



# Vocera Austco Tacera Adapter Configuration Guide

Version 1.0.0

# Notice

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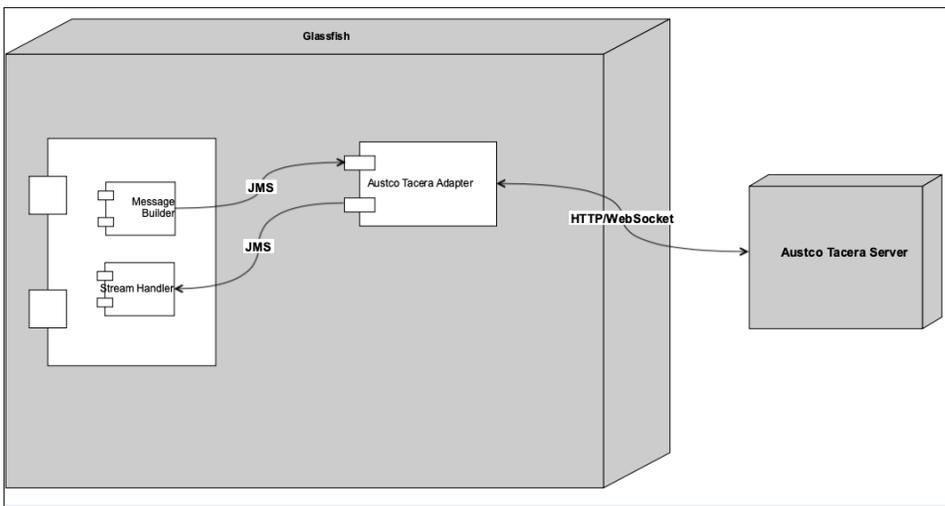
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## Understanding a Vocera Austco Tacera Adapter Configuration

Configure a Vocera Austco Tacera Adapter to allow communication between the nurse call system, and the Vocera Platform.

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

For example, Austco-Tacera® is a rich, versatile alert and event interface that can be used by a patient to ask for bedside attention. This interface is a modern TCP/IP network-based Nurse Call system. Vocera can receive these messages and send alerts to the proper channels with priorities and escalating alerts until answered. This interface balances the needs of varied, complex nursing workflows with an architectural desire to manage alert notifications centrally in Vocera's enterprise clinical communication and collaboration system.



## Viewing the Vocera Austco Tacera Adapter Requirements

The minimum requirements for a Vocera Austco Tacera Adapter are described here.

## Configuring a Vocera Austco Tacera Adapter

These settings enable direct communication between the Vocera Austco Tacera Adapter and the Vocera Platform.

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 14 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 17 and [Editing an Adapter](#) on page 16 for instruction as needed.

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

Component Name:	AustcoTacera
Reference Name:	AustcoTacera
Enabled:	<input checked="" type="checkbox"/>

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

Configuration Field	Description
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.
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.

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

Server Settings

Server Host Name:

Report Non-Matching Messages as Audit Events:

Message Timeout:

Server Settings	Description
Server Host Name	The host name for the Tacera server to be used to receive nurse call notifications and publish updates.
Report Non-Matching Messages as Audit Events	Check this box to record received messages that do not match a Message Type.
Message Timeout	The amount of time, in minutes, that is expected to elapse between messages. The value must be a number between 1 and 10080. An Audit Event (610) will be generated if a message is not received when expected.

6. Complete the **Registration Settings** configuration fields as described in the table

Registration Settings	Description
API Key	API Key that is issued by Austco support. This key must be unique to every adapter instance.

7. Complete the **Message Types** configuration fields as described in the table

The Vocera Austco Tacera Adapter message types include a regular expression (regex) mapping for the event data from the Austco Tacera clinical event. The regex mapping stores the event data as a clinical alert. See **Understanding Regular Expressions** for more information on regular expressions.

Define at least one message type. Expand **New Message Type** to define a regular expression.

Message Type Configuration Field	Description
Reference Name	Enter a descriptive name for the message type. This field is required.
Active	Select the <b>Active</b> checkbox to indicate whether or not the message type is enabled in the Vocera Platform.
Discard Message	Check this box to discard the message without processing it. Discarding message types may be created for the sole purpose of filtering them from the audit log.
Starting Dataset	Select the dataset in which to save messages of this type.
Message Regex	Specify a Regex to capture values from the Message Data of a message received from the Tacera server.

Message Type Configuration Field	Description
Message Mapping	<p>Specify one or more attributes or attribute paths, one per line, to be filled with data from the above regex. Two different types of patterns for the attribute mapping are supported:</p> <ul style="list-style-type: none"> <li>Plain Attribute List</li> <li>Statements of Equality</li> </ul> <p>If using the Plain Attribute List, each item in the mapping is a simple attribute path. The first capture group of the matched regular expression is used as the value of the first attribute path in the list, and so on. the number of capture groups in the regex must match the number of attribute paths in the list.</p> <p>SYNTAX: dataset_link_attr_name.attr_name OR dataset_attr_name</p> <p>If using Statements of Equality, the left-hand side is the attribute path, while the right-hand side is that the attribute path should be set to. The right-hand side should use numbered captured groups (e.g. \$1) to reference elements matched, but may also include literal strings.</p> <p>SYNTAX: dataset_link_attr_name.attr_name=LITERAL dataset_attribute_name=\$1 example_with_two_capture_groups=\$2:\$1</p>
Message Reference Path	Specify the location to store the message reference of the incoming message.
Extension Path	Specify the location to store the extension of the incoming message.
Priority Path	Specify the location to store the priority of the incoming message.
Cancel Mapping	<p>Specify one or more attributes or attribute paths, one per line, to be filled with data. The pattern used for attribute mapping should be a Statement of Equality. The left-hand side is the attribute path, while the right-hand side is literal string.</p> <p>SYNTAX: dataset_link_attr_name.attr_name=LITERAL</p>

8. Complete the **Location Types** configuration fields as described in the table

Location Types Configuration Fields	Description
Reference Name	Specify the name or label for this collection of settings.
Active	Check this box to make the message type active. Location types are ignored by the adapter unless this box is selected.
Starting Dataset	Select the dataset in which to save messages of this type.
Location Structure Regex	Specify the regex to match a message received from the Tacera server to a Location type.
Location Regex	Specify the regex to capture values from the message data of a message received from the Tacera server.

Location Types Configuration Fields	Description
Location Mapping	<p>Specify one or more attributes or attribute paths, one per line, to be filled with data from the above regex. Two different types of patterns for the attribute mapping are supported:</p> <ul style="list-style-type: none"> <li>• Plain Attribute List</li> <li>• Statements of Equality</li> </ul> <p>If using the Plain Attribute List, each item in the mapping is a simple attribute path. The first capture group of the matched regular expression is used as the value of the first attribute path in the list, and so on. the number of capture groups in the regex must match the number of attribute paths in the list.</p> <p>SYNTAX: dataset_link_attr_name.attr_name OR dataset_attr_name</p> <p>If using Statements of Equality, the left-hand side is the attribute path, while the right-hand side is that the attribute path should be set to. The right-hand side should use numbered captured groups (e.g. \$1) to reference elements matched, but may also include literal strings.</p> <p>SYNTAX: dataset_link_attr_name.attr_name=LITERAL dataset_attribute_name=\$1 example_with_two_capture_groups=\$2:\$1</p>

9. Select one of the available options to exit the adapter configuration page. See [Saving an Adapter](#) on page 18 for details.

## Viewing Assignment Statistics

The Vocera Austco Tacera Adapter sidebar in the Vocera Platform Web Console displays statistics for the current adapter instance.

## Understanding the Vocera Austco Tacera Adapter Rules

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This adapter does not require dataset rule configuration.

## Understanding Vocera Austco Tacera Adapter Operations for Integrations

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The adapter handles assignment state transitions, patient-based assignment management, and location changes.

## Understanding Adapter Installation

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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](#).

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### 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!

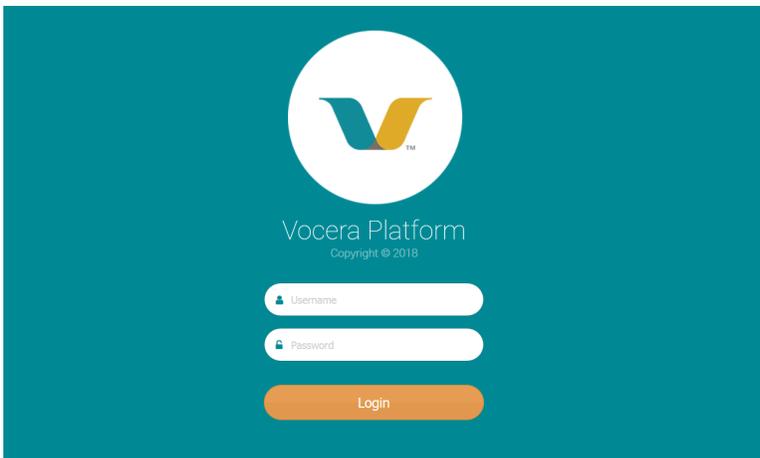
5. This completes the steps to install an adapter.

## Navigating the Vocera Platform Adapters

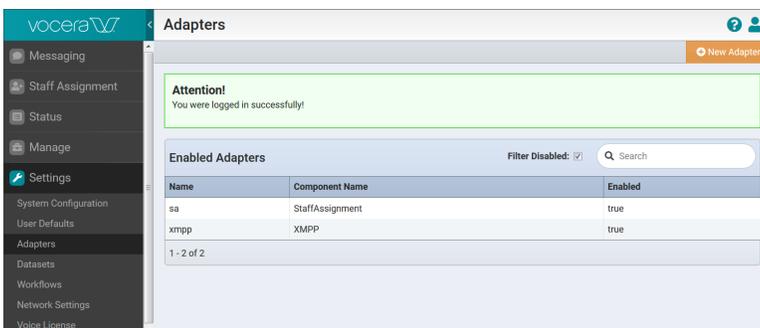
Access the Adapters tab and use the filter or search tools to display a specific adapter.

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.

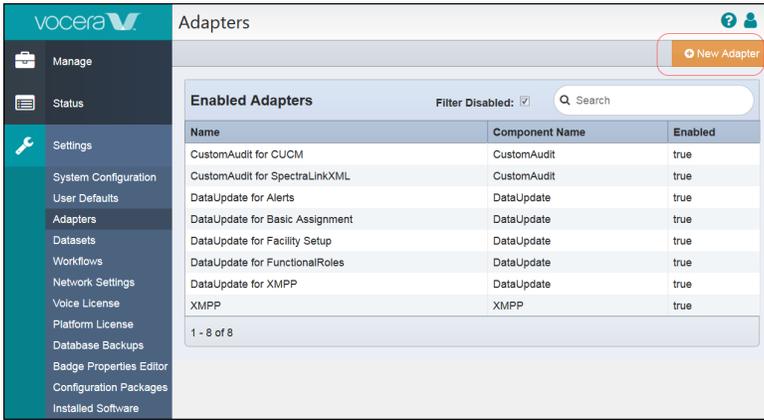


The **Adapters** page displays.

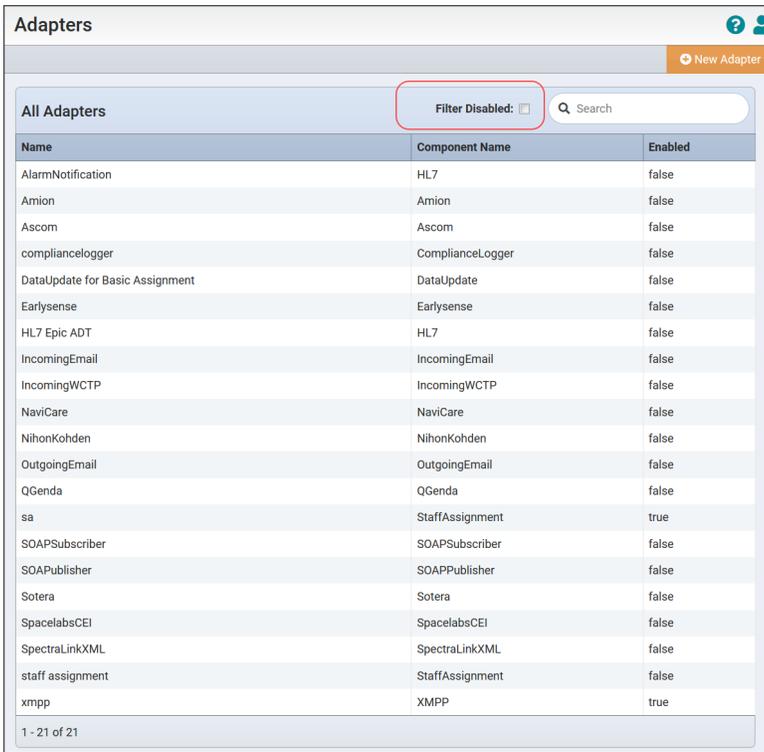
3. Select an adapter to work with from the list displayed in the grid, or select the **New Adapter** Action option to create a new adapter.

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.

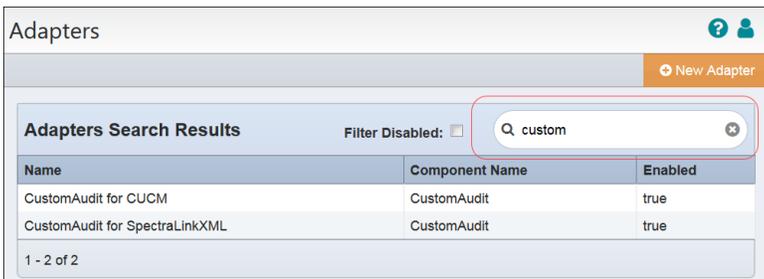
The bottom row of the grid reports the number of adapters displayed, of the available adapters. The Filter Disabled box is checked by default, and displays only the enabled adapters that are configured on the Vocera Platform.



- 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 14 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.

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.

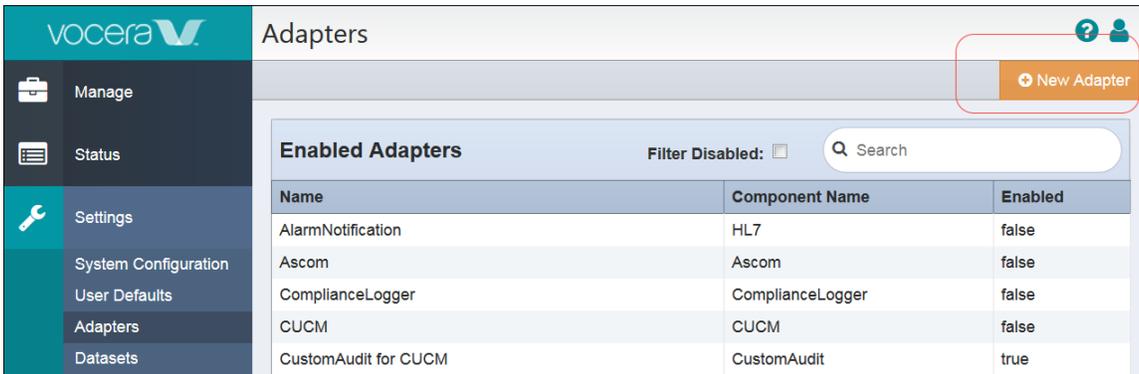
5. Select one of the options to exit the **Update Adapter** page. See [Saving an Adapter](#) on page 18 for details.

## 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.

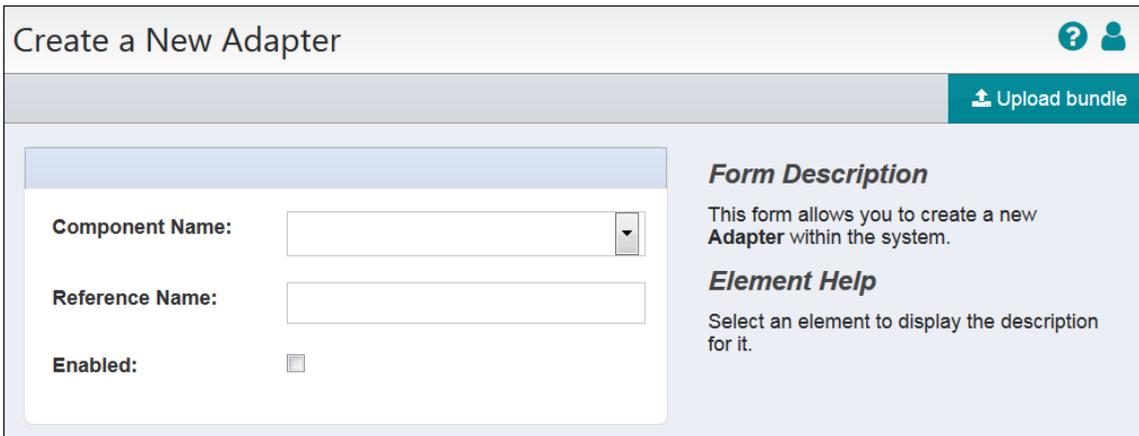
This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

1. Access the Vocera Platform Web Console and navigate to the adapters.  
See [Navigating the Vocera Platform Adapters](#) on page 14 for instructions.
2. Select **New Adapter** in the Action menu on the Adapters page.



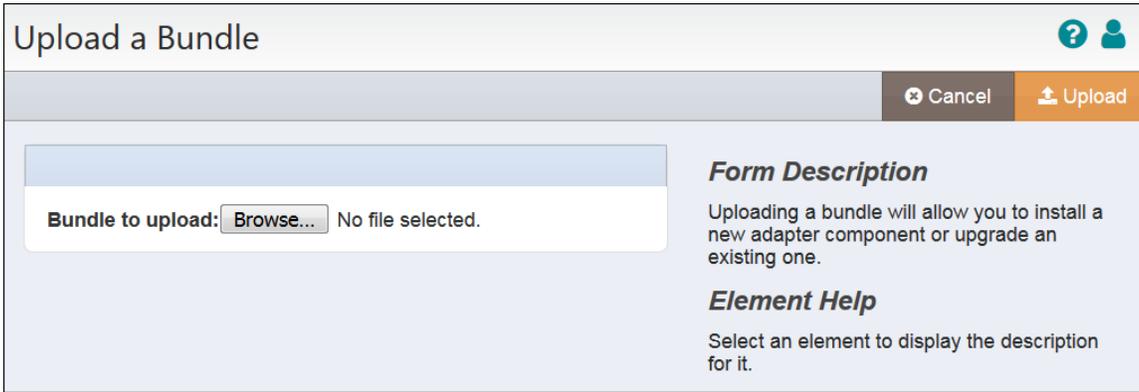
The **Create a New Adapter** dialog displays.

3. Complete the configuration fields.



Name	Description
<b>Component Name *</b>	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.
<b>Reference Name</b>	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.
<b>Enabled</b>	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

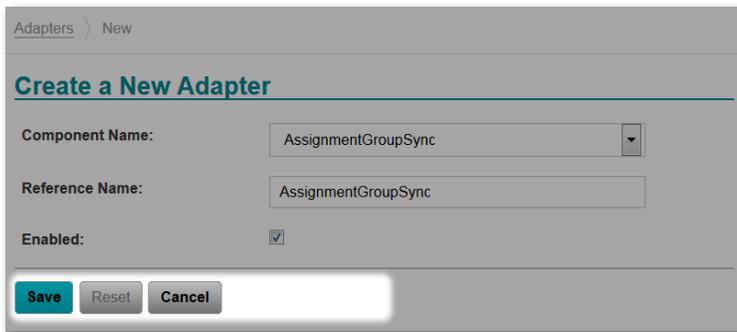
Close an adapter configuration dialog using the Save, Reset, or Cancel options.

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
<b>Save</b>	Select Save to store the adapter configuration in the system, when the fields are set to desired specifications.
<b>Cancel</b>	Select Cancel to close the configuration window without saving your changes to the system.
<b>Reset</b>	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 14 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 18 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 14 for instructions.
2. Select **Remove** in the Actions menu to permanently delete the adapter.

**XMPP Adapter**

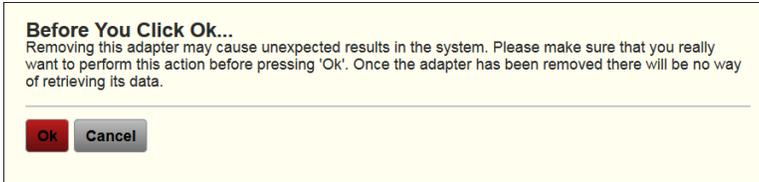
Remove Edit

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.

