controls and maintains the Tax Rates field in the <u>Quotes</u> module. The Tax Rates field allows you to apply the applicable tax rate to the quote's taxable subtotal. Tax rates can be added as any necessary percentage, so they will be able to include national and international rates.

Tax Rate Fields

The Tax Rate module contains four stock fields that come out-of-the-box with Sugar. The below definitions are suggested meanings for the fields.

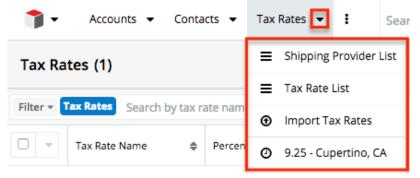
Field	Description	
Tax Rate Name	The tax rate's name as it will appear in the Tax Rate field of the Quotes module	
Percentage	The percentage of the quote's subtotal that will be taxed	
Status	Select "Active" or "Inactive" to indicate which tax rates are displayed as options in the Tax Rate field	
Order	Enter a number to specify the order in which this tax rate option will appear in the quote's Tax Rate field list	

Tax Rate Menus

The Tax Rates module contains various options and functions that are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for module-specific functionality, within this page.

Module Tab Menus

The Tax Rates list view can be accessed by navigating to the Admin page and selecting "Tax Rates" under the Product and Quotes panel. Click the tab to access the Tax Rates list view. You may also click the triangle in the Tax Rates tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed menu</u> displays the list of tax rates you most recently viewed.



The module tab's Actions menu allows you to perform the following operations:

Menu Item	Description	
Shipping Provider List	Opens the Shipping Providers list view layout to search and display shipping providers	
Tax Rate List	Opens the Task Rates list view layout to search and display tax rates	
Import Tax Rates	Opens the import wizard to create or update tax rates using external data	

List View Menus

The Tax Rates <u>list view</u> displays all tax rate records and allows for searching and filtering to locate specific tax rates. You can view the basic details of each record within the field columns of the list view or click the tax rate's name to open the record view. To access the module's list view, simply navigate to the Admin page and select "Tax Rates" under the Product and Quotes panel. You can also click the module's tab in the navigation bar once the Tax Rates module opens.

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header

allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual tax rate records or click the checkbox in the list header to select all records displayed on the current set of list view results.



The Mass Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Mass Update</u>	Mass update one or more tax rate records at a time
<u>Merge</u>	Merge two or more duplicate tax rates
<u>Delete</u>	Delete one or more tax rate records at a time
Export	Export one or more tax rate records to a CSV file

List View Record Actions Menu

Г

The Record Actions menu to the far right of each record's row allows you to perform actions on individual tax rate records directly from the list view.

Tax Rate Name 🌩	Percentage(%) 🜲	Status	÷ •
9.25 - Los Ange	9.25	Active	۲
8.75 - San Dieg	8.75	Edit	
9.50 - San Fran	9.5	Delete	

The list view's Record Actions menu allows you to perform the following operations:

٦

Menu Item	Description
Preview (Eye icon)	Preview this tax rate in the intelligence pane
Edit	Edit this tax rate
Delete	Delete this tax rate

Record View Actions Menu

The Tax Rates <u>record view</u> displays a single tax rate in full detail including its fields. To access a tax rate's record view, simply click the hyperlinked tax rate name in the Tax Rates list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.

TR 9.25 - Cupertino, CA		< > Edit -
Percentage(%)	Status	Share
9.25	Active	Find Duplicates
Order		Сору
1		Delete
Date Created	Date M	Jamea

The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this tax rate
Share	Share a link to this tax rate via email
Find Duplicates	Locate potential duplicates of this tax rate
Сору	Duplicate this tax rate
Delete	Delete this tax rate

Ordering Tax Rates

The Order field in the module defines the order in which the tax rate options are displayed in the corresponding Tax Rate field of the <u>Quotes</u> module. Enter the

numeric value (e.g. 1, 2, 3) in the tax rate record's Order field to determine the order it will display in the corresponding field list (Tax Rate) of the Quotes module. For example, a tax rate record with an order value of "1" will display at the top of the list followed by the next value (e.g. 2), and so forth. When creating new tax rate records, the Order field will automatically increment to the next number in the list, thereby adding the new option to the bottom of the list. The Order field can be overwritten with another number if you would like to manually re-order the options.

Last Modified: 2018-03-28 22:32:20

Bug Tracker

Overview

In the <u>Bugs</u> module, there are two dropdown fields, "Found in Release" and "Fixed in Release", that cannot be edited though normal means. Although these are dropdown fields, they do not show a <u>dropdown list</u> option in Dropdown Editor to add, remove, and edit the dropdown options.

Display Label:	Found in Release:
System Label:	LBL_FOUND_IN_RELEA!
Help Text:	
Comment Text:	The software or servic
Drop Down List:	
Default Value:	

The release dropdown list is instead controlled by the Releases section of the Administration page. The release list is more comprehensive than a standard dropdown list, so each list option needs additional information. This documentation will cover how to use the Releases module to make changes to the list that controls these fields.

Release Fields

The Releases module contains three fields which come out-of-the-box with Sugar. These fields are not found in Studio, and therefore cannot be edited.

Field	Description

Release Version	The version name or number of this release.
Status	Select Active from this dropdown list to display the name in the Release dropdown list. Inactive records will only show in the list view of this page.
Order	Enter a number to specify the order in which the release is displayed in the dropdown list. Numbers can be repeated in this field, so they can either be ranked in order (1,2,3), in order of importance (1,1,1,2,2,2,3,3,3), or any other ranking that is used internally.

Release Module Tab

The Releases module tab can be accessed by navigating to the Administration page and clicking "Releases" in the Bugs section.

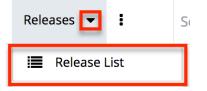
Bugs

Maintain a list of releases for your product. Active releases are displayed in the Releases drop-down menus in bug records created within the Bug Tracker module.



Manage releases and versions

Once in the Releases list view, you can click the triangle in the Releases module tab to display the Actions menu, which allows you to perform important actions within the module. Please note that clicking the module tab only allows you to access the Releases list view.



Creating Releases

Releases can only be created from the Releases module. Use the following steps to create a release option for dropdown lists:

- 1. Navigate to Admin > Releases.
- 2. Click the Create button above the Releases list view.

Release List	
Create	
Release ⇔	

3. An editable subpanel will open below the list view. Enter the required information on the fields provided.

Release: 1.0

Save Save & G	Create New
Release version: *	1.0
Status: *	Active Set status to Inactive to remove this release from the Release dropdown list
Order: *	2 Set the order this release will appear in the Release dropdown lists

- 4. Click one of your two save options. Both will store your new record and have it available for use through Sugar. However, the behavior after clicking is dependent on which button used:
 - **Save** : After clicking "Save", the same release option that you created will remain editable for you to make additional changes if need be, after appearing on the list view above.
 - Save & Create New : After clicking "Save & Create New", the release appears on the list view, the edit form's "Release Version" field is cleared out, and the "Order" field is increased by one.
 Release:

Save	Save & Create New			
Release ve	rsion: *			
Status: *		Active \$ Set		
Order: *		5 Set the		

Viewing Releases

All of the release options are shown on a list view in the Releases module. Due to the Releases module only containing three fields, all of the necessary details are shown on this list view. The list view is always available when viewing the Releases module, and specific releases can be selected from the list, but records can also be selected via the Recently Viewed section of the module tab.

Viewing Via Module

To view all of the releases, navigate to Admin > Releases. The list view displays with all currently available releases within Sugar. The list view can be ordered by any of the three <u>fields</u> within Releases. To see additional releases, use the arrows in the top right of the list view to scroll through available pages. Here, you can see which records of the total amount of releases are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of the list.

From this list, any of the releases can be clicked and either $\underline{\text{edited}}$ or $\underline{\text{deleted}}$. Release List

Create	
	(IK) (1 - 4 of 4) () ()
Release ⇔	Status ⇔ Order ⇔
1.0	Active 2 Gelete

Editing Releases

Changes to releases can be made at the discretion of any admin at any time. To make changes, such as changing the name of the release and how it shows in the Bugs module, whether the release value is active or not, or the order in which the releases display, the release record needs to just be accessed via the list view. Follow these steps to edit releases:

- 1. Navigate to Admin > Releases.
- 2. Select the release that you would like to edit by clicking the release name.

		<u>i</u> () (1 - 4 of 4)	<u> </u>
Releas	se 🌲	Status 😄	Order \Leftrightarrow	
1.0		Active	1	elete
2.0		Active	2	e delete
2.5		Active	3	elete
3.0		Active	4	⊖ delete

3. This will open the editor below the list view for the specific record where you can make the necessary changes.

Save	Save & Create New
Release version: *	1.0
Status: *	Inactive Set status to Inactive to remove this release from the Release dropdown lists
Order: *	1 Set the order this release will appear in the Release dropdown lists

- 4. Click one of your two save options. Both will store your updates to the record. However, the behavior after clicking is dependent on which button used:
 - **Save** : After clicking "Save", the same release option that you edited will remain editable for you to make additional changes if need be, after the changes update on the list view above.
 - **Save & Create New** : After clicking "Save & Create New", the changes to the release appear on the list view, the edit form defaults back to <u>creating a new record</u>.

Deleting Releases

If a release option is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from the Releases list view. Deleting release options will not delete the bugs that use them. Instead, if a bug's "Found in Release" or "Fixed in Release" field was filled in with the deleted release, the field will now be blank. Use the following steps to delete a release option from the Bugs module:

- 1. Navigate to Admin > Releases.
- 2. Click the Delete button corresponding to the release that you would like deleted.

	📧 🔇 (1 - 3 of	3) 🔉 🔊
Release 😄	Status Order	÷
1.0	Inactive 1	⊖ _{delete}
2.0	Active 2	⊖ _{delete}
3.0	Active 4	⊖ delete

The page will refresh and the option will now be removed from the list view and no longer appear in the dropdown fields (e.g. Found in Release).

Last Modified: 2018-03-28 22:32:20

Forecast Configuration

Overview

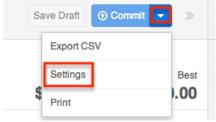
Sugar's Forecasts module incorporates revenue line item records to build forecasting worksheets and predict sales. Users can work towards sales quotas at the individual, team, and sales organization level. Before users may access the Forecasts module to begin building forecasting worksheets, a user with administrator access must configure the Forecasts module with the organization's desired Time Periods, Ranges, Scenarios, and Worksheet Columns.

Configuring Forecasts

Administrator users can access the Forecast configuration settings by navigating to the Administration page and clicking the Forecasts link.

Configure Forecasts Module

As an alternative, administrators can also access the Forecast configuration settings by navigating to the Forecasts module. Clicking the Forecasts module tab before the module has been configured will automatically redirect administrators to the configuration wizard. After the module has been configured, they are able to choose "Settings" from the Actions menu within the Forecasts module to review their configuration selections and potentially make changes. For more information on making changes to the configuration, please refer to the <u>Editing Forecast</u> <u>Configurations</u> section of this documentation.



The Forecasts Setup wizard will guide you through the various configuration items.

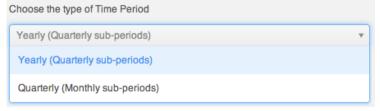
Note: The Forecast Time Periods cannot be changed after initial setup without losing all existing Forecast data. The Forecast Ranges cannot be changed after the first Save Draft or Commit action in the Forecasts module. In order to make changes to these selections, please refer to the <u>Editing Forecast Configurations</u> section of this documentation.

Time Periods

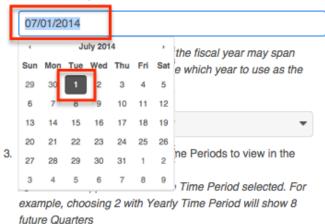
The Time Periods panel allows you to match the Forecasts module's fiscal year and frequency of quota cycles to your organization's practices. These settings will control the beginning and duration of your forecasting time periods as well as control the number of past and future time periods users may access.

Use the following steps to configure Forecast Time Periods:

1. Select the Time Period type which matches your sales organization's practices. Choose "Yearly" if your sales organization has quarterly quotas which build up to a yearly goal. Choose "Quarterly" if you operate with monthly goals building to quarterly goals instead.



- 2. Click the calendar icon to select the start day and month of your organization's fiscal year from the date picker.
 - 2. Choose fiscal year start date



If the start date of your organization's fiscal year is a date other than January 1, the fiscal year will span two years. You must specify which of those two years the start date applies to. In these cases, a dropdown will appear prompting you to select the appropriate fiscal year. For example, if the start date of the fiscal year is 07/01/2014, the end date will be 06/30/2015. The forecast wizard will therefore ask you if the time period 07/01/2014 -06/30/2015 should be considered fiscal year 2014 or fiscal year 2015.

2.	Choose fiscal year start date	
E	07/01/2014	
	The chosen start date indicates the fiscal year may span across two	
	years. Please choose which year to use as the Fiscal Year	
	Fiscal Year:	
	2014	
3.	2014	
	2015	J

Note: It is not recommended to choose February 29th for the fiscal year start date, though this is possible to do during a leap year. If this date is chosen, non-leap years will have fiscal year start date of March 1st.

- 3. Select how many future time periods users will be able to view in their forecast worksheets. This is the number of base Time Periods (years or quarters) as opposed to the sub-periods (quarters or months).
- 4. Select how many past time periods users will be able to view in their forecast worksheets. This is the number of base Time Periods (years or quarters) as opposed to sub-periods (quarters or months).
- 5. Click "Next".

Note: The Forecast Time Periods cannot be changed after initial setup without losing all existing Forecast data. In order to make changes after initial setup, please refer to the <u>Editing Forecast Configurations</u> section of this documentation.

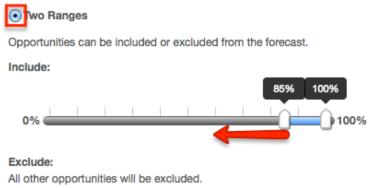
Ranges

Forecast Ranges are a method of predefining what revenue line item records should likely be included on forecasts and which should not. As the administrator, you will specify the sale probabilities which will cause revenue line items to be initially included on a user's forecast. Each user, however, can then manually choose to include or exclude their revenue line items no matter how the probabilities line up with these ranges.

In addition to initially including revenue line items, these ranges will also be available to users in the Forecasts module as categories for filtering or for grouping in charts. Ranges which are not associated with probabilities and are used strictly for categorical purposes may be added under the Custom Ranges option.

Two Ranges

Choose the Two Ranges radio button for a simple include or exclude model. You will then drag the left slider to specify the minimum probabilities that qualify a revenue line item to be initially included on forecasts. In this two-range model, all revenue line items with probabilities falling below the defined range will be initially excluded from forecasts. Choosing "Two Ranges" will cause the categories "Include" and "Exclude" to be available for users in the Forecasts module for filtering or grouping revenue line items in charts.



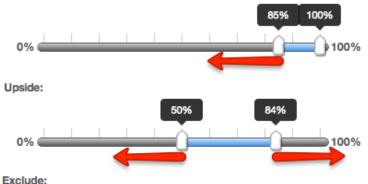
Three Ranges

Choose the Three Ranges radio button to enable an intermediate range. Drag the left Include slider to specify the minimum probabilities that qualify a revenue line item to be predefined as included on forecasts. Then use the Upside sliders to define the range of probabilities which will be initially excluded from forecasts but which can be viewed independently for consideration for inclusion by the user. All revenue line items with probabilities falling outside these two ranges will also be predefined as excluded from forecasts. Choosing "Three Ranges" will cause the categories "Include", "Upside", and "Exclude" to be available for users in the Forecasts module for filtering revenue line items in charts.

Three Ranges

Opportunities can be tagged as Include, Upside, or Exclude in the forecast. Upside is not included in forecasts by default, but allows users to further classify the excluded opportunities based on likelihood to close.





All other opportunities will be excluded.

Custom Ranges

Choose the Custom Ranges radio button if you would like to create additional, more customized ranges. Custom ranges based on probabilities will be used to initially determine whether or not a revenue line item is included or excluded in forecasts.

- The Include and Exclude ranges are required, though you may change their names if desired.
- Use the plus button to add additional ranges.
- Use the minus button to remove unwanted ranges.
- Use the text box to specify the desired name for each range.
- Mark the check box of every range which should be included on forecasting worksheets.
- Use each range's sliders to determine the minimum and maximum probabilities which will correlate with each range.



You may also add custom ranges not based on probability at the bottom of the ranges panel. These values do not correlate with any probabilities, and revenue line items marked with these range options will not be included on forecasting worksheets. Ranges created in this section may be used as tags on the revenue line item record.

- Use the plus button to add additional ranges.
- Use the minus button to remove unwanted ranges.
- Use the text box to specify the desired name for each range.



Once you are satisfied with your range selections, click "Scenarios" to open the next panel.

Note: The Forecast Ranges cannot be changed after the first Commit action in the Forecasts module without losing all existing Forecast data. In order to make changes after initial setup, please refer to the <u>Editing Forecast Configurations</u> section of this documentation.

Scenarios

The Scenarios panel allows you to specify if you wish to have revenue line item records' Best Case and/or Worst Case fields available on the forecast worksheets. The "Likely" scenario is included automatically because it matches the revenue line item record's required amount field. When "Best" and "Worst" are also enabled, users will have the ability to view and modify these additional values based on their opinion of what values may come about in the sale. This provides a broader range possible sales information when working to make forecasts as predictive as possible.

Note: The "Worst" field is disabled by default and must be enabled manually.

To add the Best or Worst scenario, click in the text box and select from the dropdown list which appears. Unwanted scenarios may be removed by clicking the "x".

ely	Bes t 🛞
	Worst

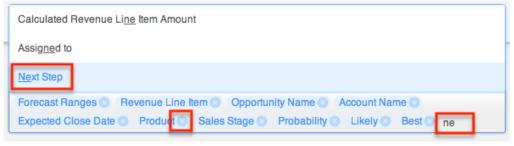
Once you are satisfied with your range selections, click "Worksheet Columns" to open the next panel.

Note: The Forecast Scenarios configurations may be changed at any time following initial setup by returning to the Admin > Forecasts page.

Worksheet Columns

The Worksheet Columns panel allows you to specify which fields will be available as columns in the Forecasts module. Users will be able to select from this list to configure the final appearance of their worksheet. For more information on selecting desired columns, please refer to the <u>Forecasts</u> documentation. Please note that "Best" and "Worst" will only be available as columns if they have been enabled in the <u>Scenarios</u> panel. Re-enabling one of these scenarios will automatically add it to the list of worksheet columns.

Add additional fields by clicking in the text box and choosing from the dropdown list which appears. Typing in the text box will narrow down the list to show only matching fields. Unwanted fields may be removed by clicking the "x".



Once you are satisfied with your worksheet column selections, click "Save" at the top right.

Note: The Forecast Scenarios configurations may be changed at any time following initial setup by returning to the Admin > Forecasts page.

Editing Forecast Configurations

Once the Forecast Configurations have been completed, Sugar will apply the selected options and do an initial load of revenue line items to the Forecasts module. The selected Time Periods are locked at the completion of the Forecast Configuration wizard, and the Ranges are locked once the first Save Draft or Commit action is performed within the Forecasts module. If, at a later time, the selections you made for Time Periods and Ranges need to be changed, the only way this can be accomplished is at the expense of any existing Forecasting data.

Should you choose to **lose all forecasting worksheets for the current, past, and future time periods**, a user with administrator access can navigate to https://yourinstancename.com/#bwc/index.php?module=Forecasts&action=ResetS ettings (where "https://yourinstancename.com" represents the URL you use to navigate to your Sugar instance) to instantly reset the Forecasts module. Please note that **you cannot undo this action, and you will not be prompted to confirm this decision before it takes effect**. Be sure to let the action complete before closing or refreshing the browser window.

Please take caution: Navigating to the URL above will reset your Forecasts module to a state as if it had never been used before, enabling you to make fresh selections for all elements within the Forecasts Configuration by navigating to Admin > Forecasts. Your instance's revenue line item records will not be affected.

Last Modified: 2019-01-25 15:11:52

Opportunities Configuration

Overview

Sugar provides the option to track opportunities and build forecasts at two different levels of granularity: using <u>opportunities in conjunction with revenue line</u> <u>items</u> or using <u>opportunities alone</u>. Sugar admins can select the opportunity model that makes the most sense for their organization via Admin > Opportunities. This page describes how to change opportunity models and the consequences of doing so.

Important: Moving from one opportunity model to the other will permanently delete sales data from your Sugar instance and make irreversible changes to your database that will affect reports, forecasts, workflows, and more. Please read the following sections carefully to understand the impact on your data before deciding to change opportunity models.

Opportunities With Revenue Line Items

Using the "Opportunities with Revenue Line Items" model will mean a sale is tracked as an opportunity record with a separate revenue line item record for each potential revenue stream from the sale. Therefore, an opportunity will be the parent record of one or more revenue line item records, and the opportunity will display the summed values of all of its related line items. Forecasts will be created based on revenue line items.

Changing to the Revenue Line Items Model

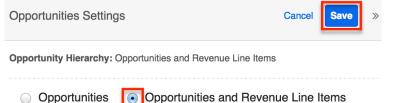
The following irreversible changes will occur in your Sugar instance as a result of moving from "Opportunities" to "Opportunities and Revenue Line Items" for your opportunity model:

- **Existing opportunities** : Your existing opportunities will each have one revenue line item created and attached to the opportunity.
- Copied fields : The following fields and their values will be copied from the existing opportunity records to the new revenue line items records:
 Likely Amount, Best Amount, Worst Amount

- Expected Close Date
- Next Step
- **Deleted and re-created fields** : The following fields and values will be moved from the existing opportunity records to the new revenue line item records:
 - Sales Stage
 - Probability
- **Forecasting data** : All existing forecast data will be lost; Forecasting must begin anew after the switch has made and the notifications have been received indicating the completion of the back-end tasks.
- Workflows/Advanced Workflows :
 - All workflows involving the Opportunities module will be disabled. Please review your workflows after making this change to ensure any necessary workflows are set up with the relevant modules.
 - Advanced Workflow process definitions based on the Opportunities module may cease functioning as expected. Affected process definitions should be recreated using the correct module and fields.

Use the following steps to change your system's opportunity model from "Opportunities" to "Opportunities and Revenue Line Items":

- 1. Navigate to the Admin panel and click on the "Opportunities" configuration link.
- 2. Select the radio button labeled "Opportunities With Revenue Line Items".



- 3. Click "Save" and then confirm the action only if you have read all of the notes above and are confident that your instance is prepared for the consequences of changing your opportunity model.
- 4. Wait for Sugar to indicate that the transition is complete by sending an email confirmation to the email address on your user profile and displaying a notification in your <u>Notifications center</u>. Please note that your instance must be <u>configured to send email</u> in order for the notification email to be sent.

Upon completion, a revenue line item record will have been created for and related to each existing opportunity. For more information on using opportunities in conjunction with revenue line items, please refer to the <u>Opportunities</u>, <u>Revenue</u> <u>Line Items</u>, and <u>Forecasts</u> documentation in the Application Guide.

Opportunities Only

When working with opportunities alone, each opportunity record will track the progress and total value of an entire potential business deal. The total deal values will then be used for building forecasts. The opportunities-only model does not use the Revenue Line Items module at all, and changing to the opportunities-only model will permanently remove any data in the Revenue Line Items module from your Sugar instance.

Changing to the Opportunities-Only Model

The following irreversible changes will occur in your Sugar instance as a result of moving from "Opportunities and Revenue Line Items" to "Opportunities" for your opportunity model:

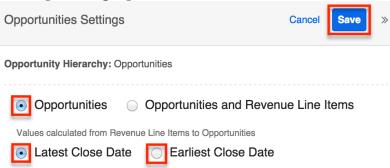
- **Existing revenue line items** : All Revenue Line Item records will be deleted from the system. A note record will be created and related to each opportunity to preserve the individual revenue line item values for the following fields:
 - Likely Amount, Best Amount, Worst Amount
 - Expected Close Date
 - Next Step
 - Sales Stage
 - Probability
- **Custom field data** : Any custom fields you may have created in the Revenue Line Items module will be deleted from your instance and their data values will not be preserved.
- **Sales stages** : The sales stage of an opportunity will be determined by the stages of its former revenue line items as follows:
 - If all related revenue line items were in the "Closed Lost" status, the Opportunity will be marked as "Closed Lost".
 - If all related revenue line items were closed and at least one was "Closed Won", the Opportunity will be marked as "Closed Won".
 - If any of the related revenue line items were still open, the Opportunity will be marked with the least-advanced sales stage.
- **Expected close dates** : You will choose how Sugar should calculate the expected close dates for open opportunities from the following options:
 - **Latest Close Date** : The opportunity will adopt the latest expected close date from its related revenue line items.
 - **Earliest Close Date** : The opportunity will reflect the earliest expected close date from its related revenue line items.
- **Forecasting data** : All existing forecast data will be lost; Forecasting must begin anew after the switch has been made and the notifications indicating

the completion of the back-end tasks have been received.

- Workflows/Advanced Workflows :
 - All workflows involving the Revenue Line Items module will be deleted from your instance.
 - All workflows involving the Opportunities module will be disabled. Please review your workflows after making this change to ensure any necessary workflows are set up with the relevant modules.
 - Advanced Workflow process definitions based on the Revenue Line Items module will cease functioning and any process definitions based on the Opportunities module may no longer work as expected. Affected process definitions should be recreated using the correct module and fields.
- **Dashboards** : Revenue Line Items-based dashlets (e.g. My Revenue Line Items dashlet) will no longer work. Users will need to remove these dashlets from their dashboards to avoid any confusion.

Use the following steps to change your system's opportunity model from "Opportunities and Revenue Line Items" to "Opportunities":

- 1. Navigate to the Admin panel and click on the "Opportunities" configuration link.
- 2. Select the radio button labeled "Opportunities".
- 3. Decide whether the opportunities should adopt the earliest or the latest close dates from their related revenue line items and select the corresponding option.



- 4. Finally, click "Save" and then confirm the action only if you have read all of the notes above and are confident that your instance is prepared for the consequences of changing your opportunity model.
- 5. Wait for Sugar to indicate that the transition is complete by sending an email confirmation to the email address on your user profile and displaying a notification in your <u>Notifications center</u>. Please note that your instance must be <u>configured to send email</u> in order for the notification email to be sent. If your instance is set up for forecasting, Sugar will also notify you when your opportunity records are synced to the Forecasts module and available for new forecasting.

Upon completion, the revenue line items will be gone and a note record will have

been created for and related to each existing opportunity. The notes will summarize the basic information from the deleted revenue line item records. For more information about using opportunities without revenue line items, please refer to the <u>Opportunities</u> and <u>Forecasts</u> documentation in the Professional edition Application Guide.

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Contract Types

Overview

The Contract Types module in Admin > Contract Types enables you to create and manage contract types for the Contracts module. When a contract type is created, it will display in the Type Name field in the Contracts module for users to select. Please note that when a contract record is created with a specific contract type, the related documents to the contract type will also appear in the Documents subpanel of the contract record.

Only administrators or users with developer-level role access have the ability to modify the available contract types and the order in which they appear in the Type Name field. This documentation will cover the basics of the Contract Types module as well as the various options available in performing the actions related to the module.

Contract Type Fields

The Contract Types module contains two stock fields which come out-of-the-box with Sugar. Please note that Contract Type fields are not editable via Admin > Studio as the module does not exist in Studio.

Field	Description
Name	The name of the contract type
<u>List Order</u>	A number to specify the order in which the contract type is displayed in the Type Name field in the Contracts module

Working With Contract Types

The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this Working With Contract Types section describe Contract Types-specific behaviors and functionality.

Content Link	Description
<u>Creating Contract Types</u> <u>Basic Contract Type Creation</u>	The Creating Records section covers the method of creating new contract type records, including via the Create button in the Contract Types module.
<u>Viewing Contract Types</u> <u>Viewing via List View</u> <u>Viewing via Record View</u> <u>Viewing via Recently Viewed</u> <u>Viewing via Preview</u>	The Viewing Records section describes the various methods of viewing contract type records, including via the Contract Types list view and record view, the Recently Viewed menu in the Contract Types module tab, and previewing contract types in the right hand side panel.
<u>Searching for Contract Types</u> <u>List View Search</u> <u>Creating a Filter</u> <u>Saving a Filter</u>	The Searching for Records section provides an introduction to list view search, which searches and filters within the Contract Types module.
Contract Types List View Total Record Count Create Button List View Search Checkbox Selection Mass Actions Menu Column Reordering Column Resizing Column Sorting Column Sorting Column Selection Preview Record Actions Menu More Contract Types Intelligence Pane	The List View section walks through the many elements of the Contract Types List View layout which contains a filterable list of all contract type records in Sugar. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Contract Types list view are described in the List View Mass Actions Menu and List View Record Actions Menu sections of this page.
Contract Types Record View Next or Previous Record Actions Menu Show More Subpanels	The Record View section walks through the many elements of the Contract Types Record View layout which contains detailed information about a single contract type record. While the

Related Record Subpanels Filtering Subpanels Intelligence Pane	generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Contract Types record view are described in the <u>Record View Actions</u> <u>Menu</u> section of this page.
Editing Contract Types Editing Inline via Record View Editing via Record View Editing Inline via List View Editing Fields	The Editing Records section describes the various methods of editing existing contract type records, including inline via the Contract Types record view, in full edit mode on the record view, and inline via the Contract Types list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records.
Deleting Contract Types Deleting via Record View Deleting via List View Mass Deleting via List View	The Deleting Records section describes the various methods of deleting unwanted contract types, including via the Contract Types record view, an individual record's Actions menu on the Contract Types list view, and the Mass Actions menu on the list view.
Exporting Contract Types	The Exporting Records section provides an introduction to the export functionality which allows you to download a list of contract types and all their data as a .csv file for use outside of Sugar (e.g. in Microsoft Excel).
Finding Duplicate Contract Types	The Finding Duplicate Records section provides instructions for locating duplicate contract type records. If searching on matching fields (e.g. Name) identifies one or more duplicates, they can be merged into a single record.
<u>Merging Contract Types</u> <u>Merging via List View</u>	The Merging Records section provides instructions for merging duplicate contract types which will combine field values and related records into a single contract type.
Sharing Contract Types	The Sharing Records section provides instructions for the Share record view option which composes an email with a link to the contract type record. If the recipient is logged into Sugar, clicking

Contract Types Menu

The Contract Types module contains various options and functionality which are available via menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for Contract Types-specific functionality, within this page.

Module Tab Menus

The Contract Type module tab can be accessed by navigating to the Admin page and clicking the Contract Types link in the Contracts section. Once in the Contract Types list view, you can click the triangle in the Contract Type module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important operations within the module. The <u>Recently Viewed menu</u> displays the list of contract type records you most recently viewed.



The module tab's Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Create Contract Type</u>	Opens the record view layout to create a new contract type
<u>View Contract Types</u>	Opens the list view layout to search and display contract types

List View Menus

The Contract Types <u>list view</u> displays all contract type records and allows for searching and filtering to locate specific contract types. You can view the basic details of each record within the field columns of the list view or click a contract type's name to open the record view. To access the module's list view, simply navigate to the Admin page and select "Contract Types" under the Contracts panel. You can also click the module's tab in the navigation bar once the Contract Types module opens.

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual contract type records or click the checkbox in the list header to select all records displayed in the current set of list view results.

Image: Test and te	Name
Merge	
Delete	
Export	

The Mass Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Merge</u>	Merge two or more duplicate contract types
<u>Delete</u>	Delete one or more contract types at a time
<u>Export</u>	Export one or more contract types to a CSV file

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual contract type directly from the list view.

Filter -	Contract Type Search by nam	ne	2 🖩 0
	Name 🜲	List Order	\$ \$
	Standard Agreement	3	۲ (۱)
	Support Agreement	2	Edit
	Service Agreement	1	Delete

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this contract type in the intelligence pane
Edit	Edit this contract type
<u>Delete</u>	Delete this contract type

Record View Actions Menu

The Contract Types <u>record view</u> displays a single contract type in full detail including its fields and subpanels of related records. To access a contract type's record view, simply click the hyperlinked contract type name in the Contract Types list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this contract type
<u>Share</u>	Share a link to this contract type via

	email
Find Duplicates	Locate potential duplicates of this contract type
Copy	Duplicate this contract type to create a new contract type
<u>Delete</u>	Delete this contract type

Ordering Contract Types

When creating contract types, you will define the order in which the contract type option is displayed in the Type Name field of the Contracts module. Enter the numeric value (e.g. 1, 2, 3) in the contract type record's List Order field to determine the order it will display in the contract's Type Name field. For example, a contract type with a list order of "1" will be displayed at the top of the list followed by the next value (e.g. 2), and so forth. Please note that you can change the list order by editing the contract type via the list view or record view.

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Knowledge Base Administration

Overview

Sugar's Knowledge Base module provides the ability to create, maintain, and publish articles. Certain aspects of the Knowledge Base module are only available for administrators or users with developer-level role access including the creation and editing of templates and accessing the Knowledge Base settings. This documentation will cover information and actions specific to Knowledge Base administration.

For more information on actions available to regular users such as creating and editing articles, please refer to the <u>Knowledge Base</u> documentation in the Application Guide. For instructions concerning views and actions which are common across most Sugar modules, such as creating, editing, and deleting

templates, please refer to the <u>Working With KB Templates</u> section of this page.

Working With KB Templates

The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this Working With Knowledge Base section describe Knowledge Base-specific behaviors and functionality.

Content Link	Description
<u>Creating Knowledge Base Templates</u> <u>Basic Knowledge Base Template</u> <u>Creation</u>	The Creating Records section covers how to create new knowledge base templates via the Create button on the list view or the Create option in the module tab.
<u>Viewing Knowledge Base Templates</u> <u>Viewing Via List View</u> <u>Viewing Via Record View</u> <u>Viewing Via Activity Streams</u> <u>Viewing Via Preview</u>	The Viewing Records section describes the various methods of viewing knowledge base templates, including via the Knowledge Base Templates list view and record view, activity stream entries concerning template updates and such, as well as previewing templates in the right hand side panel.
Searching for Knowledge Base Templates List View Search Creating a Filter Saving a Filter	The Searching for Records section provides an introduction to list view search, which searches and filters within the Knowledge Base Templates list view.
Knowledge Base Templates List View Total Record Count Create Button List View Search Checkbox Selection Mass Actions Menu Favorite Designation Column Reordering Column Reordering Column Sorting Column Sorting Column Selection Preview Record Actions Menu More Knowledge Base Templates Activity Stream	The List View section walks through the many elements of the Knowledge Base Templates List View layout which contains a filterable list of all knowledge base template records in Sugar. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Knowledge Base Templates list view are described in the List View Mass Actions Menu and List View Record Actions Menu sections of this page.

Dashboards	
Knowledge Base Templates Record View Favorite Designation Following Designation Next or Previous Record Actions Menu Show More Activity Stream Dashboards	The Record View section walks through the many elements of the Knowledge Base Templates Record View layout which contains detailed information about a single knowledge base template record. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Knowledge Base Templates record view are described in the <u>Record View Actions</u> <u>Menu</u> section of this page.
Editing Knowledge Base Templates Editing Inline Via Record View Editing Via Record View Editing Inline Via List View Mass Editing Via List View Editing Fields	The Editing Records section describes the various methods of editing existing knowledge base template records, including inline via the knowledge base template record view, in full edit mode on the record view, inline via the Knowledge Base Templates list view, and via the Mass Update option on the list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records.
Deleting Knowledge Base Templates Deleting Via Record View Deleting Via List View Mass Deleting Via List View	The Deleting Records section describes the various methods of deleting unwanted knowledge base templates, including via the Knowledge Base Templates record view, an individual record's Actions menu on the Knowledge Base Templates list view, and the Mass Actions menu on the list view.
Exporting Knowledge Base Templates	The Exporting Records section provides an introduction to the export functionality which allows you to download a list of knowledge base template records and all their data as a .csv file for use outside of Sugar (e.g. in Microsoft Excel).
<u>Merging Knowledge Base Templates</u> <u>Merging Via List View</u>	The Merging Records section provides instructions for merging duplicate knowledge base templates which will

	combine field values and related records into a single template.
<u>Viewing Knowledge Base Template</u> <u>Audit Logs</u>	The Viewing Record Change Logs section describes the View Change Log record view option which displays a history of changes to the knowledge base template's audited fields.
Favoriting Knowledge Base Templates Favoriting Via List View Favoriting Via Record View	The Favoriting Records section describes the various methods of marking knowledge base templates as favorites, including via the Knowledge Base Templates list view or Knowledge Base Templates record view. Favoriting a knowledge base template allows you to easily access it from the list view.
Following Knowledge Base Templates Following Via List View Following Via Record View	The Following Records section describes the various methods of marking knowledge base template's as "Following", including via the Knowledge Base Template's list view and record view. Following a knowledge base template record causes its activity stream updates to be included on your Home page and Knowledge Base Template list view activity streams so that you can easily keep up with changes and user posts on the record.
Sharing Knowledge Base Templates	The Sharing Records section provides instructions for the Share record view option which composes an email with a link to the knowledge base template record. If the recipient is logged into Sugar, clicking the link will bring them directly to the knowledge base template's record view.
<u>Using the TinyMCE Text Editor</u>	The Using the TinyMCE Text Editor section describes how to use the built-in WYSIWYG to build and customize the contents of your knowledge base template.

KB Template Menus

The Knowledge Base Templates section contains various options and functionality which are available via menus in the list view and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for Knowledge Base Templates-specific functionality, within this page.

List View Menus

The Knowledge Base Templates <u>list view</u> displays all knowledge base template records and allows for searching and filtering to locate specific templates. You can view the basic details of each record within the field columns of the list view or click an template's name to open the record view. To access a module's list view, simply click the Knowledge Base module's tab in the navigation bar at the top of any Sugar page and select "View Templates".

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual template records or click the checkbox in the list header to select all records displayed on the current set of list view results.

Filter - Create Search by name				
□ ▼ Name	\$	Date Created		
Mass Update		2015-12-11 15:47		
Merge		2015-12-11 15:59		
Delete		2015-12-11 16:49		
Export		2015-12-11 16:51		

The Mass Actions menu allows you to perform the following operations:

Mass update one or more templates at a time
Merge two or more duplicate templates

Delete	Delete one or more templates at a time
Export	Export one or more templates to a CSV file

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual template directly from the list view.

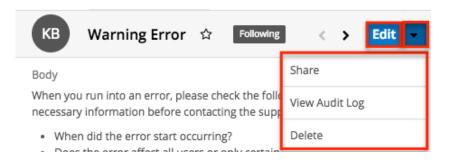
Name	Date Created	•	Date Modified	\$	¢
How To	2015-12-11 15:47		2015-12-11 16:49		۰ -
Cases	2015-12-11 15:59		2015-12-11 Edit		
FAQs	2015-12-11 16:49		2015-12-11 Follo	w	
Internal Articles	2015-12-11 16:51		2015-12-11 Delet	e	

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview this template in the intelligence pane
Edit	Edit this template
Follow	Follow this template
Delete	Delete this template

Record View Actions Menu

The knowledge base template <u>record view</u> displays a single template in full detail including its fields and the activity stream. To access a template's record view, simply click a hyperlinked template name from anywhere within Sugar. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.



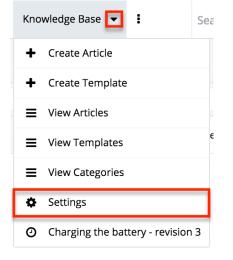
The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this template
Share	Share this template
<u>View Audit Log</u>	View a record of changes to this template
<u>Delete</u>	Delete this template

Settings

You have the option to add, edit, or delete different languages for article records in the Settings section. This is helpful if articles are to be translated into multiple languages. When one or more additional languages have been added, users can <u>create localization articles</u>. It is important to note that when a language is deleted from the available languages, all localization articles created with that language will also be deleted.

To access the Settings page, click the triangle in the Knowledge Base module tab to open the Actions menu and select "Settings".



The Knowledge Base Settings drawer will appear which allows you to edit, add, or remove languages for the Knowledge Base module. To add a new language, click the "+" icon and enter the Language Code and Language Label. To remove a language, select the "-" icon. Click "Save" to finalize any changes made.

Knowledge Base	Settings	Cancel	Save	»
Available languages	:			
1. Edit languages				
Language Code	Language Label			
en	English	*	_	
de	Deutsch	*		F

You can also set a language as primary by selecting the star to its far right. The primary language is set in the Language field by default for all new articles.

Knowledge Base	e Settings	Cancel	Save	»
Available language	S:			
1. Edit languages				
Language Code	Language Label	Set Value as	Primary	
en	English		-	
de	Deutsch	*	-	+

Last Modified: 2018-04-06 23:06:29

Tag Management

Overview

Tags are user-created keywords or phrases that can help users find, group, and classify large amounts of data by common attributes that may not be defined via basic database fields. Sugar stores tags as individual records in the Tags module. Modules using the Sidecar user interface (e.g. Accounts, Contacts, etc.) contain a

Tags field where users can create and share tags that can be used to identify records in filters, dashlets, and reports. For a list of sidecar modules, please refer to the <u>User Interface</u> documentation in the Application Guide.

While tags can be created and used by regular Sugar users, some actions in the Tags module are only available to administrators and users with developer-level role access. This documentation will cover these administration options which allow you to manage the system-wide tag repository. For information about tag functionality which is available to regular users, please refer to the Tags documentation in the Application Guide. For instructions concerning views and actions which are common across most Sugar modules, such as creating, editing, and deleting tags, please refer to the <u>Working With Tags</u> section of this page.

Note: The Tags module is not configurable in Studio.

Understanding Tag Behavior

The act of relating a tag to a Sugar record is referred to as "tagging". By default, modules using the Sidecar user interface (e.g. Contacts, Leads, Accounts, etc.) are enabled for tagging and include the Tags field in the layout. Tags can be related to multiple records across any sidecar module, so a single tag can appear on multiple records. Likewise, a single record can have multiple tags. Unlike other Sugar modules, users can see all tag records regardless of their team memberships. Additionally, users will be able to edit Tag fields to add existing tags or create new tags regardless of any role restrictions their user has for the Tags module.

Please note that only administrators and users with developer-level role access may create, edit, merge, and delete tags in the Tags module. To assign a Tags Administrator role to a Sugar user, please refer to the <u>Creating a Tags</u> <u>Administrator</u> section of this page.

Note: While the "Find Duplicates" functionality is disabled for all users of the Tags module, users with administrator access to the Tags module can find and merge duplicate tag records via list view. For more information on merging records, refer to the <u>User Interface</u> documentation.

For more information on tag usage guidelines and interacting with tags in Sugar, please refer to the <u>Tags</u> documentation in the Application Guide.

Tag Fields

The Tags module contains a number of stock fields that come out-of-the-box with Sugar. The definitions below are suggested meanings for the fields, but the fields

can be leveraged differently to best meet your organization's needs.

Field	Description
Name	The name or designation of the tag
Assigned To	The Sugar user assigned to the tag record
Date Created	The date the tag record was created
Date Modified	The date the tag record was last modified
Description	A description or other information about the tag

Working With Tags

The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this Working With Tags section describe Tagsspecific behaviors and functionality.

Content Link	Description
<u>Creating Tags</u> <u>Basic Tag Creation</u> <u>Importing Tags</u>	The Creating Records section covers the various methods of creating new tag records, including via the Create button in the Tags module and importing a list of tags into Sugar using a .csv spreadsheet.
<u>Viewing Tags</u> <u>Viewing via List View</u> <u>Viewing via Record View</u> <u>Viewing via Recently Viewed</u> <u>Viewing via Dashlets</u> <u>Viewing via Preview</u> <u>Viewing via Reports</u>	The Viewing Records section describes the various methods of viewing tag records, including via the Tags list view and record view, the Recently Viewed menu in the Tags module tab, list view dashlets showing tag information, previewing tags in the right hand side panel, and reports displaying tag data.
<u>Searching for Tags</u> <u>List View Search</u> <u>Creating a Filter</u> <u>Saving a Filter</u>	The Searching for Records section provides an introduction to list view search, which searches and filters within the Tags module. Note : For information on using tags as global search filters, please refer to the

	Tags_documentation in the Application Guide.
Tags List ViewTotal Record CountCreate ButtonList View SearchCheckbox SelectionMass Actions MenuFavorite DesignationColumn ReorderingColumn ResizingColumn SortingColumn SelectionPreviewRecord Actions MenuMore TagsDashboards	The List View section walks through the many elements of the Tags List View layout which contains a filterable list of all tag records in Sugar. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Tags list view are described in the List View Mass Actions Menu and List View Record Actions Menu sections of this page.
Tags Record View Favorite Designation Next or Previous Record Actions Menu Subpanels Related Record Subpanels Filtering Subpanels Reordering Subpanels Dashboards	The Record View section walks through the many elements of the Tags Record View layout which contains detailed information about a single tag record. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Tags record view are described in the <u>Record View Actions</u> <u>Menu</u> section of this page.
Editing Tags Editing Inline via Record View Editing via Record View Editing Inline via List View Mass Editing via List View Editing Fields	 The Editing Records section describes the various methods of editing existing tag records, including inline via the Tags record view, in full edit mode on the record view, inline via the Tags list view, and via the Mass Update option on the list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records. Note: If the tag's name is edited, all records related to the tag will automatically display the updated tag value.
<u>Deleting Tags</u> <u>Deleting via Record View</u> <u>Deleting via List View</u>	The Deleting Records section describes the various methods of deleting unwanted tags, including via the Tags

<u>Mass Deleting via List View</u>	record view, an individual record's Actions menu on the Tags list view, and the Mass Actions menu on the list view.
Exporting Tags	The Exporting Records section provides an introduction to the export functionality which allows you to download a list of tags and all their data as a .csv file for use outside of Sugar (e.g. in Microsoft Excel).
<u>Merging Tags</u> <u>Merging via List View</u>	The Merging Records section provides instructions for merging duplicate tags which will combine field values and related records into a single tag. Note : Date Created and Date Modified field types are not supported when merging duplicate Tag records in Sugar.
<u>Viewing Tag Audit Logs</u>	The Viewing Record Audit Logs section describes the View Audit Log record view option which displays a history of changes to the tag's audited fields. Note : Only the Assigned User Id field is audited for the Tags module and will be displayed in the audit log.
<u>Favoriting Tags</u> <u>Favoriting via List View</u> <u>Favoriting via Record View</u>	The Favoriting Records section describes the various methods of marking tags as favorites, including via the Tags list view or Tags record view. Favoriting a tag allows you to easily access it from list views, dashlets, or the Tags module tab.
<u>Sharing Tags</u>	The Sharing Records section provides instructions for the Share record view option which composes an email with a link to the tag record. If the recipient is logged into Sugar, clicking the link will bring them directly to the tag's record view.

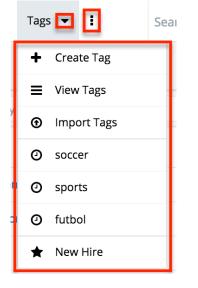
Tag Menus

The Tags module contains various options and functionality which are available via

menus in the module tab, list view, and record view. The following sections present each menu and its options with links to more information about each option in the User Interface documentation or, for Tags-specific functionality, within this page.

Module Tab Menus

The Tags module tab is typically found by clicking the arrow to the right of the navigation bar tabs at the top of any Sugar screen. The additional modules will appear on the list and you can click "Tags" to access the list view. Once the Tags module tab displays on the navigation bar, you can click the triangle within the tab to display the Actions, Recently Viewed, and Favorites menu. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed</u> <u>menu</u> displays the list of tags you most recently viewed. The <u>Favorites menu</u> displays the list of tags you most recently marked as favorites.



The module tab's Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Create Tag</u>	Opens the record view layout to create a new tag
<u>View Tags</u>	Opens the list view layout to search and display tags
Import Tags	Opens the import wizard to create or update tags using external data

If you do not see the Tags module tab in Sugar, please check the following:

• The Tags module may be marked as hidden in your user preferences which will prevent the module tab from being displayed. Navigate to your user

profile (upper right of Sugar), click the Advanced tab, and check the Layout Options section. If you see the Tags module in the Hide Modules list, simply move it to the Display Modules list and save. For more information on hiding and displaying modules, please refer to the <u>Layout Options</u> section of the Getting Started documentation in the Application Guide.

• The Tags module may be disabled for your entire Sugar instance. Enable the Tags module and add the Tags field to related module layouts. For more information on displaying and hiding modules throughout Sugar, please refer to the <u>Developer Tools</u> documentation.

List View Menus

The Tags <u>list view</u> displays all tag records and allows for searching and filtering to locate specific tags. You can view the basic details of each record within the field columns of the list view or click a tag's name to open the record view. To access a module's list view, simply click the module's tab in the navigation bar at the top of any Sugar page.

List View Mass Actions Menu

The Mass Actions menu to the right of the checkbox option in the list header allows you to perform mass actions on all currently selected records. You can use the checkbox on each record's row to select individual tag records or click the checkbox in the list header to select all records displayed on the current set of list view results.

✓ ▼ Name	\$
Mass Update	ected all 20
Merge	nference
Delete	nference
Export	

The Mass Actions menu allows you to perform the following operations:

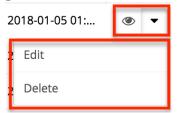
Menu Item	Description
Mass Update	Mass update one or more tags at a time
<u>Merge</u>	Merge two or more duplicate tags
Delete	Delete one or more tags at a time

Export	Export one or more tags to a CSV file

Note: While the "Find Duplicates" functionality is disabled for all users of the Tags module, users with administrator access to the Tags module can find and merge duplicate tag records via list view. For more information on merging records, refer to the <u>User Interface</u> documentation.

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual tag directly from the list view.

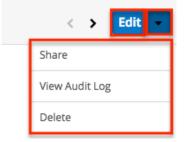


The options in the Record Actions menu allow you to perform the following operations:

Menu Item	Description
Preview	Preview this tag in the intelligence pane
Edit	Edit this tag
Delete	Delete this tag

Record View Actions Menu

The Tags <u>record view</u> displays a single tag in full detail including its relevant fields and subpanels of related records. To access a tag's record view, simply click a hyperlinked tag name from the Tags list view, Tags list view dashlet, or from report results. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this tag
Share	Share a link to this tag via email
View Audit Log	View a record of changes to this tag
Delete	Delete this tag

Consolidating Synonymous Tags

Sugar prohibits users from saving duplicate tag records, but with many users working in and importing new records to Sugar, it is possible for synonymous tag records (e.g. computer and computers) to accidentally occur in the system.

Before creating a new tag record, a good practice is to first check that a similar tag does not already exist in Sugar. You can locate candidates for cleanup using the list view search from the Tags list view. Searching for tags with similar names or other information can turn search into a powerful, duplicate-finding tool. If synonymous tag records are detected, perform a merge as described in the <u>User Interface</u> documentation.

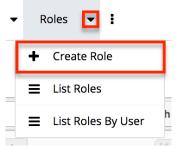
Note: While the "Find Duplicates" functionality is disabled for all users of the Tags module, users with administrator access to the Tags module can find and merge duplicate tag records via list view.

Creating a Tags Administrator

By default, only administrator or developer users have the ability to create, edit, delete, and merge tags in the Tags module. It may be helpful to delegate these administrative tasks to one or more designated user(s) without giving them full administrative permissions in Sugar.

Use the following steps to create a Tags Administrator role:

- 1. Navigate to Admin > Role Management.
- 2. Click the triangle in the Roles module tab and select "Create Role".



- 3. Enter a name (e.g. Tags Administrator) for the role then click "Save".
- 4. On the Role Chart screen, click "Tags" in the module's list to the far left of the page.

ne paye.
<u>Quotes</u>
Revenue Line Items
<u>Tags</u>
Target Lists
Targets

5. The following screen will display the role settings specific to the Tags module. The Access and Access Type columns will default to "Not Set". Click the "Not Set" in both columns and select the following options::

• Access : Enabled

Note • Alcotess Type settings can remain as "Not Set" since the Admin access type will ensure full access to the remaining options.

ccounts							
	Tags						
lugs							
alls	Save Cancel						
ases	Access	Access	Tuno	Delete	Edit		Expor
ategories		_					
ontacts	Enabled 🗘	Admin	\$	Not Set	Not Set		Not Se
ontracts	Field Permissions	-					
ocuments	rieid Permissions						
xternal Accounts		Assigned to [+]	Not Set		Created By [+]	Not Set	
nowledge Base		Modified By [+]	Not Set		Favorite [+]	Not Set	
eads	- Exte	rnal source ID [+]	Not Set	F	External source meta [+]	Not Set	
leetings			101001			1101 001	
lotes							
lotifications							
opportunities							
roduct Categori							
roject Tasks							
rojects							
uoted Ling Items							
luotes							
tevenu Line Items							
ags							

- 6. Click "Save" to preserve the changes.
- 7. Scroll to the Users subpanel on the bottom of the screen and click "Select User". Search and select the user(s) you wish to assign this role to.

Select User			(0 - 0 of 0))
Name 😄	User Name 🌲	Email	Phone \ominus
No data			

8. After selecting the user(s), navigate to the user's profile to view their access information via the Access tab. Confirm that the Tags Administrator role is displayed in the Roles subpanel and the Tag module's access is set to "Admin".

Revenue Line Items	Enabled	Normal	All	All	All	All	All	All	All
Tags	Enabled	Admin	All	All	All	All	All	All	All
Target Lists	Enabled	Normal	All	All	All	All	All	All	All
Targets	Enabled	Normal	All	All	All	All	All	All	All
Tasks	Enabled	Normal	All	All	All	All	All	All	All
Tracker Performance	None	None	None	None	None	None	None	All	None
Tracker Queries	None	None	None	None	None	None	None	All	None
Tracker Sessions	None	None	None	None	None	None	None	All	None
Trackers	None	None	None	None	None	None	None	All	None
Users/Teams/Roles	Enabled	Normal	All	All	All	All	All	All	All
Web Logic Hooks	Enabled	Normal	All	All	All	All	All	All	All
≈ Roles									
Select							K	(1 - 2 of 2)))))
Name 🗢	Desc	ription							
Sales Administrator	Sales	Administrator	Role						edit 💌
Tags Administrator									edit 💌

Any user assigned to the Tags Administrator role will have the ability to access increased functionality such as creating, editing, deleting, and merging records in the Tags module. For more information on creating roles, please refer to the <u>Role Management</u> documentation.

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Employee Records

Overview

Sugar's Employees module consists of individual people within your organization. The Employees module allows you to see a list of all employees, their contact information, and their employment status in one convenient location. Employee records are typically created when a user record is created, but users with administrative access can also add non-user employees. This means that, typically, all users will be listed as employees, but not all employees are necessarily Sugar users.

As the Employees module contains internal information about your company, not specifically Sugar, it is not subject to <u>team</u> and <u>role</u> restrictions.

Employee Fields

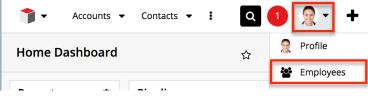
The Employees module contains a number of stock fields which come out-of-thebox with Sugar. The below definitions are suggested meanings for the fields, but the fields can be leveraged differently to best meet your organization's needs. Fields can be altered, added, or removed via Admin > Studio. For more information on configuring fields, please refer to the <u>Studio</u> documentation in the Administration guide.

Field	Description
City	The city of the employee's address
Country	The country of the employee's address
Department	The department where this employee works
Email Address	The employee's email address
Employee Status	The employee's employment status in the organization, either: Active, Terminated, or Leave of Absence
Fax	The employee's fax number
First Name	The employee's first name
Home Phone	The employee's home phone number
IM Name	The employee's instant message screen name
ІМ Туре	The employee's instant message client type
Last Name	The employee's last name
Mobile	The employee's mobile phone number
Notes	A description or other information about this employee

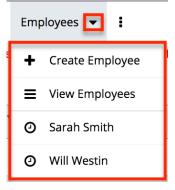
Office Phone	The employee's office phone number and extension
Other	An additional phone number for the employee
Picture	A picture, headshot, or identifying image of the employee
Primary Address	The number and street of the employee's address
Postal Code	The postal code of the employee's address
Reports to	This field list's the employee's manager, if the manager is a Sugar user
State	The state of the employee's address
Title	The employee's job title

Employees Module Tab

The Employees module tab can be accessed by clicking your profile icon and selecting "Employees" in the user menu.



Once in the Employees list view, you can click the triangle in the Employees module tab to display the Actions and Recently Viewed menus. The Actions menu allows you to perform important actions within the module. The <u>Recently Viewed</u> <u>menu</u> displays the list of employees you last viewed in the module. Please note that clicking the module tab allows you to access the Employees list view.



The Actions menu allows you to perform the following operations:

Menu Item	Description
	Opens the edit view layout to create a new employee
<u>View Employees</u>	Opens the list view layout to search and display employees

Creating Employees

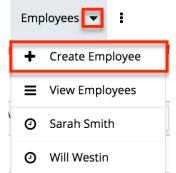
There are various methods for creating employees in Sugar including via the Employees module, the Users module, and duplication. The full edit view layout opens when creating the employee directly from the Employees menu and includes all of the relevant fields for your organization's employees. The edit view layout can be configured via Admin > Studio. For more information on configuring layouts, please refer to the <u>Studio</u> documentation.

Creating Via Employees Module

One of the most common methods of employee creation is via the Create Employee option in the Employees module tab. This opens up the edit view layout which allows you to enter in all the relevant information for the employee.

Use the following steps to create an employee via the Employees module:

1. Click the triangle in the Employees module tab and select "Create Employee".



- 2. Enter appropriate values for the fields in the edit view layout. All required fields are marked with a red asterisk and must be completed prior to saving.
- 3. Once the necessary information is entered, click "Save".

Create		
Save	el	
Employee Status:	Active	\$
First Name:	Joseph	

Creating Via Users Module

When a user is created, an employee record is also created by default using the relevant fields from the user record to be populated on the employee record. The field in the Users module that controls this is the "Display Employee Record" field. For more information on creating users, please review the <u>Users</u> documentation.

	mation		
Employee Status:	Active	\$ Display Employee Rec	ord: 🥑
Title:	President	Work Phone:	(408)

Creating Via Duplication

You can also create a new employee by duplicating an existing employee record. The Copy option is useful if the employee you are creating has similar information to an existing employee.

Use the following steps to create an employee by duplicating an existing record:

- 1. Navigate to an employee record's detail view.
- 2. Click the Actions menu and select "Copy".

» Will	Westir	ו
Edit 💌]	
Сору		
Delete	e Status:	Active
	Name:	Will Westin

3. The displayed edit view is pre-populated with the original employee's values. Update the necessary fields, then click "Save".

Create	
Save Cance	
Employee Status:	Active
First Name:	Will

Viewing Employees

There are various options available for viewing employee records in Sugar including via Employees list view, Employees detail view, and the Employees Recently Viewed menu. Please note that you will only be able to access these views by first clicking on the Employees button after clicking on your user name in the top right side of Sugar.

Viewing Via List View

The Employees list view displays all employee records meeting the current search criteria. To access the list view, simply click the Employees option under your user name on the module tab bar. While list view shows key employee fields, you can click the employee's name to open the record in detail view. For more information on viewing employees via list view, please refer to the <u>Employees List View</u> section of this documentation.

Viewing Via Detail View

The Employees detail view displays thorough employee information by showing all employee fields. The detail view can be reached by clicking an employee record's link from the Employees list view. For more information on viewing employees via detail view, please refer to the <u>Employees Detail View</u> section of this documentation.

Viewing Via Recently Viewed

As you work, Sugar will keep track of which employees you have recently viewed. Click the triangle in the <u>Employees module tab</u> to see a list of the 3 records you most recently viewed in the module. Clicking the record's name (e.g. Will Westin) within the list will open it in detail view.

Employees 🔽 🗸			
+	Create Employee		
≡	View Employees		
0	Sarah Smith		
0	Jim Brennan		
0	Will Westin		

Searching Employees

The Employees list view includes a Basic and Advanced Search to help you locate records easily and effectively in a module-specific manner. Once the search is performed, the relevant results will be displayed in the Employees list view below. Please note that Sugar automatically appends the wildcard character (%) to the end of your search phrase. This allows the system to retrieve all records that start with the keyword entered in the search. If you would like to broaden the search, you can use the wildcard at the beginning of your text as well (e.g. %services). This will pull up any record that has the word "services" in the name, regardless of how it starts or ends.

For more information on using the various search methods as well as how wildcards are used in the different methods, please refer to the \underline{Search} documentation.

Basic Search

Basic search offers a few, commonly used fields for a simplified search experience. From the Basic Search panel, you can click "Advanced Search" to access additional search functionality as needed.

The buttons and checkboxes available in Basic Search panel have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.
- Active Employees : Select this box to return only records where Employee Status is Active.

Search Employees				
Name	Active Employees	Search	Clear	Advanced Search

When you run a search, Sugar will return records matching all (as opposed to any) of the fields and checkboxes for which you have given a value. For example, if you select "Active Employees" and enter an employee's name, Sugar will only return employee records with a matching name that are active. Once the search is complete, the relevant results will populate in the <u>list view</u> below the search panel. To see all employee records, simply click "Clear" and then "Search" to perform a blank search with no filters.

Administrators can configure what fields appear on the Employees Basic Search via Admin > Studio. For more information on editing layouts, please refer to the <u>Studio</u> documentation in the Administration guide

Advanced Search

Advanced Search offers a more in-depth search experience than Basic Search including additional fields, layout options, and saved search capability. From the Advanced search panel, you can click "Basic Search" for simplified searching.

The buttons, checkboxes, and dropdowns available in Advanced Search have the following functions:

- **Search** : Click the Search button or press your Return/Enter key to perform the search.
- **Clear** : Click the Clear button to clear all criteria from the searchable fields.
- Active Employees : Select this box to return only records where Employee Status is Active.
- **Layout Options** : Use the expandable Layout Options section to configure your list view. For more information, please refer to the <u>Layout Options</u> section of the Search documentation.
- **Saved Searches** : Save, recall, update, and delete searches which you use often. For more information, please refer to the <u>Saved Search</u> section of the Search documentation.

First Name	Last Name		Active Terminated Leave of Absence
Title	Any Phone	Department	
Any Email	Any Address	City	
State	Postal Code	Country	
∀ Layout Options	Save search as:	Modify current search:	Update Delete

When you run a search, Sugar will return records matching all (as opposed to any) of the fields and checkboxes for which you have given a value. For example, if you select "Active Employees" and enter an employee's name, Sugar will only return employee records with a matching name that are active. Once the search is complete, the relevant results will populate in the <u>list view</u> below the search panel. To see all employee records, simply click "Clear" and then "Search" to perform a blank search with no filters.

Administrators can configure what fields appear on the Employees Basic Search via Admin > Studio. For more information on editing layouts, please refer to the <u>Studio</u> documentation in the Administration guide.

Employees List View

The Employees list view displays all employee records meeting the current search criteria. You can view the basic details of each employee within the field columns.

You have the option to change what fields are displayed in the list view by configuring your layout options in the <u>Employees advanced search</u>. For more information on configuring your list view, please refer to the <u>Layout Options</u> section of the Search documentation. Users with administrator or developer access also have the ability to change what fields are visible in the list view via Admin > Studio. For more information on editing layouts, please refer to the <u>Studio</u> documentation in the Administration guide.

Pagination

List view displays the current search results broken into pages that you can scroll through rather than displaying potentially thousands of rows at once. To the right just below the search panel you can see which records of the total results set are currently being displayed. The two single-arrow Next and Previous buttons can be used to scroll through the records page-by-page. The two double-arrow First Page and Last Page buttons allow you to skip to the beginning or the end of your current results.

By default, Sugar displays 20 records per list view page, but administrators can change the number of records displayed via Admin > System Settings. For more information on changing the number of displayed records, please refer to the <u>System</u> documentation in the Administration guide.

Name	Active Employees	Search	Clear	Advanced Search	. ?
Mass Update 💌					(K) (1 - 20 of 125) ()))

Checkbox Selection

You can perform actions on employee records directly from the list view by first selecting the desired records. To select individual employee records on the Employees list view, mark the checkbox on the left of each row. To select or deselect multiple case records on the list view, use the options in the checkbox dropdown menu:

- **Select This Page** : Selects all records shown on the current page of case results.
- **Select All** : Selects all records in the current search results across all pages of case results.
- **Deselect All** : Deselects all records that are currently selected.



Actions Menu

The Actions menu to the right of the checkbox dropdown allows you to perform actions on the currently selected records.

	Mass Update			
	Export			
I	Chris Olliver			

The options in the Actions menu allow you to perform the following operations:

Menu Item	Description
-	Mass update one or more employees at a time
Export	Export one or more employees to a CSV file

Column Sorting

List view provides the ability to sort all of the current search results by a field column in either ascending or descending order. To sort by a field or switch the sort direction, click the column header noting that the fields which allow sorting will have a pair of arrows. The list view may be sorted by only one column at a time. You can also set a default order-by column using the layout options in Advanced Search. For more information on setting a default column sort, please refer to the Layout Options section of the Search documentation.

Employees Detail View

The Employees detail view displays thorough employee information by way of all employee fields grouped into one page.

Users with administrator or developer access have the ability to change the detail view by configuring the layout via Admin > Studio. For more information on editing layouts, please refer to the <u>Studio</u> documentation in the Administration guide.

Next or Previous Record

On the upper right of the Employees detail view, there are two buttons that allow you to page through each employee in the Employees list view's current search results. Clicking the Previous button displays the previous employee of the current search results while clicking the Next button displays the next employee of the current search results. The text in between shows which employee result you are currently viewing within the total number of current results.

» Chris Olliver



Editing Employees

Administrators may edit employees at any time to update or add information to the record. You can make changes to existing employee records via the Employees edit view and quick create forms. Edit view is available within the Employees module and includes all of the Employees fields you should need.

Joseph Kelly » Edit

Save Cancel Save and Continue				
Employee Status:	Active 🗘	Picture:	Choose File No file chosen	
First Name:	Joseph	Last Name: *	Kelly	
Title:	President	Office Phone:	(408)555-9876	
Department:	N/A	Mobile:	(408)555-1234	

Quick create is available for editing employees from the <u>Employees list view</u> and opens as a pop-up without navigating away from your current page. It generally contains fewer fields, but the Full Form button may be used to access the full edit view should you need to edit additional fields.

oseph Kelly					
Employee Status:	Active 💠)		Title:	President
First Name:	Joseph			Last Name: *	Kelly
Department:	N/A			Work Phone:	(408)555-9876
Reports to:				Email Address:	+ joseph@sugar.com
Save	Full Form				
📄 🧭 Sarah Smi	th	Sales Manager West	Jim Brennan	sarah@exam	ple.com Ac

You may configure both the Employees edit view and quick create via Admin > Studio. For more information on configuring layouts, please refer to the <u>Studio</u> documentation in the Administration guide.

Editing Via Detail View

You can edit employees via the <u>detail view</u> by clicking the Edit button on the upper left of the page. Once the edit view layout is open, update the necessary fields, then click "Save" to preserve your changes.

» Joseph Kelly			
Edit 💌			
Employee Status:	Active		
Name:	Joseph Kelly		

» Joseph Kelly

Editing Via List View

You can edit employees via the <u>list view</u> by clicking the Pencil icon to the left of each employee's name. A pop-up window will open with the quick create form which is a shortened version of the edit view layout. Update the necessary fields, then click "Save" to preserve your changes.

Team Name	¢	Description 🗢
Global		Globally Visible

Deleting Employees

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If an employee record is invalid or should no longer appear in your organization's Sugar instance, it may be deleted from the Employee's detail view. Deleting employee records will also delete the User record that this employee was related to.

Use the following steps to delete an employee record via the detail view:

- 1. Navigate to an employee record's detail view.
- 2. Click the Actions menu and select "Delete".

» Will	Westir	1
Edit 💌		
Сору		
Delete	e Status:	Active
	Name:	Will Westin

3. A pop-up message will display asking for confirmation and alerting you that the User record will also be deleted. Click "Ok" to proceed.

Exporting Employees

Sugar's Export option allows administrators to download all fields for the selected employees to their computers as a CSV (comma-separated values) file. This may be useful when needing to use Employee data with other software such as Microsoft Excel. Due to PHP memory limitations on the server, there may be occasions when the application times out while exporting a large number of employee records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Employees may be exported from the Employees list view by selecting "Export" from the Actions menu. For more information on exporting records in Sugar, please refer to the <u>Export</u> documentation.



Mass Updating Employees

Mass Updating allows administrators to make the same change to multiple employee records at once from the Employees list view. Administrators can control which fields are available to change during mass update via Admin > Studio. Currently, only fields with the data type of date, datetime, dropdown, multiselect, and radio may be altered during a mass update. For more information on configuring mass update, please refer to the <u>Studio</u> documentation in the Administration guide. Due to the PHP memory limitations on the server, there may be occasions when the application times out while mass updating a large number of employee records. If you encounter an error when performing this action, we recommend selecting the records in smaller batches.

Use the following steps to mass update employee records from the list view:

- 1. Navigate to the Employees list view by clicking the Employees module tab.
- 2. Use the list view's <u>Basic</u> or <u>Advanced Search</u> to find employees you wish to modify.
- 3. Select the desired employees individually or using the <u>checkbox</u> <u>dropdown's</u> options.
- 4. Choose "Mass Update" from the Actions menu.



5. Scroll to the Mass Update panel and set values for the fields you wish to alter.

Display Employee Record	-none- 🛊		Employee Status:	-none- 💠)
Reports to		Select	Preferred Language:	-none-	÷
Update Cano	el				

6. Click "Update" to save the changes to all of the currently selected employee records.

Mass Update

Advanced Workflow

Overview

Sugar's Advanced Workflow (formerly known as Sugar Process Author) enables administrators to streamline common business processes by managing approvals, sales processes, call triaging, and more. Advanced Workflow is an easy-to-use business process management (BPM) and workflow tool that adds advanced BPM functionality to Sugar.

Note: Sugar's Advanced Workflow is exclusive to Enterprise and Ultimate editions of Sugar.

The Advanced Workflow suite features an extensive toolbox of modules that provide the ability to easily create digital forms and map out robust workflows. The drag-and-drop interface requires no programming experience.

This documentation contains the following pages:

- Advanced Workflow (current page)
- Process Definitions
- <u>Process Business Rules</u>
- <u>Process Email Templates</u>

Additionally, the <u>Processes</u> page of the Application Guide contains documentation for the user-facing elements of Advanced Workflow, and the <u>Knowledge Base</u> contains several business use-case tutorials on how to design some common workflow processes for your organization.

Scope

This documentation only defines relevant BPM terminology and the concepts used specifically for Sugar's Advanced Workflow modules. It is not intended for general BPM educational purposes, and should not be used as a complete BPM modeling resource.

Prerequisites

• Basic knowledge of process design is required.

- Basic knowledge of process standards such as BPMN is preferred. BPMN is a flowchart-based notation used to define business processes within an organization.
- You should know which business processes you want to automate in Sugar.

Core Concepts

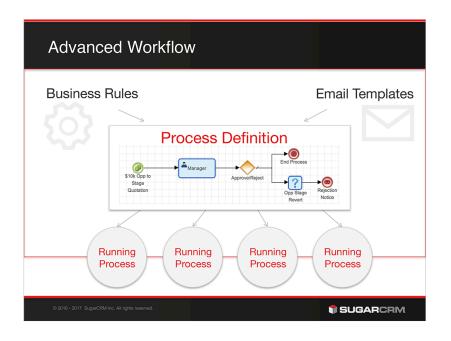
A business process is a set of logically related tasks that are performed in order to achieve a specific organizational goal. It presents all of the tasks that must be completed in a simplified and streamlined format. Advanced Workflow empowers Sugar administrators to automate vital business processes for their organization. Some examples of business processes that can be automated using Advanced Workflow include invoice approvals, lead routing, customer service case routing, and automated reminders and escalations.

Advanced Workflow Modules

In order to seamlessly automate business processes, the Advanced Workflow suite leverages four interconnected process-related modules. The <u>Process Business</u> <u>Rules</u> module and the <u>Process Email Templates</u> module are used to create rules and email templates that will be referenced by records created in the <u>Process</u> <u>Definitions</u> module. Once a process definition has been created, it will generate a record in the <u>Processes</u> module each time the process definition is triggered.

The Process Business Rules, Process Email Templates, and Process Definitions modules can be viewed and configured by any system administrator user. In addition, regular users with a role that provides developer access to one or more modules will be able to access all Advanced Workflow functions for those modules. Regular users without developer role permissions will only have access to the Processes module. For more information about roles, please review the <u>Role Management</u> documentation.

The following image illustrates the relationship between the Advanced Workflow modules:



The following table describes the four Advanced Workflow modules and their intended use. To learn more about any of the modules, click on the hyperlinked module name.

Note: We recommend reading this page in its entirety before moving on to other Advanced Workflow sections.

Module	Description
Process Definitions	A process definition defines the steps in an overall business process. Process definitions are created by a Sugar administrator. The process definition consists of a network of activities and their relationships, criteria to indicate the start and end of the process, and information about the individual activities (e.g., participants) contained within the business process.
Processes	A process is a running instance of a process definition. A single process begins every time a process definition is executed. For example, a single process definition could be created to automate quote approvals, but because users may engage in several quote approvals per day, each approval will be represented by a separate process instance, all

governed by the single process definition. In other words, the Processes module is the many-to-one (M:1) child module of Process Definitions.

The Processes module is the only Advanced Workflow module that is visible to regular users. From the Processes dashlet and module list view, they will be able to see running processes if there is anything for them to approve, reject, or review.

There are three ways an administrator can view a list of processes:

- **Processes module list view :** List views for the Processes module display processes that require the logged-in user to take approve, reject, or review action. Admin users, like regular users, will only see the processes that are waiting for them. List views can be accessed by navigating to Processes > View Processes.
- <u>Processes dashlet</u> : This dashlet displays processes that require the logged-in user to take approve, reject, or review action. Admin users, like regular users, will only see the processes that they need to act upon.
- Process Management page : This is the one place in Sugar where an administrator can see all running, cancelled, and completed processes. From the Process Management page, the admin can also monitor process status, reassign or cancel an inprogress process, or repair processes in an error state. The Process Management page is accessible via the Admin >

	Advanced Workflow panel or via the Processes module tab by clicking on "Process Management".
Process Business Rules	A process business rule is a reusable set of conditions and outcomes that can be embedded in a process definition. The set of rules may enforce business policy, make a decision, or infer new data from existing data. For example, if Sally manages all business opportunities of \$10,000 or more, and Chris manages all business opportunities under \$10,000, a process business rule can be created and used by all relevant process definitions to ensure that the assignment policy is respected. In the case of an eventual personnel change, only the process business rule will need to be edited to affect all related processes.
Process Email Templates	A process email template is required in order to include a Send Message event in a process definition. Sugar's core product includes several places where email templates can be created for different purposes, but Advanced Workflow requires all sent messages to be created via the Process Email Templates module.

Basic Visual Notation Elements

Advanced Workflow depends on process definitions created by the administrator using a Visual Designer tool. When complete, the design will graphically display a collection of flow elements that connect with each other to define and regulate a business process in Sugar.

Start Event	Activity	Gateway	End Events
>\$10k Opp	Manager	Approve/Reject	End Process
moves to stage			Rejection
Quotation			Notice

The following table defines the different types of flow elements that are available when creating a process definition in the Visual Designer.

Element	Symbol	Definition
Events		An Event is something that happens during the course of a business process. Events affect the flow of the Process and usually have a trigger and/or a result. They can start, interrupt, or end the flow of a process.
		An Event is represented by a circle in the Visual Designer.
<u>Start Events</u>		The Start event indicates where a process will begin. It defines the action that will trigger the Process. The Start event will always be triggered by a record in the Sugar module selected as the process definition's Target Module.
		Note: A process definition's target module will be the same module that is used for the Start event.
		A Start event is represented by a green

		circle on the Visual Designer canvas.
Intermediate Events		As the name suggests, Intermediate events occur after a process starts but before the process is complete. Intermediate events that are placed within the overall process flow represent things that happen during the normal operation of the process such as sending messages, receiving messages, or mandatory waiting periods.
		Intermediate events are represented by blue circles in the Visual Designer.
Activities	Activity	The only unit of work that may require a user response (opposed to automation) is an Activity. It is a moment within a flow where a user must decide if a circumstance is approved or rejected, or review a record that has been routed to them.
		Activities are represented by rounded-corner rectangles in the Visual Designer.
Actions		Actions are automated elements used to execute a business rule, create or update a Sugar record, or identify a process user. Actions are completed by the Advanced Workflow engine and do not require any human interaction to

<u>Gateways</u>	execute. Actions are represented by rounded-corner squares in the Visual Designer. Gateway elements are
	 used to control the flow of a process via merging and splitting. When several activities may result in a common outcome, a gateway serves as a merging mechanism, or a "converging" element. When a single activity may result in several different outcomes, a gateway serves as a splitting mechanism, or a "diverging" element. A Gateway is represented by a diamond in the Visual
	Designer.
<u>End Events</u>	End events signal completion of a process. There are three end-event options: Do Nothing, Terminate Process, or Send Message. An End event is represented by a red circle in the Visual Designer.

Basic Steps to Automate a Business Process

It is important to understand how all of the modules and elements of the Advanced Workflow suite will work together. Here is the best-practice chronology of the overall procedure for automating business processes in Sugar using Advanced Workflow:

1. <u>Create an Advanced Workflow Dashboard</u> : Before using Advanced

Workflow for the first time, create a new dashboard specific to Advanced Workflow for easy, one-stop access to all automated business processes and their components.

- 2. <u>Create and Configure a Process Business Rule</u>: (optional) Create at least one Process Business Rule that will be used in a process definition. For example, automated lead assignments might require a process business rule to define which lead source values will be assigned to which user.
- **3.** <u>Create and Configure a Process Email Template</u> : (optional) Prepare at least one Process Email Template for processes that require alerts or notifications.</u>
- **4.** <u>Create and Configure a Process Definition</u>: Using the Process Designer canvas, create the visual design of the overall business process that you want to automate. The process definition may make use of Process Business Rules and Process Email Templates created in previous steps.
- 5. <u>Process Management</u> : With all of the Advanced Workflow modules now working in harmony, administrators can navigate to the Process Management page to monitor process status, reassign or cancel an inprogress process, or repair processes in an error state. Users can monitor the <u>Processes dashlet</u> for activities that are queued or awaiting feedback.

Creating an Advanced Workflow Dashboard

Before getting started, we recommend that the administrator user creates an Advanced Workflow-specific dashboard on their home page. This will allow the administrator to easily manage Process Definitions and their supporting modules all in one place. Regular users who may be engaged in running processes should place the <u>Processes dashlet</u> on their home pages to stay abreast of activities requiring their attention.

↑ Accounts Contacts Opportunities Lead	is 🕶 E Search Q 🚺 🧟 🕶 🕇
Advanced Workflow Dashboard	★ Create ▼
Processes ¢	Process Definitions + 🌣
Current Overdue	My Process Definitions All Process Definitions
1 O My Processes Self Service Processes	3 0 Enabled Disabled
Process # 4 - Leak in water pipe Administrator a few seconds ago Escalate to Mgr Case Escalation Due in an hour	Idle Account Send Message Accounts, Administrator created 41
	Case Escalation Cases, Administrator created an hour ago
	New Account Processing Accounts, Administrator created an hour ago
Process Business Rules + 🌣	Process Email Templates + 🌣
My Process Business Rules All Process Business Rules	My Process Email Templates All Process Email Templates
1 Process Business Rules Single Hit	1 Process Email Templates
Lead Routing Country Leads, Administrator created an hour ago	New Account Welcome Email Accounts, Administrator created 41 minutes ago

Processes Dashlet

This is the only Advanced Workflow dashlet available to regular users. It is important for all users who may be engaged in a process to place this dashlet on their home screens. Open, running processes and self-service processes waiting to be acted upon by the logged-in user will be listed in this dashlet.

Note: Users (including administrators) will see only the processes that immediately require their attention.

To add a Processes dashlet, please refer to the <u>Dashboards and Dashlets</u> documentation, choosing "Processes" from the Add a Dashlet page.

Process Definitions	The Process Definitions dashlet displays due n		
Processes	The Processes dashlet displays due now, upc	۲	

After saving the dashlet and its containing dashboard, the dashlet will offer several process-specific management tools:

Processes	0
Current Overdue	
2 My Processes	0 Self Service Processes
Process # 5 - Big Deal! 7(Jim Brennan Needs Jim Approval Discount Approval Process	
Process # 6 - Underwater Jim Brennan Needs Jim Approval Discount Approval Process	

- **Current** : Click on this button to view all processes that are running within the expected timeframe.
- **Overdue** : Click on this button to view all processes that have a due date in the past. The label "Overdue" and the due date will be displayed adjacent to the process description.
- **My Processes** : View this tab to view the running processes upon which the logged-in user must act. Self-Service processes are not displayed here.
 - To execute a Process from the dashlet, click on the name of the process. Please note that admin users cannot see processes running for other users via the dashlet. To access the system's exhaustive list of running and completed processes, refer to the <u>Process</u> <u>Management</u> section of this documentation.
- **Self Service Processes** : View this tab to view only the running processes in queue to be claimed by a user. Self-Service processes are configured inside the User Activity element settings of the related process definition.
- **Process Description** : Running processes are displayed in list view format with descriptive fields including the unique process number, the name of the affected Sugar record, the process title, the responsible user's name, and the label of the relevant process step.
- **Due Date** : When a due date exists it will appear adjacent to the process description.

Process Definitions Dashlet

You must be an administrator user to add this dashlet to your home page. To add a Process Definitions dashlet, please refer to the <u>Adding Dashlets</u> section of the Intelligence Pane documentation, choosing "Process Definitions" from the Add a Dashlet page.

Process Business Rules	The Process Business Rules dashlet displays due	۲
Process Definitions	The Process Definitions dashlet displays due now,	۲
Processes	The Processes dashlet displays due now, upcomin	۲

After saving the dashlet and its containing dashboard, the dashlet will offer several Advanced Workflow-specific administration tools:

Process Definitions (admin)	+ 0
My Process Definitions All Process Definition	•
1 Enabled	0 Disabled
Get Approval on Opportunity Opportunities, Administrator created on 01/05/201	15 11:14am 🖋 🗶 😗 🚯

• Actions Menu : Click on the plus (+) icon to access the "Create Process Definitions" and "Import Process Definitions" options. Please note that imports for this module must have a .bpm file extension.



- My Process Definitions : Click on this button to list all process definitions created by the current admin user.
- All Process Definitions : Click on this button to list all process definitions created by any admin user.
- **Enabled** : View this tab to view a list of process definitions that are currently enabled in the system.
- **Disabled** : View this tab to view a list of process definitions that are currently disabled in the system. Disabling a process definition will prevent it from triggering new processes. Any running processes related to the disabled process definition will pause in an In-Progress state until the process definition is re-enabled.
- Process Definition Shortcut Buttons
 - $\circ~$ Design : Click on this icon to edit the process definition via the Visual Designer.



 Delete : Click on this icon to delete the adjacent process definition. A confirmation message will appear on the top of the screen; click "Confirm" to delete the process definition or click "Cancel" to close the message without deleting.



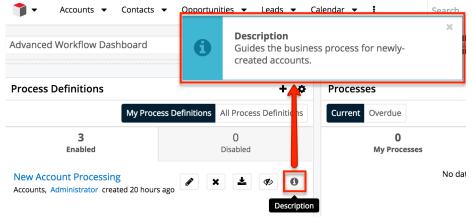
 $\circ~{\bf Export}: {\rm Click}~{\rm on}~{\rm this}~{\rm icon}~{\rm to}~{\rm export}~{\rm the}~{\rm process}~{\rm definition}~{\rm to}~{\rm a}~{\rm .bpm}~{\rm file}.$

×	*	I	0
ſ	Export		

- **Disable/Enable** : Click on this icon to disable an active process definition or to enable an inactive one. Disabled process definitions will be listed in the "Disabled" tab.
 - All process definitions are disabled by default and must be enabled by an administrator. For more information, please refer to <u>Enabling Process Definitions</u>.
 - Disabling a process definition will prevent it from triggering new processes. Any running processes related to the disabled process definition will pause in an In-Progress state until the process definition is re-enabled.



 Description : Click this icon to open a blue alert window that displays the admin-specified description of the process definition. To close the description dialogue, click on the x in the corner of the message.



Process Email Templates Dashlet

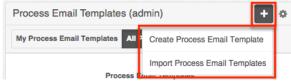
You must be an administrator user to add this dashlet to your home page. To add a Process Email Templates dashlet, please refer to the <u>Adding Dashlets</u> section of the Intelligence Pane documentation, choosing "Process Email Templates" from the Add a Dashlet page.

Process Email Templates	Process Email Templates dashlet displays the te	۲
Processes	Processes dashlet displays the templates that ca	۲

After saving the dashlet and its containing dashboard, the dashlet will offer several Advanced Workflow-specific administration tools:

Process Email Templates (admin)	+ 0
My Process Email Templates All Process Email Templates	
4 Process Email Templates	
Account referencing Contact Accounts, Administrator created on 01/09/2015 5:10pm	1 x ± 0
Purchase Confirmation to Customer Opportunities, Administrator created on 01/09/2015 1:34pm	1 x ± 0
Quote Approval Message Quotes, Administrator created on 01/08/2015 7:21pm	1 x ± 0
Quote Rejection Message	1 × ± 0

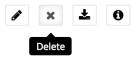
• Actions Menu : Click on the plus (+) icon to access the "Create Process Email Template" shortcut.



- My Process Email Templates : Click on this button to list all email templates created by the current admin user.
- All Process Email Templates : Click on this button to list all email templates created by any admin user.
- Process Email Template Shortcut Buttons
 - **Edit** : Click on this icon to edit the template record from record view. It is then possible to access the template designer from the record view.



Delete : Click on this icon to delete the adjacent email template. A confirmation message will appear on the top of the screen; click "Confirm" to delete the email template or click "Cancel" to close the message without deleting.



 $\circ~{\bf Export}: {\rm Click}~{\rm on}~{\rm this}~{\rm icon}~{\rm to}~{\rm export}~{\rm the}~{\rm process}~{\rm email}~{\rm template}~{\rm to}~{\rm a}$.pet file.

×	*	0
1	Export	

• **Description** : Click this icon to open a blue alert window that displays the admin-specified description of the process email template. To close the description dialogue, click on the X in the corner of the message.

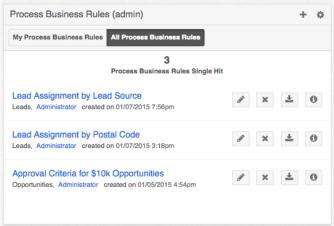
ø	×	*	0
		D	escription

Process Business Rules Dashlet

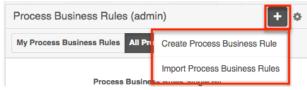
You must be an administrator user to add this dashlet to your home page. To add a Process Business Rules dashlet, please refer to the <u>Adding Dashlets</u> section of the Intelligence Pane documentation, choosing "Process Business Rules" from the Add a Dashlet page.

Process Business Rules	The Process Business Rules dashl	۲
Process Definitions	The Process Definitions dashlet dis	۲

After saving the dashlet and its containing dashboard, the dashlet will offer several Advanced Workflow-specific administration tools:



• Actions Menu : Click on the plus (+) icon to access the "Create Process Business Rule" shortcut.



- My Process Business Rules : Click on this button to view business rules created by the logged-in admin user.
- All Process Business Rules : Click on this button to view business rules created by any admin user.
- Business Rules Shortcut Buttons
 - **Edit** : Click on this icon to edit the rule configuration from the Business Rules Builder interface.



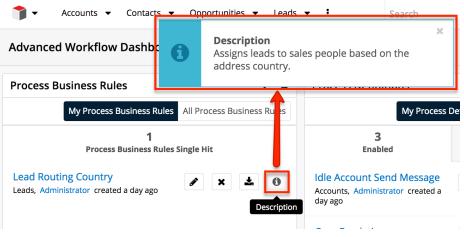
Delete : Click on this option to delete the adjacent business rule. A confirmation message will appear on the top of the screen; click "Confirm" to delete the process business rule or click "Cancel" to close the message without deleting.



• **Export** : Click on this icon to export the process business rule to a .pbr file.



 Description : Click this icon to open a blue alert window that displays the admin-specified description of the process business rule. To close the description dialogue, click on the X in the corner of the message.



Process Management List View

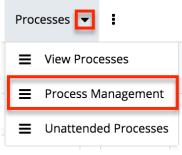
For processes, the admin user is restricted to the same access as a regular user in the Processes module. This means that in Processes list view and the Processes dashlet, the admin user will not see processes unless they have participated in that process or they are expected to participate in it.

The exhaustive list of open and completed processes is accessible only via the admin's Process Management page. This page can be accessed from two places in Sugar:

• Admin > Advanced Workflow > Process Management:

Configure Advanced Workflow settings and view logs. Manage all BPM processes for all users via Process Management.							
<u>Settings</u>	Configure Advanced Workflow settings.	Process Management	View all open and running Processes in the system.				
Log Viewer	Access the Advanced Workflow log.						

• The Processes module tab's actions menu:



The following columns are available from the Process Management page:

Process Number 🖕	Process Definition Name	Pecord Name Ø	Status	0	Date Created	÷	Assigned To	٥	Process User	Process Owner
340	Ignored Case Alert	test case	CANCELLED		2015-03-27 19:30		Jen Smith			Jen Smith
339	tasks for use	HotelSeven Mar 27	IN PROGRESS		2015-03-27 17:00		Anwesa Chatterjee			Anwesa Chatterjee
337	Customer Onboarding Tasks	HotelSeven test 001	ERROR		2015-03-27 17:00		Enrique Ponce De Leon			Enrique Ponce De Leon
336	tasks for use	HotelSeven test 001	COMPLETED		2015-03-27 17:00		Enrique Ponce De Leon			Anwesa Chatterjee
338	Customer Success Tasks	HotelSeven test 001	IN PROGRESS		2015-03-27 17:00		Enrique Ponce De Leon		Enrique Ponce De Leon	Enrique Ponce De Leon
335	Customer Stage Decide Tasks	HotelSeven test 001	TERMINATED		2015-03-27 16:56		Enrique Ponce De Leon			Anwesa Chatterjee

- **Process Number** : Similar to a case number, this is a unique autoincrement number assigned to the process in the order it was triggered by the Advanced Workflow. This field is not related to the Sugar system ID field.
- **Process Definition Name** : The name of the originating process definition that triggered the process.
- **Record Name** : The related Sugar module record to which the process applies.
- **Date Created** : The date and time that the process was triggered.

- **Assigned To** : The user who is assigned to the Sugar record that triggered the process's Start event.
- **Process User** : The user who is responsible for executing the current activity in a running process if a Route or Approval activity is running.
- **Process Owner** : The administrator who created the process definition (not necessarily affiliated with the running process).
- Status

COMPLETED COMPLETED : The process has successfully reached an end event and is no longer running.

CANCELLED CANCELLED : An administrator user has chosen to cancel this process.

IN PROGRESS IN PROGRESS : The process is currently open and running.

TERMINATED TERMINATED : The record that triggered the process has been deleted or merged.

ERROR : The process has encountered a configuration problem and is paused.

Record Actions Menu

The Record Actions menu to the right of each record's Preview button allows users to view vital process information, re-direct processes, and navigate to the process execution screen directly from the list view.

Process Num 👻	Process Definit	Record Name	Status	\$	Date Cr	٥
1	2 wk send mes	Meeting for sp	IN PROGR	ESS	2018-08	• •
				History	/	
				Show N	Notes	
				Select	New Proc	ess User
				Cancel		

Menu Item	Description
<u>Preview (eye icon)</u>	See an image of the current process and how it has progressed within the overall flow.
History	Launch the Process History window, which provides a historical summary of the process's lifecycle.
Show Notes	Display user-created comments and add

	your own.
Select New Process User	Display all of the process users who have engaged with the process and, optionally, reassign its current activity to a new process user. To reassign the process after clicking this option, select a new value for the "Process User" field and then click "Done".
Execute	Available only for processes in an Error state, the "Execute" option allows an administrator to re-commence the flow of a process that has been stopped due to an error. This option should only be used after the condition that caused the error has been corrected.
Cancel	Terminate the process occurrence.

Preview

Administrators can view the progression of a process within the overall flow directly from the Processes list view by clicking the Preview icon to the far right of each process list row. A color-coded representation of the process' design layout will display to the right of the list view providing key information regarding the stages that have already been completed, the current stage of the process, and the stages that have yet to execute.

The executed and in-progress stages of the process will be displayed in color, while skipped or not-yet-executed stages will be presented in a grayed out style.

Process Manag	gement				>>	Preview	< > ×
Fields - All Sea	arch					Process design Preview	^
Process Number	Process Definition Name	Record Name	Status	Date Created	¢ 0	1	
13	Re-route idle cases	Warning message	IN PROGRESS	2015-02-08 15:27	•	-m	×@
12	Re-route idle cases	Warning message	IN PROGRESS	2015-02-08 15:08	• •	A mode juit A mode juit Perreal Jis secret	Send Approal Notifications End funct
3	Discount Approval Proc	Underwater Partne	ERROR	2015-02-04 20:42		Tf discount total is greater then even to December of the events december	Find Count
5	Re-route idle cases	System not respon	IN PROGRESS	2015-02-08 15:28	• •	B now works Evaluate the is created total discount second total is from then HK 600 total created total cr	⊨ (25) Send Represal Rectifications
1	Case Approval	Send user's manual	IN PROGRESS	2015-02-06 15:23	•	Anothe Oricia Peprenal Oricia Apprenal Oricia Apprenal	Rotification?
3	Discount Approval Proc	Process Quote	ERROR	2015-02-04 19:56	•	⇒ []# Excent rsjecteb	b (1) Send Fightlinn alartt
10	Case Approval	Needs spare parts	IN PROGRESS	2015-02-06 15:22	•	L	

Note: To view the process design layout in more detail, simply click on the preview image to open a full-sized version of the flow in a new browser tab.

On the upper right of the intelligence pane, there is a Left and Right arrow button that allows you to scroll through the list view's current search results by previewing the next or previous record. To close the preview, simply click the "X" on the upper right of the intelligence pane.

Searching Processes

The Process Management list view includes a module search to help you locate running, completed, and incomplete processes easily and effectively. Once the search is performed, the relevant results will be displayed in the list view below.

Unlike the standard Sugar filter, the Process Management search bar will query all Process fields by default with the exception of "Record Name", which is technically a field from a related module. Furthermore, Sugar automatically assumes a wildcard character (%) at both the beginning and the end of your search phrase for processes. This means that, for example, a search for "error" will return processes named "Approve Error Resolution" as well as processes that are in an "Error" status.

Process Mar	nage	ement				
Fields - All	error					
Process Number	\$	Process Definition Name	\$ Record Name	Status	•	Date Created
18		Approve Error Resolution	5000 Unit Sale	IN PROGRESS		2015-02-10 13:07
6		Discount Approval Process	Underwater Partnership	ERROR		2015-02-04 20:42

The search also provides a Filter option that can be used in combination with the open Search box to narrow your search further using the available options as follows:

- All : Returns all processes.
- **Processes Completed** : Returns only processes with a status of "Completed".
- **Processes Terminated** : Returns only processes with a status of "Terminated".
- **Processes In Progress** : Returns only processes with a status of "In Progress".
- **Processes Cancelled** : Returns only processes with a status of "Cancelled".
- **Processes Error** : Returns only processes with a status of "Error".

ilter All Search												
NI	er cess Definition Name	φ	Record Name	¢ s	Status	φ	Date Created	÷	Assigned User	Φ	<	¢
Processes Completed	route idle cases		Having trouble addin	1	IN PROGRESS		2015-02-08 17:11		Loohu		۲	
Processes Terminated	route idle cases		Having trouble addin	1	COMPLETED		2015-02-08 15:35		Loohu		۲	
Processes In Progress	route idle cases		System not responding	1	IN PROGRESS		2015-02-08 15:28		Loohu		۲	-
Processes Cancelled	route idle cases		Need assistance wit	1	IN PROGRESS		2015-02-08 15:28		Loohu		۲	
Processes Error	route idle cases		Warning message w	1	IN PROGRESS		2015-02-08 15:27		Loohu		۲	

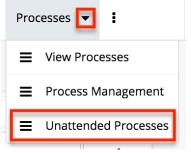
When you choose a filter, Sugar will return processes that match both the selected filter and any name provided in the "Search..." bar in the filtered list view results. For example, if you select "Processes Completed" in the Filter options and enter a search query, Sugar will only return processes that contain a match to the search query and have a Completed status. To see all processes, simply select "All" in the filter and remove any text from the search bar. You can also click the X that appears within the search bar. When you run a search using a saved filter, the search will not be preserved when you navigate away from the module. Returning to the Process Management page will automatically display all unfiltered results.

Unattended Processes

An unattended process is a running process instance that has been interrupted because an activity is dependent upon the response of an inactive or deleted user. If an activity is encountered within a process, and the activity's process user record's status is "Deleted" or "Inactive" or its employee status is "Not Active", the process will be considered unattended. The activity cannot be completed unless the administrator designates a new process user.

Note: While an unattended process will also appear in the <u>Process Management</u> list, its status will remain "In Progress" and will not indicate that it is in an unattended state.

The list of unattended processes is accessible via the admin's Unattended Processes page. This page can only be accessed from the Processes module tab's actions menu:



To select a new process user for an unattended process, follow these steps:

- 1. From the Unattended Processes list view, expand the actions menu for the row that contains the unattended process.
- 2. Click on "Select New Process User".

Unatter	nded Processes					
Filter -	All Search					
	Process Num 👻	Process Definit 🜲	Record Name	Assigned To	Process User 🜲	٥
	2	lead approval	Mamasand Da	Administrator	Administrator	۰ 🔽
	1	lead approval	Jill Bird	Administrator	Ac Select New Pro	cess User

3. After a brief pause, the Select New Process User widget will appear.

Select I	New Process User							Cancel	Done
Filter -	All Search								
	Current Activity	-	Activity Delegate D \$	Expected Time	¢	Due Date	Process User	¢	¢
	Activity # 1		2015-05-01 22:14:55			2015-05-02 22:14:55	Chris Olliver	× -	
								۹	
							Search for me	ore	

4. Find and select the name of the new process user and then click Done.

The updated process should no longer be visible in the Unattended Processes list, and the new process user will see the activity in their Processes dashlet and list view.

Terminated vs. Cancelled Processes

Advanced Workflow automatically terminates a process when the record related to the process' Start event is deleted. The associated process will be removed from the Processes dashlet and the process record will display "Terminated" in the Status column of the Process Management list view. Processes may also be terminated as a result of meeting conditions specified in the Process Termination settings. For more information, please refer to the <u>Process Definitions</u> documentation.

Cancelled processes, on the other hand, have been intentionally stopped by the administrator. The associated process will be removed from the Processes dashlet and the process record will display "Cancelled" in the Status column of the Process Management list view.

Importing and Exporting Advanced Workflow Module

Records

Advanced Workflow supports import/export functionality for records in all modules except the Processes module, which only contains running instances of process definitions. To import records into the Process Definitions, Process Email Templates, or Process Business Rules modules, the import file must be formatted as the appropriate proprietary file type, as shown in the table below. All exported records will download as the appropriate file type.

Note: Please refer to the article <u>Exporting and Importing a Process Definition</u> for important notes about version compatibility for Advanced Workflow imports.

Advanced Workflow Module	Supported File Extension
Process Definitions	.bpm
Process Email Templates	.pet
Process Business Rules	.pbr

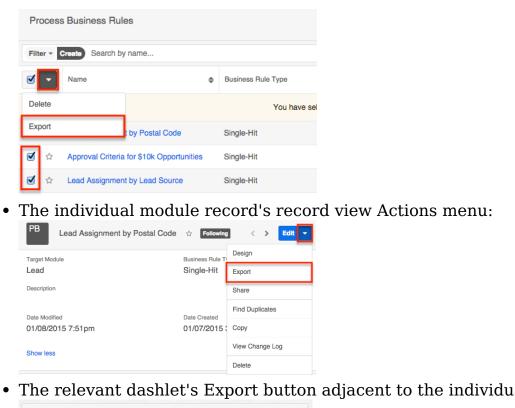
Due to the proprietary nature of these file types, only files that have been exported from a Sugar instance can be imported into a Sugar instance. For example, an administrator may choose to design process definitions in a sandbox or development instance before moving them to a production environment. For this, the files would be exported from the dev instance as .bpm files and then imported into the production instance's Process Definitions module.

Advanced Workflow module records can be exported from any of the following locations:

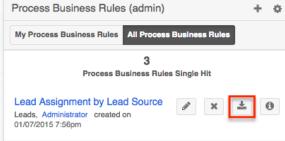
• The individual module record's list view Actions menu:

Process Business Rules Create >>							
Filter -	Create Search by name				⊞ 0		
•	Name	\$	Bus	iness Rule Type	٥		
	Lead Assignment by Postal Code		Sing	gle-Hit	• -		
□ ☆	Approval Criteria for \$10k Opportunities		Sing	Design			
	Lead Assignment by Lead Source		Sing	Edit			
				Export			
				Delete			

• The relevant module's list view Actions menu:



The relevant dashlet's Export button adjacent to the individual record: •

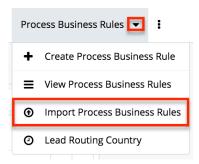


Advanced Workflow module records can be imported via either of the following locations:

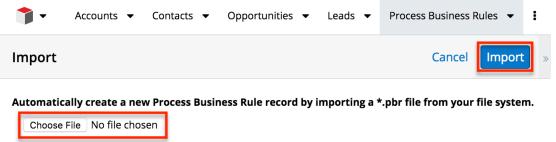
• The Actions menu on the relevant module's dashlet:

Process Business Rules (admin)	+ 0
My Process Business Rules All Process B	Create Process Business Rule
3 Process Business R	Import Process Business Rules
Lead Assignment by Lead Source Leads, Administrator created on 01/07/2015 7	:56pm 💉 🛓 🛈

• The relevant module tab's Actions menu:



After clicking "Import [Process Module Name]", you will be prompted to find the import file on your local drive. Click "Choose File" and select the file with the appropriate file extension, and then click "Import" to finish. A green banner will momentarily appear on the screen to indicate that the import was successful. The imported record(s) will be immediately available via list view and dashlet.



Importing Related Advanced Workflow Records

Process Definitions may contain references to Business Rules and Email Templates. These relationships are lost when the Process Definition is imported. Even if the Business Rules and Email Templates are imported prior to importing the Process Definition, the relationships are not automatically reestablished in the imported Process Definition due to the assignment of new identifiers for imported records. All relationships must be manually reestablished.

Please refer to the article <u>Exporting and Importing a Process Definition</u> for complete steps to export and then import a process definition and its related records.

Advanced Workflow Settings

To configure Advanced Workflow settings, navigate to the Admin page, then select "Settings" under the Advanced Workflow panel.

Advanced Workflow

Configure Advanced Workflow settings and view logs. Manage all BPN

<u>Settings</u>	Configure Advanced Workflow settings.
Log Viewer	Access the Advanced Workflow log.

Administrators will be automatically directed to the Advanced Workflow setting:

• Error Number of Cycles : Specify how many times a process can loop before the system stops the process definition.

By default, this is set to 10. Please note that increasing the number of cycles could negatively affect performance.

Advanced Workflow	Cancel Save	
Error Number of Cycles	10	

Advanced Workflow Log Viewer

Administrators and developers can gain insight into the performance of the Advanced Workflow engine by viewing the Advanced Workflow log. To access the Advanced Workflow Log Viewer, navigate to the Admin page and click "Log Viewer" under the Advanced Workflow panel.

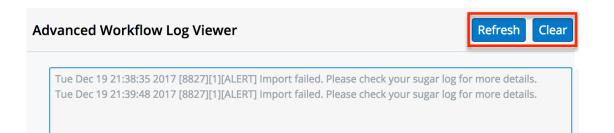
Advanced Workflow

Configure Advanced Workflow settings and view logs. Manage all BPM

Settings	Configure Advanced Workflow settings.		
Log Viewer	Access the Advanced Workflow log.		

There are two options on the Log Viewer page:

- **Refresh** : Refreshes the log view, loading the last records.
- **Clear** : Permanently deletes all log history. This cannot be undone.



The log level is set to Critical, which is equivalent to Sugar's Fatal log level and starts recording events as soon as Advanced Workflow has been installed. A developer can update the system config.php to change Advanced Workflow settings including "logger_level", "error_number_of_cycles", and "error_timeout". Changes that are made to config.php are honored in real time.

Advanced Workflow Scheduler

Schedulers in Sugar automate the execution of system processes. Schedulers are available only to administrative users and can be accessed by navigating to Admin > Schedulers. Advanced Workflow Scheduled Job is responsible for processes associated with Advanced Workflow. It is active and runs as often as possible by default. The Advanced Workflow Scheduled Job will check for any active timebased process events (e.g. Wait events, Send Message events, and Receive Message events) in a pending state. If any processes meet this criterion, the scheduler will ensure the process flow continues.

For more information about Sugar schedulers, please refer to the <u>Schedulers</u> documentation. For more information on troubleshooting the Advanced Workflow Scheduled Job, please refer to the <u>Troubleshooting Wait Events in Advanced</u> <u>Workflow</u> article.

Note: Process events processed by this scheduler will be run by the admin user (user id = '1') in Process History unless the admin user is disabled.

Advanced Workflow Blacklisted Fields

As the SugarBPM functionality evolves, certain fields and field types that were available in earlier versions may be prohibited in later versions for data integrity purposes. Please be sure to stay up to date with the <u>SugarBPM Blacklist</u> for a list of the blacklisted items in SugarBPM modules and the Sugar version in which they were removed.

Last Modified: 2020-05-15 19:06:19

Process Business Rules

Overview

The Process Business Rules module is one of four modules that make up Sugar's Advanced Workflow (formerly known as Sugar Process Author), Sugar's business process management tool that enables administrators to streamline common business processes by managing approvals, sales processes, call triaging, and more. The Process Business Rules module is used to create reusable rules that will be referenced by records created in the <u>Process Definitions</u> module. The rule or set of rules may enforce business policy, make a decision, or infer new data from existing data.

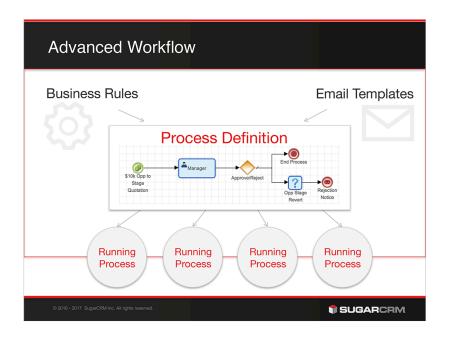
Before continuing, please read the <u>Advanced Workflow</u> overview page, which defines critical vocabulary and other elements that may be referenced in this article.

This documentation contains the following pages:

- <u>Advanced Workflow</u>
- Process Definitions
- Process Business Rules (current page)
- Process Email Templates

Additionally, the <u>Processes</u> page of the Application Guide contains documentation for the user-facing elements of Advanced Workflow. Please note that Advanced Workflow is exclusive to Enterprise and Ultimate editions of Sugar.

The following image illustrates the relationship between all of the Advanced Workflow modules:



Process Business Rule Fields

The Process Business Rules module contains the following fields:

Field	Description
Assigned To	The Sugar user assigned to the process business rule
Business Rule Type	Specifies how a rule set will be evaluated. This field defaults to "Single Hit", meaning that each row will be evaluated independently in descending order. When a rule in the rule set evaluates as true, the evaluation process stops and that rule's conclusions are executed.
Date Created	The date the process definition record was created
Date Modified	The date the process definition record or its design was last modified
Description	A description or other information about the process definition
Name	A unique and descriptive name
Target Module	The module that will be used for the Start event in the process definition

Working With Process Business Rules

The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this Working With Process Business Rules section describe business rule-specific behaviors and functionality.

Content Link	Description
<u>Viewing Process Business Rules</u> <u>Viewing via List View</u> <u>Viewing via Record View</u> <u>Viewing via Recently Viewed</u>	The Viewing Records section describes various methods of viewing business rule records, including via the Process Business Rules list view and record view, the Recently Viewed menu in the Process Business Rules module tab. For information on viewing the rule(s) defined within the Rules Builder, please refer to the <u>Designing Process Business</u> <u>Rules</u> section of this page.
<u>Searching for Process Business Rules</u> <u>List View Search</u> <u>Creating a Filter</u> <u>Saving a Filter</u>	The Searching for Records section provides an introduction to list view search, which searches and filters within the Process Business Rules module.
Process Business Rules List View Total Record Count Create Button List View Search Favorite Designation Column Reordering Column Resizing Column Sorting Column Sorting Column Selection Preview Record Actions Menu More Process Business Rules Intelligence Pane	The List View section walks through the many elements of the Process Business Rules List View layout which contains a filterable list of all process business rule records in Sugar. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Process Business Rules list view are described in the <u>List View Record</u> <u>Actions Menu</u> section of this page.
Process Business Rules Record View Favorite Designation Next or Previous Record Actions Menu	The Record View section walks through the many elements of the Process Business Rules Record View layout which contains detailed information

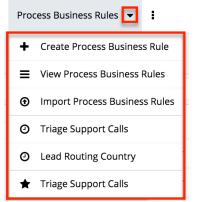
<u>Show More</u> <u>Intelligence Pane</u>	about a single business rule record. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Process Business Rules record view are described in the <u>Record</u> <u>View Actions Menu</u> section of this page.
Editing Process Business Rules Editing Inline via Record View Editing via Record View Editing Inline via List View Editing Fields	The Editing Records section describes the methods of editing existing business rule record fields: inline via the Process Business Rules record view, in full edit mode on the record view, and inline via the Process Business Rules list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records. For information on editing the rules defined in the Rules Builder, please refer to the <u>Designing Process Business</u> <u>Rules</u> section of this page.
<u>Deleting Process Business Rules</u> <u>Deleting via Record View</u> <u>Deleting via List View</u>	The Deleting Records section describes two ways to delete business rules: via the Process Business Rules record view and via an individual record's Actions menu on the list view.
<u>Favoriting Process Business Rules</u> <u>Favoriting via List View</u> <u>Favoriting via Record View</u>	The Favoriting Records section describes the various methods of marking business rules as favorites, including via the Process Business Rules list view and Process Business Rules record view. Favoriting a business rule record allows you to easily access it from list views and the Process Business Rules module tab.
<u>Sharing Process Business Rules</u>	The Sharing Records section provides instructions for the Share record view option which composes an email with a link to the process email template record. If the recipient is logged into Sugar, clicking the link will bring them directly to the record view.

Process Business Rules Menus

The following sections describe the various menu options in the Process Business Rules module with links to more information about each option in the User Interface documentation or, for template-specific functionality, within this page.

Module Tab Menus

The Process Business Rules module tab is located on the navigation bar at the top of the Sugar screen when the administrator is engaging with the Process Business Rules module. Click the tab to access the Process Business Rules list view. You may also click the triangle in the Process Business Rules tab to display the Actions, Recently Viewed, and Favorites menus. The Actions menu allows you to perform important actions within the module. The Recently Viewed menu displays the list of business rules you last viewed in the module. The Favorites menu displays the list of business rules you most recently marked as favorites in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Create Process Business Rule</u>	Opens the record view layout to create a new process rule
<u>View Process Business Rules</u>	Opens the list view layout to search and display process rules
Import Process Business Rules	Opens the import wizard to enable import of .pbr files

If you do not see the Process Business Rules module tab in Sugar, please check the following:

• You must be an administrator user to access the Process Business Rules module or the Process Business Rules module tab.

- The Process Business Rules module may be marked as hidden in your user preferences which will prevent the module tab from being displayed. Navigate to your user profile (upper right of Sugar), click the Advanced tab, and check the Layout Options section. If you see the Process Business Rules module in the Hide Modules list, simply move it to the Display Modules list and save. For more information on hiding and displaying modules, please refer to the Layout Options section of the Getting Started documentation.
- The administrator may have disabled the Process Business Rules module for your entire Sugar instance. Reach out to your Sugar administrator to have the Process Business Rules module displayed. For more information on displaying and hiding modules throughout Sugar, please refer to the Developer Tools documentation in the Administration guide.

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual process rule record directly from the list view.

Name 🔶	Target Module	♦ Business Rul	
Lead Routing Rule	Leads	Single-Hit 💿 🔽	
Quote Approval Hierarchy	Quotes	Design	
Triage Support Calls	Cases	Edit	
Lead Assignment	Leads	Export	
		Delete	

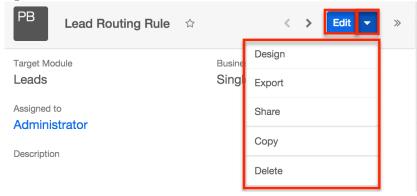
The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Preview</u>	Preview this rule in the intelligence pane
<u>Design</u>	Navigate directly to the Rules Builder view, where you can create and/or edit the <u>condition(s)</u> and <u>conclusion(s)</u> defined by this process business rule
Edit	Edit this process business rule record
<u>Export</u>	Download a copy of this rule to your

	computer as a .pbr file
Delete	Delete this process business rule

Record View Actions Menu

The business rule's <u>record view</u> displays the fields relevant to the Process Business Rules module. To access a rule's record view, simply click a hyperlinked business rule name from the Process Business Rules list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.



The Actions menu allows you to perform the following operations:

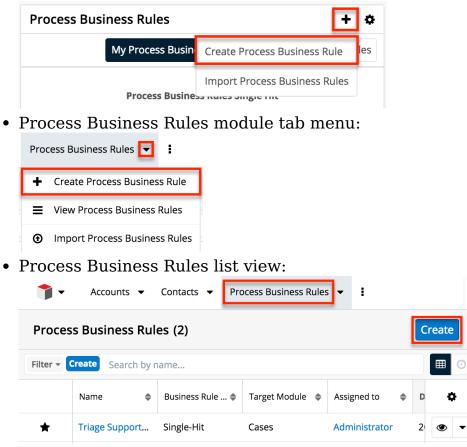
Menu Item	Description
Edit	Edit this process business rule record
<u>Design</u>	Navigate directly to the Rules Builder view, where you can create and/or edit the <u>condition(s)</u> and <u>conclusion(s)</u> defined by this process business rule
<u>Export</u>	Download a copy of this business rule to your computer as a .pbr file
<u>Share</u>	Share a link to this business rule in Sugar via email
<u>Copy</u>	Duplicate this record to make a new process business rule
<u>Delete</u>	Delete this process business rule

Creating Process Business Rules

You should typically create business rules before creating any process definitions that will use the rules. However, it is possible to save an incomplete process definition in order to navigate away and build a rule, then return later to complete the process definition.

Process business rules can be created from any of the following places in Sugar:

• Process Business Rules dashlet:



Upon clicking "Create Process Business Rule" (or the Create button from list view), you will be directed to the record view. The record view is where you store information that will make it easy to find and understand the rule in the future. After completing this form, click "Save & Design" to navigate to the <u>Rules Builder</u> interface where the actual rule criteria and outcomes are defined.

Se

PB Name Lead Assignment by Lead Source	Cancel Save & Design 🗸 »
Target Module	Business Rule Type
Leads -	Single-Hit 🔹
Assigned to	
Administrator	
Description	
Set of rules to determine assignee based on	the lead source.

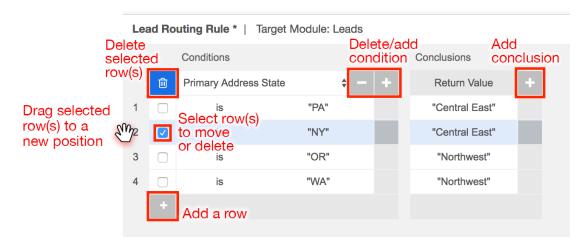
For more information about the available fields in the Process Business Rules module, please refer to the <u>Process Business Rule Fields</u> section of this documentation. After configuring and saving the process business rule, it will automatically appear on the administrator's Process Business Rules dashlet and list view, but it will not be ready to use in a process definition until the design step has been completed via the <u>Rules Builder</u>.

Designing Process Business Rules

After saving the process business rule record, use the Rules Builder table to define the conditions and conclusions for the rule(s).

Note: The Rules Builder interface may not be compatible with some touch-screen mobile devices. Please interact with the Rules Builder from a desktop or laptop computer to prevent any potential complications.

The Rules Builder Interface

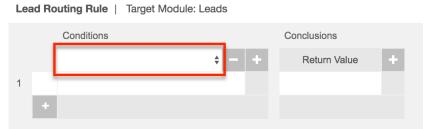


Note: The UI elements of the Rules Builder are only displayed if they are relevant to the current view. For example, new rules and rules with only one row will not contain the selection boxes and Trash icon until additional rows have been added.

- Click the plus (+) icon to the right of the Conditions header to add additional condition columns.
- Click the minus (-) icon above a condition column to delete the column.
- Click the plus (+) icon to the right of the Conclusions header to add additional conclusion columns.
- Click the minus (-) icon above a conclusion column to delete the column.
- Click the plus (+) icon at the bottom of the table to add additional rows and create a rule set.
- Select the checkbox next to one or more rows and then click the Trash icon to delete the selected row(s).
- Select the checkbox next to one or more rows and then click on one of the selected rows' numbers to drag and drop them to a new position.

The following steps describe how to interact with the Rules Builder.

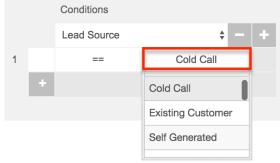
1. For each column in the Conditions section, select a field variable (e.g. Lead Source) from the dropdown inside the white header cell.



2. Beneath the header, click inside the first row and select the operator needed to evaluate the variable selected in step 1. To change the operator, click on the cell to view and select the available operators in the list.



3. Next to the operator, select the field value for the condition. Click on the empty area of the cell to select a field value or access the criteria builder where you can define constants, fields, etc. For more information on using the criteria builder, please refer to the <u>Process Definitions</u> documentation.



4. Optionally, add more Condition columns to satisfy your use case. All

conditions defined within the same row must be met in order to trigger the associated conclusion. In addition, when any one row has satisfied all of its conditions, its conclusion will be triggered and no subsequent rows will be evaluated.

5. For the Conclusions block, click in the empty row beneath the Return Value header.

		Conditions		Conclusions		
		Lead Source	\$ -	+	Return Value	+
1		==	Cold Call			
	+					

6. In the criteria builder, define the return value for when the row's condition evaluates as true. A process definition's Gateway will evaluate the returned values and react accordingly. A Return Value is required for each row.

		Conditions			Conclusions	
		Lead Source		÷ - +	Return Value	+
1		==	Co	"unqualified" 🕄		
	+					
				 Constants 		
				String, Number and	d Boolean 🛛 🔾	
				Value		
				unqualified		
				Add String Add	Number Add Boolean	

- 7. Optionally, add more Conclusion columns to update a field value (e.g. "Assigned to") when the row's condition evaluates as true.
- 8. Continue adding conditional rows as needed until your rule set is complete. For more information, please refer to the <u>Creating Rule Sets</u> section.

Creating Rule Sets

A single process business rule record could potentially define a set of several rules, or a rule set. In the following example of a set of rules for routing leads, each row of the Rules Builder table represents a separate rule that will be evaluated by the process. Each row is evaluated independently in descending order. When a rule in the rule set is evaluated as true, the evaluation process stops. Therefore, only the conclusions defined by the first (topmost) true condition will be returned.

The following example represents a rule set that evaluates two fields, "Lead Source" and "Status", to determine a return value, assigned user, and a possible value for "Do Not Call". The first row translates conversationally to: If the lead has a new status and its source is a Cold Call, then capture the office phone number, assign the lead to Jim Brennan, and make no changes to the Do Not Call field.

Do Not Call

true

Lead Routing Rule Target Module: Leads								
		Conditions				Conclusions		
		Lead Source	÷ —	Status	÷ – +	Return Value	Assigned to	\$
1		==	Cold Call	==	New	Office Phone	Jim Brennan	
2		==	Public Relations	==	New	Office Phone	Sally Bronsen	
3		==	Email	==	New	Email Address	Chris Olliver	

New

Condition and Conclusion Elements

Process business rules comprise at least one condition:conclusion element.

• **Conditions** : One or more "if" statements that will be evaluated as true or false.

"NA"

Administrator

• **Conclusions** : The results that are returned if the condition evaluates to true.

By default, a true condition must result in a Return value. The Return value can be constructed using variables, constants, operators and/or literal values. If there are to be multiple outcomes to the condition, the Return value must be specified as the first conclusion in the business rule. For example, to change the value of a given field when the condition is true, set an arbitrary return value and then click on the + button adjacent to the table header "Conclusions" to add another conclusion column to the row where the field update can be defined.



4

!=

Existing Customer

The condition will evaluate a set of given variables and if the condition is evaluated as "true", the conclusion will then return a specified value.

Note: Process business rule Return values will always convert to text for evaluation within a process definition.

Operator Elements

Conditions utilize comparison operators. Multiple conditions in a single row will be combined using AND logic, requiring all conditions in a row to be satisfied in order for the statement to be evaluated as true. The available operators are:

Operator	Definition	Available for Field Types
==	is equal to	integer, currency, date, dropdown, multiselect
!=	is not equal to	integer, currency, date, dropdown, multiselect
>=	is greater than or equal to	integer, currency, date
<=	is less than or equal to	integer, currency, date
>	is greater than	integer, currency, date
<	is less than	integer, currency, date
is	exactly matches	text, email
is not	does not exactly match	text, email
starts with	first characters of the field match	text, email
ends with	last characters of the field match	text, email
contains	the characters are found in sequence anywhere in the field	text, email
does not contain	the characters are not found in sequence anywhere in the field	text, email

Note: If using a currency field in a business rule, values should have no currency symbol (such as \$) and no thousands separator. Only the period (.) is allowed as a decimal separator.

For information about utilizing process business rules in process definitions, refer to the <u>Actions > Business Rule</u> section of the Process Definitions documentation.

Last Modified: 2020-05-15 19:07:04

Process Email Templates

Overview

The Process Email Templates module is one of four modules that make up Sugar's Advanced Workflow (formerly known as Sugar Process Author), Sugar's business process management tool that enables administrators to streamline common business processes by managing approvals, sales processes, call triaging, and more. A process email template is required in order to include a Send Message event in a process definition. Sugar's core product includes several places where email templates can be created for different purposes, but Advanced Workflow requires all sent messages to be created via the Process Email Templates module.

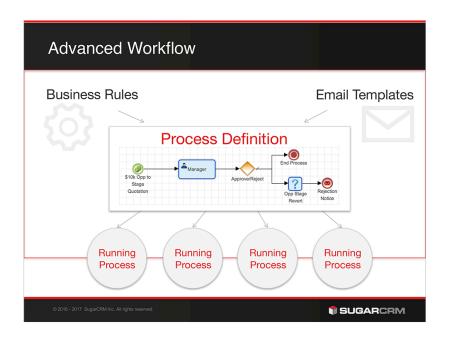
Before continuing, please read the <u>Advanced Workflow</u> overview page, which defines critical vocabulary and other elements that may be referenced in this article.

The Advanced Workflow documentation contains the following pages:

- <u>Advanced Workflow</u>
- Process Definitions
- Process Business Rules
- Process Email Templates (current page)

Additionally, the <u>Processes</u> page of the Application Guide contains documentation for the user-facing elements of Sugar Advanced Workflow. Please note that Advanced Workflow is exclusive to Enterprise and Ultimate editions of Sugar.

The following image illustrates the relationship between the four Advanced Workflow modules:



Process Email Template Fields

The Process Email Templates module contains the following fields:

Field	Description
Assigned To	The Sugar user assigned to the process email template
Date Created	The date the process email template record was created
Date Modified	The date the process email template record or its content was last modified
Description	A description or other information about the process email template
Name	A unique and descriptive name
Target Module	The module against which the template's processes will be defined

Working With Process Email Templates

The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this Working With Process Email Templates section describe Process Email Template-specific behaviors and functionality.

Content Link	Description
<u>Viewing Process Email Templates</u> <u>Viewing via List View</u> <u>Viewing via Record View</u> <u>Viewing via Recently Viewed</u>	The Viewing Records section describes various methods of viewing process email template records, including via the Process Email Templates list view and record view and the Recently Viewed menu in the Process Email Templates module tab. For information on viewing the content
	of a template's message, please refer to the <u>Designing Process Email Templates</u> section below.
Searching for Process Email Templates List View Search Creating a Filter Saving a Filter	The Searching for Records section provides an introduction to list view search, which searches and filters within the Process Email Templates module.
Process Email Templates List View Total Record Count Create Button List View Search Favorite Designation Column Reordering Column Resizing Column Sorting Column Sorting Column Selection Preview Record Actions Menu More Process Email Templates Intelligence Pane	The List View section walks through the many elements of the Process Email Templates List View layout which contains a filterable list of all process email template records in Sugar. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Process Email Templates list view are described in the List View Record Actions Menu section of this page.
Process Email Templates Record View Favorite Designation Next or Previous Record Actions Menu Show More Intelligence Pane	The Record View section walks through the many elements of the Process Email Templates Record View layout, which contains detailed information about a single process email template record. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Process Email Templates record view are described in the <u>Record View Actions Menu</u> section

	of this page.
Editing Process Email Templates Editing Inline via Record View Editing via Record View Editing Inline via List View Editing Fields	The Editing Records section describes the methods of editing existing process email template record fields: inline via the Process Email Templates record view, in full edit mode on the record view, and inline via the Process Email Templates list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records.
	For information on editing the content of a template's message, please refer to the <u>Designing Process Email Templates</u> section below.
<u>Deleting Process Email Templates</u> <u>Deleting via Record View</u> <u>Deleting via List View</u>	The Deleting Records section describes two ways to delete process email templates: via the Process Email Templates record view and via an individual record's Actions menu on the list view.
Favoriting Process Email Templates Favoriting via List View Favoriting via Record View	The Favoriting Records section describes the various methods of marking process email templates as favorites, including via the Process Email Templates list view and Process Email Templates record view. Favoriting a process email template record allows you to easily access it from list views and the Process Email Templates module tab.
Sharing Process Email Templates	The Sharing Records section provides instructions for the Share option in record view, which composes an email with a link to the process email template record. If the recipient is logged into Sugar, clicking the link will bring them directly to the record view.

Process Email Template Menus

The following sections describe the various menu options in the Process Email Templates module with links to more information about each option in the User Interface documentation or, for template-specific functionality, within this page.

Module Tab Menus

The Process Email Templates module tab is located on the navigation bar at the top of the Sugar screen when the administrator is engaging with the Process Email Templates module. Click the tab to access the Process Email Templates list view. You may also click the triangle in the Process Email Templates tab to display the Actions, Recently Viewed, and Favorites menus. The Actions menu allows you to perform important actions within the module. The Recently Viewed menu displays the list of templates you last viewed in the module. The Favorites menu displays the list of templates you most recently marked as favorites in the module.

Process Email Templates 🔽 🗄			
+	Create Process Email Template		
≡	View Process Email Templates		
€	Import Process Email Templates		
0	Lead auto-reply		
*	New Account Welcome Email		

The Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Create Process Email Template</u>	Opens the record view layout to create a new email template
<u>View Process Email Templates</u>	Opens the list view layout to search and display email templates
Import Process Email Templates	Opens the import wizard to enable import of .pet files

If you do not see the Process Email Templates module tab in Sugar, please check the following:

- You must be an administrator user to access the Process Email Templates module or the Process Email Templates module tab.
- The Process Email Templates module may be marked as hidden in your user preferences which will prevent the module tab from being displayed. Navigate to your user profile (upper right of Sugar), click the Advanced

tab, and check the Layout Options section. If you see the Process Email Templates module in the Hide Modules list, simply move it to the Display Modules list and save. For more information on hiding and displaying modules, please refer to the Layout Options section of the Getting Started documentation.

• The administrator may have disabled the Process Email Templates module for your entire Sugar instance. Reach out to your Sugar administrator to have the Process Email Templates module displayed. For more information on displaying and hiding modules throughout Sugar, please refer to the Developer Tools documentation in the Administration guide.

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual process email template record directly from the list view.

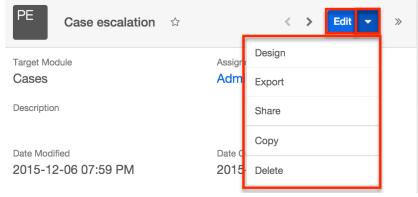
Name	Target Module	Assigned to 🗢 Dat 🌣	
Case escalation	Cases	Administrator 20 ⁻	
Opp relate	Opportunities	Admi Design	٦
Renewal notice	Contacts	Admir Edit	
Case overdue	Cases	Adm ^y Export	
Lead auto-reply	Leads	Adm	

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
<u>Preview</u>	Preview this email template in the intelligence pane
<u>Design</u>	Navigate directly to the template's design view, where you can create and edit the message's content
Edit	Edit this process email template
Export	Download a copy of this template to your computer as a .pet file
<u>Delete</u>	Delete this process email template

Record View Actions Menu

The template's <u>record view</u> displays the fields relevant to the Process Email Templates module. To access a template's record view, simply click a hyperlinked template name from the Process Email Templates list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.



The Actions menu allows you to perform the following operations:

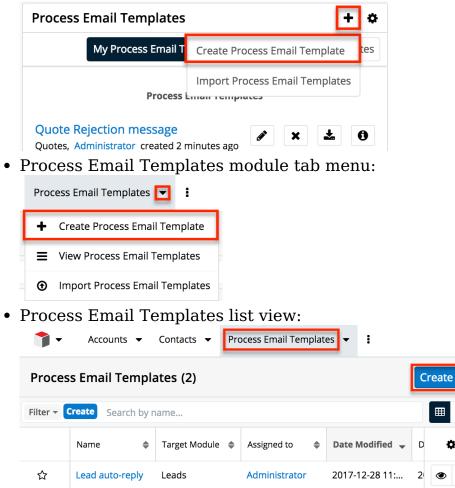
Menu Item	Description
<u>Edit</u>	Edit this process email template
<u>Design</u>	Navigate directly to the template's design view, where you can create and edit the message's content
<u>Export</u>	Download a copy of this template to your computer as a .pet file
Share	Share a link to this template in Sugar via email
<u>Copy</u>	Duplicate this record to make a new process email template
<u>Delete</u>	Delete this process email template

Creating Process Email Templates

You should typically create email templates before creating any process definitions that will use the templates. However, it is possible to save an incomplete process definition in order to navigate away and build an email template, then return later to complete the process definition.

Process email templates can be created from any of the following places in Sugar:

• Process Email Templates dashlet:



Upon clicking "Create Process Email Template" (or the Create button from list view), you will be directed to the record view. The record view is where Sugar stores information that will make it easy to find and understand the purpose of the email template in the future. After completing this form, you will be directed to the <u>design view</u> to create the actual content of the message.

Se

Name			
PE Quote Rejection message	Cancel Save & Design	•	>
Transition	An discould be		
Target Module	Assigned to		
Quotes 🗸	Administrator	×	•
Description			
Email template for processes to notify user	that the quote is not approved.		

After configuring and saving the process email template, it will automatically appear on the administrator's Process Email Templates dashlet and list view, but it will not be ready to use in a process definition until the design step has been completed via the <u>design view</u>.

Designing Process Email Templates

After submitting the template's record view, you must create the custom layout and design of the message that will be sent by related process definitions. Click "Save & Design" in record view to automatically enter the Process Email Template's design view. The field values for Target Module, Name, and Description are automatically pre-populated on this screen based on the values entered on the record view.

Process Email Templates	Cancel Save -
Target Module	Quotes
Name	Quote Rejection Message
Description	Email template for processes that notify user of a rejected quote.
Subject	Required
↔ B <i>I</i> ⊻ S #	ΞΞΞΞΞ▲·▲·

Sugar Advanced Workflow's template design interface is an easy-to-use WYSIWYG editor. The two elements available in the design view that cannot be accessed from record view are the design toolbar and the message body. The following sections cover how to use these elements to craft an email message template.

This is the message body, just under the design toolbar.

At any time during the design of a template, you may click the Save button to preserve your work. After completing the content of the message, expand the record's Actions Menu to reveal "Save & Exit". Click on this menu item to return to the Process Email Templates list view and continue working in Sugar.

Process Email Templates Quote Rejection Message		Cancel	Save -	»
Target Module	Quotes	Save & Exit		
Name	Quote Rejection Message			

The Design Toolbar

The toolbar is powered by the TinyMCE rich-text editor framework and presents familiar formatting options:

Element	Button(s)	Function
Edit HTML Source	<>	Bypass the rich-text editor options and insert your own HTML code, or view the HTML code of an existing template to make advanced changes.
Bold; Italic; Underline; Strikethrough	B <i>I</i> ⊻ S	Use these basic font formatting options to easily add common styles to text in the message body.
Insert/Remove Bulleted List; Insert/Remove Numbered List		Transform paragraphs in the message body into a formatted list.
Align Left; Align Center; Align Right; Justified	EΞ∃≣	Set paragraph alignment.
Text Color; Background Color		Choose a custom font color or highlight text with a background font color.
Font Size		Make text larger or smaller.

	Font Sizes 8pt 10pt 12pt 14pt 18pt 24pt 36pt	
Fields Selector	\$	Look up and insert Sugar module field variables. For more information, see the <u>Fields Selector</u> section below.
Record Link Selector	\$ ₽	Look up and insert a hyperlink to a Sugar record related to the process's target record. For more information, see the <u>Record Link Selector</u> section below.
Insert/Edit Link	P	Insert or edit a link to a web page, hosted file, or other location on the web.

Using the Fields Selector Tool

Process Email Templates can be customized using data pulled directly from your Sugar database. For example, an email template triggered from the Cases module could contain critical case details such as the support agent's name or the phone number of the contact related to the case.

Note: Related-module variables will only be available from modules that have a one-to-one or one-to-many relationship with the target module.

A common use case for the Fields Selector tool is using the recipient's name in the message body (e.g., "Dear {first_name} {last_name},"). To insert a custom name using the Fields Selector tool, follow these steps:

1. From the Process Email Template's design view, place the cursor in the message body where the custom variable should appear. Click on the Fields Selector icon in the design toolbar.

$\diamond B I \sqcup S \scriptscriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{$				
Font Sizes 👻 Paragraph 👻 🔗 🗱 家				
Dear I				
Thank you for your recent purchase!				
Best regards,				
{::assigned_user_link::first_name::} {::assigned_user_link::last_name::} {::assigned_user_link::title::}, <i>Best Widgets Company</i> {::assigned_user_link::phone_work::} {::assigned_user_link::email1::}				

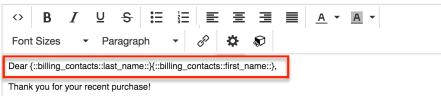
- 2. The Fields Selector drawer will open over the current screen. By default, the Fields Selector will display all fields in the template's target module.
- 3. To find a variable from a related module, click the word "Module" to the left of the search bar and select the desired module.

Fields selector			Cancel	Done	>>
Module Contacts (Bill to Contact: billing_contact	cts) Search				
Target Module	÷	Module			
Accounts (Bill to Account: billing_accounts)		Contacts			
Accounts (Ship to Account: shipping_accounts)		Contacts			
Contacts (Bill to Contact: billing_contacts)		Contacts			
Primary Address Postal Code		Contacts			
Primary Address Country		Contacts			
			/		

The list of field variables will update automatically. Select the checkbox adjacent to the field or fields that you would like to insert into the email template and then click "Done".

Fields	s selector		Cancel Done »
	Last Name	Contacts	
	Language Preference	Contacts	
	First Name	Contacts	
	Google Plus ID	Contacts	

4. The template's design view will once again be visible and the selected variables will appear where your cursor was positioned before clicking on the Fields Selector icon.



5. If necessary, use the text editor to move the variables or insert additional

characters. In this example, we will move the first name variable
{::billing_contacts::first_name::} into position before the last name variable
and insert a space character in between the two variables:
 Dear {::billing_contacts::first_name::} {::billing_contacts::last_name::},

For information about utilizing process email templates in process definitions, refer to the <u>Send Message Events</u> section of the Process Definitions documentation.

Using the Record Link Selector Tool

If desired, you may insert a URL in the message content that links to the target record or a record from a related module. For example, an email template triggered from the Cases module could contain a link to the related case record in Sugar.

Note: Related-module links will only be available for modules that have a one-tomany relationship with the target module.

To insert a link using the Record Link Selector tool, follow these steps:

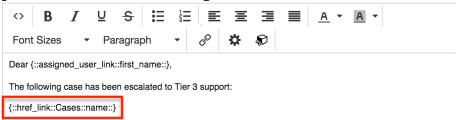
1. From the Process Email Template's design view, place the cursor in the message body where you want to insert a record link. Click on the Record Link Selector icon in the design toolbar.



2. The Record Link Selector drawer will open over the current screen, displaying the name of the target module on the first line followed by the names of modules that have a one-to-many relationship with the target module. Click on the radio button next to the module that contains the record you want to link to and then click "Select".

Recor	d Link Selector	Cancel Select »
Select	Module	Relationship
0	Cases	Target Module
\bigcirc	Accounts (Account: accounts)	Related to Target Module
\bigcirc	Users (Assigned to User: assigned_user_link)	Related to Target Module
\bigcirc	Users (Created User: created_by_link)	Related to Target Module
\bigcirc	Users (Modified User: modified_user_link)	Related to Target Module

3. The template's design view will once again be visible and a variable representing the selected URL will appear where your cursor was positioned before clicking on the Record Link Selector icon.



Note: In the recipient's inbox, the message will contain an unformatted URL (e.g., https://instancename.com/#Cases/1234-abcd-5678-efgh) that links to the related record. To instead display a word or phrase hyperlinked to the record, you can click on the Edit HTML Source button in the <u>design</u> toolbar and place the link variable in an HTML anchor tag:

HTML Source Editor	<u>∠</u> * ×
	🛃 Word Wrap
Composed and the set of the se	wpport:

4. After completing the content of the message, click "Save & Exit".

Process Email Templates		Cancel	Save	•
Target Module	Cases	Save & Exit		
				_
Name	Case Escalation - Tier 3			

For information about utilizing process email templates in process definitions, refer to the <u>Send Message Events</u> section of the Process Definitions documentation.

Last Modified: 2020-05-15 19:03:04

Process Definitions

Overview

The Process Definitions module is one of four modules that make up Sugar's <u>Advanced Workflow</u> (formerly known as Sugar Process Author), Sugar's business

process management tool that enables administrators to streamline common business processes by managing approvals, sales processes, call triaging, and more. Process definitions are central to the Advanced Workflow suite. They define the steps in automated business processes and control the flow of work that is allocated during running processes in Sugar. Process definitions are created by a Sugar administrator and consist of a network of activities and their relationships, criteria to indicate the start and end of the process, and information about the individual activities (e.g., participants) contained within the business process.

Before continuing, please read the <u>Advanced Workflow</u> overview page, which defines critical vocabulary and other elements that may be referenced on this page.

This documentation contains the following pages:

- <u>Advanced Workflow</u>
- Process Definitions (current page)
- Process Business Rules
- Process Email Templates

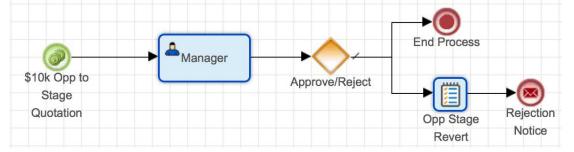
Additionally, the <u>Processes</u> page of the Application Guide contains documentation for the user-facing elements of Sugar Advanced Workflow. Please note that Advanced Workflow is exclusive to Enterprise and Ultimate editions of Sugar.

The following image illustrates the relationship between all of the Advanced Workflow modules:

Advanced Workflow	
Business Rules Process Definition Unit Cop to Stage Cuotation Running Process Process Running Process Process Process Process	
© 2016 - 2017 SugarCRM Inc. All rights reserved.	SUGARCRM.

The process definition will be the parent record for countless running processes in Sugar. Every time a process definition's <u>Start event</u> is triggered, a single process will begin to run in Sugar. When a running process requires action from a user, that user will see the process in their <u>Processes dashlet</u> and Processes module list view. Users will never see the parent process definition that controls the process, nor will they see any processes for which they are not required to act.

This is an example of a complete process definition created in the <u>Visual Designer</u>:



In the example above, the Start event is triggered when a \$10,000+ opportunity moves to stage "Quotation" from any other stage. Every time this condition is met, the process definition will generate a new process instance.

Note: If a process definition will utilize <u>process business rules</u> or <u>process email</u> <u>templates</u>, those records must be created before designing the process definition. For more information about creating records in these supporting Advanced Workflow modules, please refer to the corresponding section of the Advanced Workflow documentation.

Process Definition Fields

The Process Definitions module contains the following fields:

Field	Description
Assigned To	The Sugar user assigned to the process definition
Date Created	The date the process definition record was created
Date Modified	The date the process definition record or its design was last modified
Description	A description or other information about the process definition
Name	A unique and descriptive name
Target Module	The module that will be used for the

Start event in the process definition design
The enabled or disabled state of the process definition

Working With Process Definitions

The following links will open specific sections of the User Interface documentation where you can read about views and actions that are common across most Sidecar modules. The sections following this Working With Process Definitions section describe Process Definition-specific behaviors and functionality.

Content Link	Description
<u>Viewing Process Definitions</u> <u>Viewing via List View</u> <u>Viewing via Record View</u> <u>Viewing via Recently Viewed</u>	The Viewing Records section describes various methods of viewing process definition records, including via the Process Definitions list view and record view, the Recently Viewed menu in the Process Definitions module tab. For information on viewing a process definition's message content, please refer to the <u>Designing Process</u> <u>Definitions</u> section below.
<u>Searching for Process Definitions</u> <u>List View Search</u> <u>Creating a Filter</u> <u>Saving a Filter</u>	The Searching for Records section provides an introduction to list view search, which searches and filters within the Process Definitions module.
Process Definitions List View Total Record Count Create Button List View Search Favorite Designation Column Reordering Column Resizing Column Sorting Column Sorting Column Selection Preview Record Actions Menu More Process Definitions Intelligence Pane	The List View section walks through the many elements of the Process Definitions List View layout which contains a filterable list of all process definition records in Sugar. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Process Definitions list view are described in the List View Record Actions Menu section of this page.
Process Definitions Record View	The Record View section walks through

Favorite Designation Next or Previous Record Actions Menu Show More Intelligence Pane	the many elements of the Process Definitions Record View layout which contains detailed information about a single process definition record. While the generic menu options are described in the User Interface sections linked to the left, the options specifically available in the Process Definitions record view are described in the <u>Record</u> <u>View Actions Menu</u> section of this page.
Editing Process Definitions Editing Inline via Record View Editing via Record View Editing Inline via List View Editing Fields	The Editing Records section describes the methods of editing existing process definition record fields: inline via the Process Definitions record view, in full edit mode on the record view, and inline via the Process Definitions list view. The Editing Fields section provides instructions for modifying the different field types available in Sugar records. For information on editing a process definition record's content, please refer to the <u>Designing Process Definitions</u> section below.
<u>Deleting Process Definitions</u> <u>Deleting via Record View</u> <u>Deleting via List View</u>	The Deleting Records section describes two ways to delete process definitions: via the Process Definitions record view and via an individual record's Actions menu on the list view.
Favoriting Process Definitions Favoriting via List View Favoriting via Record View	The Favoriting Records section describes the various methods of marking process definitions as favorites, including via the Process Definitions list view and Process Definitions record view. Favoriting a process definition record allows you to easily access it from list views and the Process Definitions module tab.
Sharing Process Definitions	The Sharing Records section provides instructions for the Share record view option which composes an email with a link to the process definition record. If the recipient is logged into Sugar, clicking the link will bring them directly to the record view.

Process Definition Menus

The following sections describe the various menu options in the Process Definitions module with links to more information about each option in the User Interface documentation or, for process definition-specific functionality, within this page.

Module Tab Menus

The Process Definitions module tab is located on the navigation bar at the top of the Sugar screen when the administrator is engaging with the Process Definitions module. Click the tab to access the Process Definitions list view. You may also click the triangle in the Process Definitions tab to display the Actions, Recently Viewed, and Favorites menus. The Actions menu allows you to perform important actions within the module. The Recently Viewed menu displays the list of process definitions you last viewed in the module. The Favorites menu displays the list of process definitions you most recently marked as favorites in the module.



The Actions menu allows you to perform the following operations:

Menu Item	Description
Create Process Definition	Opens the record view layout to create a new process definition
View Process Definitions	Opens the list view layout to search and display process definitions
Import Process Definitions	Opens the import wizard to enable import of .bpm files

If you do not see the Process Definitions module tab in Sugar, please check the following:

- Sugar Advanced Workflow is only available for Enterprise and Ultimate editions of Sugar. If you are using the Professional edition but would like to leverage Sugar Advanced Workflow for advanced workflow functionality, please <u>contact your Sugar Account Manager</u> for information on upgrading your instance.
- To access the Process Definitions module or the Process Definitions module tab, you must be a <u>System Administrator user</u> or a regular user with a role that provides <u>developer access</u> to one or more modules.
- The Process Definitions module may be marked as hidden in your user preferences which will prevent the module tab from being displayed. Navigate to your user profile (upper right of Sugar), click the Advanced tab, and check the Layout Options section. If you see the Process Definitions module in the Hide Modules list, simply move it to the Display Modules list and save. For more information on hiding and displaying modules, please refer to the Layout Options section of the Getting Started documentation.
- The administrator may have disabled the Process Definitions module for your entire Sugar instance. Reach out to your Sugar administrator to have the Process Definitions module displayed. For more information on displaying and hiding modules throughout Sugar, please refer to the Developer Tools documentation in the Administration guide.

List View Record Actions Menu

The Record Actions menu to the far right of each record's row allows you to perform actions on the individual process definition record directly from the list view.

	Name 🜲	Target Module 🜲	Status	\$	٥
☆	New Account Processing	Accounts		Enabled	• •
*	Case Escalation	Cases		Design	
☆	Idle Account Send Message	Accounts		Edit	
☆	PBRulesDef	Revenue Line Items		Export	
			-	Delete	
				Disable	

The list view's Record Actions menu allows you to perform the following operations:

Menu Item	Description
Preview (Eye icon)	Preview the design of this process definition in the intelligence pane
<u>Design</u>	Navigate directly to the process definition's Visual Designer, where you can create and edit the process flow
Edit	Edit this process definition
Export	Download a copy of this process definition to your computer as a .bpm file
<u>Delete</u>	Delete this process definition
Enable/Disable	Enable or disable this process definition

Record View Actions Menu

The process definition's <u>record view</u> displays the fields relevant to the Process Definitions module. To access a process definition's record view, simply click a hyperlinked process definition name from the Process Definitions list view. The record view's Actions menu appears on the top right of the page and allows you to perform various operations on the current record.

< > Edit -	»
Design	
Adm _{Export}	
Share	
Сору	
Delete	
	Assign Adm Export Share Copy

The Actions menu allows you to perform the following operations:

Menu Item	Description
Edit	Edit this process definition
<u>Design</u>	Navigate directly to the process definition's Visual Designer, where you can create and edit the process flow
Export	Download a copy of this process

	definition to your computer as a .bpm file
<u>Share</u>	Share a link to this process definition in Sugar via email
<u>Copy</u>	Duplicate this record to make a new process definition
<u>Delete</u>	Delete this process definition

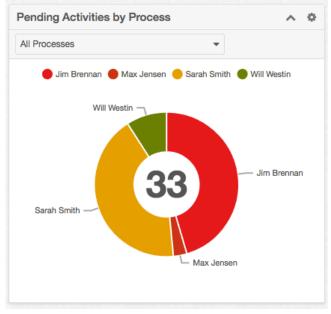
Process Definitions List View Dashlets

There are two specialized dashlets available exclusively on the intelligence pane for the Process Definitions module's list view. The following sections describe these dashlets, which offer insight into running processes in your instance.

Note: For more information on creating dashboards and adding dashlets to the intelligence pane, please refer to the <u>Dashboards and Dashlets</u> documentation.

Pending Activities by Process

The Pending Activities by Process dashlet displays a summary of the total number of activities that are awaiting a response from a process user. All open process activities are reflected in the dashlet as a whole number and are also grouped by user in the circular graph.



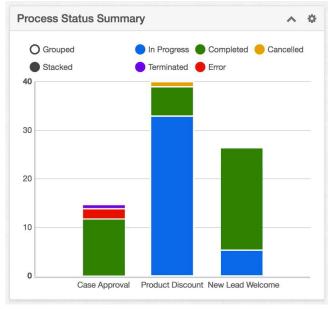
You can refine the dashlet's view by selecting a process definition from the

dashlet's filter. This will restrict results to only the processes related to that process definition.

Pending Activities by Process	^
All Processes	
All Processes	Vill Westin
Case update	
PET Community	

Process Summary Dashlet

The Process Summary dashlet can also be added to the Process Definition's list view intelligence pane. It displays an overview of all processes that have triggered in your instance.



You can customize the dashlet view using the options above the chart. Toggle the display between "Stacked" and "Grouped" to view the results in different formats. To exclude a status from the display, click on the solid circle next to that status' name in the key above the chart.

Process Status Summary		
Grouped Stacked	In Progress O Completed Terminated O Error	Cancelled

Creating Process Definitions

Note: All process definitions are disabled by default so that they will not trigger during the design phase. Please refer to the <u>Enabling Process Definitions</u> section of this page for steps to enable a completed process definition.

Process Definitions can be created from any of the following places in Sugar:

• Process Definitions dashlet:

	Proces	s Definitions			+	٥	
		My I	Process D	Create Process [Definition	ons	
		3 Enabled		Import Process I			
	Accounts	count Send Me s, Administrator ci 19 05:00pm	•	✓ × ±	\$ >	0	
•]	Proces	s Definitio	ns mo	dule tab me	enu:		
	Process	Definitions 💌	i <u>s</u>				
	🕇 Cre	ate Process Defi	nition				
	≡ Vie	w Process Defini	tions				
•]	Proces	s Definitio	ns list	view:			
	•	Accounts 👻	Contacts	 Process Defi 	nitions 🔻	:	Sear
	Proces	s Definitions	(4)				Create »
	Filter 👻	Create Search by	name				
		Name	¢	Target Module	Status	;	¢
	☆	New Account Pro	cessing	Accounts		Enabled	• •

Upon clicking "Create Process Definition" (or the Create button from list view), you will be directed to the process definition's record view. The record view is where you store information that will make it easy to find and understand the process definition in the future. For more information about the available fields in the Process Definitions module, please refer to the <u>Process Definitions Fields</u> section of this documentation.

PD Name Get Approval on Opportunity	Cancel Save & Design -
Target Module	Assigned to
Opportunities 🗸 🗸	Administrator 🗙 👻
Status	
Disabled -	
Description	
A Process Definition that defines the app	proval process for opportunities.

After completing this form, you will be directed to the <u>Visual Designer</u> canvas where the process definition's elements can be composed.

Designing Process Definitions

Creating a process definition for your business process is easy using Advanced Workflow's visual designer, where you can graphically assemble a series of flow elements using an intuitive drag-and-drop interface. All process definitions are set to "Disabled" by default in order to prevent triggering of processes before the design is complete. This means that you must change the status to "Enabled" before it will work. Please see <u>Enabling Process Definitions</u> for more information.

Using the Visual Designer

Before designing a process definition, take a moment to understand how to interact with process definition elements on the design canvas. In the visual designer, process definitions are auto-saved every 15 seconds, and the Undo button can revert changes as far as 25 levels back per session.

Note: The visual designer interface may not be compatible with some touchscreen mobile devices. Please build process definitions from a desktop or laptop computer to prevent any potential complications.

Editing Tools

Common editing tasks can be accessed on the rightmost side of the design toolbar. The three icons represent Undo, Redo, and Save.

When an enabled process definition's design is edited, any running process will

immediately adapt to the new flow pattern. Therefore, it is best practice to disable a process definition before making changes to its design. Disabling the process definition will prevent running processes from adapting to the new flow prematurely. Please note that changing the process definition's status to "Disabled" will not cause any interruptions to already running processes. Upon reenabling the process definition, any processes still running will adapt to the new flow.



- **Undo** : Click to undo the last change made in the Process Definition (up to 25 changes). When an undo action restores a design element on the page, it should also restore the element's configuration, but you should confirm the configuration via the element's settings.
- **Redo** : Click to redo the last change made in the Process Definition (up to 25 changes). When a redo action restores a design element on the page, it should also restore the element's configuration, but you should confirm the configuration via the element's settings.
- **Save** : This control allows you to save changes made to the Process Definition design. This button is enabled only when there are unsaved changes. Keep in mind that the Visual Designer auto-saves your work every 15 seconds. To save your process, click on this icon in the design toolbar.

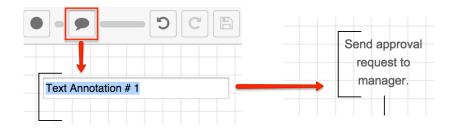
Note: Always review the settings for any canvas element re-instated by the Undo or Redo buttons to confirm they are configured as expected.

Comments

The Comment element allows admins to mark up the designer canvas with helpful annotations connected to Action and Activity elements. While all elements can be descriptively labeled, further explanation may come in handy to explain more complex Process Definitions.



To insert a comment onto the Designer Canvas, simply drag and drop the comment icon onto the canvas and then double click on the text "Text Annotation" to type a comment. Hit Enter to preserve the comment.



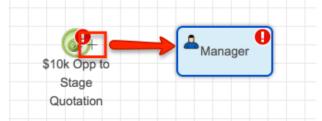
Sequence Flow

When you assemble a process definition, you are defining the overall sequence flow. The flow dictates the processing order of the events, actions, and activities in a process and is visually represented by lines called sequence connectors. Each sequence connector originates from a single source element (e.g. action, event, etc.) to a single target element.

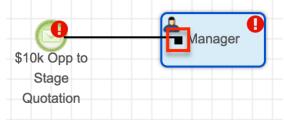
Adding Sequence Connectors

All elements of a process flow must be connected by at least one directional line. Failure to connect flow elements correctly will result in an error in the <u>Element</u> <u>Errors Panel</u>.

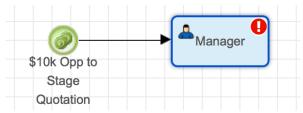
1. To connect two elements on the Designer canvas, hover over the outer edge of the Start event icon until the mouse tip changes into a crosshair:



2. Click the mouse button and drag the black square at the end of the connector onto the subsequent design element:



3. Release the mouse button and the square at the end of the connector line will transition into an arrow pointing toward the subsequent element and indicating the direction of flow from one element to another.



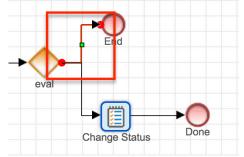
4. Optionally, adjust the position of the process elements as described in the <u>Moving and Deleting Design Elements</u> section to achieve an organized appearance.

Note: When dragging a connector to a subsequent element, you may choose to release the mouse button at the top, bottom, left, or right edge of the element in order to aesthetically organize the process and avoid running into other connector lines, which may possibly affect the flow of the process. For more information on interacting with objects on the canvas, please refer to the <u>Moving and Deleting</u> <u>Design Elements</u> section of this documentation.

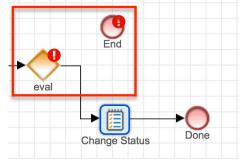
Removing Sequence Connectors

To remove unwanted or misplaced sequence connectors from the design canvas, simply click on the line and press Delete on your keyboard as explained here:

1. Click on the segment of the line that you wish to remove. The connector will transition to a selected state, and the beginning and end points of the connector line will be represented by red dots. Please confirm that the line connecting these red dots is the line that you intend to delete.



2. Press the Delete key on your keyboard. The selected line will disappear.



If you accidentally delete a sequence connector, simply press the <u>Undo button</u> on

the toolbar. Always review the settings for any canvas element reinstated by the Undo or Redo buttons to confirm they are configured as expected. For more information on interacting with objects on the canvas, please refer to the <u>Moving</u> <u>and Deleting Design Elements</u> section of this documentation.

Moving and Deleting Design Elements

To reposition or remove an entire branch or group of elements from a process definition design, you can easily mass select them on the canvas. The following table summarizes the mass actions available via the design canvas.

Task	Procedure	
Select a single element	Point to the element on the design canvas until the mouse tip becomes a four-headed arrow then click the shape	
Select multiple elements within an area	Click on the design canvas above and to the left of the elements that you want to select and then drag to create a selection box around the shapes. Any elements partially within the selection area will be included as part of the selection.	
Move an element or group of elements using your mouse	 Select the element(s) that you want to move. Position the mouse pointer over one of the elements. A four- headed arrow appears. Click and drag the elements to their new positions. All of the selected elements will move the same distance and direction from their original positions. 	
Nudge an element or group of elements using the arrow keys	 Select the element(s) that you want to move. Press an arrow key in the direction you want the group to move. The elements will nudge one pixel for each tap of an arrow key. Press and hold the arrow key to move the elements quickly. 	

	Note : If pressing an arrow key scrolls or zooms the entire canvas instead of moving the selected elements, please make sure that the SCROLL LOCK key is disabled on your keyboard.
Delete an element or group of elements within an area	 Select the element(s) that you want to delete. Press the delete key to remove the selected items from the design canvas. Note: Sequence connectors associated with deleted elements will also be deleted.
Delete a sequence connector	Please refer to <u>Removing Sequence</u> <u>Connectors</u> for more information on how to remove unwanted or misplaced sequence connectors from the design canvas.
Deselect all elements	Click a blank area on the design canvas.

Evaluation Criteria Box

Certain elements in the process definition design can be configured in a criteria box. For these evaluations, you can interact with the operators and variables that comprise the criteria in the following ways:

Criteria pills are movable via drag and drop:



Criteria can be inserted by placing a cursor at the point of insertion and then clicking on the operator or variable to insert:

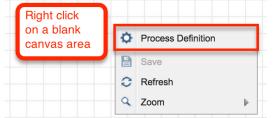
Criteria:	(S) Cases: Status changes to Closed (S) AND (S) Current User is admin (S)) (S) Record Owner has role of Sales, Aministrator (S)			
	AND OR NOT () x	Save		

Note: Never use single quotes (' ') or double quotes (" ") inside the criteria builder; the Advanced Workflow engine automatically recognizes input types when processing the condition.

For more information on defining criteria, please refer to the <u>Setting Conditions</u> section of this page.

Process Definition Settings

Every process definition has a well-concealed option to configure important overall settings. To access this option, simply right-click on any empty space on the process definition's design canvas and select the "Process Definition" menu item:



The Process Definition settings window will open where you can edit the name and description without exiting the designer. In addition, the settings window contains two tools for enhanced security over records that engage in processes triggered by the current process definition. The following sections describe how to configure <u>Terminate Process</u> conditions and how to prevent users from making changes to records during the process duration via <u>Locked Fields</u>.

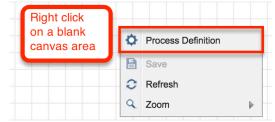
Process Definition				×
Process Name: *	Competitor account pro	cess		
Description:	Deactivates accounts w marked "Competitor."	hen they are		
Module:	Accounts	*		
Terminate Process:	Type is not equal to Competitor ③			
Locked Fields:	 Industry Office Phone Rating SIC Code 	 Name Ownership Shipping Address Ticker Symbol 		
			Cancel	Save

Terminate Process

All process definitions should include a condition for termination. Informally known as the process definition's "emergency brake," the Terminate Process settings can tell Sugar when NOT to start a process or under what conditions a process should abruptly end. If a process' target record meets the Terminate Process conditions, the process instance will instantly force stop and display a status of "Terminated" in the Process Management list. This setting is important to prevent conflicts between multiple running processes or conflicts between Sugar Advanced Workflow and other automated parts of your Sugar instance (e.g. Workflows, Sugar Logic, or third party customizations).

Follow these steps to define Terminate Process conditions for a process definition:

- 1. Navigate to the Visual Designer canvas for the relevant process definition.
- 2. Find a blank spot on the design canvas and right-click to access the Process Definition's general settings.
- 3. Click on "Process Definition".



4. The Process Definition settings will appear. Here you can edit the recordlevel settings and set Terminate Process criteria for this process definition.

Process Definition		×
Process Name: *	Lead approval	
Description:	Process to facilitate the approval of high value leads	
Module:	Leads ‡	
Terminate Process:		
Locked Fields:	Account Description Account Name Alt Address City Alt Address Country Alt Address Postal Alt Address State Code Code	
	Cancel	Save

5. Click inside the Terminate Process field to reveal the criteria builder.

Terminate Process:		٦
Locked Fields:	AND OR NOT ()	
	Evaluations	
	Module Field Evaluation	D

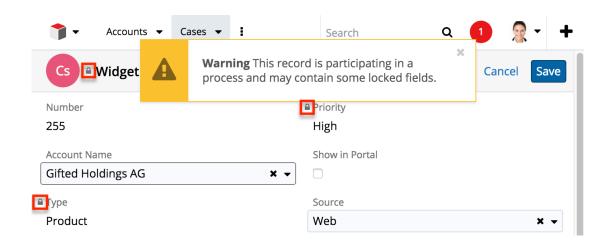
6. Refer to the <u>Module Field Evaluation</u> section of this page to build a conditional statement that, when met, will force-stop a running process that was triggered by this process definition.



7. Click "Save" to preserve this setting and return to the design canvas. Be sure to save the overall process definition before navigating away from the canvas.

Locked Fields

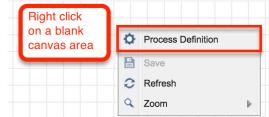
The Locked Fields feature of Advanced Workflow lets administrators, developers, and process administrators prevent users from changing select field data on records that are involved in active processes. Any number of fields (from none to all) can be locked on the record. When a record becomes involved in a process that has locked fields, that record will respect those field locks until the record is no longer participating in the process.



Note: Locked Fields configured in the Process Definition settings **do not apply to the process user** when he or she is executing the process. To prevent the process user from editing fields during the approve/reject or route stage, you must configure the fields as read-only on the Activity's <u>Read-Only Fields tab</u>.

Follow these steps to set Locked Fields for records participating in the current process definition:

- 1. Navigate to the Visual Designer canvas for the relevant process definition.
- 2. Find a blank spot on the design canvas and right-click to access the Process Definition's general settings.
- 3. Click on "Process Definition".



4. The Process Definition settings will appear. Here you can edit the recordlevel settings and set Locked Fields for this process definition. In the Locked Fields section, place a checkmark next to the field or fields for which you would like to prohibit editing:

Locked Fields:	Industry Industry	 Vame Dwnership Shipping Address Ticker Symbol 	
			Cancel Save

5. Click "Save" to preserve this setting and return to the design canvas. Be sure to save the overall process definition before navigating away from the canvas.

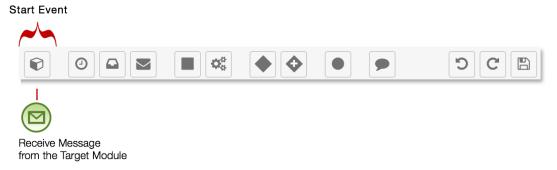
Note: Records that are processed through the job queue, imported, mass updated, or merged will undergo locked-field validation.

Adding a Start Event

A Start event indicates where a process will begin. It defines the action that will trigger a new process to run. The Start event will always be characterized by a module record in Sugar, but it will vary by whether it applies to new records or to qualified updates to the Sugar records.

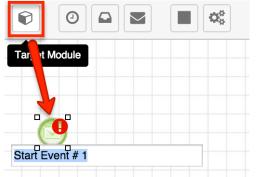
Note: The target module chosen in the process definition's record view is the module that is used for the Start event in the process definition design.

Start events are represented by the Sugar cube icon, the first icon on the design toolbar.

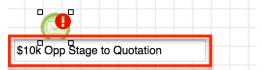


Follow these steps to add a Start event to the process definition:

1. Drag the Start event icon onto the Designer canvas.



2. Double-click the Start event icon's label to rename it.



Note: The Start event will have an error alert (!) icon warning you to add

an outgoing sequence connector. This is normal and will disappear after you create the next element and connect it to the Start event. For more information about element errors, refer to the <u>Resolving Errors in the</u> <u>Element Errors Panel</u> section of this page.

	Element Errors
	Interpret of the stage Quota and the stage
lk Opp to	Start Event must have an outgo sequence flow
ge	
tation	

3. To configure the Start event, right-click on the Start event icon and choose "Settings".

\$70k 🗘 Settings	
\$T0k 🌣 Settings Stage 🚊 Delete Quota	

4. Select an "Applies to" preference. Click on the down arrow to select how the process definition will be triggered to start. There are three options:



- **New Records Only** : A new process will begin if a record is created and the specified conditions are met on the first save.
- Updated Records Only (First Update) : A new process will begin the first time the specified conditions are met on an existing record, even if the record has been updated several times before it qualifies. Once a record meets the conditions to trigger a First Update process, it cannot trigger that process definition again.
- Updated Records Only (All Updates) : A new process will begin every time an existing record is saved and the specified conditions are met, as long as the process is not already running against the record. A given process definition can only run one process instance against a particular record at a time. However, it is important to note that two or more different process definitions may simultaneously run against the same record.
- 5. Click inside the Criteria field to expose the criteria builder and set the conditions for the Start event. Please refer to the <u>Creating Conditions for</u> <u>Events and Actions</u> section of this page to configure the conditions for the Start event.

Note: Comparison operators in <u>Start event evaluations</u> may not always work as expected for existing records that were last edited before the process definition was enabled. To ensure that existing records are evaluated properly for comparators such as "field changes from/to", perform an arbitrary mass update on the target module's records immediately after enabling the process definition so that Sugar can capture the "from" field values.

Adding Multiple Start Events

A single process definition may have multiple Start events as long as those Start events contain mutually exclusive criteria. In other words, only one Start event can evaluate to "true" for any given record. If it is possible for two or more Start events to evaluate as "true" against one Sugar record, the criteria for these Start events will be met simultaneously. Sugar Advanced Workflow does not support this type of configuration.

The following table demonstrates the proper and improper use of multiple Start events:

		Applies to	Criteria	Explanation
🛛 Good design	Start Event #1	Accounts; New Records Only	Type {is} Customer	A Sugar record cannot be simultaneously
	Start Event #2	Accounts; Updated Records Only (First Update)	Type {is} Customer	"new" and "updated" (i.e., existing). It is therefore impossible for these two Start events to evaluate as "true" at the same time, making them mutually exclusive.
🛛 Bad design	Start Event #1	Accounts; New Records Only	Type {is} Customer	This combination of Start event criteria is not mutually exclusive. A new account in Sugar may be

Start Event #2	Accounts; New records Only	Industry {contains} Manufacturing	classified as both "Manufact uring" and "Customer", which would make both events evaluate as "true". Instead, use one Start event with an OR operator between the two sets of
			two sets of criteria.

The "Good design" example above applies a process definition to both new and updated records by using one Start event triggered by "First Update" and a second Start event triggered by "New Records Only". When using multiple Start events, join each of them to the next element in the process definition with separate connectors. Multiple Start events in a process definition should always merge into a single path.

Adding Intermediate Events

As the name suggests, intermediate events occur after a process starts but before the process is complete. Intermediate events that are placed within the overall process flow represent things that happen during the normal operation of the process such as sending messages, receiving messages, or mandatory waiting periods.

Note: Intermediate events require the Advanced Workflow Scheduled Job scheduler to execute. If schedulers are not running, the flow of the process will be interrupted. For more information, please refer to the <u>Advanced Workflow</u> documentation.

Intermediate events are represented by the second group of icons on the design toolbar. There are three icons that each enable a configurable event.



The types of intermediate events are:

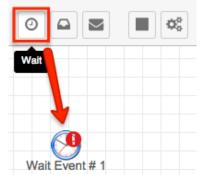
- <u>Wait Events</u>
- <u>Receive Message Events</u>
- <u>Send Message Events</u>

Wait Events

This element will stop the execution of a process by the time interval set in the configuration. Wait events support specified times as well as a calculated delta between two times or events.

Note: Schedulers, specifically the Advanced Workflow Scheduled Job, must be running to execute Wait events. If schedulers are not running or if the event is not properly configured, the flow will be halted indefinitely, thereby stopping the flow of the process. For more information, please refer to the <u>Advanced Workflow</u> documentation.

To add a Wait event to the flow, drag and drop the clock icon onto the canvas:



To configure this event, right-click on the icon and choose "Settings". A new window will display:

Event: Wait Event # 1	×
• Duration	
Duration: •	0
Unit: Minutes \$	
Fixed Date	
Criteria:	
	Cancel Save

The configuration window has two main options: Duration and Fixed Date. Choose one of these options to enable its configuration fields.

• **Duration** (radio button) : Choose this option to define the duration of the Wait event in minutes, days, or hours.

 Duratio 	n		
Duration: *	7		
Unit:	Days	[ŧ

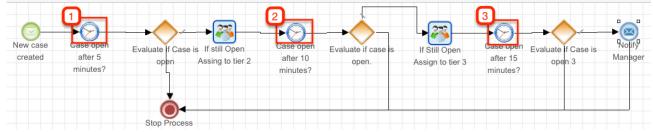
- **Duration** (text field) : Required field when "Duration" is selected above. Enter an integer to use in conjunction with the Unit field.
- $\circ~$ Unit (dropdown) : The duration defined in days, hours or minutes.
- **Fixed Date** (radio button) : Choose this option if the Wait event will be based on one or more of the record's datetime fields, a specific date, or a calculated formula. Formulas may be constructed using a combination of operators, Sugar variables, and constants.

Fixed Date	3
Criteria:	
	+ -
	Constants
	Fields

• **Criteria** : Click inside this field to reveal the criteria builder. Please refer to the <u>Creating Conditions for Events and Actions</u> section of this page for instructions on using the criteria builder.

A Wait event's clock begins when the Wait event is triggered. For example, the

following process definition contains three Wait events. Each one will pause and evaluate a running process at 5-minute intervals for an aggregate 15 minutes of wait time from the beginning until the end of the process definition.



While the Wait events enforce an evaluation at 5, 10, and 15 minutes into the process, the settings for each element need only account for the 5-minute span between timed events, and not its relative distance from the start of the process. Therefore, the Duration setting for each Wait event in this example should be set to 5 minutes.

Event: Wait	Event # 1	×
• Duration	1	
Duration: *	5	0
Unit:	Minutes	

Receive Message Events

This event will stop the flow of a process definition until the established criteria in the configuration are accomplished. In essence, it is a Wait event that pauses until a condition is met instead of for a specified duration. Most notably, Receive Message events can detect when a field's value changes or when it changes to or from a particular value.

Note: Schedulers, specifically the Advanced Workflow Scheduled Job, must be running to execute Receive Message events. If schedulers are not running or if the event is not properly configured, then the event will stop the flow of the process. For more information, please refer to the <u>Advanced Workflow</u> documentation.

To add a Receive Message event to the flow, drag and drop the Receive Message icon onto the canvas:

0
Receive Met age
Message
Event # 1

To configure this event, right-click on the icon and choose "Settings". A criteria builder window will display:



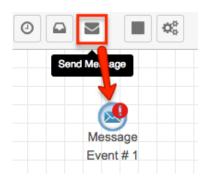
Click inside the Criteria field to reveal the criteria builder. Please refer to the <u>Creating Conditions for Events and Actions</u> section of this page for further instructions.

Send Message Events

This event is the only one that can send email messages. These messages must be created in the <u>Process Email Templates</u> module. Email recipients can be specified outright or configured using variables and wildcards.

Note: Schedulers, specifically the Advanced Workflow Scheduled Job, must be running to execute Send Message events. If schedulers are not running or if the event is not properly configured, the flow will ignore the event and continue running without sending any mail. For more information, please refer to the <u>Advanced Workflow</u> documentation.

To add a Send Message event to the flow, drag and drop the envelope icon onto the canvas:



Right-click on the canvas icon and select the option "Settings" to configure the event:

Event: Message Event # 1		
Module: *	Opportunities	
Email Template: *	Opportunity Approved!	
To: *	Record Owner	
Cc:	Supervisor 🕥 Jim Brennan 🕥	
Bcc:		
	Cancel	ave

- **Module** : (required) Choose the module that was set as the Target Module for the template record.
- **Email Template** : (required) Choose an email template from the dropdown list. This list will only display templates that use the target module specified in the previous field.
- To, Cc, Bcc : (The To: field is required) Specify the message's recipients.
 - Click inside the text area and type a full or partial recipient name or address into the window and Sugar will display a list of potential matches. Sugar will attempt to find the recipient by virtue of first name, last name, or email address.
 - To insert one or more specific email addresses (e.g., mail@example.com), type directly into the To, CC, or BCC field, pressing the Enter key after each address.
 - Click inside the text area to also reveal the following optional recipient types:

To: *	1	
Cc:	User	Ð
00.	Recipient	Ð
	Teams	Ð
	Role	Ð

User : Click on the User menu item to send a message to the user or manager of the user who created, modified, or is assigned to the specified module record. To add a user associated with a related module, choose a related module from the Module dropdown. All 1:1 and M:1 related modules are available.

User		G
Module		
<accounts></accounts>		\$
		_
User who	↓ ✓ created the record	5
	last modified the record	
	is assigned to the record	

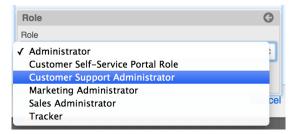
• **Recipient** : Click on the Recipient menu item to send a message to an email address stored in the Sugar database within the target or a related module. You must specify which module field contains the email address. To add a recipient associated with a related module, choose a related module from the Module dropdown. All 1:1 and M:1 related modules are available.

Recipient		G
Module		
<accounts></accounts>		\$
Email Address Field		
Email Address		÷
	Submit	

• **Teams** : Click on the Teams menu item to send a message to the <u>explicit members of a Sugar team</u>. Inactive and private teams are hidden from this list.

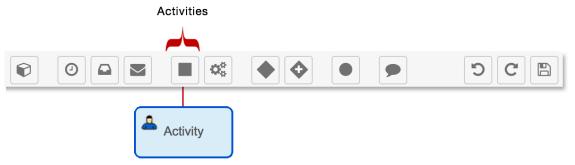
Teams		G
Team		
East		\$
	Submit	

• **Role** : Click on the Role menu item to send a message to all of the users associated with a specified Sugar role.



Adding Form Activities

The only unit of work that requires user interaction (opposed to automation) is an Activity. It is a moment within a flow where a user must decide if a circumstance is approved or rejected, or review a record that has been routed to them. Activities are represented by the solid square icon on the design toolbar:



Activities pause a process until a user makes a decision to either approve or reject the record or indicates that they have reviewed a record that has been routed to them. When a process reaches this point in the flow, the appropriate user will see a line item in their Processes dashlet or Processes module list view. An Activity form element is configured in two steps. First, configure the <u>Forms</u> setting and then configure the <u>Users</u> setting.

To add a Form activity to the process definition's flow, drag and drop the Activity icon onto the canvas:



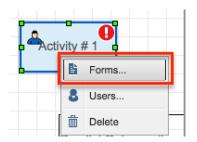
Forms Setting

The "Forms..." setting controls what type of form the process user will see when they are asked to execute this activity. The process user must be separately configured in the "<u>Users...</u>" setting. There are two types of Activity form:

- **Approve/Reject** : This type of form will present itself as an Approve button and a Reject button on the record view of the record that triggered the process. A Gateway element must be placed after the Approve/Reject activity in order to specify a flow for approval as well as a flow for rejection.
- **Route** : This type of form should be used to ensure that a record within a process has been viewed or edited by the user configured in the Activity's "<u>Users...</u>" setting. The form will present itself as a Route button on the record view of the record that triggered the process. The process user has the option to edit the record before clicking the Route button. The administrator may choose to ensure only relevant fields are edited by leveraging the <u>Read Only Fields</u> and <u>Required Fields</u> options for this activity.

Note: If an activity is not properly configured, it will default to an Approve/Reject form.

To configure the Forms setting for an activity, right-click on the icon and select "Forms...".



A configuration window will open. The configuration window has four tabbed sections.

- <u>General Tab</u>
- <u>Read-Only Fields Tab</u>
- <u>Required Fields Tab</u>
- Expected Time Tab

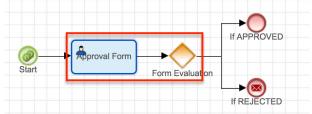
These are explained in detail in the following sections.

General Tab

View the General tab (displayed by default) to choose a form type for the activity.

Activity:	Activity # 1				ж	
General	Readonly fields	Required fields	Expected Time			
	Form Buttons: Approve/Reject					
Othe	er Routing Options:					
Change A	ssigned To User:					
	Team: Global \$					
Select New Process User:						
	Team: Global \$					
				Cancel	Save	

- Form Buttons : Select the type of form to display.
 - **Route** : The user will be prompted to acknowledge that they have reviewed and optionally edited/commented on the record.
 - Approve/Reject (default) : The user will be prompted to approve or reject a circumstance. Approve/Reject Form activities should always be followed by a <u>Gateway element</u> with <u>Form Response Evaluation</u> criteria to define the next step of the process in the case of approval or rejection.



- Other Routing Options: During a Form activity's execution, the process user may be given the option to reassign the record associated with the process. It may be appropriate to create specialized teams for users who will be engaged in particular parts of a process. For more information about managing teams and users, see the <u>Team Management</u> and <u>User Management</u> sections of the Administration Guide.
 - **Change Assigned To User** : Enabling this option will add the "Change Assigned To User" option to the actions menu of the process execution screen, as seen here:

Арр	rove Reject Edit 👻
	History
	Status
	Add Notes
	Change Assigned To User

When the process activity is executed, the process user must select this option if they want to change the Sugar record's Assigned To user. The process user can only assign a user from the team configured by admin in the team field under "Other Routing Options".

Other Routing Options:			
Change Assigned To User:			
	Team:	East	\$

 Select New Process User : Enabling this option will add the "Select New Process User" option to the actions menu of the process execution screen, allowing the designated process user to delegate the Form activity to someone else. The process user can only select a new user from the team configured by admin in the Team field under "Other Routing Options".

Арр	ove Reject Edit 👻
	History
	Status
	Add Notes
	Change Assigned To User
	Select New Process User

The current process user may select a new process user from the team configured by admin in the "Other Routing Options" Team field.

Select New Process User:				_
		Team:	East	\$

Read-Only Fields Tab

Here, the administrator can restrict the process user from editing some or all fields on the Sugar record for which the process applies. Place a checkmark next to the fields that should not be edited during the form processing step.

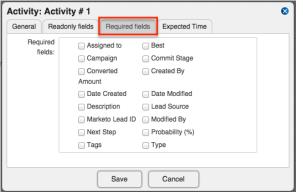


Note: Fields configured as $\underline{Locked Fields}$ in the Process Definition settings do not

apply to the process user when he or she is executing the process. To prevent the process user from editing a field during the approve/reject or route stage, you must configure the fields as read-only in the activity's Read-Only Fields tab.

Required Fields Tab

In this tab, the administrator can require the process user to complete some or all fields on the Sugar record for which the process applies. Place a checkmark next to the fields that must be populated during the form processing step.



Expected Time Tab

Complete the fields in the Expected Time tab to set a timeout interval for the process user to execute this activity. When the time specified in the Duration field has expired, the activity will be considered overdue. If an Activity is overdue, the Due Date property will be shown in red on the process execution screen and the process will appear in the "Overdue" tab of the My Processes dashlet.

Activity: Activity # 1				
General Readonly fields	Required fields Expected Time			
Duration:		0		
Unit:	Hours 💠			
	Save Cancel			

Users Setting

The "Users..." setting controls which user will be responsible for executing the process activity form. When a process reaches the activity in a flow, the process

user will see a line item in their Processes dashlet or Processes module list view. The form type and other options must be separately configured in the "Forms..." setting.

Note: The Assignment Method chosen here refers only to the user that will execute the process, or "Process User". References to the Sugar record's assigned user are labeled "Assigned To User".

To configure the Users setting for an activity, right-click on the icon and select "Users...".

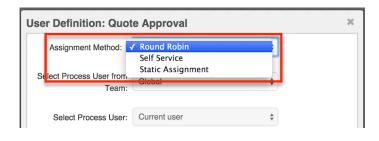


A configuration window will open. Choose one of the following process user assignment methods from the dropdown list:

- Static Assignment
- <u>Round Robin</u> (default)
- <u>Self Service</u>

These three options are explained in detail in the following sections.

Note: If this activity type is not properly configured, it will default to the Round Robin process-assignment method for the Global team.



Static Assignment

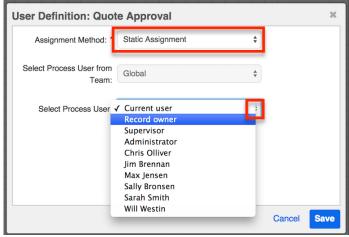
Choose "Static Assignment" to assign process Activities to a specific process user. You can also select one of the following variable user types:

• **Current User** : The Current User refers to the last process user who has been defined in the process definition. If no process user has been previously defined, the Current User will be the user who is in the Assigned

To field of the targeted Sugar record.

- **Record Owner** : The Record Owner is the user who is in the Assigned To field of the targeted Sugar record.
- **Supervisor** : When selected, the supervisor of the user who is in the Assigned To field of the targeted Sugar record will be prompted to execute this process activity. This relationship must be configured in the "Reports to" field of the Users module. For more information about editing User fields, please refer to the <u>User Management</u> page of the Administration Guide.

Static Assignment will disable the Team configuration option in this window and require only the Select Process User field to complete the configuration.



Round-Robin

Choose the Round Robin assignment method to equally distribute process activities to the <u>explicit members of a team</u> in a take-your-turn fashion. For example, if Jim and Sally belong to team "East," a Round Robin distribution for team East will assign the activity to Jim the first time it runs, to Sally the second time it runs, and then to Jim again on the third execution (and so on). The processing order of Round Robin activities is based on the Created By date of the user record in the Users module.

Round Robin will disable the Select Process User option in this window and require only the "Select Process User From Team" field to complete the configuration.

User Definition: Quote Approval	×
Assignment Method: * Round Robin \$	
Select Process User from Team East West Select Process User: Current user	
Cancel Sa	ve

Self Service

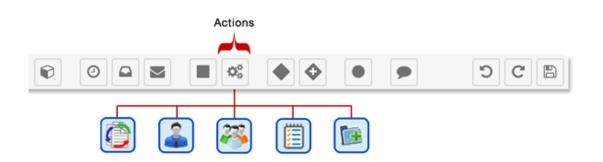
Choose the Self Service assignment method to allow any user of a specified team to claim the activity in a process. By enabling users to claim process activities as they have time for them, Self Service assignment reduces congestion in the workflow. Self Service activities that are ready to be claimed will appear in the Self Service Processes tab of the Processes dashlet.

Self Service will disable the Select Process User option in this window and require only the "Select Process User From Team" field to complete the configuration.

User Definition: Quote Approval	×
Assignment Method: * Self Service +	
Select Process User from Team East West Select Process User: Current user	
Cancel Sav	/e

Adding Actions

Actions are automated elements used to execute a business rule, create or update a Sugar record, or designate a process user. Actions are completed by the Advanced Workflow engine and do not require any human interaction to execute. There are five types of actions available in the Visual Designer and they are all represented by a single icon on the design toolbar:



The action must be configured after adding it to the designer canvas. The five available action types are:

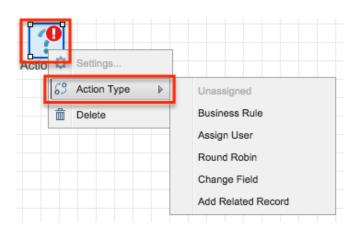
- Business Rule
- Assign User
- Round Robin
- <u>Change Field</u>
- <u>Add Related Record</u>

To add any of these actions to a process definition, drag and drop the Action icon from the design toolbar onto the Visual Designer canvas:



Note: The Action will have an error alert (!) icon warning you to add an outgoing sequence connector. This is normal and will disappear after you create the next element and connect it to the action. For more information about element errors, refer to the <u>Resolving Errors in the Element Errors Panel</u> section of this page.

The Action will display a question mark image until it has been configured. Rightclick on the Action icon to configure the action type. By default, an Action element is configured as type "Unassigned". This is simply to prevent a non-configured Action from affecting the Process flow. You must choose one of the Action Types and then configure the appropriate settings.



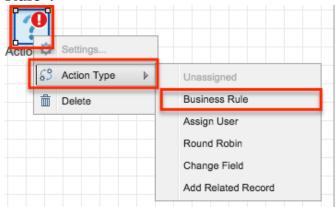
- **Settings** : This option will be grayed out until an action type is selected.
- Action Type : Choose the type of action this element will execute. These options are explained in detail in the remaining <u>Adding Actions</u> sections of this page.
- **Delete** : Remove the element from the canvas.

Business Rule

This Action type allows the administrator to select a <u>process business rule</u> in order to return a corresponding value. Business Rule actions must be followed by a Gateway element to analyze the rule's return value. Follow these steps to add a process business rule to the process definition:

Note: The process business rule must already be configured and saved in the <u>Process Business Rules</u> module in order for it to be available in the Action's settings and must utilize the same target module as the process definition.

1. Right-click on the Action icon and then select Action Type > "Business Rule":

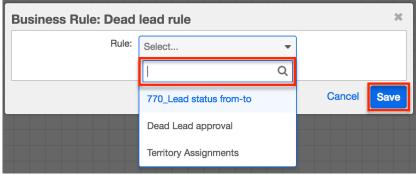


2. The Action's icon will change to:

3. Right-click on the icon again and choose "Settings":



4. Select the appropriate process business rule and then click the Save button. Please note that the Rule dropdown list will only display rules that were configured for the same target module as the process definition's target module.



5. Now place a gateway element to the right of the business rule icon. Connect the business rule action to the gateway using a <u>sequence</u> <u>connector</u>.

Note: The gateway element is required in conjunction with a business rule action.

- 6. Determine the number of possible outcomes for the business rule. Drag the corresponding elements for each icon (any combination of events, actions, or activities) to the design canvas, just to the right of the gateway.
- 7. Connect the gateway to these elements using sequence connectors.
- 8. Finally, configure the gateway criteria before moving on. The gateway will evaluate all possible outcomes of the business rule and direct the flow of the process to the next element as appropriate. Please refer to the <u>Adding</u> <u>Gateway Elements</u> section of this page for more information.

Assign User

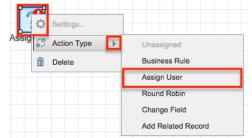
This Action type allows the administrator to specify a new process user or the user who will be responsible for the remaining part of the process. Assign User actions should be followed by an <u>Activity</u> for the process user to complete. When a process reaches this point in a flow, the process user will see a line item in their Processes dashlet or Processes module list view.

Follow these steps to add an Assign User action to the process definition:

Note: If an Assign User action is not properly configured, it will stop the flow of

the process.

1. Right-click on the Action icon and then select Action Type > "Assign User":



2. The Action's icon will change to:



3. Right-click on the icon and choose "Settings":

Assign u	٥	Settings	
	69	Action Type	►
	È	Delete	

4. The Settings dialog window has two options:

Assign User: Action # 1	ж
Select Process User: * Jim Brennan	*
Update "Assigned To" on record:	
	Cancel Save

- **Select Process User** : Select the name of the user that will be responsible for the remaining process steps, until the process ends or a new process user is designated. The Dropdown list will only display users that have an Active status in the Users module.
- **Update "Assigned To" on record** : Enable this option to automatically change the Sugar record's "Assigned To" field to the process user chosen in the previous field. If the new user is not already a member of any of the teams on the record, the Advanced Workflow engine will append the user's private team to the record for visibility purposes.

Click "Save" to preserve these settings and return to the visual designer canvas.

Round Robin

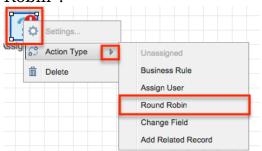
This Action type will assign the overall process flow to the members of a team in a take-your-turn fashion. Round Robin actions are usually followed by an <u>Activity</u> for

the process user to complete. For example, if Jim and Sally belong to team "East", a Round Robin distribution for team East will assign the upcoming activity to Jim the first time it runs, to Sally the second time it runs, and then to Jim again on the third execution (and so on).

Note: The processing order of Round Robin activities is based on the Created By date of the user record in the Users module.

Follow these steps to add a Round Robin action to the process definition:

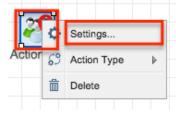
1. Right-click on the Action icon and then select Action Type > "Round Robin":



2. The Action's icon will change to:



3. Right-click on the icon and choose "Settings":



4. The Settings dialog window has two options:

Round Robin: Action # 1			×
Select Process User from Team:	Global	\$	
Update "Assigned To" on record:			
		Cancel	Save

- **Select Process User from Team** : Select the name of the team from which a member will be chosen to be responsible for the remaining process steps. If the Round Robin team is not already related to the record engaged in the process, then the record's team set will be appended with the Round Robin team.
- **Update "Assigned To" on Record** : Enable this option if the Sugar record's Assigned To field should also be updated according to the team member chosen in the previous field.

5. Click "Save" to preserve these settings and return to the visual designer canvas.

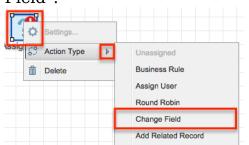
Change Field

This Action type will change the value of one or more fields on the target Sugar record or on a record related to the target Sugar record with a one-to-one or many-to-one relationship. Please note that calculated fields, including the Forecast field in the Revenue Line Items module (or in the Opportunities module if Revenue Line Items are disabled), cannot be modified by a Change Field action.

Note: If a Change Field action is not properly configured, the flow will ignore the action and continue running without changing any fields.

Follow these steps to add a Change Field action to the process definition:

1. Right-click on the Action icon and then select Action Type > "Change Field":



2. The Action's icon will change to:



3. Right-click on the icon again and choose "Settings":



4. The Change Fields window will appear. The Module field will be prepopulated according to the target module specified in the process definition's record view, and that module's available fields will be listed below.

Module:	<opportunities> +</opportunities>		
Fields:	Best	٥	
	Commit Stage	\$	
	Description	•	
	Expected Close Date*		
	Lead Source	\$	
	Likely*	٥	
	Marketo Lead ID	A.	

5. Optionally, click on the Module field to edit a record in a module related to the target module. Only modules with a one-to-one or many-to-one relationship to the target module will be available.

Module	Copportunities>	
	Accounts (Accounts: accounts)	
Fields	Campaigns (Campaign Opportunity: campaign_opportunities Users (Assigned to User: assigned_user_link))
	Users (Created User: created_by_link) Users (Modified User: modified_user_link)	
	Leon	

6. To have the process definition update a particular field, you must first enable that field for editing by clicking inside the field's adjacent checkbox.

Vext Step	Call to negotiate	5	
Opportunity Name*			
Probability (%)			
Sales Stage*	Negotiation/Review		÷

Note: Each field will be locked from editing until its corresponding checkbox is selected.

- 7. Enter or select the desired field value. Fields that display a Settings
 icon support <u>advanced configurations</u>.
- 8. Click "Save" to preserve these settings and return to the Visual Designer canvas.

Advanced Configuration Options for Change Field Actions

The following field types support advanced configuration options for Change Field actions, as indicated by the Settings th icon.

Text Fields

To specify the value of a text field, use any combination of Sugar field variables and text strings. For example, to append the Opportunity's Likely Amount to an existing Opportunity name, follow these steps. In this example, a \$100 opportunity named "5 Widgets" will be updated to "5 Widgets - \$100". 1. Enable the checkmark next to the field name that you want to edit, and then click on the Settings icon next to the empty field:

¢

Opportunity Name*	
-------------------	--

2. Click on Opportunities Fields > Opportunity Name. This will insert a variable into the Opportunity Name field that references the current value of the field when the corresponding process reaches this point in the flow.

Opportunity Name*	{::Opportunities::name::}	\$
Probability (%)	Opportunities fields	٥
Sales Stage*	Opportunity Name	
C. Curre de Manduete Corres	Probability (%)	_
 Sync to Marketo® Type 	Worst	

- 3. Place the cursor inside the field immediately after the variable and type a space or hyphen character for formatting.
- 4. Click on the Settings icon again.
- 5. Click on Opportunities Fields > Likely to insert a second field variable.

Opportunity Name*	s::name::} - {::Opportunities::amount::}	۵
Probability (%)	Opportunities fields	٥
Sales Stage*	Expected Close Date	
Sync to Marketo®	Likely	
Type	Marketo Lead ID	

6. When the formula is complete, the field value container will look similar to this:

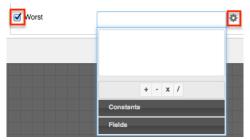
Opportunity Name*	{::Opportunities::name::} - {::Opportunities::amount::}	\$
-------------------	---	----

Note: If a Change Field action references a field variable that is also changed by the action, the variable will reflect the value of the field before the change field action executes. For example, if the action changes the Probability field to {probability + 1}, and the same action also inserts the Probability field variable into the Description field, after saving, the description will display {probability} and the Probability field will equal {probability + 1}.

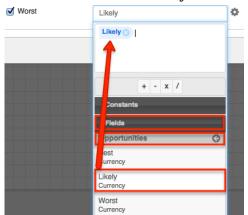
Number Fields

To create a calculated value for number fields, use some combination of operators, Sugar variables, and constants. For example, to calculate the Worst Amount field to contain 50% of the value of the Likely Amount field, follow these steps:

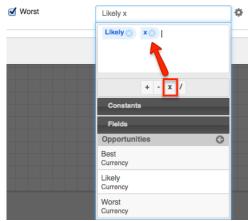
1. Enable the checkmark next to the field name that you want to edit, and then click on the Settings icon next to the empty field:



2. In the criteria builder, place the variable for "Likely Currency" onto the criteria window by clicking on Fields > Opportunities > Likely Currency. This will automatically add the variable to the window:



3. Click on the multiply (x) operator from the Operators list to add it to the formula window:



4. Now tell the criteria builder to multiply the Likely amount by half, or 0.5. Click on Constants > String, Number and Boolean > type "0.5" in the Value field (with no quotes) and then click "Add Number" to move the value to the criteria builder canvas.

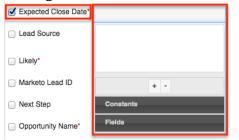
G Worst	Likely x 0.5	Ф
	Likely 3 x 3 0.5 3	
	+ - x /	
	String, Number and Boolean	
	Value 0.5	
	add number	
	Fields	

5. When the formula is complete, click away from the criteria builder window to see the formula in the field value container:

G Worst	Likely x 0.5	Ф
---------	--------------	---

Date Fields

Date and datetime fields will reveal a criteria builder where the admin can calculate a particular value. Please see the Fixed Dates section of the <u>Creating</u> <u>Conditions for Events and Actions</u> documentation on this page to learn how to configure date fields.



User Fields

For Change Field actions, user fields support the following variable user types relative to the record that triggered the running process:

- Created by User : The user who created the trigger record
- **Current User** : The user defined as the process user within the process definition
- Last Modified by User : The user who last modified the trigger record
- **Record Owner** : The user assigned to the trigger record
- **Supervisor** : The supervisor of the user assigned to the trigger record

Add Related Record

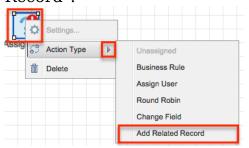
This Action type will create a new Sugar record and relate it to the target Sugar record. Please note that the values of calculated fields, including the Forecast field in the Revenue Line Items module (or in the Opportunities module if Revenue Line Items are disabled), cannot be directly modified by an Add Related Record action.

When the Advanced Workflow engine creates a new record, the record's assigned user will receive an assignment notification email if notifications are enabled in Sugar's system settings and the user has enabled notifications in their user profile. For more information on assignment notifications, please refer to the <u>Getting</u> <u>Started</u> documentation in the Application Guide and the <u>Email</u> documentation in the Administration Guide.

Note: If an Add Related Record action is not properly configured, the flow will ignore the action and continue running without creating a new record.

Follow these steps to add an Add Related Record action to the process definition:

1. Right-click on the Action icon and then select Action Type > "Add Related Record":



2. The Action's icon will change to:



3. Right-click on the icon and choose "Settings":



4. The Add Related Record window will appear. The Related Module field will be pre-populated according to the target module specified in the process definition's record view.

Related Module:	<opportunities></opportunities>	÷		
Fields:	Assigned to	Administrator	\$	
	Best			
	Commit Stage		\$	
	Custom Field			
	Description			
	Expected Close Date*		//	
	Lead Source		\$	

5. Click on the Related Module field to select the record type that the process will create. Only modules with a one-to-many or many-to-many relationship to the target module will be available.

Module	/ <opportunities></opportunities>	
	Accounts (Accounts: accounts)	
	Campaigns (Campaign Opportunity: campaign_opportunities)	
Fields	Users (Assigned to User: assigned_user_link)	
	Users (Created User: created by link)	
	Users (Modified User: modified_user_link)	
	Desi	

6. Complete the fields that the Advanced Workflow engine will populate in the related record. Any fields that are required by the module (indicated by a red asterisk) must be configured in this step.

I: Action # 5		30				
Notes (opportunity_notes	tes (opportunity_notes - one-to-n \$					
Assigned to	Administrator \$					
Description	This opportunity is in pre-negotiation stage.					
Display in Portal?						
Subject*	Waiting for negotiations to commence					
	Cancel	Save				
	Notes (opportunity_notes Assigned to Description Display in Portal?	Notes (opportunity_notes - one-to-n) Assigned to Administrator Description This opportunity is in pre-negotiation stage. Display in Portal?				

Fields that display a Settings 🌣 icon support advanced configurations.

7. Click "Save" to preserve these settings and return to the Visual Designer canvas.

Advanced Configuration Options for Add Related Record Actions

The following field types support advanced configuration options for Add Related Record actions, as indicated by the Settings ⁽¹⁾/₍₂₎ icon.

Text Fields

To specify the value of a text field, use any combination of Sugar field variables and text strings. For example, when creating a follow-up task related to a target opportunity, follow these steps to use the opportunity's Name field in the subject of the task. In this example, a task related to an opportunity named "5 Widgets" will have the subject "Follow up - 5 Widgets".

1. Click on the Settings

icon next to the empty field, then choose Opportunities Fields > Opportunity Name. This will insert a variable into the Subject field that references the opportunity when the corresponding process reaches this point in the flow.



2. Place the cursor inside the field immediately before the variable and type "Follow up: " Include a space or hyphen character for formatting. When the formula is complete, the field value container will look similar to this:

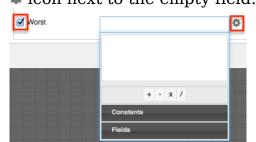
Subject*

Follow Up - {::Opportunities::name::}

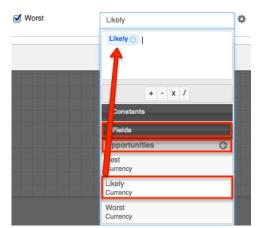
Number Fields

To create a calculated value for number fields, use some combination of operators, Sugar variables, and constants. For example, to calculate the Worst Amount field to contain 50% of the value of the Likely Amount field, follow these steps:

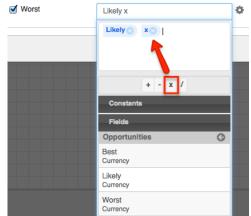
Click on the settings
 icon next to the empty field:



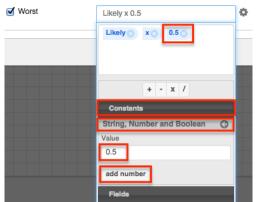
2. In the criteria builder, place the variable for "Likely Currency" onto the criteria window by clicking on Fields > Opportunities > Likely Currency. This will automatically add the variable to the window:



3. Click on the multiply (x) operator from the Operators list to add it to the formula window:



4. Now tell the criteria builder to multiply the Likely amount by half, or 0.5. Click on Constants > String, Number and Boolean > type "0.5" in the Value field (with no quotes) and then click "Add Number" to move the value to the criteria builder canvas.



5. When the formula is complete, click away from the criteria builder window to see the formula in the field value container:

G Worst	Likely x 0.5	Ф
_		

Date Fields : Date and datetime fields will reveal a criteria builder where the admin can calculate a particular value. Please see the Fixed Dates section of the

<u>Creating Conditions for Events and Actions</u> documentation on this page to learn how to configure date fields.

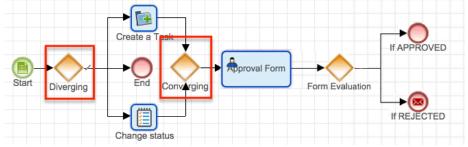
Expected Close Date*	
Lead Source	
Likely*	
Marketo Lead ID	+ •
Next Step	Constants
Opportunity Name*	Fields

User Fields : For Add Related Record actions, user fields support the following variable user types relative to the record that triggered the running process:

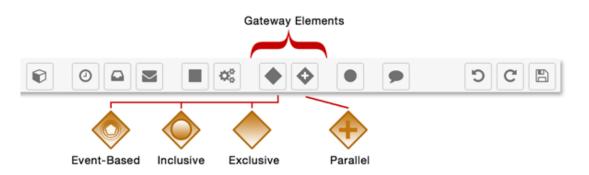
- **Created by User** : The user who created the trigger record
- **Current User** : The user who is defined as the process user within the process definition
- Last Modified by User : The user who last modified the trigger record
- Record Owner : The user assigned to the trigger record
- **Supervisor** : The supervisor of the user assigned to the trigger record

Adding Gateway Elements

Gateways are connective elements used to control the flow of a process via merging and splitting. When a single activity may result in several different outcomes, a Gateway serves as a splitting mechanism (i.e., divergent element). When several activities may result in a common outcome, a Gateway serves as a merging mechanism (i.e., convergent element).



A Gateway is represented as a diamond in the Visual Designer and by the fourth group of icons on the design toolbar. There are two icons that each enable at least one type of configurable divergent or convergent moment. To add a Gateway element to a process definition, drag and drop one of the two Gateway icons onto the designer canvas. Right-click on the diamond-shaped icon that appears in order to define a Gateway type, direction, and configure its settings.



The four types of Gateways are explained in the following sections.

Gateway Type	Divergent	Convergent	Use
<u>Exclusive Gateway</u>			When divergent, determines a single outgoing path based on data conditions; When convergent, accepts only the flow that reaches it first
Inclusive Gateway			Evaluates all criteria to determine one or more outgoing paths
<u>Parallel Gateway</u>			When divergent, begins the concurrent execution of all outgoing paths; When convergent, waits for completion of all concurrent paths
<u>Event-Based</u> <u>Gateway</u>			Evaluates Wait events and Receive Message events, creating a "race" condition

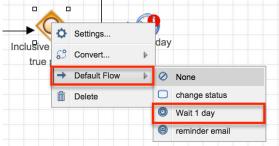
Note: A convergent gateway is usually required after a divergent gateway, but not always. Carefully consider the outcome for each path in all possible user scenarios and be sure to use the appropriate End event(s). When divergent paths do not

converge, you will most likely need to use <u>Terminate Process</u> End events. For more information on End events, please refer to the <u>Adding End Events</u> section of this page.

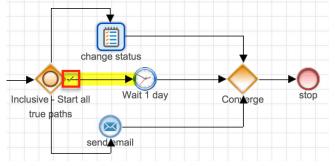
Default Sequence Flows

There must be one - and only one - default sequence flow defined per divergent gateway object. Default sequence flows represent the path your process takes when none of the defined gateway conditions evaluate to true. The default flow element should be defined before you configure any other criteria for the outgoing flows. Default flow elements require no conditions and will therefore not have a corresponding Criteria field in the Gateway's criteria builder pop-up. For more information on setting Gateway criteria, please refer to the <u>Creating Conditions for Events and Actions</u> section of this documentation.

To define a default sequence flow, first, connect the Gateway to all possible outcome elements. Next, right-click on the Gateway icon and hover over the Default Flow option. A menu will appear listing all of the potential flow routes from the Gateway. Select the element that should occur when no criteria are met by the others.



After defining the default flow, the sequence connector leading to the default flow element will be distinguished by a small hash mark through the connector line:



For more information on interacting with sequence connectors, please refer to the <u>Sequence Flow</u> section of this documentation.

Exclusive Gateways



Exclusive gateways can be used to diverge or converge flow elements in a process. Exclusive gateways will evaluate several conditions but only direct the flow to or from a single path in the flow.

Divergent Exclusive Gateway

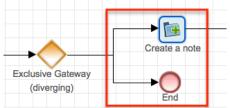
Only one path will succeed from an Exclusive gateway, and it will be the one that first accomplishes its start criteria.

Note: You must define a <u>default sequence flow</u> for divergent Exclusive gateways to account for situations where all criteria are false.

- If several criteria are true, the flow will be routed through the first (topmost) flow that evaluates as true.
- If no criteria are true, the flow will be routed through the <u>default flow</u>. If you have not set a <u>default flow</u>, the process definition will be blocked by this element.

Follow these steps to configure a divergent Exclusive gateway:

- 1. Drag the Exclusive gateway icon onto the designer canvas.
- A divergent Gateway requires two or more subsequent elements (any combination of intermediate events, end events, actions, and/or activities). These must be placed on the canvas and <u>connectors</u> must join the elements on the canvas before the Gateway can be configured.

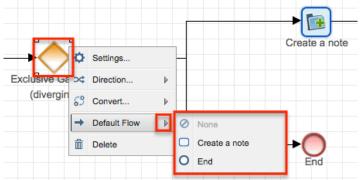


3. Once the Gateway has been connected to the subsequent elements, rightclick on the Gateway icon and select Direction > Diverging:

	≫	Direction	×	Converging
Ex			 5.2	D: :
	82	Convert	¥.	Diverging

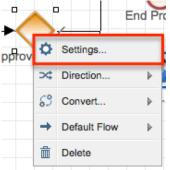
4. Specify a <u>default flow</u> for the Gateway. If no criteria are fulfilled, the flow

will be routed through the default one. From the visual designer canvas, right-click on the Gateway icon and hover over the Default Flow option. A menu will appear listing all of the potential flow routes from the Gateway. Select the element that should occur when no criteria are met by the others.



Note: The route set as default will not appear in the Criteria configuration window (step 6).

5. Right-click on the element again and select the option "Settings".



- 6. A pop-up window will appear with a separate Criteria field for each potential outcome except the default one, which requires no criteria.
 - Click inside each criteria field to display the criteria builder tool. Refer to the <u>Creating Conditions for Events and Actions</u> section of this page for criteria builder instructions.
 - Drag and drop the Criteria fields in descending order of priority.

Gateway: Exclusive	Gateway (diverging)		×
Criteria (Create a note):	Best is less than 5000 🌍	AND _③	Probability (%) is less than 50 (3)	
Criteria (End):	Current user is admin 🕥			∲
				Cancel Save

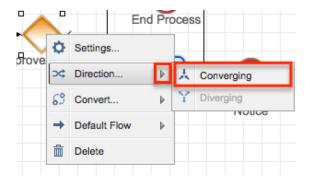
The criteria will be evaluated as they are presented in this window from top to bottom. Only one path will succeed from an Exclusive gateway, and it will be the one that first accomplishes its criteria. The remaining criteria will not be evaluated. If no criteria are fulfilled, the <u>default flow</u> will succeed (see step 4).

7. Click "Save" to return to the design canvas and continue building the process definition.

Note: A convergent gateway is usually required after a divergent gateway, but not always. Carefully consider the outcome for each path in all possible user scenarios and be sure to use the appropriate End event(s). When divergent paths do not converge, you will most likely need to use <u>Terminate Process</u> End events. For more information on End events, please refer to the <u>Adding End Events</u> section of this page.

Convergent Exclusive Gateway

This Gateway joins multiple paths in a single thread, but only accepts the first flow that reaches the Gateway; the other flows will not be evaluated after that. There are no settings for this element. To configure this Gateway as a convergent element, right-click on the Gateway element and select Direction > Converging:



Inclusive Gateways



Inclusive gateways are divergent elements that direct a process' flow along all of the paths that accomplish their criteria. This may result in one flow or multiple parallel flows.

Note: You must define a <u>default sequence flow</u> for Inclusive gateways to account for situations where all criteria are false.

• If only one set of criteria evaluates as true, the flow will follow that single path.

- If several criteria are true, the flow will be routed in parallel along all paths that evaluate as true.
- If no criteria are true, the flow will be routed through the <u>default flow</u>. If you have not set a <u>default flow</u>, the Process Definition will be blocked by this element.

Follow these steps to configure an Inclusive gateway:

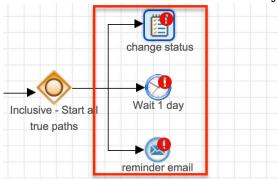
- 1. Drag the Exclusive gateway icon onto the designer canvas.
- 2. Right-click on the Gateway icon and select Convert > Inclusive Gateway.



- The icon will transform from an empty diamond to a diamond containing a circle.
- Please note that the label will not automatically update and may still be labeled as "Exclusive". Edit this label as appropriate for your process.



3. A divergent Gateway requires two or more subsequent elements (any combination of intermediate events, end events, actions, and/or activities). These must be placed on the canvas and <u>connectors</u> must join the elements on the canvas before the Gateway can be configured.

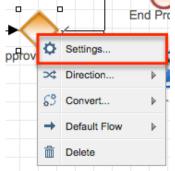


4. Once the Gateway has been connected to the subsequent elements, specify a <u>default sequence flow</u> for the Gateway. If no criteria are fulfilled, the flow will be routed through the default one. From the visual designer canvas, right-click on the Gateway icon and hover over the Default Flow option. A menu will appear listing all of the potential flow paths from the Gateway. Select the element that should occur when no criteria are met by the

others.					
	-				
	٥	Settings		day	
true i	69	Convert	₽		
	+	Default Flow	►	0	None
	曲	Delete			change status
				۲	Wait 1 day
			1	0	reminder email

Note: The path set as default will not appear in the Criteria configuration window (step 6).

5. Right-click on the Gateway again and select "Settings".



- 6. A pop-up window will appear with a separate Criteria field for each potential outcome except the default one, which requires no criteria. Click inside each criteria field to display the criteria builder tool. Refer to the <u>Creating Conditions for Events and Actions</u> section of this page for criteria builder instructions.
- 7. Click "Save" to return to the design canvas and continue building the process definition.

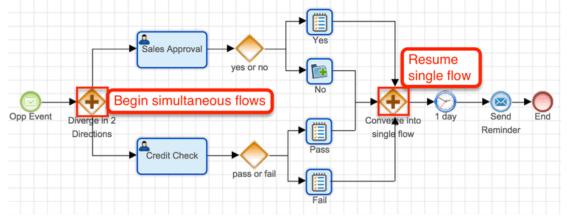
Note: A convergent gateway is usually required after a divergent gateway, but not always. Carefully consider the outcome for each path in all possible user scenarios and be sure to use the appropriate End event(s). When divergent paths do not converge, you will most likely need to use <u>Terminate Process</u> End events. For more information on End events, please refer to the <u>Adding End Events</u> section of this page.

Parallel Gateways



Use a Parallel gateway in a complex process that has multiple things happening all at once (or "parallel" to each other). Unlike other gateways, there is no evaluation inside this gateway; it simply tells the process that two or more flows are about to happen at the same time.

Parallel gateways can be divergent or convergent. Divergent Parallel gateways will direct parallel flows, whereas convergent Parallel gateways will receive parallel flows. The same gateway is used for diverging and converging:

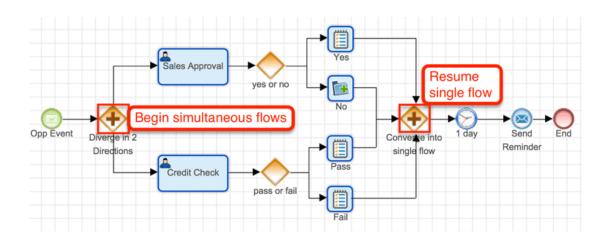


Divergent Parallel Gateway

The divergent Parallel gateway divides the flow into two or more elements in parallel until a subsequent (convergent) Parallel gateway or until the paths are legally terminated via End events. For example, in the screenshot above, the process requires approval from the sales manager and a credit check from the accounting department. If you tried to use an Exclusive gateway for this, it would enforce only one of these options (sales approval OR credit check). But using a Parallel gateway, the process can branch off in both directions at the same time and then converge later. When the parallel flows reconvene, use a convergent Parallel gateway to merge them.

Note: All divergent Parallel gateways must have a convergent Parallel gateway to close out the multiple paths; otherwise, the engine leaves them active.

The following example demonstrates a process where the Parallel gateway is leveraged to kick off two separate functions. The top flow starts the approval and specifies behavior for approve/reject response. The bottom flow starts a separate flow and eventually, a convergent parallel gateway is used to resume a singular flow for the process.



Note: A convergent gateway is usually required after a divergent gateway, but not always. Carefully consider the outcome for each path in all possible user scenarios and be sure to use the appropriate End event(s). When divergent paths do not converge, you will most likely need to use <u>Terminate Process</u> End events. For more information on End events, please refer to the <u>Adding End Events</u> section of this page.

Convergent Parallel Gateway

A convergent Parallel gateway joins multiple paths into a single thread. The process flow will re-commence only when all of the flows that converge into this gateway have arrived. There are no configuration settings for this gateway.

Event-Based Gateways



Event-based gateways are used to create a "race" condition between Activities, Wait events, and Receive Message events that occur immediately after the gateway. Event-based gateways stop the process flow until one of the activities or events have completed per the following guidelines:

- Receive Message events are complete when their condition is met.
- Wait events are complete when they have satisfied the entirety of their set duration.
- Activity elements are complete when the activity's form has been approved, rejected, or routed, or if the activity gets reassigned to another user via "Select New Process User".

As soon as the first element completes, the flow direction then continues along the

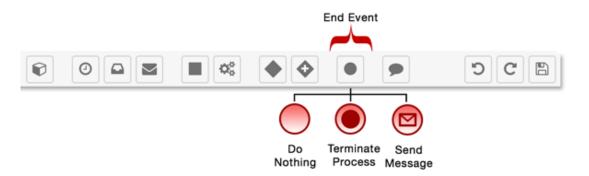
path that completed first and the incomplete paths are dropped. There are no configuration settings for an event-based gateway, but the following supporting elements are required:

- A combination of two or more form Activities, Wait events, or Receive Message events to evaluate immediately after the gateway.
- A <u>convergent exclusive gateway</u> must close out the multiple paths; otherwise, the engine leaves them active.

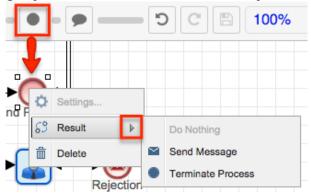
To add an Event-based gateway to your process design, drag and drop the gateway element onto the canvas. By default, it will be set as Exclusive; to convert it into event-based, right-click on the icon and select Convert > Event-Based Gateway.

Adding End Events

End events are represented by the fifth icon grouping on the design toolbar. There is one icon that can be configured three different ways after placing it on the Designer Canvas.



To define an End event type, drag the End event icon onto the Designer Canvas and then right-click on the red circle. Choose "Result" from the menu, and then find the appropriate End event type. Note that the active End event type will be grayed out because it is already selected, and the default type is "Do Nothing".



The three types of End event are:

Do Nothing

Most often used for sequential processes, this event ends a thread of the Process Definition without doing anything. It will not affect parallel threads that may be running simultaneously in the process. Those threads will continue to run uninterrupted by the Do Nothing End event. This event does not need any configuration; it is set by default when you drag and drop an End event onto the canvas.

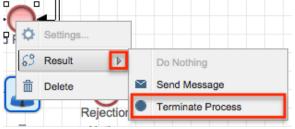
To create a Do Nothing End event, drag and drop the End event icon into the canvas. Right-click on the element icon and confirm that "Do Nothing" is grayed out by default in the Result menu, indicating that it is the active End event type. If it is not grayed out, click on "Do Nothing" to make it the active End event type.

Settings				
S Result	₽		Do Nothing	$\left \right $
Delete	_	\simeq	Send Message	Ē
Reje	Ction	•	Terminate Process	

Terminate Process

Not often used for parallel processes, this event terminates the flow of the branch for which it is designed while simultaneously terminating the entire process, regardless of any parallel events in the process definition. The Terminate Process event does not need any configuration.

To create a Terminate Process End event, drag and drop the End event icon into the canvas. Right-click on the element icon then choose "Terminate Process" in the Result menu to make it the active End event type.

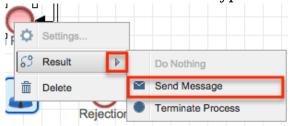


Send Message

Send Message End event will signify the end of a process by emailing a message created in the <u>Process Email Templates</u> module to specified recipients. Please note that Sugar Advanced Workflow can only send email templates created in the Process Email Templates module and cannot send email messages created in any other part of the Sugar application. If no Process Email Template is specified in the event configuration, then the Process will terminate but no message will be sent.

To create a Send Message End event, follow these steps:

1. Drag and drop the End event icon into the canvas. Right-click on the element icon and then choose "Send Message" in the Result menu to make this the active End event type.



2. Right-click on the canvas icon and select the option "Settings" to configure the event. A new window will appear:

Event: Message Even	it # 1		×
Module: *	Opportunities	\$	
Email Template: *	Opportunity Approved!	\$	
То: *	Record Owner		
Cc:	Supervisor) Jim Brennan 3		
Bcc:			
		Cancel	Save

- **Module** : (required) Choose the module that was set as the Target Module for the template.
- **Email Template** : (required) Choose an email template from the dropdown list. This list will only show templates that use the target module specified in the previous field.
- **To, Cc, Bcc** : (required) Specify the message recipients. Click inside the text area to select variable users, the explicit members of a Sugar team, and/or type one or more email addresses. Please

refer to the <u>Send Message Events</u> section of this page for more information about configuring the To, Cc, and Bcc fields.

то: *	
	Current User
Cc:	Record Owner
	Supervisor
	Teams
	Global
	East
	West

Setting Conditions

Conditional criteria may be defined for elements in a process definition based on process business rules, response forms, field values, related modules, specified users, and date intervals.

Creating Conditions for Events and Actions

Start event, End event, and all types of Action elements will display conditions as logical or mathematical operations, depending on the type of field that is under evaluation.

The available conditional components are:

- <u>Logical Operations</u> : Used in criteria builders for text and other nonnumerical field types.
 - Module Field Evaluation
 - <u>User Evaluation</u>
- <u>Mathematical Operations</u> : Used in criteria builders for date and numerical field types.
 - Fixed Date
 - <u>Time Span</u>
 - Sugar Date Variables

Logical Operations

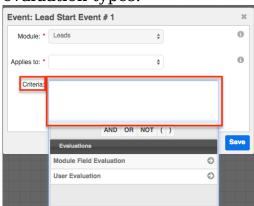
Logical operations utilize the AND, OR, and NOT operators in conjunction with the <u>Module Field Evaluation</u> and <u>User Evaluation</u> options to specify conditions for an event. For example, a Start event for opportunities may be limited to only

opportunities containing a certain sales stage. Logical operations are defined inside a criteria builder in the process definition's design view.

Note: Logical operations may be used in Start events and Send Message events.

The logical operations window will always contain a criteria field and logical operators:

• **Criteria field** : This is the field where the criteria will be constructed. Click inside the criteria field to reveal the logical operators and supported evaluation types.



• Logical Operators : Click on the AND, OR, and NOT buttons to create logical statements. Use the parentheses to group operations.

Criteria:		
	AND OR NOT ()	
	Evaluations	
	Module Field Evaluation	Ð
	User Evaluation	O

Module Field Evaluation

Note: Module Field Evaluations are logical operations that may be used in Start events and Message events.

To reveal the Module Field Evaluation panel, click inside the criteria field and then click on "Evaluations" and select "Module Field Evaluation":

Criteria:		1
	AND OR NOT ()	
	Evaluations	
	Module Field Evaluation	2
	User Evaluation	>

The Module Field Evaluation panel consists of the following options:

 Evaluations 			
Module Field Eva	aluation		G
Module			
<cases></cases>			•
Field		Value	
Status	is equal to	Pending Input	•
		Close	dd

- **Module** : Click the down arrow to list and select the related module whose values will be evaluated.
- **Field** : Click the down arrow to list and select the field variable of the chosen module.
- **Comparison Operator** (not labeled) : Click the down arrow to list and select a comparative operator. Depending on the field type used in the evaluation, available options may include "is equal to", "contains", "does not contain", "changes", "changes to", and "changes from".
 - **Note**: Comparison operators may not always work as expected for existing records that were last edited before the process definition was enabled. To ensure that existing records are evaluated properly for comparators such as "field changes from/to", perform an arbitrary mass update on the target module's records immediately after enabling the process definition so that Sugar can capture the "from" field values.
- Value : Enter a value to compare.
- Add : Move the evaluation to the criteria field.

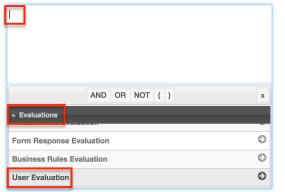
Note: Checkboxes are evaluated as "yes" or "no" (without quotes).

User Evaluation

Note: User Evaluations are logical operations that may be used in Start events, Send Message events, and Gateways.

To reveal the User Evaluation panel, click inside the criteria field and then click on

"Evaluations" and select "User Evaluation":



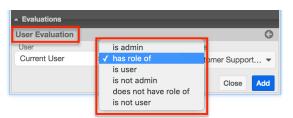
The User Evaluation panel consists of the following options:

Current User is use	r Jim Brennan 😮		
	AND OR NOT ()	X
 Evaluations 			
User Evaluation			G
User	Operator	Value	
Current User	is user	Jim Brennan	•
		Close	Add

• **User** : Click the down arrow to list and select the type of user related to the current process:



- **Current User** : For a Start event, the Current User refers to the user who is assigned to the target record. For any other element, the Current User refers to the last user who has been defined in the process definition.
- **Supervisor** : applies to the supervisor of the logged-in user who triggers the process
- **Record Owner** : applies to the user who is assigned to the record that triggers the process
- **Operator** : Click the down arrow to select the comparison operator:



- **is admin** : The condition will only evaluate as true if the user specified in the User field is an admin user. This option will complete the evaluation definition and disable the Value field.
- **has role of** : The condition will only evaluate as true if the user specified in the User field is a member of a certain role. This option will populate the Value field with a list of available user roles.
- is user : The condition will only evaluate as true if the user specified in the User field is a specific user. This option will populate the Value field with a list of active users. To select multiple users, add this evaluation once for each user and connect the evaluations with OR operators. Surround all of the user evaluations with parentheses.



- **is not admin** : The condition will only evaluate as true if the user specified in the User field is not an admin user. This option will complete the evaluation item and disable the Value field.
- does not have role of : The condition will only evaluate as true if the user specified in the User field is not a member of a certain role. This option will populate the Value field with a list of available user roles.
- is not user : The condition will only evaluate as true if the user specified in the User field is not a specific user. This option will populate the Value field with a list of active users. To select multiple users, add this evaluation once for each user and connect the evaluations with AND operators. Surround all of the user evaluations with parentheses.

Current User Current User is user Current User is user	Sally E		D 🕄		
 Evaluations 	AN	D OR NOT	()		x
User Evaluation					G
User		Operator		Value	
Current User	\$	is user	\$	Will Westin	•
				Close	Add

- **Value** : This field will be disabled if the Operator field is set to "is admin" or "is not admin". If the Operator is set to "is user" or "is not user", the Value field will load the user list as field options. If the Operator is set to "has role of" or "does not have role of", the Value field will load the roles list as field options.
- Add : Move the evaluation to the criteria field. By default, the evaluation will be placed at the end of the criteria statement but can be relocated within the statement by dragging it to the desired location.

Follow these steps to add a condition to a Start event:

1. Right-click on the opportunity Start event icon and choose "Settings".



2. Click inside the criteria field and then click on "Evaluations" and select "Module Field Evaluation" to restrict this Process Definition to only certain opportunities.

t: Opp Created			
Module: *	Opportunities		*
Applies to: *	Updated records only		¢
Criteria:			
	AND OR NOT	()	
l	Evaluations		
	Module Field Evaluation		0
	User Evaluation		Ð

3. Choose a field, operator, and field value for the first condition and then click "Submit" to add the condition to the Criteria window.

Event: Opp Created		8
Module: *	Opportunities	0
Applies to: *	New records only	0
Criteria:		
	AND OR NOT ()	
	Evaluations	
	Module Field Evaluation O	
	Sales Stage 🗘 == 🗘 Proposal/Pi 🗘	
	Submit	

4. Use the boolean logic elements AND, OR, and NOT in conjunction with parentheses for grouped criteria to build a compound filter.

Event: Opp Created				8
Module: *	Opportunities			(
Applies to: *	New records only			0
Criteria:	Sales Stage == "Proposal/Price Quote" AND O AND OR NOT () Evaluations	8	*	
	Module Field Evaluation	Ð		
	User Evaluation	0		

5. Continue adding evaluation filters to the Criteria window.

Event: Opp Created		8
Module: *	Opportunities	0
Applies to: *	Updated records only \$	0
Criteria:	Sales Stage == "Proposal/Price Quote" () AND () AND () ()	
	Evaluations Module Field Evaluation Field Value Best Submit	

6. When satisfied, click outside of the Criteria field to close the Evaluations window and then click "Save".

Event: Opp Created		8
Module: *	Opportunities	ð
Applies to: *	Updated records only	0
Criteria:	Sales Stage == "Proposal/Price Quote" AND Best >= 10000	
	Save Cancel	

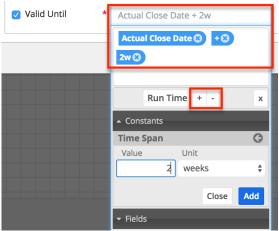
Mathematical Operations

Mathematical operations utilize mathematical operators in conjunction with the Fixed Date, Time Span, and Sugar Date variable options to specify conditions on an event. Mathematical operators can also be used to calculate a numerical value for a Sugar field using a combination of Sugar field variables and constant values. Mathematical operations are defined inside a criteria builder in the process definition's design view.

Note: Mathematical Operations may be used for Wait events, Change Field actions, and Add Related Record actions.

Mathematical operators primarily serve two purposes:

• <u>Calculating Dates</u> : Use addition (+) and subtraction (-) to create a date that is relative to another date. For example, set a quote as valid until two weeks after its close date:



• **Calculating Numeric Values** : Use addition (+), subtraction (-), multiplication (x), and division (/) to create a calculated value relative to another Sugar field. Define a specific order of operations by leveraging parentheses in your formulas. For example, set a discount amount to 10% of the the sum of a record's subtotal plus tax:

🗸 Discount	(Subtotal + Tax) x 0.10	¢
🗌 Display Line Num	(🕄 Subtotal 🕄 + 🕄	T
Order Stage	Tax (2) (2) x (2) 0.10 (2)	
Original P.O. Date	+ - x / () x	
Payment Terms	▲ Constants	
Purchase Order N	Number G Value	۵

Calculating Dates

Dates are calculated in conditions using one or a combination of <u>fixed date</u>, <u>time</u> <u>span</u>, and <u>Sugar date field</u> variables. Anything other than the listed configurations or a legal chaining of the supported configurations will be marked as not valid and cannot be saved in a process definition.

The following table lists the supported configurations for date calculations in criteria:

First Value	Operator	Second Value	Result
date	-	date	time span
datetime	-	datetime	time span
date	+/-	time span	date
datetime	+/-	time span	datetime
time span	+/-	time span	time span
time span	none	none	{now} + time span = datetime
date or datetime (e.g. a <u>Fixed Date</u> or <u>Sugar Date</u> <u>Variable</u>)	none	none	date or datetime

Note: For more information on the Run Time option, which is shown near the plus and minus operators, please refer to the <u>Sugar Date Variables</u> section.

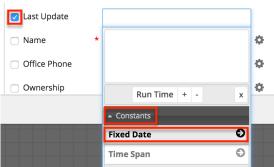
Fixed Date

The Fixed Date option enables the administrator to specify a formal, static date as a field value or as a variable in a formula that will calculate a field value. For example, if all opportunities in a process are expected to close at the end of the year, create a Change Field action that uses Fixed Date to change all opportunities' Expected Close Date fields to December 31, 2015.

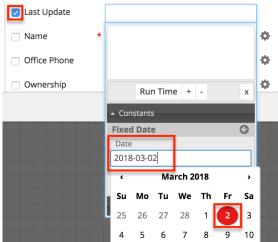
Note: Fixed Dates may be used in mathematical operations for Wait events, Change Field actions, and Add Related Record actions.

To reference a Fixed Date, follow these steps:

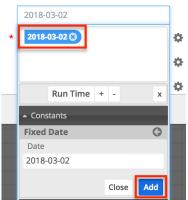
1. Click inside the date field and then click on "Constants" and select "Fixed Date":



 The window will transition to a single Date field; click inside the Date field to reveal a calendar picker. Navigate from month to month using the back (<) and forward (>) symbols near the month label. Click on the date that will be used in the formula.



3. Click the Add button to move the selected date onto the criteria builder canvas:



If the date added in this step is the static date for the field value, then the formula is complete. If the Fixed Date is only one component of a larger formula that will be used to determine a field value, then the Fixed Date should be entered in the order it is expected in the formula along with a logical combination of <u>Time Span</u>, <u>Sugar Date variables</u>, and <u>mathematical operators</u>.

Time Span

The Time Span option allows the passage of time within a date formula. For example, if a Due Date should be set for two weeks after a record's Start Date, build a formula that uses the Time Span "2 weeks" as a variable (e.g., 'Start Date + 2w'). To use a time span element relative to now (e.g., set a due date for 2 weeks from now), then use the Time Span element with a <u>Run Time variable</u>.

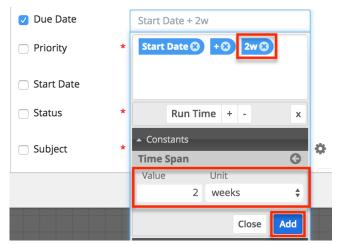
Note: Time Spans may be used in mathematical operations for Wait events, Change Field actions, and Add Related Record actions.

To reference a time span, follow these steps:

1. Click inside the date field and then click on "Constants" and select "Time Span":

Run Time + - x	•
 Constants 	ł
Fixed Datetime	
Time Span 🗧 🗧	>
Time Span C	2
Time Span C	2

2. The next window will display a Value field and a Units field. Use these two fields together to create a logical time span phrase (e.g., 2 weeks would be set as Value=2; Units=weeks). Time spans can be specified in years, months, weeks, and days for date fields and all of the previous increments plus hours and minutes for datetime fields.



3. Click the Add button to move the selected time span onto the criteria builder canvas.

Note: The time span element is only one component of a larger formula. Enter it in the order it is expected along with a logical combination of Fixed Date, Sugar Date variables, and/or Mathematical Operators.

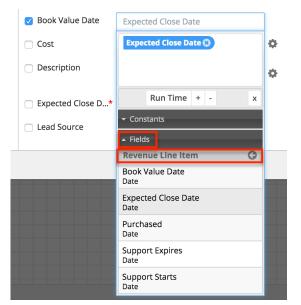
Sugar Date Variables

Sugar Date variables include the Run Time variable as well as the date fields from Sugar records. "Run Time" refers to the moment the process element runs. For example, an action that executes at 9:30AM on January 3 has a Run Time value of January 3 for date fields or 9:30AM January 3 for datetime fields. Date field variables can be used to add context to a date formula (e.g., Date Created + 1 month) or referenced independently (e.g., an action or event that triggers on Expected Close Date or three days after run time).

Note: Sugar Date variables may be used in mathematical operations for Wait events, Change Field actions, and Add Related Record actions.

To reference a Sugar date variable, follow these steps:

- 1. Click inside the date field and the Run Time variable will appear as a button next to the plus and minus operators. To drill down to the date variables for each available module, click on "Fields" then click on the arrow adjacent to the desired module.
- 2. After clicking on the module name, the window will reveal a list of all available date fields for that module. Click on any date field to move it to the criteria builder window:



Note: If the date variable is the only component of the date formula, then the formula is complete. If the date variable is only one component of a larger formula that will be used to determine a field value, then the variable should be entered in the order it is expected in the formula along with a logical combination of Time Span, Fixed Dates, and/or Mathematical Operators.

Creating Conditions for Activities and Gateways

Form activities and gateway elements can evaluate user responses to forms or business rules that have been created by the administrator.

The available evaluations are:

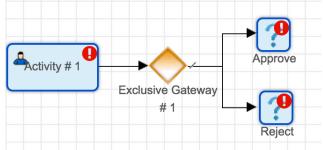
- <u>Form Response Evaluations</u> : Configure this type of criteria for gateways that follow a Form activity.
- <u>Business Rule Evaluations</u>: Configure this type of criteria for gateways that follow a business rule action.

Form Response Evaluations

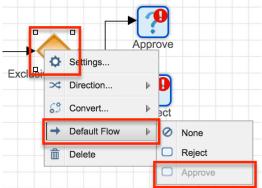
If a process contains an Approve/Reject activity, it must be followed by a gateway with a form response evaluation. To configure this evaluation, follow these steps:

Note: A divergent Gateway requires two or more subsequent elements (any combination of intermediate events, end events, actions, and/or activities). These must be placed on the canvas and connectors must join the elements on the canvas before the Gateway can be configured.

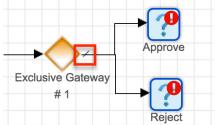
- 1. Drag an Activity element onto the design canvas as explained in <u>Adding</u> <u>Form Activities</u>.
- 2. Drag an Exclusive gateway element onto the design canvas to the right of the Activity.
- 3. Drag two or more Actions or Events onto the canvas to the right of the Gateway.



- 4. Connect the activity to the gateway and the gateway to the subsequent elements using <u>Sequence Connectors</u>.
- 5. Right-click on the gateway element and specify a <u>default flow</u>. This will be the direction that the flow takes if no criteria are accomplished within the gateway element. For this example, the <u>default flow</u> is set to the action labeled, "Approve". Please note that the <u>default flow</u> options will not be available until the corresponding elements have been placed on the canvas and connected to the gateway.



A hash mark will indicate that a <u>default flow</u> has been successfully configured:



6. Next, right-click on the gateway element again and select "Settings". Note that only the non-default outcome or outcomes will need to be configured. For the current example, we set the <u>default flow</u> to "Approve" so there is one criteria window, which represents the one non-default element in this example.

7. Click inside the Criteria window to reveal evaluation options. The only required evaluation for a Form activity is the "Form Response Evaluation". Click on Evaluations > Form Response Evaluation and then select the form response that will result in the non-default flow. In this example, the form response must be "Rejected" or else the <u>default flow</u> will take over. Click "Submit" to move the condition to the Criteria window. If multiple criteria are required, click on the AND, OR, NOT, and parentheses operators as needed and insert additional conditional statements.

Criteria (Reject):	Activity # 1 is equ	ual to Rejected ③	
		AND OR NOT ()	
	- Evaluations		
	Form Response	Evaluation	G
	Form	Status	
	Activity # 1	is equal t Rejected	¢
		Submit	

Note: Despite a Form activity having two outcomes (approval and rejection), it is possible to configure additional outcomes using a combination of criteria beyond the form response. For example, a separate outcome may be configured for:

- Form Response = Rejected AND Status = New
- Form Response = Approved AND Status = New
- Form Response = Approved AND Status = Closed
- else <u>Default Flow</u> : In other words, if none of the above criteria are accomplished, continue with the <u>default flow</u> element. Please note that the default element does not need to be configured. It will always be the outcome when all other criteria evaluate to false.
- 8. Only one outcome can occur from an Exclusive gateway, and it will be the one that accomplishes the condition. If several criteria are true, the priority will be higher on the one that lies further up the configuration. To change the priority order of a Gateway that is directed toward multiple elements:
 - Right-click on the Gateway element and select the option "Settings".

		, ,	End Pro
pprov	٥	Settings	
	>¢	Direction	Þ
	63	Convert	Þ
	+	Default Flow	►
	Ē	Delete	

• There will be a criteria builder window for each related element. Place the mouse pointer to the left or right side of the criteria fields and the pointer will change its appearance to a standard "move" cursor type.

Criteria (Create a note):	Best is less than 5000	AND 🛞	Probability (%) is le	ss than 50	
Criteria (End):	Current user is admin 🕥				ala
					Â.

• Drag and drop the criteria fields into the desired sequence. This order will set the priority of the Gateway criteria.

Criteria (Create a note):	Best is less than 5000 🛞	Probability (%) is less than 50 🕥	
Criteria (End):	Current user is admin 💿		
			¢€¢

 When you are satisfied with the conditions and their processing order, click "Save" to preserve the changes and return to the visual designer canvas.

Business Rule Evaluations

When referencing a process business rule within a process definition, the action must be followed by a gateway with a business rules evaluation.

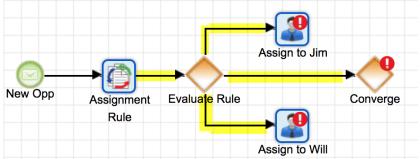
Note: A divergent Gateway requires two or more subsequent elements (any combination of intermediate events, end events, actions, and activities). These must be placed on the canvas and connectors must join the elements on the canvas before the Gateway can be configured.

The following steps are an example of incorporating a business rule evaluation in a process definition:

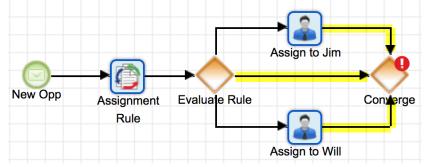
- 1. Drag an Action element onto the design canvas and configure it as explained in the <u>Business Rule</u> section of this page.
- 2. Drag an Exclusive gateway element onto the design canvas to the right of

the Action.

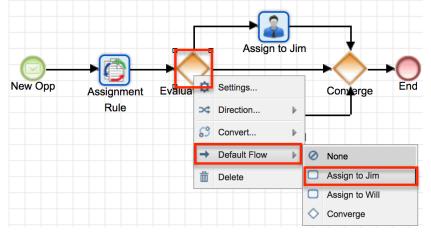
- 3. Drag two or more action, intermediate, or end events onto the canvas to the right of the diverging gateway.
- 4. Add a converging exclusive gateway to the right of everything and then connect the Business Rule action to the diverging gateway and connect the diverging gateway to all subsequent elements using <u>Sequence Connectors</u>. Notice that, in the example here, there are three potential outcomes for the gateway: "Assign to Jim", "Assign to Will", or proceed straight to the "Converge" point.



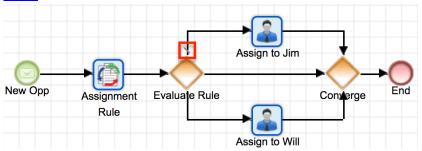
5. Next, confirm that all of the diverging gateway's potential outcomes connect to the converge point using <u>Sequence Connectors</u>.



6. Right-click on the gateway element and specify a <u>default flow</u>. This will be the direction that the flow takes if no criteria are accomplished within the gateway element. For this example, the <u>default flow</u> is set to the action labeled, "Assign to Jim". Please note that the <u>default flow</u> options will not be available until the corresponding elements have been placed on the canvas and connected to the gateway as explained in the previous steps.



A hash mark will indicate that you have successfully configured the <u>default</u> <u>flow</u>:



7. Next, right-click on the gateway element again and select "Settings". Only the non-default outcome or outcomes will need to be configured. For the current example, we set the <u>default flow</u> to "Assign to Jim" so there are two criteria windows, which represent the two non-default elements in this example: "Assign to Will" and "Converge".

Gateway: Evaluate Ru	ıle		×
Criteria <mark> (Assign to Will)</mark> :			
Criteria <mark>(Converge)</mark> :			
	Ca	ancel	Save

- 8. Click inside the first Criteria window to reveal the evaluation options. The only required evaluation for a business rule is the "Business Rules Evaluation". Follow the remaining steps to configure the Business Rules Evaluation.
- 9. Click on Evaluations > Business Rules Evaluation. The Business Rule field will appear and display all of the Business Rules that have been referenced by action elements in the current process definition.
- 10. Select the name of the Business Rule action that this gateway is evaluating. In this example, we added an action named "Assignment Rule" in step 1, so we will select that value.
- 11. The Response field will evaluate the Return Value designated in the process business rule. Type the Return Value that, when returned by the business rule, will result in the current process path. For example, if a Return Value of 1 causes the process to end, type "1" (no quotes) into the Response field for the Converge element's Criteria.

Gateway: Evaluate Rule		×
Criteria (Assign to Will):		
Criteria (Converge): Assignment Rule is equal to "1" (3)		
AND OR NOT ()	-	
Evaluation Business Rules Evaluation	_	
Business Rules Evaluation G Business Rule Response	ncel	Save
Assignment Rule 🗘 is equal tc 🕈 1]	
Close	1	

Note: Process business rule "Return Values" will always convert to text for evaluation in the Response field within a process definition.

- 12. Click "Add" to move the condition to the Criteria window.
- 13. If multiple criteria are required for a single flow direction, click on the AND, OR, NOT, and parentheses operators as needed and insert additional conditional statements.
- 14. Continue configuring Criteria for all possible flow outcomes.
- 15. Only one outcome can occur from an Exclusive gateway, and it will be the one that accomplishes the condition. If several criteria are true, the priority will be higher on the one that lies further up the configuration. To change the priority order of a Gateway that is directed toward multiple elements:
 - Right-click on the Gateway element and select the option "Settings".
 - There will be a criteria builder window for each related element. Place the mouse pointer to the left or right side of the criteria fields and the pointer will change its appearance to a standard "move" cursor type.

Gateway: Evaluate Rule		×
Criteria (Assign to Will):		\$
Criteria (Converge):	Assignment Rule is equal to "1" (3)	

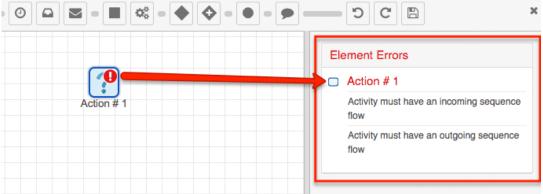
• Drag and drop the criteria fields into the desired sequence. This order will set the priority of the Gateway criteria.

		(
Criteria (Converge):	Assignment Rule is equal to "1" 😮	
		- 11
		↓

 When you are satisfied with the conditions and their processing order, click "Save" to preserve the changes and return to the visual designer canvas.

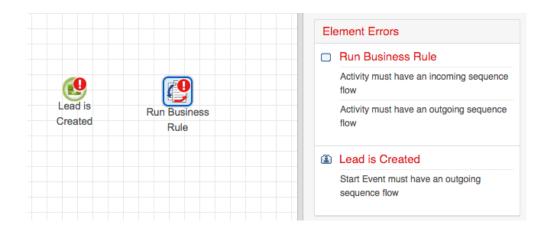
Resolving Errors in the Element Errors Panel

When using the Visual Designer to create a Process Definition, real-time configuration errors are displayed to the right of the design canvas in the Element Errors panel.

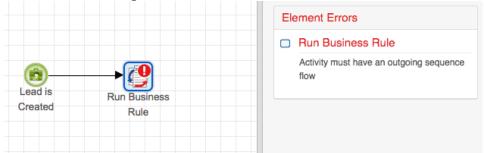


If an element on the canvas contains a flow error, the Visual Designer will place a red exclamation point icon over the element until the error is resolved. This error icon will always have a corresponding explanation in the Element Errors panel.

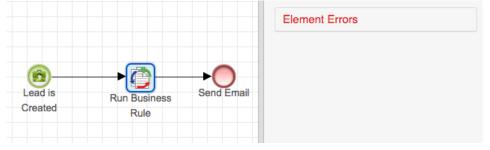
Some errors will occur and then resolve themselves naturally as the Process Definition is pieced together. For example, all elements will be considered in an error state until the appropriate connectors have been inserted in between elements as shown in this example:



- Place and configure a Start event and an Intermediate event. The Element Errors panel will display three errors because:
 - $\circ\,$ A Start event must have a connector to a second element.
 - $\circ~$ An Intermediate event must have a connector from an earlier element.
 - $\circ~$ An Intermediate event must have a connector to a next step or element.
- Now add a <u>Sequence Flow Connector</u> from the Start event to the Intermediate event. This one connector resolves two of the three element errors because it serves as both an outgoing connector for the Start event and an incoming connector for the Intermediate event:



• Resolve the third and final Element Error by creating an End or Intermediate event after the "Run Business Rule" element and then place a connector between the two. Note that inserting a new Intermediate event or Gateway (instead of an End event) will result in a new error until its outgoing sequence flow is resolved. Placing an End event and its connector, though, will resolve all sequence flow Element Errors.



Some common Element Errors and resolutions include:

Element Error	Resolution
Activity must have an incoming sequence flow.	Insert a <u>sequence connector</u> that flows from a Start or Intermediate element to the Event with the error.
Activity must have an outgoing sequence flow.	Insert a <u>sequence connector</u> that flows to an Intermediate or End element from the Event with the error.
Gateway must have two or more outgoing sequence flows.	Create at least two new Intermediate and/or End events after the Gateway. Connect the Gateway to these elements using a separate <u>sequence connector</u> for each element.
Script task must have a valid type other than [Unassigned].	Right-click on the Action element, which should have a large blue question mark over it. Select an item from the <u>Action</u> <u>Type</u> menu to remove the Unassigned designation.

Exiting the Visual Designer

At any time during the design of the process definition, you can exit the visual designer by clicking the X at the top of the screen, just above the Element Errors panel. While the visual designer automatically saves your progress every 15 seconds, you should still be sure to press the save button before exiting the designer.

) C (🖺 100% 🗘 Case Approval 🗶
	Ele	ement Errors

Returning to the Visual Designer

After exiting the Visual Designer, you can return to design view of a process definition from any of the following locations in Sugar:

• From the process definition's record view, select "Design" from the record's Actions menu:

Accounts •	Process Definitions 🔻	Search	a 🚺 🧟 - 🕇
PD Case Escalat	< > Edit 🔽		
Target Module	Assigned to	Design	
Cases		Administrator	Export

• From the Process Definitions module's list view, select "Design" from the record's Actions menu:

ts 🔻 Process Def	initio	ns 🔻	:	Search	1		۹			- 😥	+
ions (4) Create							eate				
arch by name											
	\$	Target	t Modu	le	\$	Status				\$	٥
lation		Cases					Ena	bled			۰ 🔻
unt Processing		Accou	ints				En	Desi	gn		
int Send Message		Accou	ints				En	Edit			

• From the Process Definitions dashlet, click on the Design icon adjacent to the relevant process definition:

Process Definitions	+ <
	My Process Definitions All Process Definitions
3 Enabled	0 Disabled
Idle Account Send Message Accounts, Administrator created on 2017-1	2-19 05:00pm

Please note that it may take several seconds for the design canvas to load.

Enabling and Disabling Process Definitions

It is necessary to enable process definitions when their design is complete. It is also possible to disable process definitions when needed. The following sections explain how to enable or disable a process definition.

Enabling Process Definitions

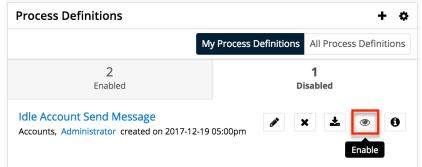
New process definitions are set to "Disabled" by default. This is a preventative feature that ensures a process instance is not triggered inadvertently during the

design phase.

Note: Before enabling a process definition, please be sure that you have included a <u>Terminate Process</u> condition in your process design's settings.

After the design is fully configured, exit the Visual Designer and set the process definition to "Enabled". There are two ways to enable a process definition:

• **Enabling via Dashlet** : Visit your <u>Advanced Workflow dashboard</u>. Disabled process definitions will be listed in the "Disabled" tab of the Process Definitions dashlet. Find the Enable/Disable icon adjacent to the relevant process definition. Click on the icon and processes will immediately begin running when the process definition's conditions are met.



• **Enabling via List View** : Navigate to the Process Definitions list view by clicking on the Process Definitions module tab. From list view, identify the process definition that you want to enable. Click on that row's actions menu and select "Enable" from the dropdown options.

• •	Accounts 👻 Contacts	 ✓ Opportunities ▼ 	Proces	ss Definitions	-	:	Se
Proces	s Definitions (4)				Cr	eate	>>
Filter 👻 🕻	Create Search by name						Ð
	Name 🌲	Target Module 🜲	Status		\$	٥	
☆	Idle Account Send Message	Accounts		Disabled		• ا	•
*	Case Escalation	Cases		Design			
☆	New Account Processing	Accounts		Edit			
☆	PBRulesDef	Revenue Line Items		Export			
				Delete			
				Enable			

• Enabling via Record View : Click the process definition's name in the list view or from the Process Definitions dashlet to navigate to its record view. Edit the record's Status field to "Enabled" and then click the Save button.

Accounts Process	Definitions - : Search
PD Idle Account Send M	flessage ☆ Cancel Save »
Target Module Accounts	Assigned to Administrator
Status Disabled	-
Enabled	
Disabled	

The process definition's Status will change from red to green "Enabled". Processes will immediately begin running when the process definition's conditions are met.

	Name 🜲	Target Module 🜲	Status 🗢	ø
☆	Idle Account Send Message	Accounts	Enabled	• •

Disabling Process Definitions

Disabling a process definition will prevent it from triggering new processes. Any running processes related to the disabled process definition will pause in an In-Progress state until the process definition is re-enabled. To disable a process definition, use any of the techniques explained in the <u>Enabling Process Definitions</u> section, choosing "Disabled" instead of "Enabled".

Last Modified: 2020-05-15 19:08:23

Advanced Configuration Options

Overview

Sugar comes with many different ways to configure your system to best meet your needs. Many configuration options are available throughout the application; though, some advanced options are not available through the interface, but can still be configured.

In the root directory of Sugar, there are two configuration files: config.php and

config_override.php. These files hold many configuration options within your instance of Sugar. The config_override.php file is available for you to modify Sugar's configuration. For more information on which options are available to change, please refer to the <u>Developer Guide</u>.

Note: Instances running on Sugar's cloud service do not have access to modify the config_override.php file.

Maintenance Mode

On rare occasions, you may need to restrict users from logging in to Sugar. This is particularly useful when upgrading Sugar or making significant changes to the application (e.g. changing config values, making code-level changes, or deploying changes via Studio, Module Builder, or Module Loader). For these situations, we recommend enabling maintenance mode, which is disabled by default. With maintenance mode enabled, only administrators will be able to log in, and regular users will receive an alert on the login screen letting them know that the system is temporarily unavailable. All incoming API calls will also encounter an error message until maintenance mode has been disabled. When possible, it is best practice to notify affected users in advance of a maintenance period.

To enable maintenance mode for your instance, add the following line to the config_override.php file:

```
$sugar_config['maintenanceMode'] = true;
```

System Configuration

Changing values in the config files can change functionality and behaviors in Sugar. We always recommend testing your changes on a development or test system before changing values in a production system. After changing the config_override.php file, you should perform a Quick Repair and Rebuild from the Admin > Repair menu. For more information, please refer to the <u>Repair</u> documentation.

Configuring File Permissions

Many features in Sugar require the web server to have the proper file permission settings to be able to read and write files. At a minimum, the following files and directories need to be writable from your web server:

• ./config.php

- ./config_override.php
- ./sugarcrm.log
- ./cache/ and all subdirectories and files
- $\bullet\,$./custom/ and all subdirectories and files
- ./data/ and all subdirectories and files
- ./modules/ and all subdirectories and files

Sugar running on Windows with IIS will need the IIS user (IUSR_[computerName]) to have access to these files.

Sugar running on Linux expects the listed files and directories to be owned by the same user running the web server and to also be in the same group. Sugar would then require the following permissions:

- 2770 for the directories listed above
- 660 for the config.php file and all files in the directories listed above
- 770 for bin/sugarcrm

When running on Linux, the config.php file in your Sugar instance's root directory contains a setting called default_permissions. This setting controls the ownership and accessibility to all files and folders created by Sugar. The following is an example of setting Read, Write, and Execute permissions for the Apache user and the Apache group on CentOS operating system:

```
default_permissions' => array(
   'dir_mode' => 1528,
   'file_mode' => 432,
   'user' => 'apache',
   'group' => 'apache',
),
```

The values for dir_mode and file_mode are decimal equivalent values for the standard octal values entered for permissions. The value 1528 is the decimal equivalent of the octal value 02770 and a value of 432 which is the decimal equivalent of octal value 0660. These are the recommended directory and file permissions for Linux systems.

Note: If the octal values are entered, they will be interpreted as decimal and will not provide the expected file permission settings.

The 'user' and 'group' values determine the ownership of the files created. When empty, your Apache settings will take precedence to determine file and directory ownership. These values should be set explicitly to the Apache user and group on your server and these values will vary depending on the Apache setup and/or Linux OS you are running. To update these values, please edit the config_override.php file in the root directory of your installation and add the following lines:

```
$sugar_config['default_permissions']['user'] = '<your Apache user>';
$sugar_config['default_permissions']['group'] = '<your Apache group>';
```

Note: These values will take effect for only newly created files, not existing files. If you need to change the file permissions or ownership for existing files, you must execute the changes through the file system.

Allowing POP Email Accounts

Inbound email accounts are set up to work with IMAP protocols by default. If your email provider required POP3 access instead of IMAP, you can add the following line to the config_override.php file:

```
$sugar_config['allow_pop_inbound'] = true;
```

This will allow new inbound email accounts to be configured with POP3 or IMAP.

Note: POP3 access is not supported and can cause unintended consequences. IMAP is the recommended protocol to use for inbound email accounts.

Security Options

By default, all administrators have access to administrative tools in Sugar like the Upgrade Wizard, Module Builder, Module Loader, and Backups. The following sections will show a few different ways to disable these options.

Locking Down Admin Control

If you are managing multiple instances of the Sugar application, you can maintain complete control over the Sugar instances by preventing users with administrative privileges from making any changes. To do this, you can lock down the Upgrade Wizard, Module Builder, and Backups with a single command in the config_override.php file:

```
$sugar_config['admin_access_control'] = true;
```

Locking Down Module Loader

To ensure that users with administrative privileges do not load sub-standard modules into Sugar, you can restrict the Module Loader to a specific directory on

the web server that you control. This allows you to check modules before they are loaded into Sugar. To restrict the module loader, simply add the following lines to the config_override.php file:

```
$sugar_config['use_common_ml_dir'] = true;
$sugar_config['common_ml_dir'] = '/Applications/MAMP/htdocs/sugarcrm/s
creenedModules';
```

This will prevent any admin users from loading a module from any directory other than the specified directory. Once a module is approved through the necessary channels, the module can be placed in the specified directory for any admin to install when necessary.

```
    New uploads for Module Loader are disabled. Installable modules are restricted to the modules pre-loaded below.
    Action

    Bug_53944_656-661_PRO_CORP_ENT_ULT.zip
    Upload
```

Another method for locking down the module loader is to enable the package scanner. The package scanner is enabled by default for instances hosted on SugarCloud. If you are running Sugar on-site, you can enable the package scanner by adding the following command in the config_override.php file:

```
$sugar_config['moduleInstaller']['packageScan'] = true;
```

When the package scanner is enabled, the module loader will check the files being loaded for various functions that could be damaging to the server or instance of Sugar. For more information on which functions are blacklisted and how to configure the package scanner, please refer to the <u>Developer Guide</u>.

Locking Down Backups

To prevent admin users from running a backup of the Sugar files, you can add this the following line to the config_override.php file:

```
$sugar_config['hide_admin_backup'] = true;
```

Enabling Sites as Referers

To prevent Cross-Site Request Forgery (XSRF) attacks, Sugar has a list of acceptable sites that are allowed as a referer to Sugar. If you receive a "Possible Cross Site Request Forgery (XSRF) Attack Detected" message from an approved site trying to access Sugar, you can add that approved site's URL to the list of valid referers by adding the following line to the config_override.php file:

```
$sugar_config['http_referer']['list'][] = 'my.site.com';
```

This line will add the specified site to the list of approved sites. If you have multiple sites to add, repeat this line for each site required.

Performance

If the performance of your Sugar instance begins to degrade, there are some configuration options you can enable to lighten the load on your system. The following options may cause Sugar's performance to increase, but some performance gains will come with a loss of functionality.

Recommended Server Settings

Sugar recommends a PHP memory limit of at least 512MB. This value may need to be increased depending on how your users utilize Sugar. For example, operations such as mass update and imports may require additional memory depending on your instance size and configuration. To change this limit, edit the setting within php.ini:

memory_limit = 512M

In addition, display_errors should always be set to "off". Enabling this option can result in adverse behavior for your users. To turn this setting off, edit the option within php.ini:

display_errors = off

When making changes to either of these settings or any other settings within php.ini, you must restart the web server before the settings will take effect.

Limiting System Resources

Sugar allows non-admin users to be restricted to how many queries they can run per action. By default, the limit for all modules is set to 1000 queries. This prevents user-initiated processes from taking up too many system resources. If an operation is performed by a user that attempts too many queries they will see a message returned saying: "Error: Query limit of 1000 reached for Leads module." To change this limit for all modules, add the following line to the config override.php file:

\$sugar_config['resource_management']['default_limit'] = 5000; // defau

lt is 1000

Note: Setting the default_limit value to 0 will remove the query limit altogether for all modules.

In addition to setting the default for all modules, you can specify certain modules to have a different value. To remove the limit for specific modules only you need to specify the modules and the limit for those modules by adding the following lines to the config_override.php file:

```
$sugar_config['resource_management']['special_query_modules'][] = 'Lea
ds';
$sugar_config['resource_management']['special_query_modules'][] = 'Con
tacts';
$sugar_config['resource_management']['special_query_limit'] = 0; // de
fault is 50000
```

In this example, the Leads module, Contacts module, and any other module in the special_query_modules array will no longer be limited. All other modules will adhere to the default limit.

Note: Setting this limit too low can severely restrict users from performing basic actions. Alternatively, removing the limits altogether may let users inadvertently perform operations that significantly impact overall performance.

Configuring a Slave Database

Sugar allows you to configure your instance to pull reports or list view data from a slave database instead of your live database. Reports and list views can create a heavy load on the database, so separating out the reports or list view data on a different database or server can help alleviate some performance issues.

To configure a slave database, set the appropriate array in the config_override.php file:

- **Reports** : \$sugar_config['db']['reports']
- Dashlets, Subpanels, and List Views : \$sugar_config['db']['listviews']

Set the following values in the array to configure Sugar to use a slave database:

Key	Value
	The host name of the server running the slave database
db_user_name	The user name to connect to the slave

	database
db_password	The password to connect to the slave database
db_name	The name of the slave database
db_type	The type of database running the slave (DB2, mysql, mssql, oracle)

For example:

```
$sugar_config['db']['reports'] =
array(
    'db_host_name' => 'sugar_slave',
    'db_user_name' => 'ro_user',
    'db_password' => 'ro_user_password',
    'db_name' => 'sugarcrm_reports',
    'db_type' => 'mysql',
);
```

Note: You must create the slave database and the sync mechanism to keep the slave up to date with the live database. The Sugar application will not sync data from the live database to the slave.

Changing the Upload Directory

Sugar stores content, such as images, documents, and installable modules, uploaded by users in the upload directory. Some of these documents may be large in size and can cause performance issues. Administrators can move the upload directory to a different location to ensure that enough space is available for uploads without affecting the system. You can change the location of the uploads to a different folder within the sugar directory or use an absolute path to place the folder anywhere in the file system. You can change this location by adding the following line to the config override.php file:

```
$sugar_config['upload_dir'] = 'd:\upload\';
```

Note: Remember to copy files from the old upload directory into the new upload directory for accessibility. The upload directory should be writable by the user running the web server.

Changing the Cache Directory

Sugar uses a cache directory to store files (such as compiled templates, aggregated variable definitions, remote mailbox data, various cache files) produced by the system to optimize functionality and enhance system performance. These files can take considerable space, especially in larger systems. You can change the location of the cache to a different folder within the sugar directory or use an absolute path to place the folder anywhere in the file system. You can change this location by adding the following line to the config_override.php file:

```
$sugar_config['cache_dir'] = 'd:\cache\';
```

Some of the cache files can be accessed by direct URLs. So if you move the cache directory, you should also ensure that the URL /cache/ (relative to the main Sugar site URL) on your web server is configured to refer to the new cache location. For more information on how to configure mappings between URLs and file system directories, refer to your web server documentation.

Note: The cache directory needs to be created first, or you may receive an internal server error. The cache directory should be writable by the user running the web server.

Configuring Count Queries

By default, list views and subpanels in Sugar return record counts. This can be convenient to know how many records were found for a specific search, but in order to retrieve the record count; Sugar needs to perform additional queries on the database. When there are large amounts of data, these queries can cause performance issues. You can disable these count queries in Sugar by adding the following line to the config_override.php file:

```
$sugar_config['disable_count_query'] = true;
```

Instead of seeing the total record count, you will see the current known record count with a plus sign next to it.

Disabling Related Calculation Fields

When a calculated field in Sugar uses the related function in the Sugar Logic, this will cause the calculated field to be executed when the related module is updated. This can cause a cascading effect through the system to update related calculated fields. When this happens you may receive a 502 Gateway Error. You can disable the related calculation field updates by adding the following line to the config_override.php file:

```
$sugar_config['disable_related_calc_fields'] = true;
```

Note: This is a global setting that will affect all modules. If you have a calculated field in Accounts that sums up all Opportunities for the account, setting this value to true will no longer update the opportunity account sum in Accounts until the account record itself is modified. However, if this setting is left disabled, the sum would update any time a related opportunity or the account is modified.

Disabling Automatic Searches

By default, list views in Sugar remember the last search performed by the current user in each module. While this can be convenient, it is sometimes unnecessary. If the last search performed in a module was an extensive search, the next time the user navigates to that module will inadvertently perform the search again. This can have a negative impact on performance in Sugar.

Set one of the following values for \$sugar_config['save_query'] in the config_override.php file to configure different options for saving list view queries:

Value	Description
all	Populates the last search and executes it Note : This is the default behavior in Sugar.
no	Discards the previous search and executes a search with no criteria
populate_only	Populates the last search but does not execute it

For example:

```
$sugar_config['save_query'] = 'populate_only';
```

Note: The \$sugar_config['save_query'] setting is not supported for Sidecar modules and only applies to Legacy modules.

Using a Custom Page For Campaign Trackers

When sending campaigns through Sugar, tracker URLs are used for images, links, and the opt-out link in the campaign. When the recipient of the campaign clicks one of these links they are by default taken to the Sugar instance that sent the campaign. Many organizations may want to use a custom page to send recipients

to instead of using Sugar, or when running Sugar onsite it may be behind a firewall and not accessible to the recipients of the campaign. Use the following steps to create a custom landing page to use for tracker URLs while still properly recording the activity in Sugar.

- 1. Create an index.php page on the desired web server that is open to the Internet.
- Add the following code to the custom index.php page to ensure all campaign activities are properly recorded in Sugar.
 Note: Replace all occurrences of "http://sugar_url" in the code below with the actual Site URL of your Sugar instance.

```
<?php
  if ($_REQUEST['entryPoint'] == 'removeme' || $_REQUEST['entryP
oint'] == 'campaign_trackerv2' || $_REQUEST['entryPoint'] == 'im
age') {
    if (strlen($ REQUEST['identifier']) == 36) {
      $ch = curl_init();
      if (strlen($_REQUEST['track']) > 0) {
        curl_setopt($ch, CURLOPT_URL, \"http://sugar_url/index.p
hp?entryPoint=\" . $_REQUEST['entryPoint'] . \"&identifier=\" .
$_REQUEST['identifier'] . \"&track=\" . $_REQUEST['track']);
                curl_setopt($ch, CURLOPT_HEADER, 1);
                curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
                curl_setopt($ch, CURLOPT_FOLLOWLOCATION, 0);
                curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
                curl_setopt($ch, CURLOPT_USERAGENT, $_SERVER['HT
TP_USER_AGENT']);
                $headers = curl_exec($ch);
                $headerArray = explode(\"\n\",$headers);
                foreach ($headerArray as $value) {
                    if (substr(strtolower($value),0,8) == \"loca
tion\") {
                        header($value);
                    }
                }
            } else {
                curl_setopt($ch, CURLOPT_URL, \"http://sugar_url
/index.php?entryPoint=\" . $_REQUEST['entryPoint'] . \"&identifi
er=\" . $ REQUEST['identifier']);
                curl_setopt($ch, CURLOPT_HEADER, 0);
                curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
                curl setopt($ch, CURLOPT FOLLOWLOCATION, 1);
                curl_setopt($ch, CURLOPT_USERAGENT, $_SERVER['HT
TP_USER_AGENT']);
```

```
curl_exec($ch);
}
curl_close($ch);
unset($ch);
}
}
?>
```

3. Finally, specify the external server URL in the Admin > Campaign Email Settings > Location of campaign tracking files option in order for the tracking links to be correctly generated in the campaign emails. For more information on setting this value, please refer to the <u>Email</u> documentation.

Configuring Cron for Schedulers

Sugar's scheduler jobs are executed by the cron utility which runs on your server. There are several configuration options available to ensure that long-running or failed scheduler jobs do not impede your other scheduler jobs from running in a timely manner.

First, max_cron_runtime determines how long a single job should be allowed to run. If a single job exceeds this limit, cron.php is aborted with the long-running job marked as in progress in the job queue. The next time cron runs, it will skip the job that overran the limit and start on the next job in the queue. Additionally, if the total running time of a single cron run across all current jobs exceeds max_cron_runtime, then cron will complete whatever job it is currently executing, then stop. The next time cron runs, it will pick up with the next queued job. The max_cron_runtime uses seconds as its units and defaults to 1800 (30 minutes). You may wish to adjust this number based on the typical time requirements of scheduler jobs in your instance.

By default, max_cron_runtime is not enforced on your instance. In order to enforce this limit, set enforce_runtime to true.

```
$sugar_config['cron']['enforce_runtime'] = true; // default is false
$sugar_config['cron']['max_cron_runtime'] = 1800; // seconds, default
is 1800
```

The timeout configuration controls how long cron will wait before re-starting a job that previously failed to complete. Once a job has been marked as in progress for longer than the timeout setting, the next cron run will mark the job as failed, making it eligible in the queue to be executed by the following cron run. The timeout uses seconds as its units and defaults to 3600 (1 hour). You may wish to adjust this number based on how quickly you wish a failed or long-running job to

be reattempted. Please note that should enforce_runtime be set to false or your max_cron_runtime be longer than the timeout, a job which is running normally may be set to "failed" upon reaching this timeout limit.

\$sugar_config['jobs']['timeout'] = 3600; // seconds, default is 3600

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