

Vocera SOAP Subscriber Adapter Configuration Guide

Version 1.0.113

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Last modified: 2023-02-24 14:34

ADP-soapssubscriber-10113-Docs build 224

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Understanding a Vocera SOAP Subscriber Adapter Configuration

Configure a Vocera SOAP Subscriber Adapter to enable an external SOAP Web Service to communicate with Vocera Platform.

Adapters send information to and receive information from the Vocera Platform, as well as monitor and collect data. Each adapter is configured to allow the Vocera Platform to communicate with a specific type of resource and any devices that resource may control.

The Vocera Platform uses the Vocera SOAP Subscriber Adapter to interact with an external SOAP Web Service. The Vocera SOAP Subscriber Adapter retrieves information from the external system's WSDL and stores it in the Vocera Platform. Using this stored information, an administrator can configure rules in the Vocera Platform datasets that will send requests to and receive responses from the external SOAP Web Service, mapping the request and response elements to dataset entities.

The Vocera SOAP Subscriber Adapter can send a request to the external Web Service, based upon a create or update event in a dataset. The adapter can also create or update existing dataset records based upon a response from the external Web Service. Multiple Vocera SOAP Subscriber Adapters can be implemented on the Vocera Platform.

See [Vocera SOAP Publisher Adapter Configuration Guide](#) for information about defining a custom SOAP Web Service.

Viewing the Vocera SOAP Subscriber Adapter Requirements

The minimum requirements for a Vocera SOAP Subscriber Adapter installation are described here.

System

This Vocera SOAP Subscriber Adapter depends on Vocera Platform 6.0.0 and greater.

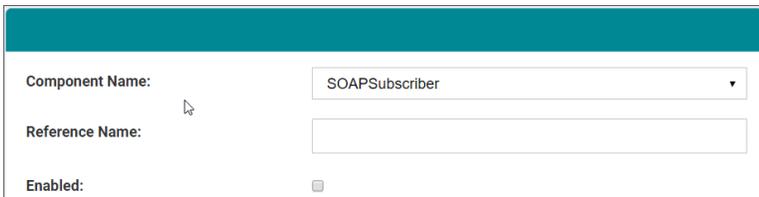
Configuring a Vocera SOAP Subscriber Adapter

Use these adapter settings to enable an external SOAP web service to access and update Vocera Platform data.

Select an empty field and begin typing, or select an existing value and type over it. To keep an existing value, do not edit that field.

1. Access the Vocera Platform Web Console and navigate to the adapters.
See [Navigating the Vocera Platform Adapters](#) on page 13 for instructions.
2. Select **New Adapter** in the Action menu, or select an adapter you wish to configure and then select **Edit**, to display the configuration fields. The configuration fields are the same for new and existing adapters.
3. Navigate to the New Adapter option, or navigate to an existing adapter to edit. See [Creating a New Adapter](#) on page 16 and [Editing an Adapter](#) on page 15 for instruction as needed.

The configuration fields are the same for new and existing adapters.



Component Name: SOAPSubscriber

Reference Name:

Enabled:

4. Complete the configuration fields as described in the table.

Configuration Field	Description
Component Name	Click the Component Name field to display a list of the systems and devices that the Vocera Platform currently supports. Select the name of the adapter to create.
Reference Name	Enter a short descriptive name in the Reference Name field to uniquely identify an adapter instance. It may demonstrate the adapter function or other information; for example, Production adapter may differentiate a live adapter from a development or "sandbox" adapter.
Enabled	Select the Enabled checkbox to allow the Vocera Platform to use the new adapter. The Vocera Platform ignores the adapter if this option is disabled.

5. Complete the **Main Interface Settings** configuration fields as described in the table.

Main Interface Settings

WSDL URL: Read WSDL

Number of Levels to Recurse:

Number of Processing Threads:

Requires Authentication: Web Service Security - Username Token ▼

Username:

Password:

WSDL Information:

Available Operations	Description
Add	Adds two integers. This is a test WebService. ♦DNE Online
Divide	
Multiply	
Subtract	

Main Interface Settings	Description
WSDL URL	Enter the URL path for the location of the WSDL to be consumed.
Read WSDL	<p>Select Read WSDL to attempt to download and parse the resource specified by the WSDL URL. The adapter does not need to be running to read the WSDL.</p> <p>If the WSDL is successfully downloaded and parsed, then the available operations and the description of those operations display in the Main Interface Settings. See WSDL Information: in the image above.</p> <p>If the WSDL cannot be downloaded or does not conform to WS-I Standard Version 1.1 Document/Literal format, an error will display.</p>
Number of Levels to Recurse	Enter the number of levels of recursion (1 through 10) to use when parsing WSDLs that contain recursive schemas; that is, when a schema has elements that refer to themselves. For example, enter "2" to allow the original element and one sub-element to be included in the WSDL.
Number of Processing Threads	Enter the number of threads (1 through 100) that can be used for message processing by this instance of the adapter. Specifying a number greater than one will allow the adapter to process messages concurrently, rather than process messages consecutively.

Main Interface Settings	Description
Requires Authentication	<p>Select an option from the dropdown menu to define the authentication type for access to the WSDL or SOAP service. Current options are No Authentication, Basic Authentication, and Web Service Security - Username Token.</p> <p>Basic Authentication and Web Service Security - Username Token options each require a username and password for authentication to obtain the WSDL and access the SOAP Web service. Selecting one of these two authentication options displays the username and password fields.</p>
Username	Enter the username for the login credentials to be used during authentication.
Password	Enter the password for the login credentials to be used during authentication.

6. Select one of the available options to exit the adapter configuration page. See [Saving an Adapter](#) on page 17 for details.

Understanding the Vocera SOAP Subscriber Adapter Rules

This page describes the fields available to configure dataset rules for the Vocera SOAP Subscriber Adapter.

See the [Vocera Platform Dataset Guide](#) for information about working with rules. See [Configuring a Vocera SOAP Subscriber Adapter](#) on page 5 for information about adapter settings.

The Vocera SOAP Subscriber Adapter retrieves information from an external system's WSDL and stores it in the Vocera Platform. Using this stored information, an administrator can configure rules in the Vocera Platform datasets that will send requests to and receive responses from the external SOAP Web Service, mapping the request and response elements to dataset entities.

Rules can associate a Web Service Operation and the relevant Elements with Dataset Attributes from the Vocera Platform. The Request Parameters and Response Parameters content will vary based upon the Web Service that is consumed.

In the Adapter Settings, configure the Rule Settings fields.

The screenshot shows the 'Adapter Settings' configuration page. At the top, there is a red error message: 'The information provided is either invalid or incomplete.' with a bullet point: 'Required: Dataset Action'. Below this are four main sections:

- Rule Settings:** Includes a dropdown menu for 'Operation' (currently set to 'Test') and a 'Refresh' button. There is also a 'Description' field.
- Request Parameters:** A table with columns 'Name', 'Dataset/Value', and 'Data Type (min ... max)'. It lists a 'request' element with a 'd:' parameter of type 'string (1 ... 1)'. There is an empty input field for the 'd:' value.
- Response Parameters:** Includes a 'Dataset Action' dropdown menu and a 'Dataset' dropdown menu. Below these is another table with columns 'Name', 'Dataset/Value', and 'Data Type (min ... max)'. It lists a 'response' element with 'id:' (integer 0 ... 1) and 'error:' (string 0 ... 1) parameters, each with an empty input field.

Setting	Description
Operation	The operation that will be used when communicating with the Web Service

Setting	Description
Description	The description of the Web Service Operation selected.
URL	The URL of the Web Service.

Once an Operation is selected, Request and Response Parameters are listed in the form. The number of times that each parameter occurs within each Message, along with its corresponding data type, is displayed.

For the Request Parameters fields:

Request Parameter	Description
Dataset/Value	"#{ }" should be used when specifying the Dataset Value for this element, unless a constant is specified. The attributes for this element are Name: request >>d, Data Type: string, Minimum Occurrences: 1, Maximum Occurrences; 1.

For the Response Parameters fields.:

Response Parameter	Description
Dataset Action	The action that will be performed on the specified dataset using the information returned from the Web Service. Select one option: Do not create or update any records; Create only new records; Update only existing records; or Create new records or Update existing records.
Dataset	The starting dataset for the parameters returned from the Web Service. Required for the Create New or Update Existing Records selections in the Dataset Action field
id	"#{ }" must NOT be used when specifying the Dataset Value for this element. The attributes for this element are Name: response >>id, Data Type: integer, Minimum Occurrences: 0, Maximum Occurrences; 1.
error	"#{ }" must NOT be used when specifying the Dataset Value for this element. The attributes for this element are Name: response >>error, Data Type: string, Minimum Occurrences: 0, Maximum Occurrences; 1.

Understanding Adapter Installation

Adapters are installed on the Vocera Platform in a solution package, or individually as needed by the customer.

The Vocera Platform uses adapters to integrate with external systems and devices. Each adapter is configured by the user to include information that will allow the Vocera Platform to communicate and interact with a specific type of resource and, depending on the adapter, devices that resource may control. Adapters can allow the Vocera Platform to monitor and collect data, as well as send data out, when triggered manually or automatically.

When implementing Vocera Platform at a customer site, use this document to install an adapter that is not supplied in the Gold Image. Otherwise, you will install a needed adapter when instructed in the solution package installation process described in the [Vocera Platform Installation Guide](#).

Recreating a Repository

In the event that the repository reference file has been compromised, you can re-create the platform repository.

This information should be specified on the related adapter's Release Information page in the wiki. See **Releases** and navigate to the needed adapter.

1. Verify that the adapter resides in a repository which is in `/etc/yum.repos.d/`.
2. If the **repolist** or **yum** commands fail, verify that the file exists and try again. For example, use the following code to verify the repository exists on the Vocera Platform appliance:

```
[tpx-admin@engage log]$ cat /etc/yum.repos.d/vocera.repo
```

3. Verify the output appears as shown.

```
#-----  
# NOTICE: Only use the General Availability (platform-6.X-ga) repository for customer  
# deployments.  
# Use of Controlled Release (platform-6.X-cr) or Software Quality Assurance  
# (platform-6.X-sqa) in  
# accordance to process QOP-75-01 Production Work Order and History Record, contact  
# your  
# manager for questions.  
#-----  
[Platform-6.0]  
name=Platform-6.0  
baseurl=https://box.voceracommunications.com/Platform-6.0-GA  
enabled=1  
gpgcheck=0
```

Installing an Adapter

Install or uninstall a Vocera Platform adapter at a customer site on a Vocera system for a customer.

Execute the following steps using the system's command prompt.

1. Verify that the adapter resides in a repository which is in `/etc/yum.repos.d/`.
2. Run the following commands:

```
sudo yum clean all
sudo yum check-updates
```

3. Verify that the rpm package to be installed is available using the following command:

```
sudo yum list available | grep extension
```

4. Install the adapter by specifying its rpm package name in place of `<package-name>` in the code below. (This information should be specified on the related Release Information page in the wiki; see **Release Notes**.)

```
sudo yum install <package-name>
```

5. Uninstall an adapter by specifying its rpm package name in place of `<package-name>` in the code below. (This information should be specified on the related Release Notes page; see **Release Notes**.)

```
sudo yum remove <package name>
```

Practicing an Adapter Installation

Replicate these steps using the needed adapter package, in order to install adapters other than the example given here.

1. Verify the repo file contains the repos up to and including the release of interest.

```
[tpx-admin@engage log]$ cat /etc/yum.repos.d/vocera.repo
#-----
# NOTICE: Only use the General Availability (platform-6.X-ga) repository for customer
# deployments.
# Use of Controlled Release (platform-6.X-cr) or Software Quality Assurance
# (platform-6.X-sqa) in
# accordance to process QOP-75-01 Production Work Order and History Record, contact
# your
# manager for questions.
#-----
[Platform-6.0]
name=Platform-6.0
baseurl=https://box.voceracommunications.com/Platform-6.0-GA
enabled=1
gpgcheck=0
```

2. Execute the following commands:

```
[tpx-admin@engage log] $ sudo yum check-updates
Loaded plugins: langpacks, product-id, subscription-manager
This system is not registered to Red Hat Subscription Management. You can use
subscription-manager to register.
Quartz
(1/2): Quartz/group_gz | 3.6 kB 00:00:00
(2/2): Quartz/primary_db | 483 B 00:00:00
| 29 kB 00:00:00
```

3. Verify the package is available, using the following command:

```
[tpx-admin@engage log] $ sudo yum list available | grep extension
extension-навicare-interface.x86_64      1.3.6-0      Platform 5.0
```

4. Install the needed adapter; in this example, install the Navicare adapter:

```
[tpx-admin@engage log] $ sudo yum install extension-навicare-interface
Loaded plugins: langpacks, product-id, subscription-manager
This system is not registered to Red Hat Subscription Management. You can use
subscription-manager to register.
Resolving Dependencies
--> Running transaction check
---> Package extension-навicare-interface.x86_64 0:1.3.6-0 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
Package                               Arch                               Size
Version                               Repository                         Size
=====
Installing:
extension-навicare-interface          x86_64                              59 k
1.3.3-0                                Quartz
```

Transaction Summary

Install 1 Package

Total download size: 59 k

Installed size: 62 k

Is this ok [y/d/N]: y

Downloading packages:

```
extension-навicare-interface-1.3.6-0.x86_64.rpm
| 59 kB 00:00:00
```

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

```
Installing : extension-навicare-interface-1.3.6-0.x86_64      1/1
Verifying  : extension-навicare-interface-1.3.6-0.x86_64      1/1
```

Installed:

```
extension-навicare-interface.x86_64 0:1.3.6-0
```

Complete!

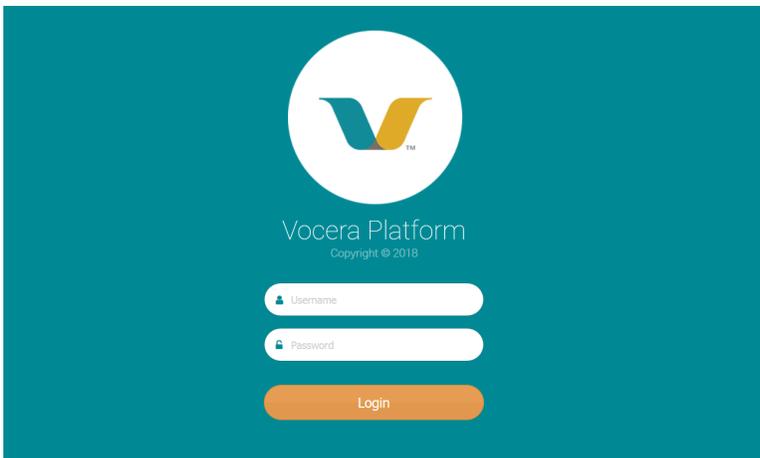
5. This completes the steps to install an adapter.

Navigating the Vocera Platform Adapters

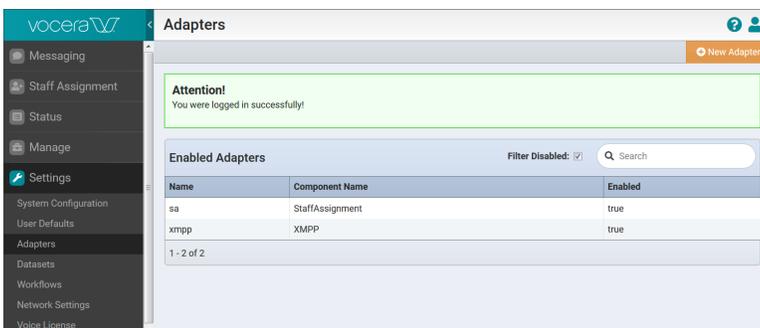
Access the Adapters tab and use the filter or search tools to display a specific adapter.

This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

1. Access the Vocera Platform Web Console and sign in with your system credentials.



2. Select **Settings > Adapters** in the navigation menu.

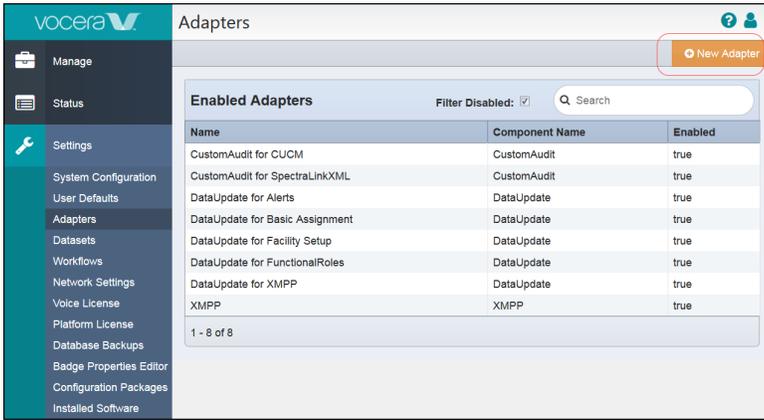


The **Adapters** page displays.

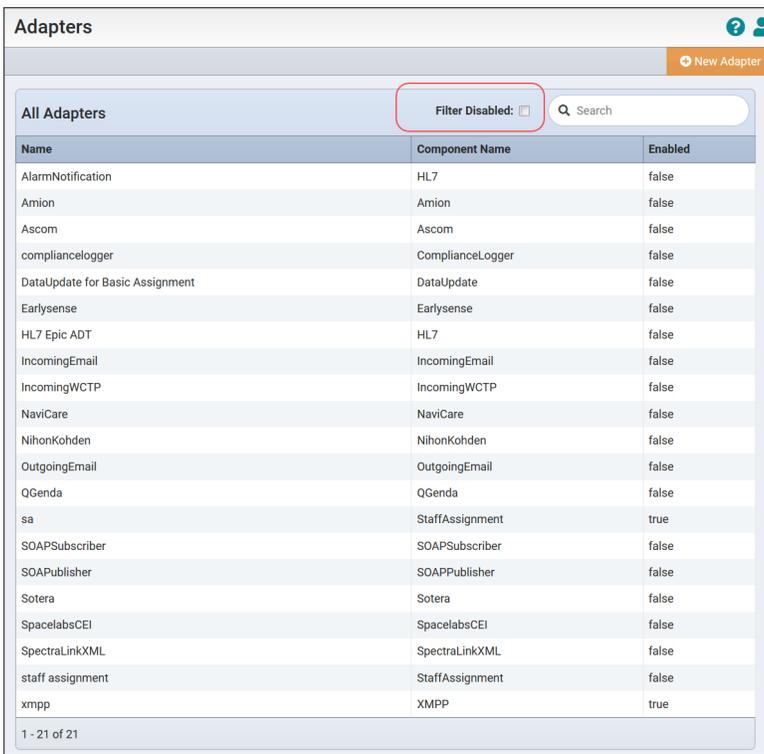
3. Select an adapter to work with from the list displayed in the grid, or select the **New Adapter** Action option to create a new adapter.

On the **Adapters** page you can identify adapters by their name or component name. The Enabled column (displaying a true or false status) indicates whether the adapter is active on the system, or disabled.

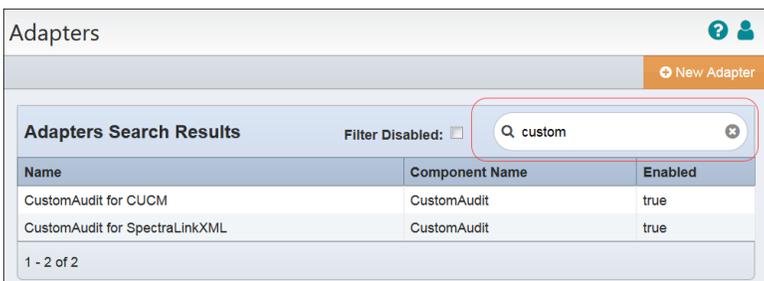
The bottom row of the grid reports the number of adapters displayed, of the available adapters. The Filter Disabled box is checked by default, and displays only the enabled adapters that are configured on the Vocera Platform.



- Uncheck the **Filter Disabled** box to display all the adapters that have been installed, including those that are not currently enabled. The column title now displays **All Adapters**. The Filter Disabled box is checked by default.



- Enter a term in the **Search** field to locate a needed adapter on the system. The search field is identified by a text field with a magnifying glass icon. The search is performed on the Name and Component Name columns. When results are returned, the column header displays **Adapters Search Results** and an **x** icon allows you to clear the search field.

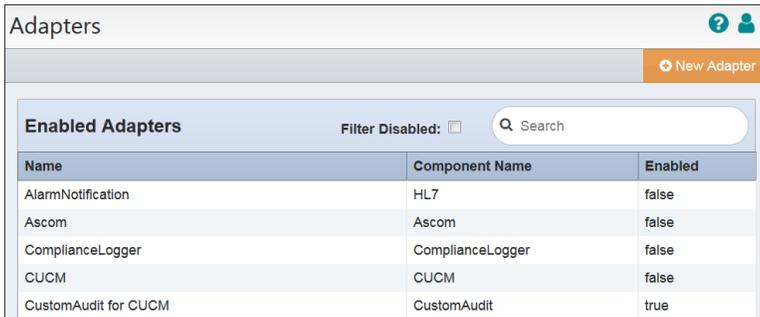


Editing an Adapter

Edit an adapter that has been installed on the Vocera Platform.

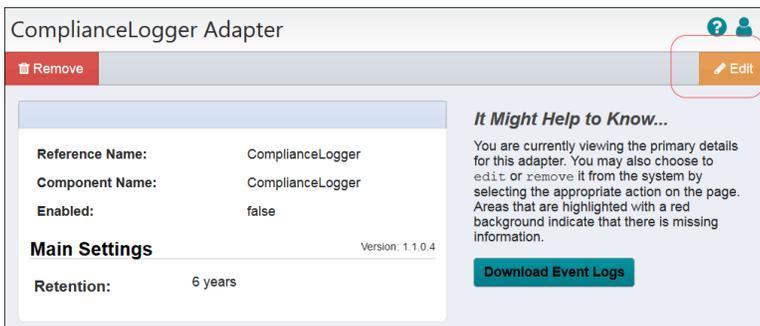
This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

1. Access the Vocera Platform Web Console and navigate to the adapters.
See [Navigating the Vocera Platform Adapters](#) on page 13 for instructions.
2. Select the adapter to edit in the **Adapters** list.



Name	Component Name	Enabled
AlarmNotification	HL7	false
Ascom	Ascom	false
ComplianceLogger	ComplianceLogger	false
CUCM	CUCM	false
CustomAudit for CUCM	CustomAudit	true

3. Select **Edit** in the adapter's menu.



ComplianceLogger Adapter

Remove Edit

Reference Name: ComplianceLogger
Component Name: ComplianceLogger
Enabled: false

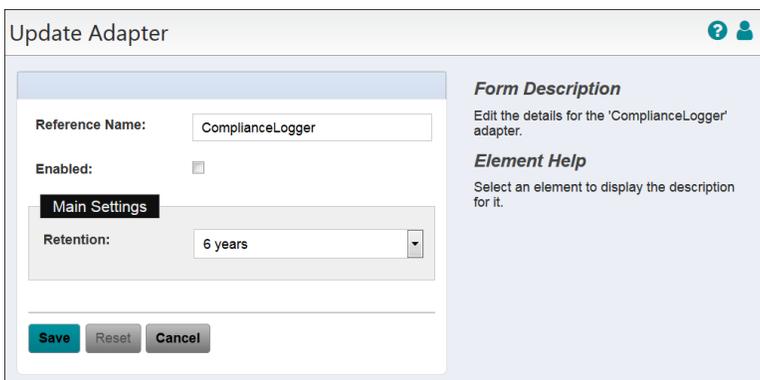
Main Settings Version: 1.1.0.4
Retention: 6 years

Download Event Logs

It Might Help to Know...
You are currently viewing the primary details for this adapter. You may also choose to edit or remove it from the system by selecting the appropriate action on the page. Areas that are highlighted with a red background indicate that there is missing information.

The **Update Adapter** page for the adapter displays.

4. Edit the adapter's settings to revise the configuration as needed. See the adapter-specific configuration page for details on working with settings for this adapter.
Select an empty field and begin typing, or select an existing value and type over it. To keep an existing value, do not edit that field.



Update Adapter

Reference Name: ComplianceLogger
Enabled:

Main Settings
Retention: 6 years

Form Description
Edit the details for the 'ComplianceLogger' adapter.

Element Help
Select an element to display the description for it.

Save Reset Cancel

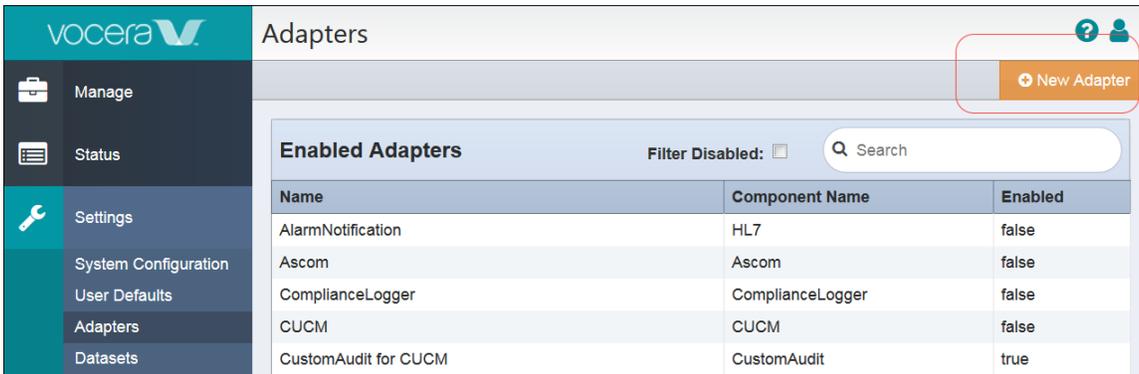
5. Select one of the options to exit the **Update Adapter** page. See [Saving an Adapter](#) on page 17 for details.

Creating a New Adapter

Access the Vocera Platform Web Console to work with adapters, or create a new adapter when prompted in the package import process.

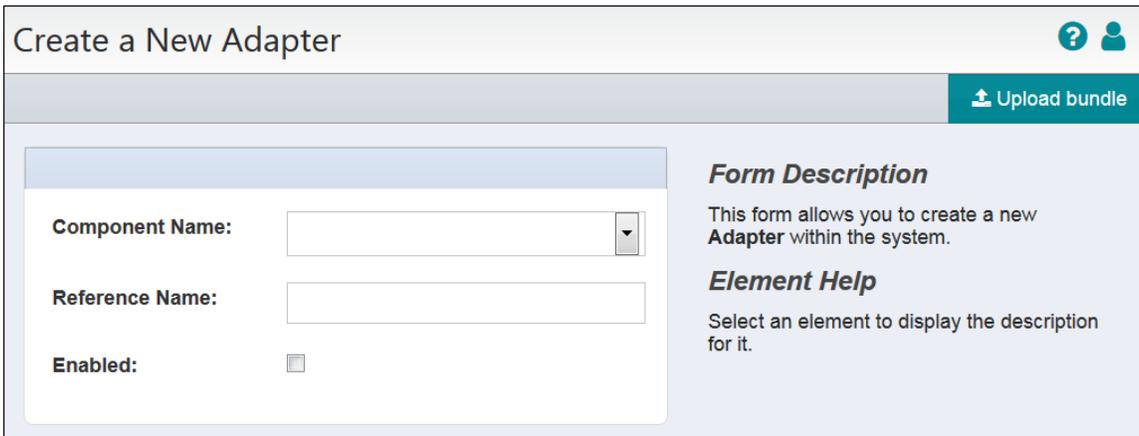
This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

1. Access the Vocera Platform Web Console and navigate to the adapters.
See [Navigating the Vocera Platform Adapters](#) on page 13 for instructions.
2. Select **New Adapter** in the Action menu on the Adapters page.



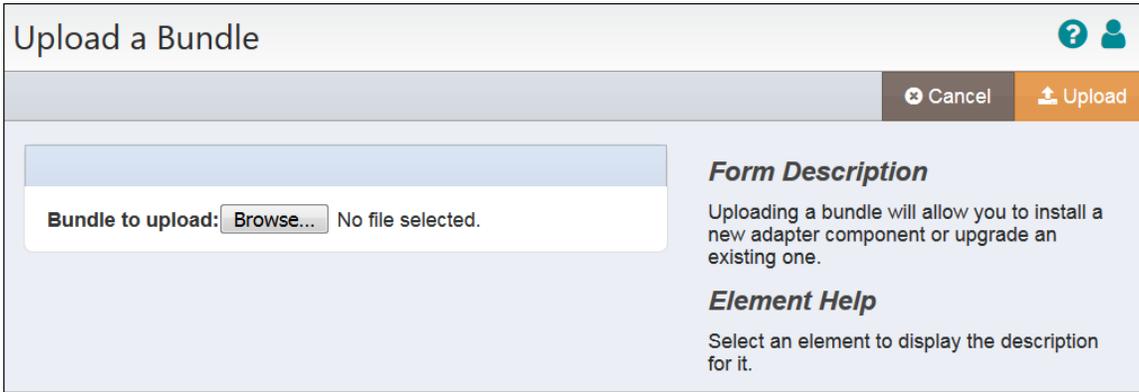
The **Create a New Adapter** dialog displays.

3. Complete the configuration fields.



Name	Description
Component Name *	Select the Component Name field dropdown arrow to display a list of the systems and devices that Vocera currently supports. Select the name of the adapter to create.
Reference Name	Enter a short descriptive name in the Reference Name field to uniquely identify an adapter instance. It may demonstrate the adapter function or other information; for example, Production adapter may differentiate a live adapter from a development or "sandbox" adapter.
Enabled	Select the Enabled check box to allow Vocera Platform to use the new adapter. Vocera ignores the adapter if this option is disabled.

4. Select **Upload Bundle** in the Action menu to install a package on a Vocera Platform.
Use the Upload Bundle feature to install when the adapter is not available in the Component Name dropdown list, and you have downloaded the needed adapter bundle to a storage location.
5. Click on **Browse** to navigate to the bundle to install.



6. Select one of the Action options to exit from the Upload a Bundle dialog.
 - **Upload:** Upload the selected bundle to the appliance.
 - **Cancel:** Close the Upload a Bundle dialog without making a change to the system.

Saving an Adapter

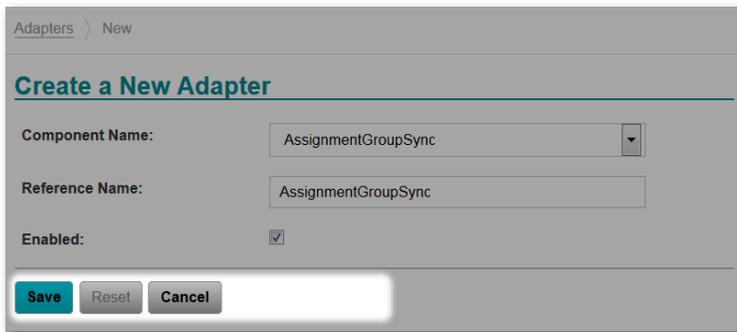
Close an adapter configuration dialog using the Save, Reset, or Cancel options.

This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

When creating a new adapter, the options at the bottom of the adapter configuration page are Save, and Cancel.

When editing an existing adapter, the options are Save, Reset, and Cancel.

Choose an option to close the dialog:



Option	Description
Save	Select Save to store the adapter configuration in the system, when the fields are set to desired specifications.
Cancel	Select Cancel to close the configuration window without saving your changes to the system.
Reset	Select Reset to clear all fields without closing the window, in order to select other specifications for the adapter's settings.

Deactivating an Adapter

Temporarily deactivate an adapter to avoid unintentional use of it in an implementation.

This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

1. Access the Vocera Platform Web Console and navigate to the adapter to deactivate.
See [Navigating the Vocera Platform Adapters](#) on page 13 for instructions.
2. Select **Edit** in the Actions menu to access the Update page for the adapter.

XMPP Adapter

Remove Edit

Reference Name: XMPP
Component Name: XMPP
Enabled: true

Main Adapter Settings Version: 4.0.0.175

It Might Help to Know...
You are currently viewing the primary details for this adapter. You may also choose to edit or remove it from the system by selecting the appropriate action on the page. Areas that are highlighted with a red background indicate that there is missing information.

3. Un-check the **Enabled** box to temporarily deactivate the adapter.
When deactivated, the Vocera system will ignore the adapter. You can easily enable or disable the adapter at any time.

Update Adapter

Reference Name: XMPP

Enabled:

Required Datasets

Actors: Actors

Assignments: Assignments

Form Description
Edit the details for the 'XMPP' adapter.

Element Help
Select an element to display the description for it.

4. Select one of the options to exit the **Update Adapter** page. See [Saving an Adapter](#) on page 17 for details.

Removing an Adapter

Permanently remove an adapter from the Vocera system.

This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

Use the remove function to permanently delete the adapter from the system. Alternatively, you can [disable](#) an adapter and the Vocera system will ignore it.



Warning: Remove cannot be undone. If any system features use this adapter, removing the adapter prevents the features from functioning.

1. Access the Vocera Platform Web Console and navigate to the adapter to remove.
See [Navigating the Vocera Platform Adapters](#) on page 13 for instructions.
2. Select **Remove** in the Actions menu to permanently delete the adapter.

XMPP Adapter

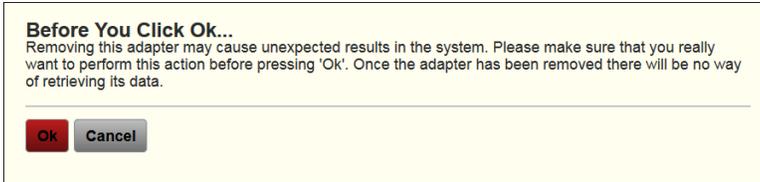
Remove Edit

Reference Name: XMPP
Component Name: XMPP
Enabled: true

Main Adapter Settings Version: 4.0.0.175

It Might Help to Know...
You are currently viewing the primary details for this adapter. You may also choose to edit or remove it from the system by selecting the appropriate action on the page. Areas that are highlighted with a red background indicate that there is missing information.

3. Click **Ok** in the confirmation window.



- **Ok:** Confirm the choice to remove the adapter from the system.
 - **Cancel:** Return to the adapter page without making a change.
4. Confirm that the adapter no longer displays in the Adapters list view, when a success message displays.

