

# **Vocera Compliance Logger Adapter Configuration Guide**

Version 1.1.0

# Notice

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## Understanding a Vocera Compliance Logger Adapter Configuration

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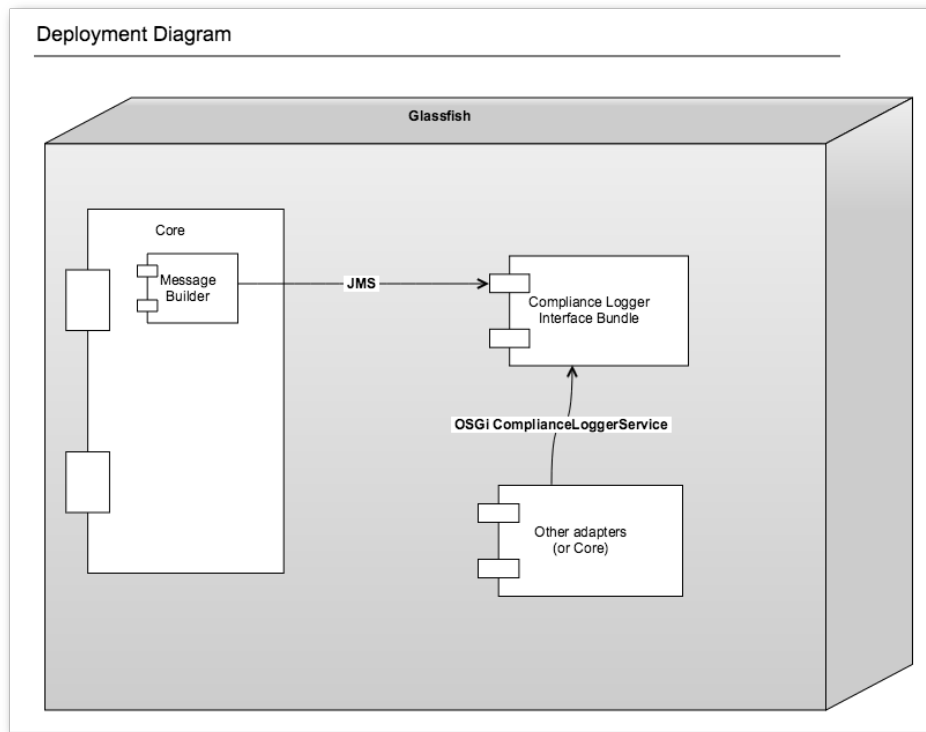
Configure a Vocera Compliance Logger Adapter to control compliance event log retention for the Vocera Platform.

The Vocera Compliance Logger Adapter allows the facility to log significant compliance events, such as a user login or access to protected health information (PHI), and to access those logs. A separate compliance event log file is created for each day. Logs can be archived to a remote storage location, or they can be retained on the system.

This adapter's configuration is used to control the compliance event log retention. Logs can be retained on the system for 6 months, 1 year, 3 years, or 6 years. Log files that are older than the configured retention timeframe are deleted; an audit warning is provided 30 days before the first log file is deleted. If remote archiving is configured, the daily log files are moved to the archive location as they are completed.

Log files can be accessed by authorized users on the system. A user can select the year and month to access and then select a link containing a day's logged compliance events for download. Alternatively, users can download the logged events for the current day.

The following diagram shows the Vocera Platform implementation in a facility. Currently only the Vocera XMPP Adapter is making calls to the Vocera Compliance Logger Adapter to create log entries, but multiple adapters can be supported.



## Viewing the Vocera Compliance Logger Adapter Requirements

The minimum requirements for a Vocera Compliance Logger Adapter installation are described here. This adapter requires Vocera Platform version 6.0.0 or later.

# Configuring a Vocera Compliance Logger Adapter

Work with the settings that enable direct communication between the Vocera Compliance Logger Adapter and the Vocera Platform.

Select an empty field and begin typing, or select an existing value and type over it. To keep existing values, 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 15 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 18 and [Editing an Adapter](#) on page 17 for instruction as needed.  
The configuration fields are the same for new and existing adapters.
- 4. Complete the general adapter configuration fields as described in the table.

Create a New Adapter

Component Name:

ComplianceLogger

Reference Name:

ComplianceLogger/Vocera

Enabled:

☒

Main Settings

Retention:

6 years

Form Description

This form allows you to create a new Adapter within the system.

Element Help

Choose the type for this adapter.

Save

Reset

Cancel

These fields are used by most adapters in the Vocera system.

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.

Configuration Field	Description
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 Compliance Logger adapter-specific configuration as described in the table.

Main Settings	Description
Retention	Select <b>Archive Remotely</b> to move the files to a remote location for storage via SMB/CIFS shares. Otherwise, select the minimum time for which compliance events will be retained on the system; 6 months, 1 year, 3 years, or 6 years.
Archive Location	Enter the server location where compliance logs will be archived. Windows SMB shares are supported; use the format <b>///host/share/directory/...</b>
Archive User Name	Enter the user name for the account authorized to access the archive location. Use the format <b>username[\\workgroup]</b>
Archive Password	Enter the password associated with the username authorized to access the archive location.

6. Select one of the available options to exit the adapter configuration page. See [Saving an Adapter](#) on page 19 for details.

## Understanding the Vocera Compliance Logger Adapter Rules

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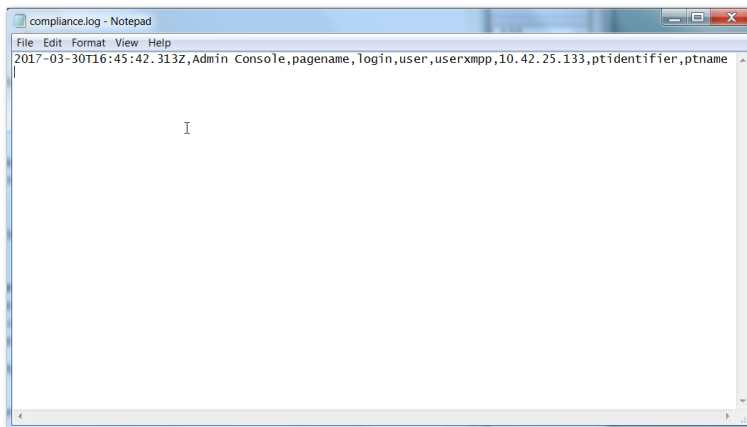
This adapter does not require dataset rule configuration.



## Accessing Event Log Files

Current and archived compliance event logs can be downloaded via the Vocera Compliance Logger Adapter.

Event logs are captured automatically, and are retained as configured in the adapter's settings. The Vocera Compliance Logger Adapter receives events, and creates CSV formatted log files for the events.

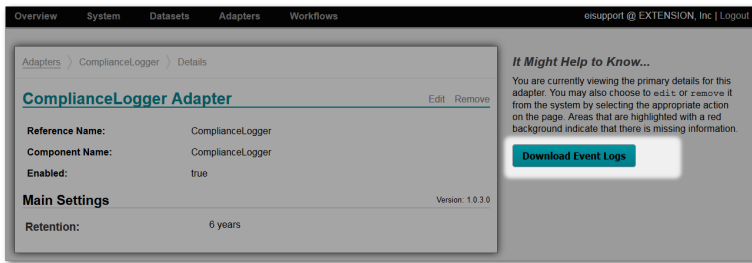


The compliance event log file captures the following comma-delimited information in this order:

- The date/time of the event.
- The operation triggering the event.  
This consists of three pieces of data: The adapter or other system component (e.g., workflow) triggering the event, the instance of the component (e.g., adapter instance or specific workflow), and an operation descriptor (e.g., workflow page name).
- The user requesting the operation (e.g., the logged in XMPP user).  
This includes the user's login or similar identifier, and the user's "reference name" (full name).
- The "location" where the operation was performed (e.g., the IP address of the XMPP device).
- The data that was accessed.  
This includes an object identifier for the data (e.g., the patient MRN) and a user readable name (e.g., the patient name).
- Additional data that may be of interest to a compliance auditor (e.g., a search string used to find the data).

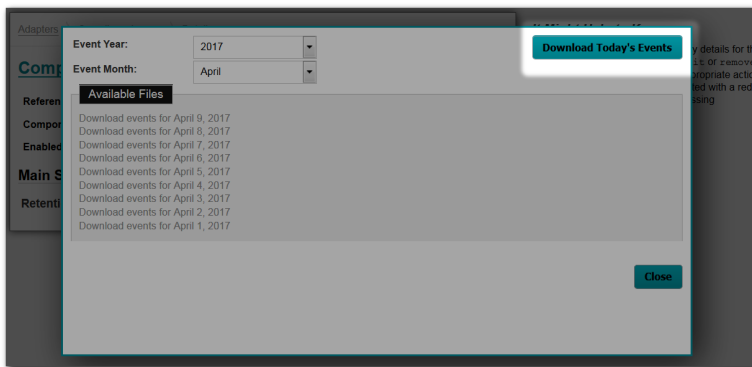
When event logs are available, you can click the download button in the Vocera Compliance Logger Adapter to access the current and archived logs.

Select **Download Event Logs** in the adapter's sidebar to access the download functionality.

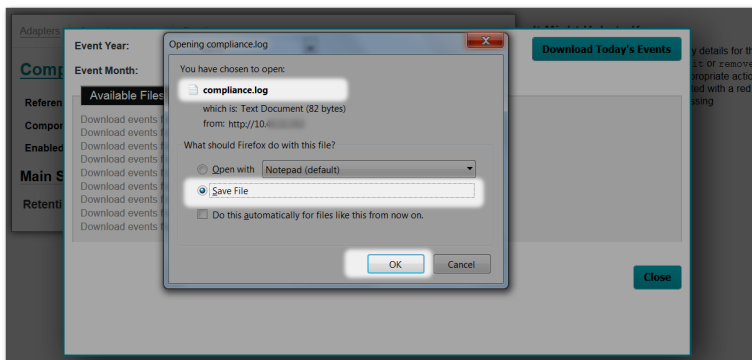


## Download Today's Events

A dialog displays where you can select **Download Today's Events** to access only the current day's event logs. Otherwise, select **Close** to remove the window from view.

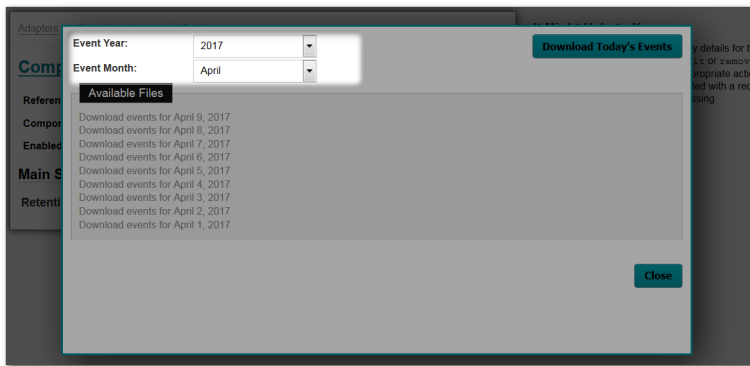


A dialog displays options for saving the compliance.log file. Select the **Save File** radio button to export the compliance.log file of today's events. Otherwise, select the **Open with** radio button and choose an application with which to view the file's contents. Click **OK**, and then access the file in the system's Download location. (This example uses an Internet Explorer browser; presentation will be different in other browsers.)



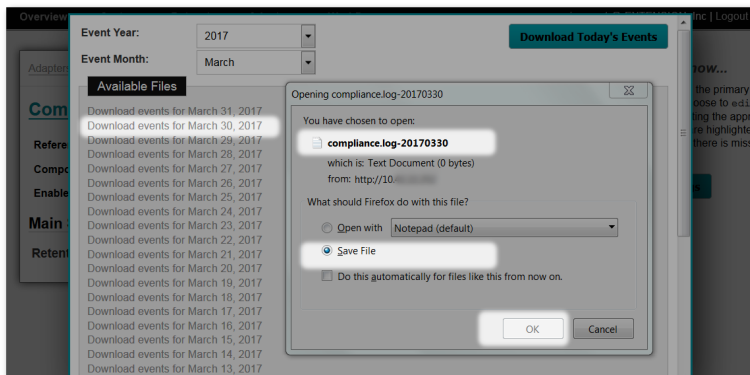
## Download Archived Event Logs

In the event log dialog, use the **Event Year** and **Event Month** dropboxes to display the event logs retained in the system.



In the **Available Files** pane, click an entry to access the event log for that date. Otherwise, select the **Open with** radio button and choose an application with which to view the file's contents. Select **OK**, and then access the file in the system's Download location.

The dialog box displays the compliance.log identifier as the selected date (in year/month/day format) as shown below. In this example, compliance event logs for March 30, 2017 will be saved. (The following example uses an Internet Explorer browser; presentation will be different in other browsers.)



## 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-navicare-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-navicare-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-navicare-interface.x86_64 0:1.3.6-0 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
Package                               Arch                               Size
Version                               Repository                         Size
=====
Installing:
extension-navicare-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-navicare-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-navicare-interface-1.3.6-0.x86_64      1/1
Verifying  : extension-navicare-interface-1.3.6-0.x86_64      1/1
```

```
Installed:
extension-navicare-interface.x86_64 0:1.3.6-0
```

Complete!

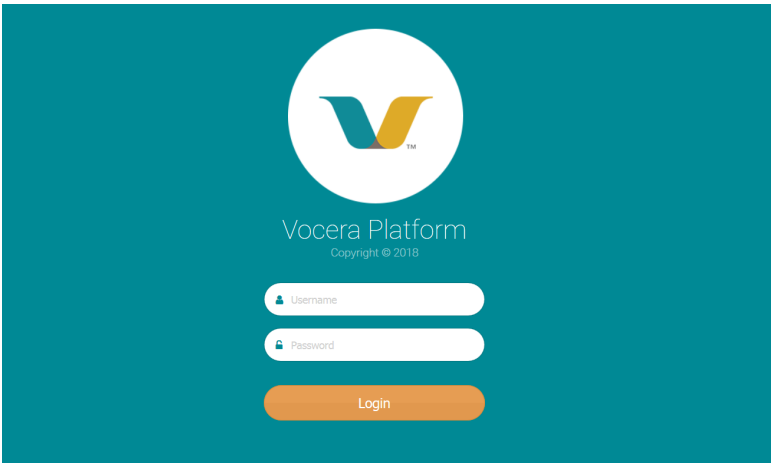
5. This completes the steps to install an adapter.

# Navigating the Vocera Platform Adapters

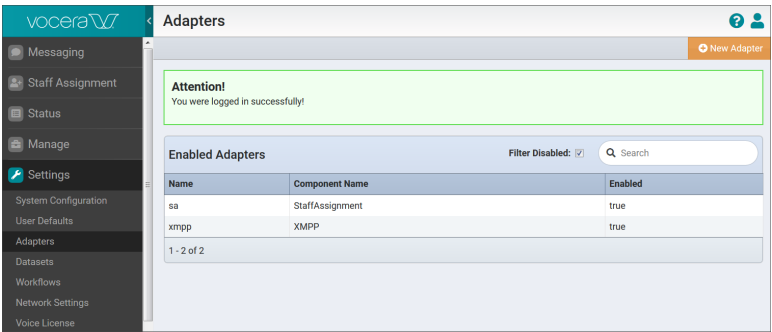
Access the Adapters tab and use the filter or search tools to display a specific adapter.

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.



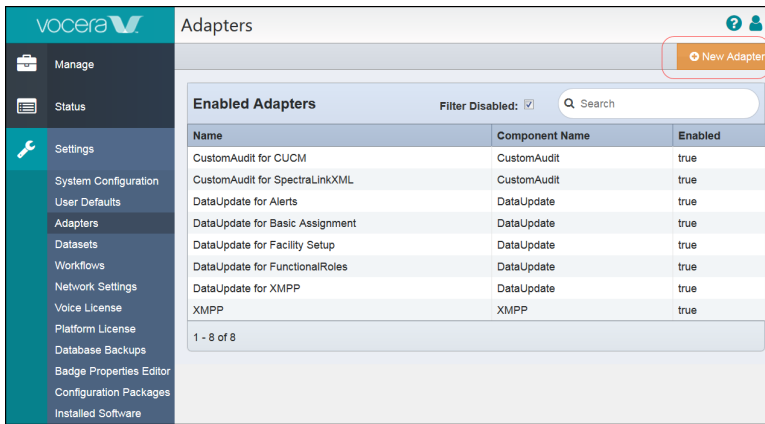
2. Select **Settings > Adapters** in the navigation menu.



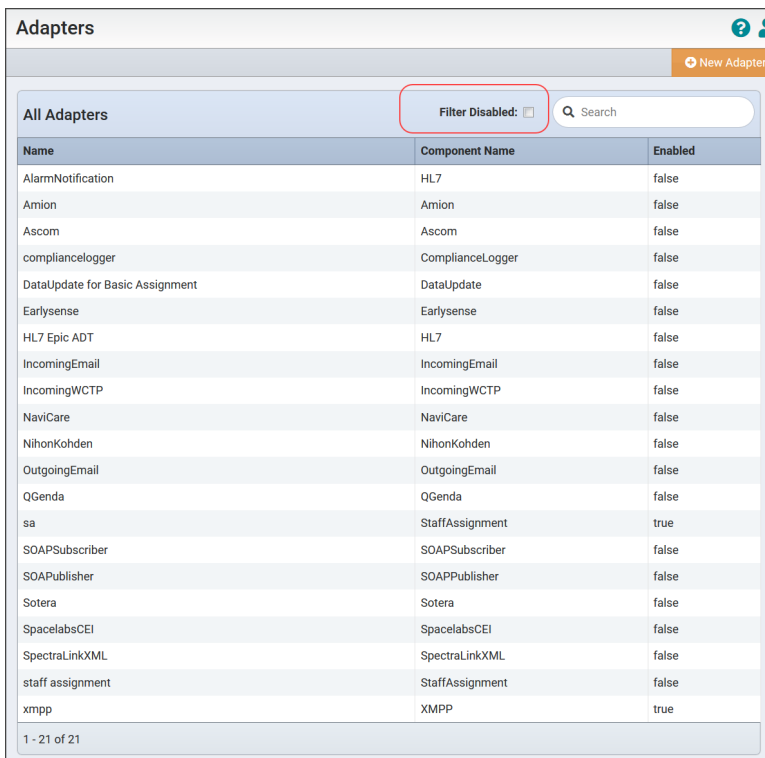
- The **Adapters** page displays.
3. Select an adapter to work with from the list displayed in the grid, or select the **New Adapter** Action option to create a new adapter.

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.

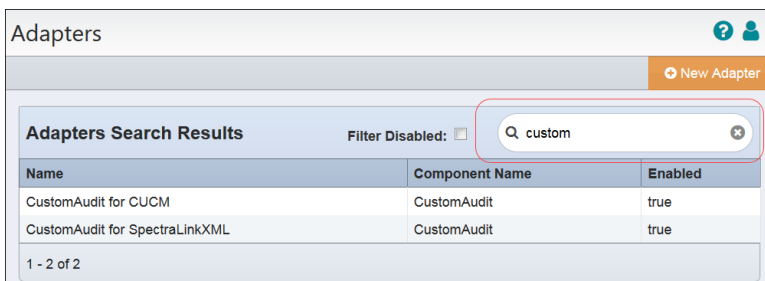
The bottom row of the grid reports the number of adapters displayed, of the available adapters. The Filter Disabled box is checked by default, and displays only the enabled adapters that are configured on the Vocera Platform.



4. 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.



5. 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.



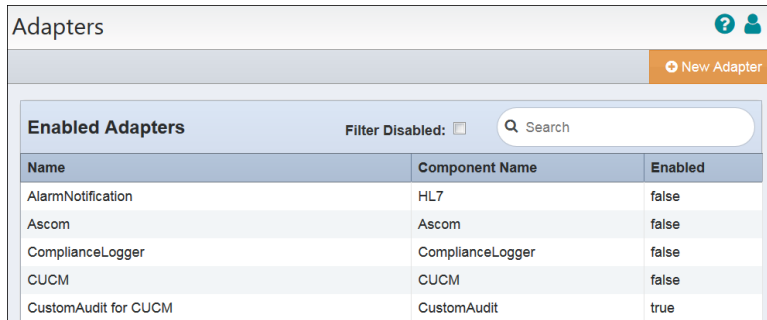


## Editing an Adapter

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

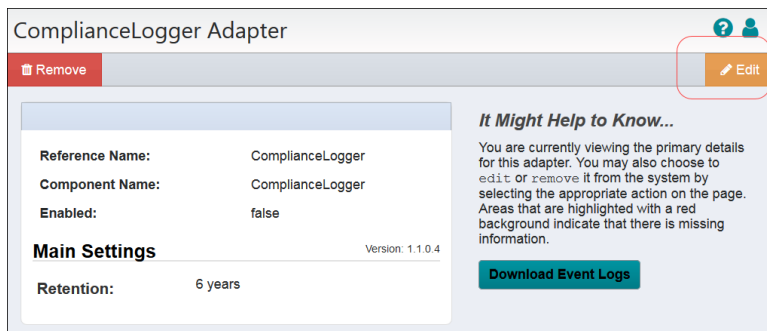
This page is used by all the adapter guides, and therefore, the adapter used as an example here may not be the adapter that you are working with currently.

1. Access the Vocera Platform Web Console and navigate to the adapters.  
See [Navigating the Vocera Platform Adapters](#) on page 15 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

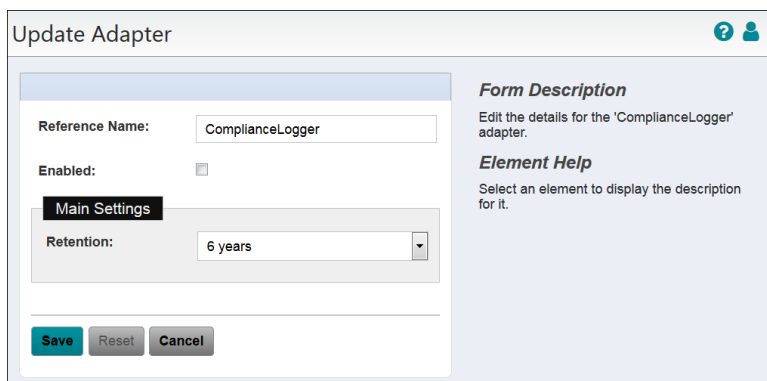
**Main Settings** Version: 1.1.0.4  
**Retention:** 6 years

[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

[Save](#) [Reset](#) [Cancel](#)

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

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

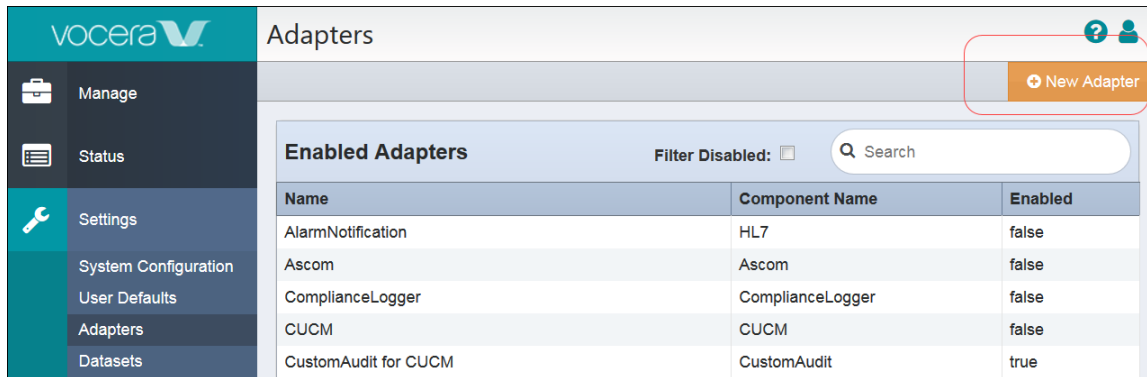
5. Select one of the options to exit the **Update Adapter** page. See [Saving an Adapter](#) on page 19 for details.

## 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 15 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.

**Upload a Bundle**

Cancel Upload

**Bundle to upload:** Browse... No file selected.

**Form Description**  
Uploading a bundle will allow you to install a new adapter component or upgrade an existing one.

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

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:

Adapters > New

**Create a New Adapter**

Component Name: AssignmentGroupSync

Reference Name: AssignmentGroupSync

Enabled: ☒

Save Reset Cancel

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 15 for instructions.
2. Select **Edit** in the Actions menu to access the Update page for the adapter.

The screenshot shows the 'XMPP Adapter' configuration page. At the top, there are two buttons: 'Remove' (with a trash icon) and 'Edit' (with a pencil icon). The 'Edit' button is highlighted with a red circle. Below the buttons, there is a table with the following information:

Reference Name:	XMPP
Component Name:	XMPP
Enabled:	true

Below the table, it says 'Main Adapter Settings' and 'Version: 4.0.0.175'. To the right of the table, there is a section titled 'It Might Help to Know...' with the following text: '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.

The screenshot shows the 'Update Adapter' page. On the left, there is a form with the following fields:

- Reference Name: XMPP
- Enabled: ☐ (highlighted with a red circle)
- Required Datasets:
  - Actors: Actors (dropdown menu)
  - Assignments: Assignments (dropdown menu)

On the right, there is a section titled 'Form Description' with the text: 'Edit the details for the 'XMPP' adapter.' Below that, there is a section titled 'Element Help' with the text: '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 19 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.

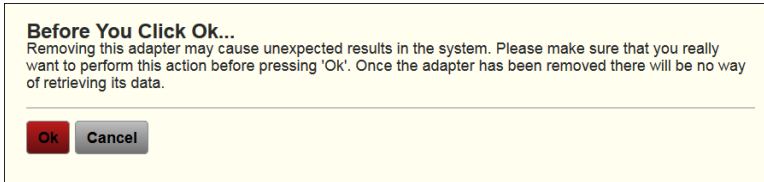
1. Access the Vocera Platform Web Console and navigate to the adapter to remove.  
See [Navigating the Vocera Platform Adapters](#) on page 15 for instructions.
2. Select **Remove** in the Actions menu to permanently delete the adapter.

The screenshot shows the 'XMPP Adapter' configuration page. At the top, there are two buttons: 'Remove' (with a trash icon) and 'Edit' (with a pencil icon). The 'Remove' button is highlighted with a red circle. Below the buttons, there is a table with the following information:

Reference Name:	XMPP
Component Name:	XMPP
Enabled:	true

Below the table, it says 'Main Adapter Settings' and 'Version: 4.0.0.175'. To the right of the table, there is a section titled 'It Might Help to Know...' with the following text: '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.

