stryker

Vocera EarlySense Adapter Configuration Guide

Version 1.0.102

Notice

Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: Stryker, Vocera. All other trademarks are trademarks of their respective owners or holders. The absence of a product or service name or logo from this list does not constitute a waiver of Stryker's trademark or other intellectual property rights concerning that name or logo. Copyright © 2023 Stryker.

Last modified: 2023-02-24 13:39

ADP-earlysense-10102-Docs build 166

Contents

Understanding a Vocera EarlySense Adapter Configuration....4
Viewing the Vocera EarlySense Adapter Requirements....4
Configuring a Vocera EarlySense Adapter....6
Understanding the Vocera EarlySense Adapter Rules....10
Integrating EarlySense on Vocera Platform....11
Configuring Alert Escalation for EarlySense....12
Configuring Internally Escalated Message Types....12
Configuring Externally Escalated Message Types....14
Understanding DataUpdate Reset in Alert Escalations....16
Understanding Adapter Installation....17
Recreating a Repository....17
Installing an Adapter....18
Practicing an Adapter Installation....18
Navigating the Vocera Platform Adapters....20
Editing an Adapter....22
Creating a New Adapter....23
Saving an Adapter....24
Deactivating an Adapter....24
Removing an Adapter....25

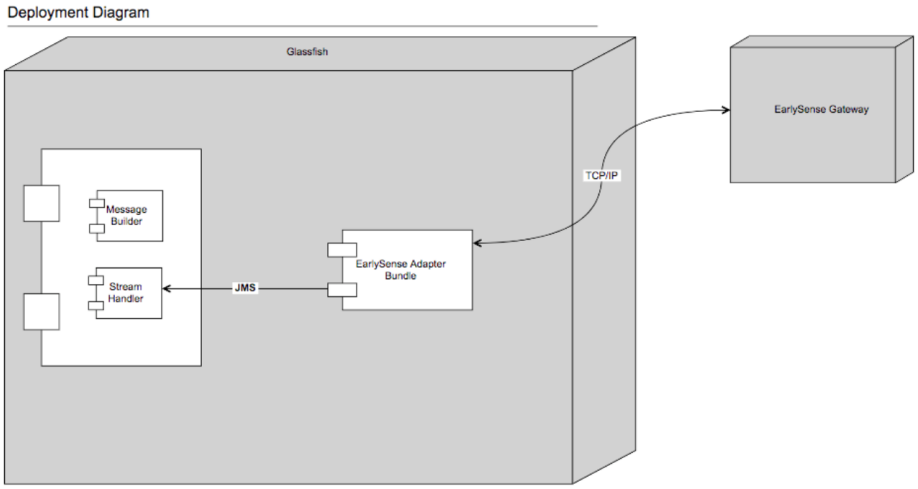
Understanding a Vocera EarlySense Adapter Configuration

The Vocera EarlySense Adapter allows the Early Sense Gateway to deliver alerts from the EarlySense bed pads to Vocera Platform.

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

EarlySense is a bedside monitor that uses a sensor pad under the bed to detect certain events. The Vocera EarlySense Adapter receives bed sensor alerts from the bed monitor through the EarlySense Gateway. The alert data will be stored in datasets matching specific requirements.

The following diagram shows an overview of the system deployment. See Integrating EarlySense on Vocera Platform on page 11 for additional details about using EarlySense.



Viewing the Vocera EarlySense Adapter Requirements

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

System

The Vocera EarlySense Adapter is supported on Vocera Platform version 6.0.0 or later.

The Vocera EarlySense Adapter is supported on Engage Platform version 5.4 and above.

Ports

The EarlySense Gateway requires port 5050.

Configuring a Vocera EarlySense Adapter

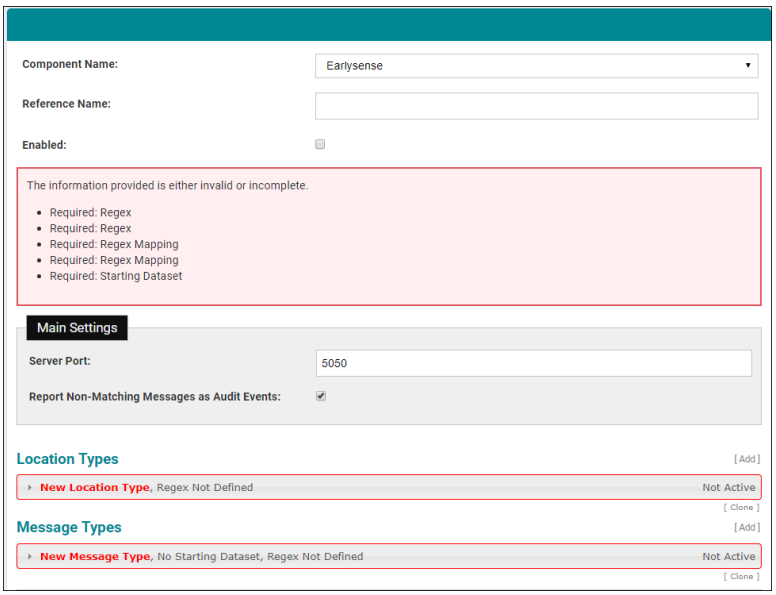
These settings enable direct communication between the Vocera EarlySense Adapter and the Vocera Platform.

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 20 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 23 and Editing an Adapter on page 22 for instruction as needed.

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

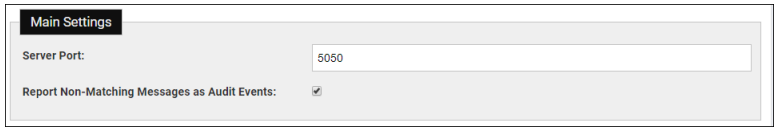


4. Complete the configuration fields as described in the table.

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.

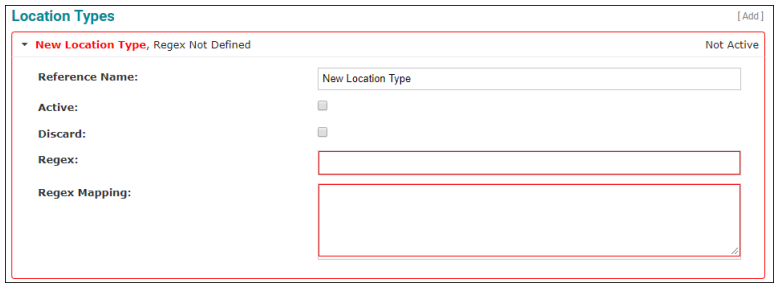
Configuration Field	Description
Reference Name	Enter a short descriptive name in the Reference Name field to uniquely identify an adapter instance. It may demonstrate the adapter function or other information; for example, Production adapter may differentiate a live adapter from a development or "sandbox" 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.
Main Settings	The settings described in this section provide the Vocera Platform with the explicit information required to communicate with the customer's servers, such as server IP addresses and login information.
Location Types	This section contains a list of location types which are used to match EarlySense's location information for each bed, and specify the information needed to link new alerts to the Vocera Platform bed record.
Message Type	The Vocera EarlySense Adapter message types include a regex mapping for the event data from the message received. The regex mapping stores the event data as an alert.

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



Main Settings	Description
Server Port	Verify the default value of 5050 on which to receive EarlySense messages. (This is only port number EarlySense Gateway supports.) This value is required.
Report Non-Matching Messages as Audit Events	Check this box to indicate whether audit events should be created for messages which do not match a message type or a location type. This should be checked by default.

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



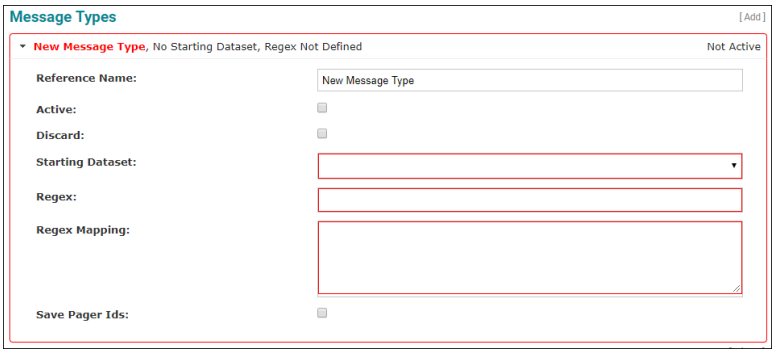
Location Types	Description
Reference Name	Enter a name to use when referring to a specific location type.
Active	Check this box to indicate that the location type is active. Inactive types are ignored in processing the location information.

Location Types	Description
Discard	Check this box to indicate whether the location type should cause messages from beds (whose location matches this type) to be discarded without creating any alerts. This allows location types to be created for the sole purpose of preventing alerts that match the specified pattern. In implementation, the adapter does not subscribe to these beds.
Regex	Enter a regular expression that will be used to match a location value to this type. When processing a location value, the first location type whose regular expression matches the value is chosen.
Regex Mapping	Enter a list of mapping expressions which map alert attributes to values from the location based on capture groups from the regular expression. This value is only available if the location type does not specify to discard matching messages. Specify one or more attributes, or attribute paths, one per line, to be filled with data from the above regex. The attribute paths entered should be relative to the Starting Dataset of the Message Type that is matched. See **Understanding Regular Expressions** for additional information.

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

   The Vocera EarlySense Adapter message types include a regex mapping for the event data from the message received. The regex mapping stores the event data as an alert. Although only one message type is required to create the adapter, the Implementation Specialist may add, remove, or modify message types as needed.

   EarlySense message types can also be configured for internally escalated alerts and externally escalated alerts. Please see Integrating EarlySense on Vocera Platform on page 11 for examples of each type.



Message Type	Description
Reference Name	Enter a descriptive name for the message type. This field is required
Active	Select the Active checkbox to indicate whether or not the message type is active.
Discard	Select the Discard checkbox to not process the alarm message received if it matches this specific message type. Message types may be created for alarm messages which are expected to be received but are of no interest; by marking these for discard, the messages may be filtered from the audit log.

Message Type	Description
Starting Dataset	Select a dataset that has been agreed upon by the facility (selectable from the list of all available datasets) to use for messages that match with the given message type. It is not available for "Discard" message types.
Regex	Enter a regular expression that will be used to match a message value to this type. When processing a message value, the first message type whose regular expression matches the value is chosen.
Regex Mapping	Enter a list of mapping expressions which map alert attributes to values from the message, based on capture groups from the regular expression. This value is only available if the message type does not specify to discard matching messages. Specify one or more attributes, or attribute paths, one per line, to be filled with data from the above regex. See **Understanding Regular Expressions** for additional information.
Save Pager IDs	The Save Pager IDs option is used for alerts that are being sent to Vocera Platform from the facility. Check this box if the facility is providing information regarding to whom the alerts should be delivered. It is not available for "Discard" message types.
Pager ID Regex	Enter a regular expression to match. Pager ID Regex and Pager ID Regex Mapping specify a pattern that the pager ID must match to be saved with the message, and how to map the pager ID into an attribute of a dataset linked to the starting dataset. The assumption is that the attribute paths reference a "to-many" link so that multiple matching pager IDs can be saved. This is not available if Save Pager IDs is not set. This is also not available for "Discard" message types.
Pager ID Mapping	Enter a regex mapping to map. Pager ID Regex and Pager ID Regex Mapping specify a pattern that the pager ID must match to be saved with the message and how to map the pager ID into an attribute of a dataset linked to the starting dataset. The assumption is that the attribute paths reference a "to-many" link so that multiple matching pager IDs can be saved. This is not available if Save Pager IDs is not set. This is also not available for "Discard" message types.

8. Select one of the available options to exit the adapter configuration page. See Saving an Adapter on page 24 for details.

Understanding the Vocera EarlySense Adapter Rules

This adapter does not require dataset rule configuration.

Integrating EarlySense on Vocera Platform

Message types and datasets are configured in Vocera Platform in order to integrate EarlySense alerts.

Storing EarlySense Alert Data in Vocera Datasets

EarlySense sends three pieces of information to Vocera Platform in order to create an alert. First, the room number and bed number are sent. These two pieces are linked together to provide the location, and should be linked to the created alert. The second piece of information that is sent is the alert type.

There is a third, optional piece of data for pager ID's if external escalations are being used. EarlySense is configured to deliver external escalation alerts to devices identified by Pager IDs. When the site is using external escalation, these pager ID's should be stored as a linked 'To' dataset record. It should not be linked to the main alert, but linked to a message of that alert. This data is needed to ensure a single conversation exists for multiple messages for a single event.

In addition to the above data, there are several attributes that should be constructed for the alert. Attributes and links are required on the Alert child datasets (the Main Alert and AlertMessage datasets) to manage events from EarlySense; the names of the datasets are determined by the Implementation Engineer. Regardless of the dataset used, the basic structure should be the same as described in this documentation. It is important that the AlertMessages dataset be used in external alert escalation to ensure a single alert for communication.

The NurseCalls and NurseCallMessages datasets also fulfill the requirements, and if desired, EarlySense alerts can be stored in them. When these datasets are used, there is a benefit gained by using these previously existing rules. The Implementation Engineer must work with the clinical staff to determine if storing these alerts in NurseCalls and NurseCallMessages are appropriate. If this approach is taken, the default Vocera TAP Adapter documentation provides excellent guidance on how they should be handled.

Create Attributes on the Main Alert Dataset

The Main Alert dataset is a child of the Vocera Alerts dataset. Create the following attributes on the Main Alert dataset for use in an EarlySense integration.

Name	Description	Type	Key	Required	Index
alert_id	The id of the alert	String	true	false	false
timestamp	The timestamp for the alert	String	false	false	false

Create the following link attributes on the Main Alert dataset in the Vocera Platform.

Name	Reverse Name	Linked Dataset	Type	Key	Reverse Key	Index
bed	alert	Beds	many-to-one	false	false	false
alert_messages	alert	AlertMessages	one-to-many	false	false	true

Create Attributes on the AlertMessage Dataset

The AlertMessage dataset is a child of the Vocera Alerts dataset. Create the following link attributes on the AlertMessage dataset for use in an EarlySense integration.

Name	Reverse Name	Linked Dataset	Type	Key	Reverse Key	Index
recipient	messages	To	many-to-one	false	false	false
alert	alert_messages	MainAlert	many-to-one	false	false	true

Configuring Alert Escalation for EarlySense

Vocera EarlySense Adapter message type configuration provides two methods of escalating EarlySense alerts.

In order to admit a patient for monitoring, EarlySense requires that a single caregiver be assigned to the patient. A single supervisor for the unit may also be configured through the Central Display Station.

When an alert is triggered, a notification will be sent immediately to the assigned caregiver. If the alert remains unacknowledged at the monitor, additional notifications will be triggered at a configurable periodic interval. These additional notifications will always be directed at the assigned caregiver, but the notifications may also be intermittently directed at the assigned supervisor.

Due to the limited configuration options, it is recommended to use externally-sourced staff assignments. Externally-sourced staff assignments will support escalations, instead of simply passing through the notifications to the caregivers via EarlySense.

Message types can be created for either internally or externally escalated alerts. Internally configured alerts escalate within the hospital via Vocera badges, Cisco phones, or other devices. The configuration in this case relies on Vocera Platform to determine who receives the alert. See Configuring Internally Escalated Message Types on page 12 for details.

Conversely, externally configured alerts rely on the facility to tell Vocera Platform where to route the alert in an escalation. See Configuring Externally Escalated Message Types on page 14 for details.

Configuring Internally Escalated Message Types

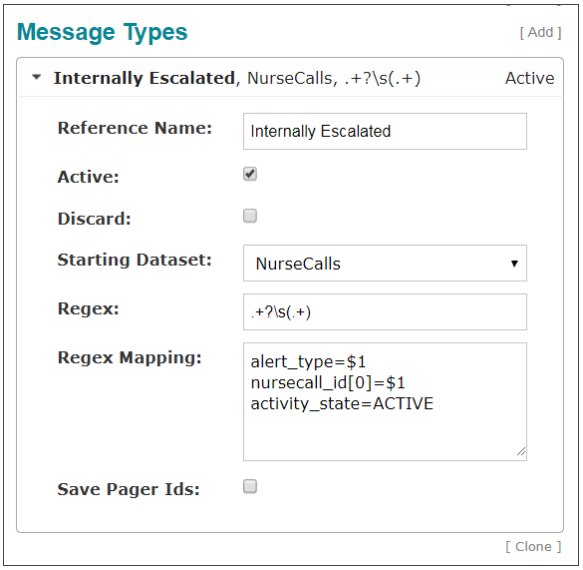
Message types can be configured for internally escalated alerts. Repeated alerts require understanding the key configuration for internal escalations.

The Vocera EarlySense Adapter message types include a regex mapping for the event data from the message received. The regex mapping stores the event data as an alert.

Although only one message type is required to create the adapter, Implementation Specialists may add, remove, or modify message types as needed. See **Understanding Regular Expressions** for more information on regular expressions.

Remember that internally escalated message types are messages where Vocera Platform controls to whom the message is sent. Please see Configuring Externally Escalated Message Types on page 14 for messages that are to be routed by the facility to Vocera Platform.

This section contains integration details about creating internally escalated alerts; see the Configuring a Vocera EarlySense Adapter on page 6 description for the full context.



Field	Description
Regex	Enter a regular expression that will be used to match a message value to this type. When processing a message value, the first message type whose regular expression matches the value is chosen.
Regex Mapping	Enter a list of mapping expressions which map alert attributes to values from the location based on capture groups from the regular expression. This value is only available if the message type does not specify to discard matching messages. Specify one or more attributes, or attribute paths, one per line, to be filled with data from the above regex. See **Understanding Regular Expressions** for additional information. The regex mapping on the message type is designed to strip out the excess information in the message, which was the location information in our testing. This may need to be updated depending on the information Vocera Platform is receiving from EarlySense, and can be similar to TAP and HL7.
Save Pager IDs	Save Pager IDs is not used for internally escalated messages. Leave this box unchecked.

Understanding Repeated Alerts in Internally Escalated Alerts

Because EarlySense will send repeated notifications if the alert remains unacknowledged at the bedside monitor, some consideration is required on how to store and manage the data. Work with the clinical staff at the facility to determine the proper approach based on their needs.

Create a Unique Key

If notifications are spaced sufficiently to allow deliveries to the entire escalation path based on the alert type before an alert notification is repeated, then the alert should be stored as unique upon creation. The unique key for the alert should be composed from the alert location, alert type, and the current date/time. The timestamp for the alert may also be set.

Create a Reproducible Key

If notifications are not spaced sufficiently to allow deliveries to the entire escalation path based on the alert type before an alert notification is repeated, then the alert should be stored with a reproducible key and then made unique after a delay. The key for the alert should be composed from just the alert location and alert type. The timestamp for the alert should not be set as this may cause an unexpected updates that could disrupt the escalation path. See Understanding DataUpdate Reset in Alert Escalations on page 16 for guidance on making the key of the alert unique.

Configuring Externally Escalated Message Types

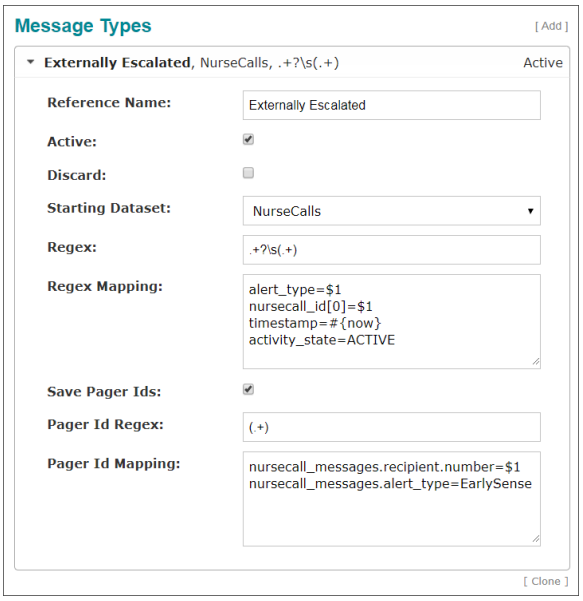
Message types can be configured for externally escalated alerts. Repeated alerts require understanding the key configuration for internal escalations.

The Vocera EarlySense Adapter message types include a regex mapping for the event data from the message received. The regex mapping stores the event data as an alert.

Although only one message type is required to create the adapter, Implementation Specialists may add, remove, or modify message types as needed. See **Understanding Regular Expressions** for more information on regular expressions.

Remember that externally escalated message types are messages where the facility tells Vocera Platform to whom the message is sent. Please see Configuring Internally Escalated Message Types on page 12 for messages that are to be routed by Vocera Platform.

This section contains information about creating externally escalated alerts; see the Configuring a Vocera EarlySense Adapter on page 6 configuration description for the full context.



Field	Description
Regex	Enter a regular expression that will be used to match a message value to this type. When processing a message value, the first message type whose regular expression matches the value is chosen.
Regex Mapping	Enter a list of mapping expressions which map alert attributes to values from the location based on capture groups from the regular expression. This value is only available if the message type does not specify to discard matching messages. Specify one or more attributes, or attribute paths, one per line, to be filled with data from the above regex. See **Understanding Regular Expressions** for additional information. The regex mapping on the message type is designed to strip out the excess information in the message, which was the location information in our testing. This may need to be updated depending on the information Vocera Platform is receiving from EarlySense and can be similar to TAP and HL7.
Save Pager IDs	Save Pager IDs is not used for internally escalated messages. Leave this box unchecked.
Pager ID Regex	Pager ID Regex and Pager ID Regex Mapping specify a pattern that the pager id must match to be saved with the message, and how to map the pager ID into an attribute of a dataset linked to the starting dataset. The assumption is that the attribute paths reference a "to-many" link so that multiple matching pager IDs can be saved. This is not available if Save Pager IDs is not set.
Pager ID Mapping	Pager ID Regex and Pager ID Regex Mapping specify a pattern that the pager ID must match to be saved with the message, and how to map the pager ID into an attribute of a dataset linked to the starting dataset. The assumption is that the attribute paths reference a "to-many" link so that multiple matching pager IDs can be saved. This is not available if Save Pager IDs is not set.

Understanding Repeated Alerts in Externally Escalated Alerts

Because EarlySense will send repeated notifications if the alert remains unacknowledged at the bedside monitor, some consideration is required on how to store and manage the data. Work with the clinical staff at the facility to determine the proper approach based on their needs.

Create a Unique Key

If EarlySense is being used to manage the escalation of an alert, then a delivery should be made to the appropriate caregivers for each notification received. In this deployment scenario, the easiest way to manage the data is to record each notification as a new alert. In this case, the alert should be stored as unique upon creation. The unique key for the alert should be composed from the alert location, alert type, and the current date/time. The timestamp for the alert may also be set. This approach works well for legacy devices where each device receives the message independently.

Create a Reproducible Key

If the facility is using XMPP devices, then aggregating the repeated alerts into a single event and conversation may be desirable. In this deployment scenario, the alert should be stored with a reproducible key and then made unique after a delay. The key for the alert should be composed from just the alert location and alert type. The timestamp for the alert may also be set. See Understanding DataUpdate Reset in Alert Escalations on page 16 below for guidance on making the key of the alert unique. The XMPP rule used for delivery of the alert should set the "Re-Alert" flag to ensure that the primary caregiver is alerted each time that a notification is received.

Understanding DataUpdate Reset in Alert Escalations

For both internal and external escalations, a reset rule may be needed to ensure the alert is reset after a configured amount of time following creation.

Since various alert types may be managed differently, the conditions for the DataUpdate rule should properly filter the intended targets. The rule action should transform the key of the alert by adding an element which ensures the value is distinct.

While adding a timestamp to the alert id may be sufficient, it is recommended that the key be composed by adding the id of the dataset record to the existing alert_id, such as:

```
#{alert_id}-{id}
```

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
                                                | 3.6 kB  00:00:00
(1/2): Quartz/group_gz
                                                |  483 B  00:00:00
(2/2): Quartz/primary_db
                                                |  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
 Version                           Repository                       Size
=================================================================================
Installing:
 extension-navicare-interface                           x86_64
 1.3.3-0                           Quartz                           59 k

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!
```

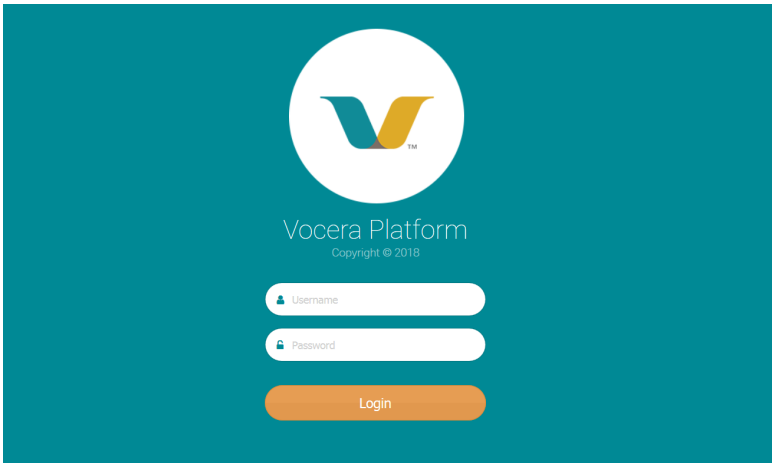
5. This completes the steps to install an adapter.

Navigating the Vocera Platform Adapters

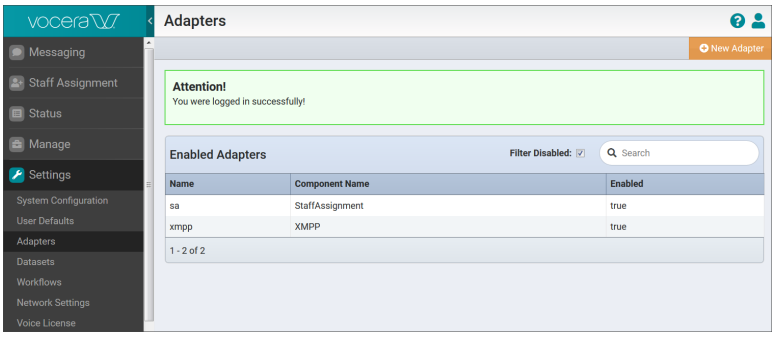
Access the Adapters tab and use the filter or search tools to display a specific adapter.

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.



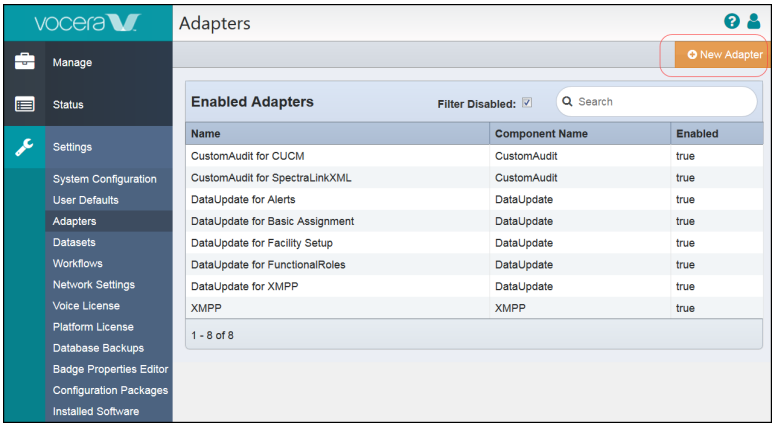
   The **Adapters** page displays.

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.

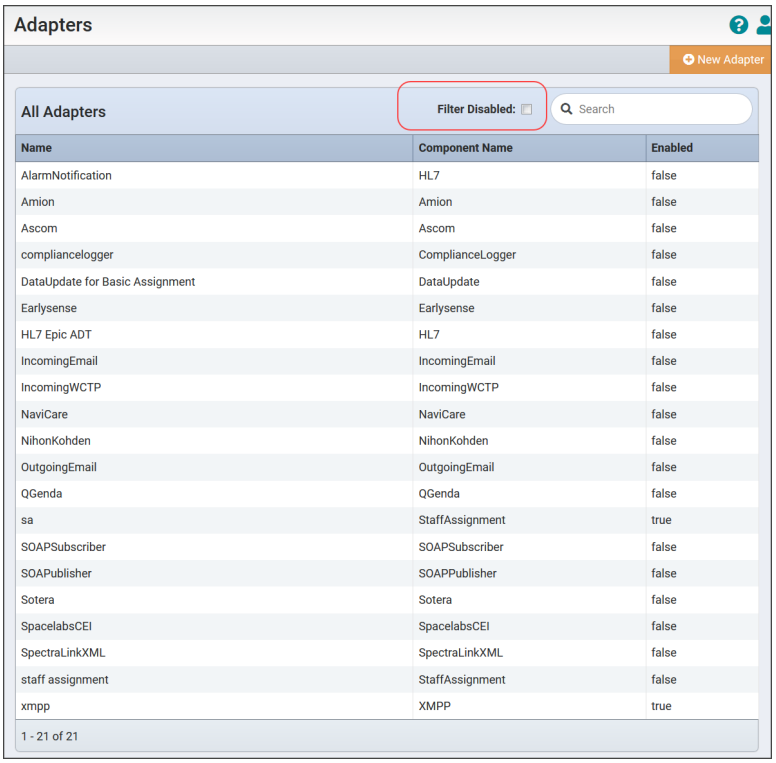
   On the **Adapters** page you can identify adapters by their name or component name. The Enabled column (displaying a true or false status) indicates whether the adapter is active on the system, or disabled.

   The bottom row of the grid reports the number of adapters displayed, of the available adapters.

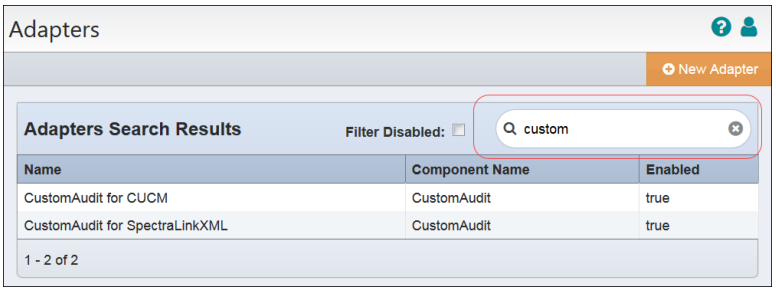
   The Filter Disabled box is checked by default, and displays only the enabled adapters that are configured on the Vocera Platform.



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.

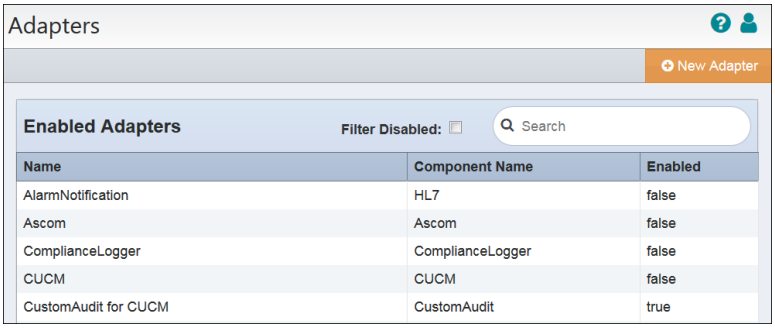


Editing an Adapter

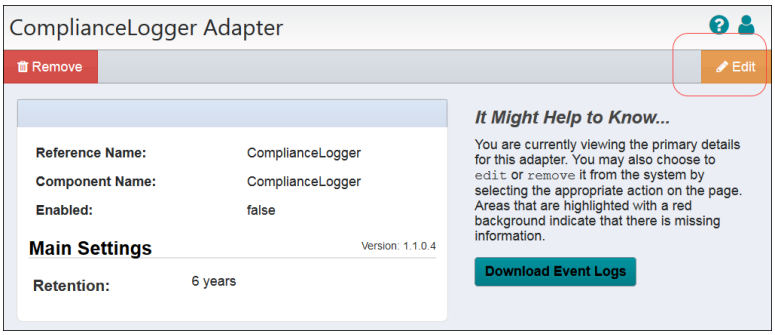
Edit an adapter that has been installed on the Vocera Platform.

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.

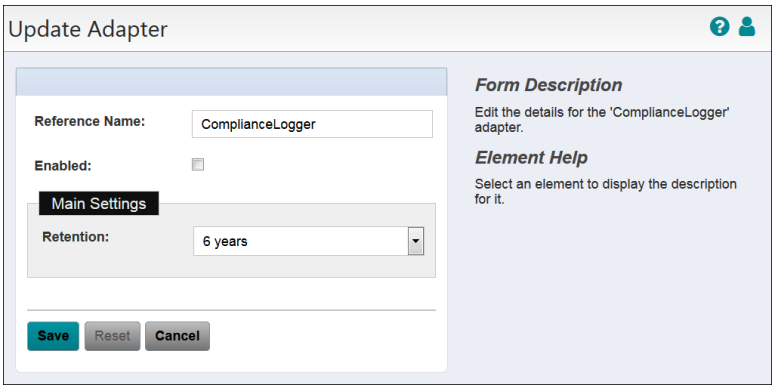
1. Access the Vocera Platform Web Console and navigate to the adapters.
   See Navigating the Vocera Platform Adapters on page 20 for instructions.
2. Select the adapter to edit in the **Adapters** list.



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.



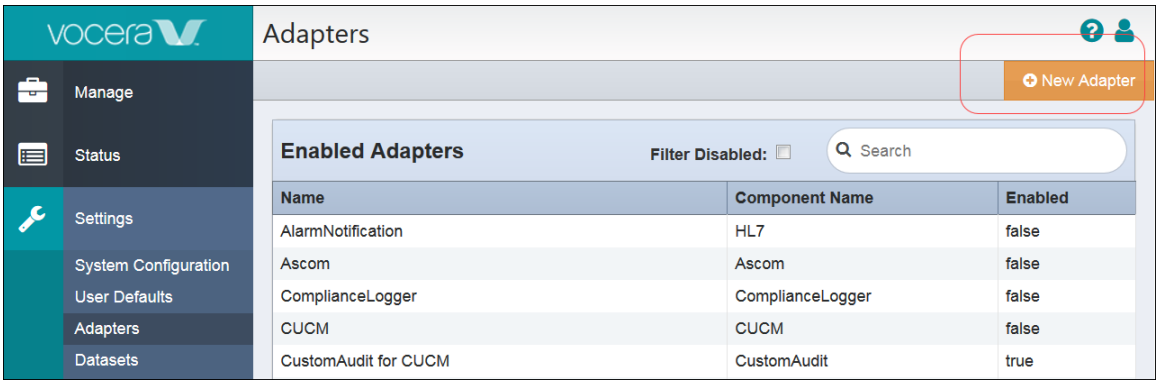
5. Select one of the options to exit the **Update Adapter** page. See Saving an Adapter on page 24 for details.

Creating a New Adapter

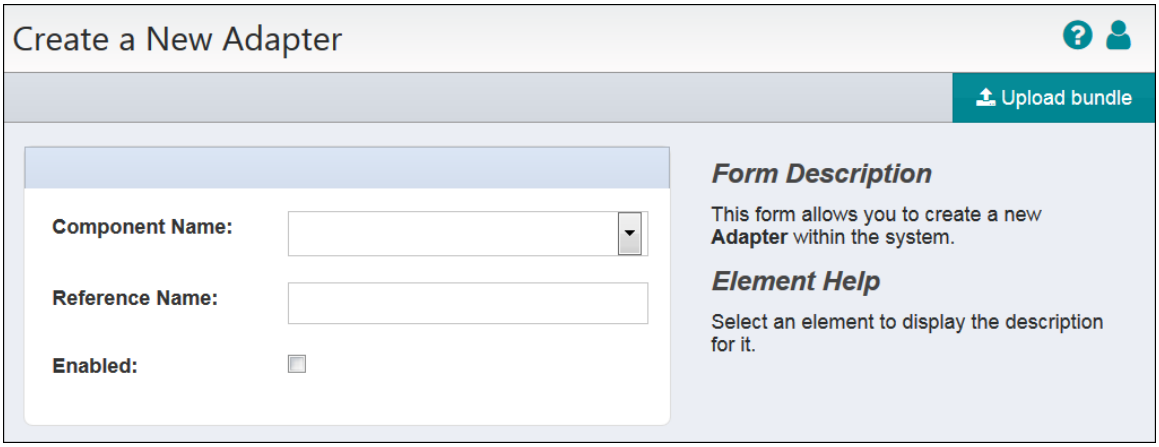
Access the Vocera Platform Web Console to work with adapters, or create a new adapter when prompted in the package import process.

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 20 for instructions.
2. Select **New Adapter** in the Action menu on the Adapters page.

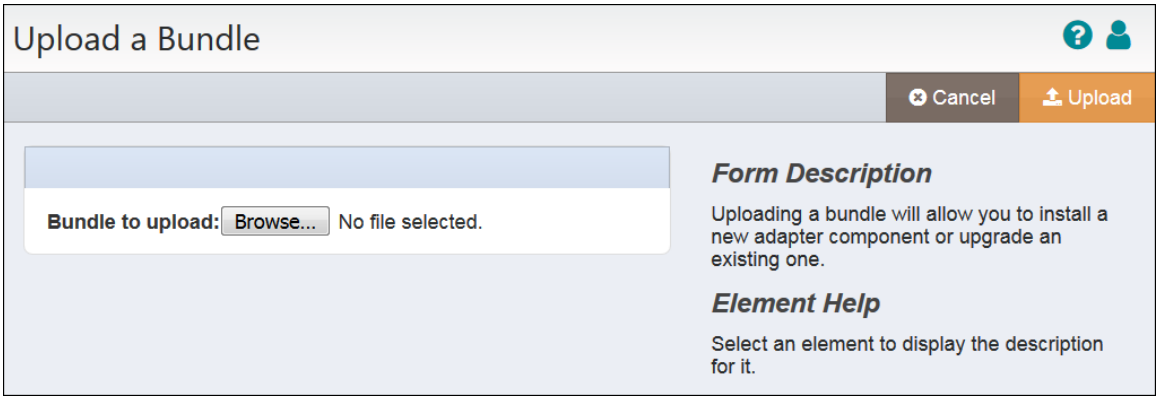


   The **Create a New Adapter** dialog displays.
3. Complete the configuration fields.



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

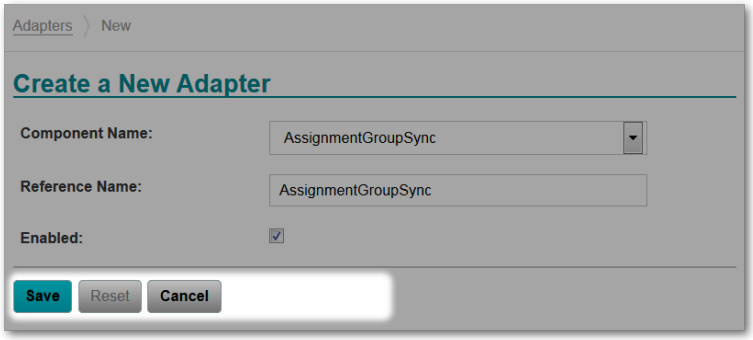
Close an adapter configuration dialog using the Save, Reset, or Cancel options.

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:



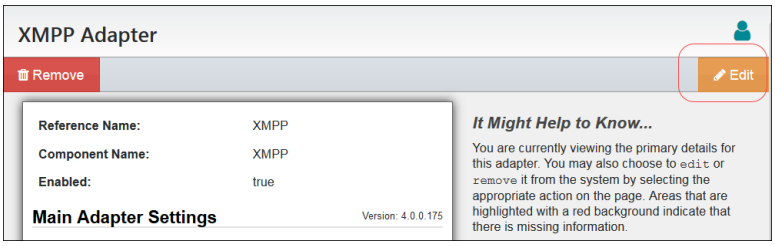
Option	Description
Save	Select Save to store the adapter configuration in the system, when the fields are set to desired specifications.
Cancel	Select Cancel to close the configuration window without saving your changes to the system.
Reset	Select Reset to clear all fields without closing the window,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

Deactivating an Adapter

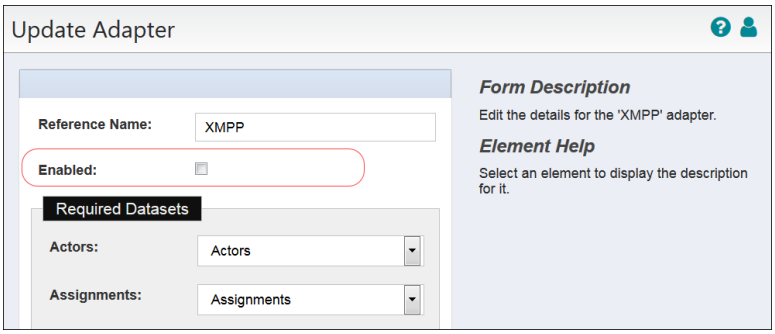
Temporarily deactivate an adapter to avoid unintentional use of it in an implementation.

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



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.



4. Select one of the options to exit the **Update Adapter** page. See Saving an Adapter on page 24 for details.

Removing an Adapter

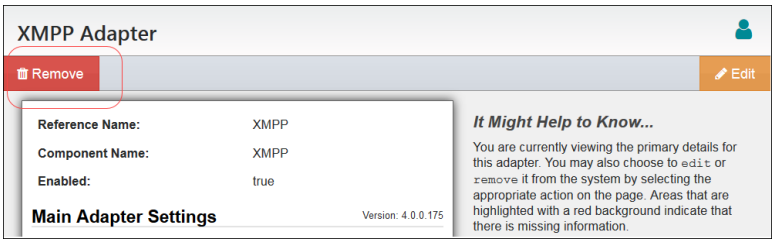
Permanently remove an adapter from the Vocera system.

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.

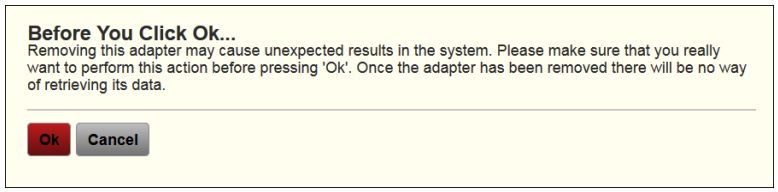
Use the remove function to permanently delete the adapter from the system. Alternatively, you can disable an adapter and the Vocera system will ignore it.

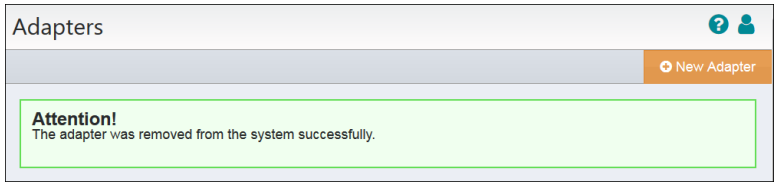
Warning: Remove cannot be undone. If any system features use this adapter, removing the adapter prevents the features from functioning.

1. Access the Vocera Platform Web Console and navigate to the adapter to remove.
   See Navigating the Vocera Platform Adapters on page 20 for instructions.
2. Select **Remove** in the Actions menu to permanently delete the adapter.



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.