stryker

Vocera VMP Adapter Configuration Guide

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Understanding a Vocera VMP Adapter Configuration

This adapter interfaces between Vocera Platform and the Vocera Messaging Platform (VMP) by sending and cancelling alerts, synchronizing Vocera devices with VMP users, and storing alert responses from VMP.

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

This adapter performs several functions with the VMP system. Primarily, this adapter delivers and cancels alerts to VMP users. The adapter also stores, receives, and processes responses from these alerts. It also synchronizes VMP users to Vocera devices in order to deliver and cancel alert messages.

The Vocera VMP Adapter requires an LDAP/Active Directory connection.

Viewing the Vocera VMP Adapter Requirements

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

Datasets

An adapter defines a default Dataset structure in order to function. Attributes are organized by Datasets and store the information required by the adapter. Adapters use this data during the process of receiving and sending messages.

Not all adapters require Datasets to function. When an adapter does require Datasets, the system will determine if they already exist. If they do not exist, the system will create the needed Datasets.

When creating or editing an adapter, use the following information to select the appropriate datasets in the Required Datasets section.

- The DEVICES Dataset stores all details of every device registered with the Vocera Platform. Each device to which Vocera can send a message must be listed in this dataset.
- The LINES Dataset stores each telephone line reported by a device when it is registered.
- The USERS Dataset stores all Vocera users.
- The VMPMESSAGETORULEMAP Dataset details of every core object triggered by the VMP interface.

DEVICES Dataset

Element	Name	Reverse Name	Key	Reverse Key	Required	Type	Description
Attribute	name	N/A	True	N/A	N/A	String	Attribute that stores the name that identifies the device, often based upon the MAC address of the device.
Attribute	status	N/A	False	N/A	True	String	Attribute that stores the current registration status of the device. Possible values are Registered, Disconnected, Virtual, or Unregistered.
Attribute	vendor	N/A	False	N/A	True	String	Attribute that stores the vendor of the device. For example, Cisco or XMPP.
Attribute	ip_address	N/A	False	N/A	False	String	Attribute that stores the current IP address of the device. In some cases the Vocera Platform needs to keep track of the IP address of a device, such as with a Cisco phone.

Element	Name	Reverse Name	Key	Reverse Key	Required	Type	Description
Attribute	priority	N/A	False	N/A	False	String	Attribute that stores the priority level of the most recent message sent to a device. Required by the device management library, but not set by the XMPP adapter. It is used as a filter to prevent less important messages from being sent to a user currently handling a critical issue.
Attribute	token	N/A	False	N/A	False	String	Attribute that stores a special identifier needed by some devices, such as smart phones, in order to deliver a message.
Link	lines	devices	False	False	N/A	One-to-many	The DEVICES Dataset is linked to the LINES Dataset, and the link order is 1:n (one device associated to many lines)

Element	Name	Reverse Name	Key	Reverse Key	Required	Type	Description
Link	usr	devices	False	False	N/A	Many-to-one	The DEVICES Dataset is linked to the USERS Dataset, and the link order is n:1 (many devices associated to one user)

LINES Dataset

Element	Name	Reverse Name	Key	Reverse Key	Required	Type	Description
Attribute	number	N/A	True	N/A	N/A	String	Attribute that stores an actual telephone or directory number
Link	devices	lines	False	False	N/A	Many-to-one	The LINES Dataset is linked to the DEVICES Dataset, and the link order is n:1 (many lines associated to one device)

USERS Dataset

Element	Name	Reverse Name	Key	Reverse Key	Required	Type	Description
Attribute	login	N/A	True	N/A	N/A	String	Attribute that stores the login name of the user.
Link	devices	usr	False	False	N/A	One-to-many	The USERS Dataset is linked to the DEVICES Dataset, and the link order is 1:n (one user associated to many devices)

VMPMESSAGETORULEMAP Dataset

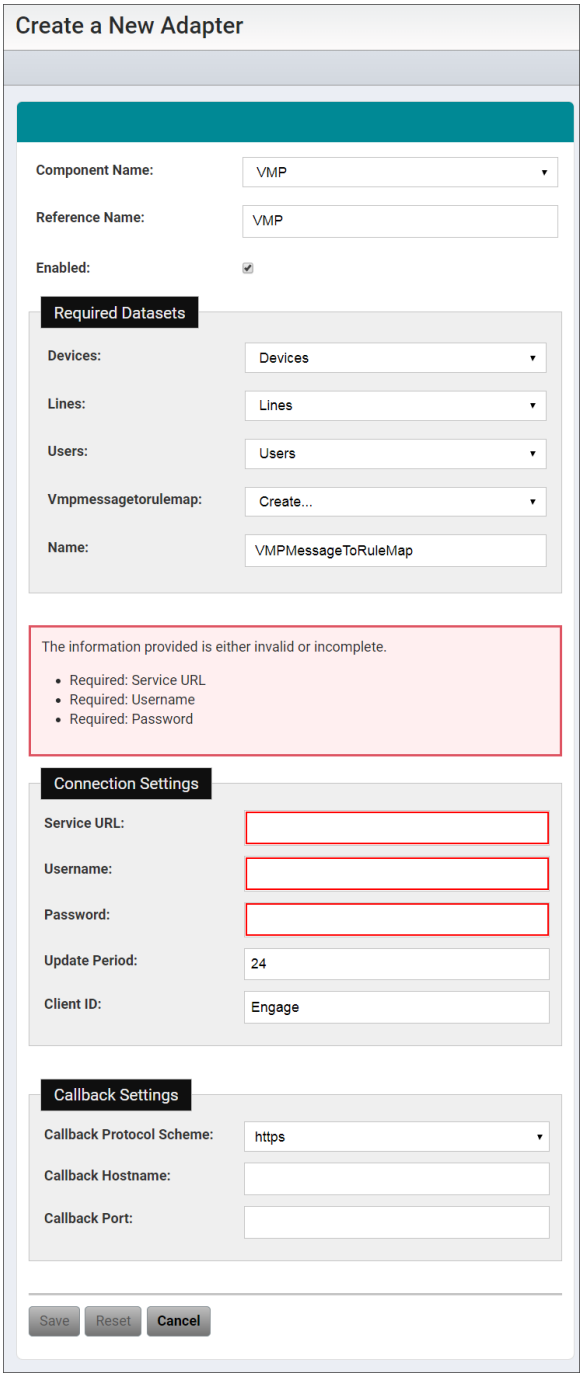
Element	Name	Reverse Name	Key	Reverse Key	Required	Type	Description
Attribute	delivery_objec	N/A	True	N/A	N/A	Integer	Attribute that stores the delivery object id generated when the rule originally triggered.
Attribute	core_object_id	N/A	False	N/A	True	Integer	Attribute that stores the core object id of the record that originally triggered the rule.
Attribute	rule_template	N/A	False	N/A	True	Integer	Attribute that stores the id of the rule template that was triggered.

Configuring a Vocera VMP Adapter

These settings enable direct communication between the Vocera VMP 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 25 for instructions.
2. Navigate to the New Adapter option, or navigate to an existing adapter to edit. See Creating a New Adapter on page 28 and Editing an Adapter on page 27 for instruction as needed.
   The configuration fields are the same for new and existing adapters.



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

   This section explains the settings that enable direct communication between the adapter and the Vocera Platform. Complete the fields described below to configure an adapter with the appropriate information to perform as required.

   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.

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.
Required Datasets	If more than one dataset exists that meets the adapter's requirements, select the appropriate datasets for the new adapter to function correctly. The system searches for the datasets that meet the adapters requirements. If the datasets already exist, the system will use them. If the datasets do not exist, the system will create them automatically. Select Create in the drop-down menu to create a new dataset to meet the organization's requirements.

4. Complete the **Connection Settings** configuration fields as described in the table.

   The connection settings provide Vocera Platform with the explicit information required to communicate with the VMP server.

Connection Settings	Description
Service URL	Enter the URL used to contact the remote VMP service. This field is required. The Service URL must identify a unique adapter instance.
Username	Enter the username of the account used to make requests to the remote VMP service. This field is required.
Password	Enter the password of the account used to make calls to the remote VMP service. This field is required.
Update Period	Enter the minimum time in hours between automatic updates to synchronize users with the VMP system. Valid range is 1 to 168 hours (one week). An **Update Users** option is provided to manually sychronize users, as well.
Client ID	Enter the client ID used to make requestst to the remote VMP system.

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

   The callback settings provide Vocera Platform with the explicit information required to communicate with the Voice Server (VS) for callback data.

Callback Settings	Description
Callback Protocol Scheme	Select the protocol scheme (http, or https) that the remote VMP service will use when calling back to the Vocera VMP Adapter. This field is required. The options are http, and https.
Callback Hostname	Enter the hostname that the remote VMP service will use when calling back to the adapter. If none is specified, the configured FQDN of the appliance will be used.

Callback Settings	Description
Callback Port	Enter the port that the remote VMP service should use when calling back to the adapter. This value must be between 1 and 65535. If none is specified, the adapter will use the default port for the selected protocol scheme (80 or 443).

6. Select one of the available options to exit the adapter configuration page. See Saving an Adapter on page 29 for details.

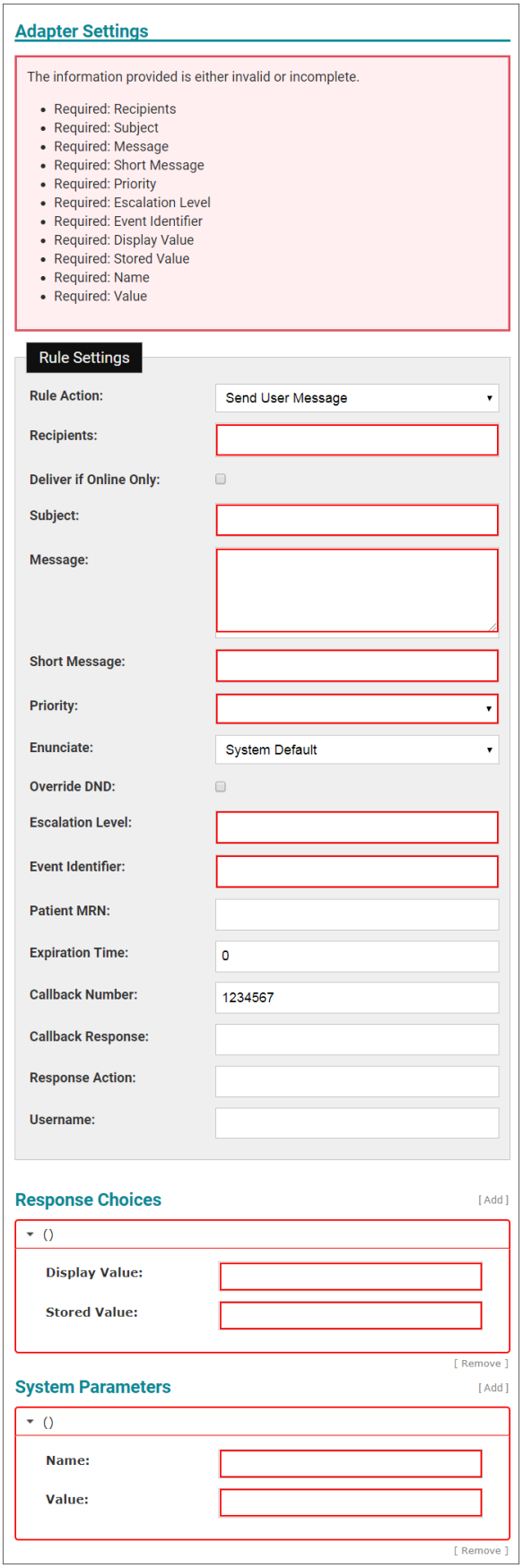
Understanding the Vocera VMP Adapter Rules

The Vocera VMP Adapter can be triggered to send alert messages to the VMP system when Vocera Platform receives data.

The alert message is composed using the static and dynamic values from the settings defined in the rule configuration. The message is sent to VMP using the username, password, and callback information from the adapter configuration, as well as the alert message, responses, and users to deliver to, based on the rule configuration and stored data.

See the Vocera Platform Dataset Guide for information about working with rules. See Configuring a Vocera VMP Adapter on page 9 for information about adapter settings.

In the Adapter Settings, configure the Rule Settings fields to manage message delivery.

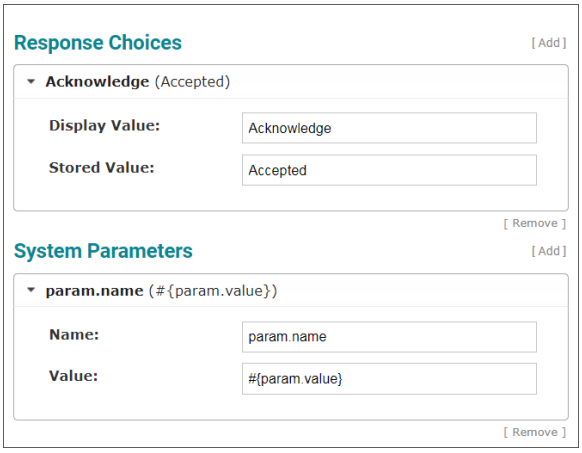

Adapter Settings
The information provided is either invalid or incomplete.
Required: Recipients
Required: Subject
Required: Message
Required: Short Message
Required: Priority
Required: Escalation Level
Required: Event Identifier
Required: Display Value
Required: Stored Value
Required: Name
Required: Value
Rule Settings
Rule Action:
Send User Message
Recipients:
Deliver if Online Only:
Subject:
Message:
Short Message:
Priority:
Enunciate:
System Default
Override DND:
Escalation Level:
Event Identifier:
Patient MRN:
Expiration Time:
0
Callback Number:
1234567
Callback Response:
Response Action:
Username:
Response Choices
[Add]
()
Display Value:
Stored Value:
[Remove]
System Parameters
[Add]
()
Name:
Value:
[Remove]

Setting	Description
Rule Action	The action to be performed when a rule is triggered. This is a required field. Select one option: **Send User Message**, **Send Group Message**, or **Cancel Message**.
Recipients	The destination or recipient that is to receive the generated message. This is a required field when Rule Action selection is Send Message.
Deliver if Online Only	Check the Deliver if Online Only box when the message should be sent only to users who are online. When this box is not checked, the message will be sent to all users.
Subject	The subject of the alert message to send to the recipients. This is a required field when Rule Action selection is Send Message.
Message	The message to send to the recipients, displayed in the VCS application. This is a required field when Rule Action selection is Send Message.
Short Message	The shorter summary of the full message for use with voise enunciation on badges. High priority messages are read aloud to recipients; best practice is to keep messages short and protect PHI. This is a required field when Rule Action selection is Send Message.
Priority	Establishes the message delivery prioritization. Allowed options are **Urgent**, **High**, **Normal**. This is a required field when Rule Action selection is Send Message. Accepted messages are delivered as a new high priority (value is 0) alert which vibrates and rings for 30 seconds. In configuration of the SEND ACCEPTED NOTIFICATION rule, care should be given to not contribute further to alarm fatigue for caregivers in choosing a default value for the priority field.
Enunciate	Select an option from the dropdown list for enunciation of the message to badges. This field is required. Options are as follow: • Select **System Default** to specify that messages will be enunciated according to the adapter's configuration and rule settings. • Select **Enunciate** to allow the message to be read aloud on a badge. • Select **Do Not Enunciate** to specify that messages will not be read aloud on a badge.
Override DND	Check this box when an alert should attempt to deliver to a user in DND state.
Escalation Level	The escalation level for the message. This field may contain attribute expressions in the form #{...}. This is a required field when Rule Action selection is Send Message.
Event Identifier	The unique identifier for the event that triggered the rule. This field may contain attribute expressions in the form #{...}. This is a required field when Rule Action selection is Send Message, or Cancel.
Patient MRN	The MRN of the patient identified in the alert.
Expiration Time	The time, in minutes, the recipient is given to respond to the alert before the message expires.

Setting	Description
Callback Number	The phone number to use to call back to the alerting device. When selected, the Callback Response field is provided for configuration.
Callback Response	The value to store in the Response Action field when the user selects the callback option in response to an alert. This field displays when Callback Number is configured.
Response Action	The path to the action to store and use when the user selects a response to the alert.
Username	The path to the username to store and use when the VMP system sends the response to the adapter.

Send (User or Group) Message Rule Action

When the **Send (User or Group) Message** Rule Action is selected, the following options can also be configured on the sent message.



Response Choices

Responses may be configured on the sent message to allow the recipient to respond to the message.

Setting	Description
Display Value	The name (key) of the system parameter, used by the VMP system to find the values it needs. This is a required field.
Stored Value	The value to store when the recipient selects this response. This is a required field.

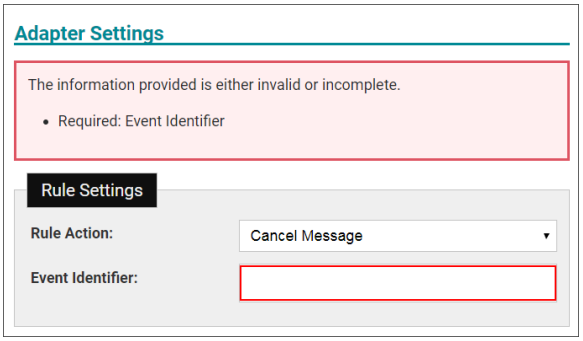
System Parameters

System parameters may be configured on the sent message to allow for the linking of arbitrary data for auxilary use (for example, Airstrip integration).

Setting	Description
Name	The name (key) of the system parameter, used by VMP to find the values it needs. This is a required field.
Value	The value of the system parameter. May contain attribute expressions in the form #{...}. This is a required field.

Cancel Messages Rule Action

When the **Cancel Message** Rule Action is selected, only the **Event Identifier** field is configured. This option is used to cancel an alert message in the VMP system, and all events associated with the configured Event Identifier.



Updating Users

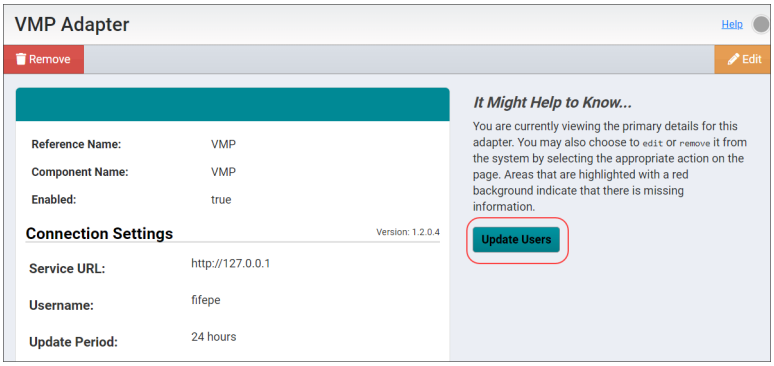
An option in the Vocera VMP Adapter sidebar provides the ability to manually synchronize VMP users with Vocera Platform devices.

A user synchronization occurs periodically while the adapter is running, as determined by the value configured in **Update Period** in Connection Settings. Refer to Configuring a Vocera VMP Adapter on page 9 for details.

If starting after a failover, a one hour delay is applied to the synchronization.

At the end of the manual user synchronization process, the field for limiting the synchronization rate is incremented by the interface parameter value in minutes (15 by default).

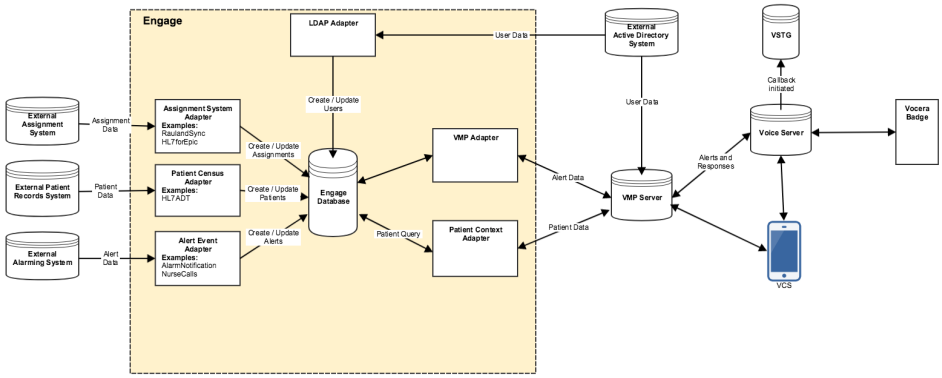
Click the **Update Users** button to manually initiate a synchronization of the users between Vocera Platform and the VMP system.



Understanding a Patient Context Integration

Vocera Platform supports the Vocera Messaging Platform (VMP) to process outgoing alerts, and provide patient context for the VMP supported smartphone applications.

Vocera Platform can facilitate alert delivery through VMP, including sending alert message, receiving alert responses, synchronizing VMP users to determine alert recipients, and solution integration for VMP users for alert processing. VMP can provide patient information to smartphone applications and attach patients to conversations, including searching for patients, retrieving a user's assigned patients, retrieving a configurable set of patient details, and retrieving a patient's care team to be added to a patient conversation. Vocera Platform provides a Vocera Patient Context Adapter, which is a RESTful service, to get patient context information, and a Vocera VMP Adapter, which utilizes the SOAP protocol, for alert delivery.



External Systems

Depending on the facility implementation, there may be four external systems sending data to both Vocera Platform and/or the VMP Server.

An external Active Directory (AD) system is implemented to send user data to both Vocera Platform and VMP. In order for this integration to work easily, both Vocera Platform and VMP should be connected to the same AD system. The important piece of shared data is the login of the user; both systems must map and store the user information in the same way so that when Vocera Platform sends a user login to VMP, it can find the correct user. Shown in the diagram, the AD system is connected to the VMP Server, while Vocera Platform can receive this data with an Vocera LDAP Adapter.

An external staff assignment system provides assignments to Vocera Platform, which are stored in the Vocera Platform database. These assignments are used to determine which users should receive alert messages, and for determining the care team for a patient. Shown in the diagram on the left side, Vocera Platform can receive this data with an assignment system adapter, such as Vocera ResponderSync Subscriber Adapter.

An external patient records system provides patient information for Vocera Platform, including which bed a patient is in. Having the right bed is essential to determining the correct care team for a patient with patient context. Shown in the diagram on the left side, Vocera Platform can receive this patient data with an ADT HL7 adapter.

An external patient monitor or other alerting system sends alert data to Vocera Platform. These alerts are stored in the database and will trigger Vocera VMP Adapter rules. Shown in the diagram on the left side, Vocera Platform can receive this alert data with a patient monitor adapter, such as AlarmNotification HL7.

Vocera Messaging Platform Adapter

Configure a Vocera VMP Adapter on the system in order to send alerts to the VMP Server for delivery.

The Vocera VMP Adapter must be configured to point to the VMP Server for the service URL. The service URL is expected to be in the format of http://<ip address>/wic.asmx. The user and password configured in the Vocera VMP Adapter also must be valid in the VMP Server for the connection to work. Vocera Collaboration Suite (VCS) will be presented with alerts from the configured user in the Vocera VMP Adapter, so the user should be chosen appropriately. See the Vocera VMP Adapter documentation for configuration details.

Shown in the diagram, the Vocera VMP Adapter will send alerts to the VMP Server when the database rules fire. Communication is bi-directional, and when the Vocera VMP Adapter receives user responses to alerts from the VMP Server, it will store these responses in the database.

Patient Context Adapter

Configure a Vocera Patient Context Adapter on the system to provide patient information when the VMP Server makes requests.

In the Vocera Patient Context Adapter configuration settings, the Client field should always be set to "VMP" in order to work correctly with the VMP Server. The Authentication Key must be copied to the VMP Server when setting it up, in order to work with this adapter. The Vocera Patient Context Adapter can be configured to pass along more data, if desired, using the Patient Detail Mappings settings. In addition, if there is an AirStrip integration, configure the Patient Property Mappings parameters to provide AirStrip with the data it needs. See the Vocera Patient Context Adapter documentation for configuration details.

Shown in the diagram, the Vocera Patient Context Adapter will query the database for patient data, and send patient data to the VMP Server for use in alerting.

Compliance Logger

The Vocera Compliance Logger Adapter is not specifically required for the Patient Context integration, but it is recommended to be enabled when there is an instance of Patient Context integration. The Vocera Compliance Logger Adapter captures significant compliance events, such as users logging into the system and accessing Protected Health Information (PHI). These logs capture who is accessing the information, when the information was accessed, and what information was accessed. In a facility where Patient Context integration is used and PHI is moving through the various adapters to be delivered to devices and caregivers, it is strongly recommended that the facility have records of who is accessing information via the Vocera Compliance Logger Adapter.

EMDAN Solution Setup

The Vocera Platform EMDAN solution provides a separate add-on VMP package; after installing the core Vocera Platform EMDAN package, install the VMP package. Various rules and conditions triggered by the Vocera VMP Adapter enable sending alerts to the VMP Server. Additionally, AirStrip parameters can be passed along in the Clinical rules when a facility uses an AirStrip integration.

Vocera Messaging Platform Server

The Patient Context integration requires Vocera Platform to send alerts to the Vocera Messaging Platform (VMP) server. The VMP Server needs to be configured to use the Authentication Key from the Vocera Patient Context Adapter and other settings to work with the Vocera VMP Adapter configuration in Vocera Platform. In addition, the VMP Server needs to be configured to get users from the same AD system that Vocera Platform uses to ensure the two systems have synced users. If the Vocera Patient Context Adapter is being used, the users will need to be given patient data access.

As shown in the diagram, Vocera Platform will send alerts to the VMP Server through the Vocera VMP Adapter. The VMP Server will send this message to Vocera Collaboration Suite (VCS), if the user is logged into VCS. The VMP Server can forward the message to a badge through the Vocera Voice Server (VS) if a user is logged into a badge instead of a VCS client. The VMP Server will receive responses and patient data requests from VCS, and will send these to the Vocera VMP Adapter and Vocera Patient Context Adapter respectively.

Voice Server

A Vocera Voice Server (VS) needs to be installed and configured for logging and analytics in a Patient Context integration. Additionally, VS facilitates communication for sites that have VCS clients and Vocera badges, as shown in the diagram. VS is used to forward messages to a badge when a user is logged into a badge and not VCS. When an alert is forwarded, the short message configured in the rule will be used for the badge, however, responses will function as normal for badges.

Vocera SIP Telephony Gateway

The Vocera SIP Telephony Gateway (VSTG) needs to be set up and configured when callbacks are being utilized in VCS. The VSTG allows the Vocera Voice Server (VS) to communicate with the PBX, which allows access to telephony.

Endpoints

This Patient Context integration is intended to deliver to mobile devices using the VCS client. In addition, it does support users using the VCS web client or forwarding to badges if a user is logged into a badge instead of VCS.

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!
```

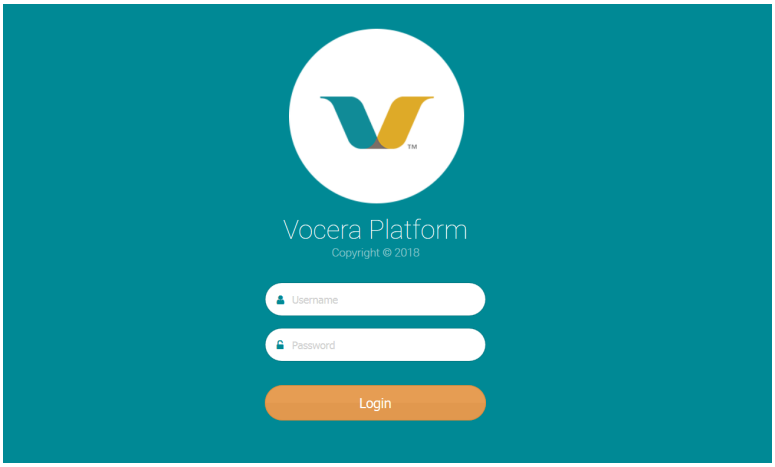
5. This completes the steps to install an adapter.

Navigating the Vocera Platform Adapters

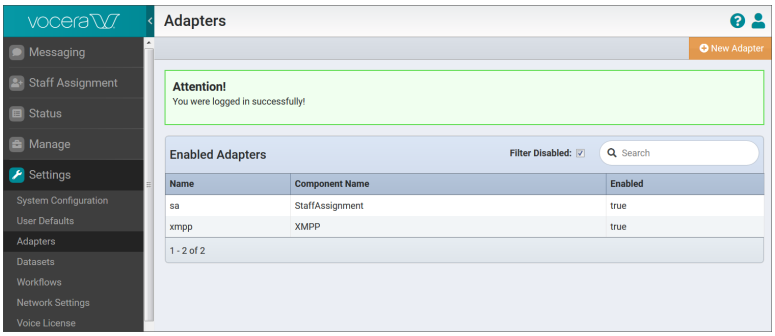
Access the Adapters tab and use the filter or search tools to display a specific adapter.

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.



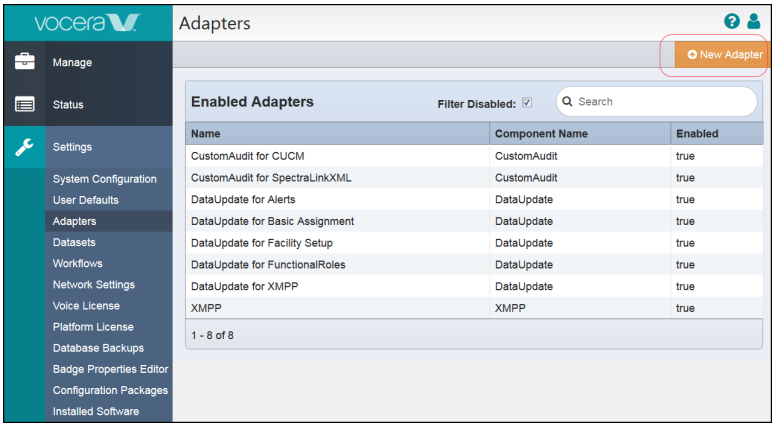
   The **Adapters** page displays.

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.

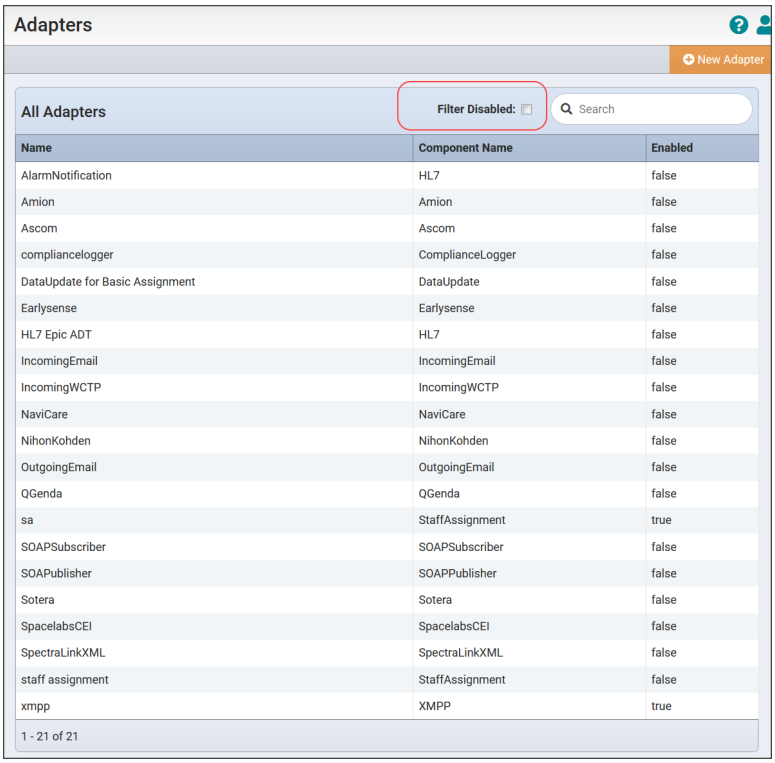
   On the **Adapters** page you can identify adapters by their name or component name. The Enabled column (displaying a true or false status) indicates whether the adapter is active on the system, or disabled.

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

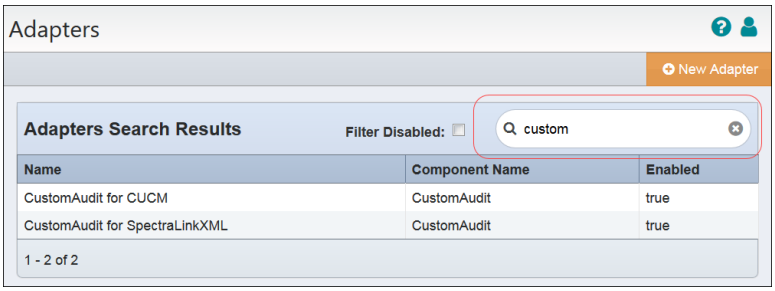
   The Filter Disabled box is checked by default, and displays only the enabled adapters that are configured on the Vocera Platform.



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.

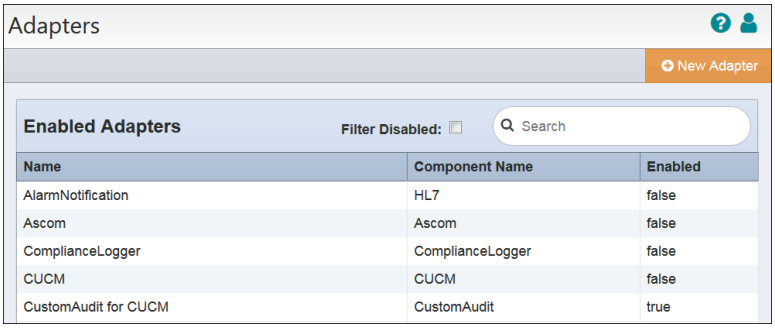


Editing an Adapter

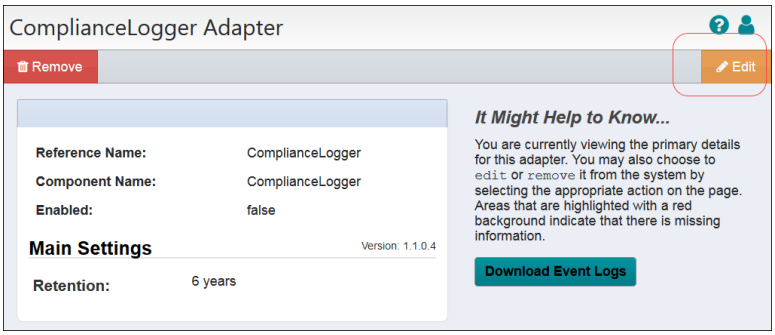
Edit an adapter that has been installed on the Vocera Platform.

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.

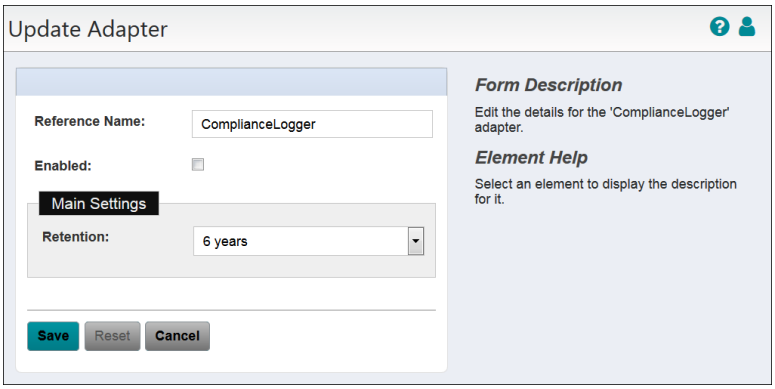
1. Access the Vocera Platform Web Console and navigate to the adapters.
   See Navigating the Vocera Platform Adapters on page 25 for instructions.
2. Select the adapter to edit in the **Adapters** list.



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.



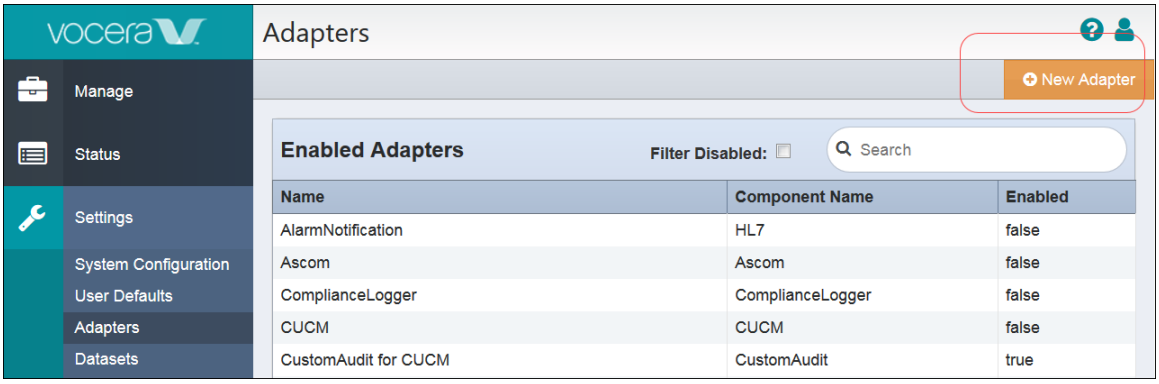
5. Select one of the options to exit the **Update Adapter** page. See Saving an Adapter on page 29 for details.

Creating a New Adapter

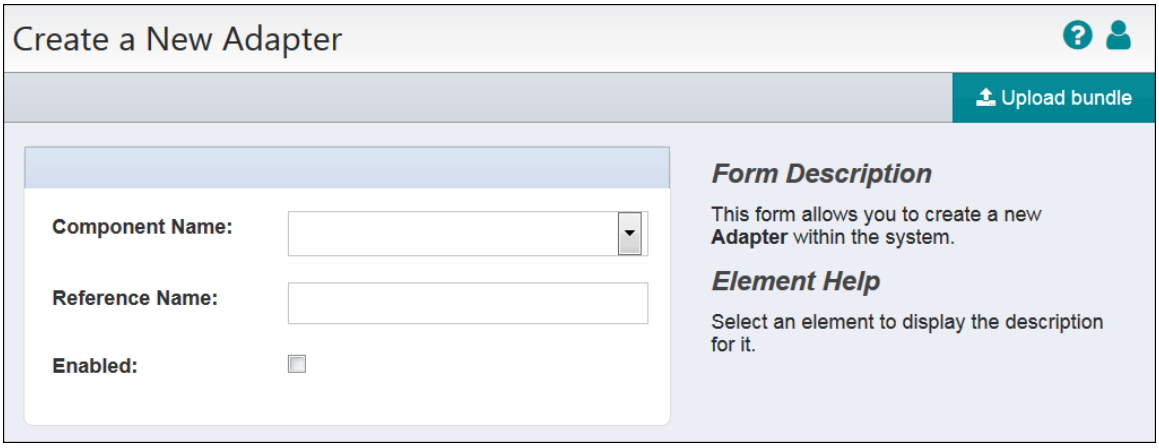
Access the Vocera Platform Web Console to work with adapters, or create a new adapter when prompted in the package import process.

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

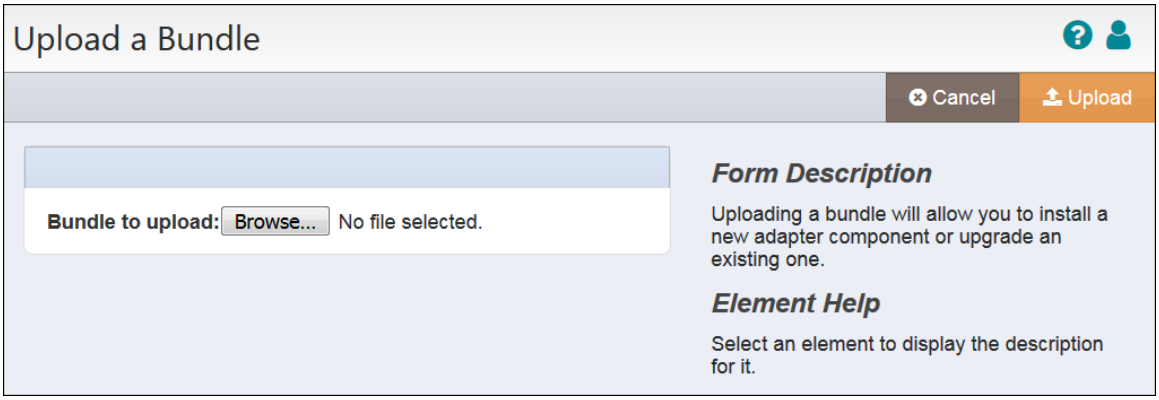


   The **Create a New Adapter** dialog displays.
3. Complete the configuration fields.



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

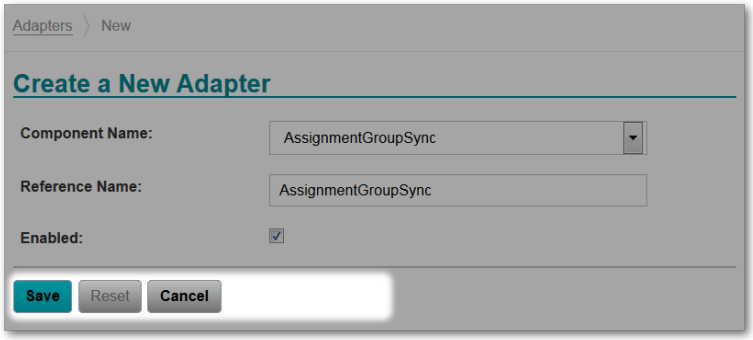
Close an adapter configuration dialog using the Save, Reset, or Cancel options.

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:



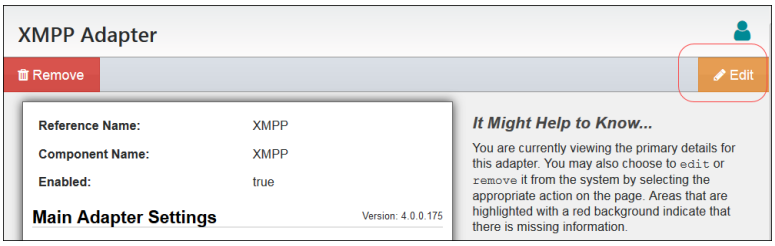
Option	Description
Save	Select Save to store the adapter configuration in the system, when the fields are set to desired specifications.
Cancel	Select Cancel to close the configuration window without saving your changes to the system.
Reset	Select Reset to clear all fields without closing the window,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

Deactivating an Adapter

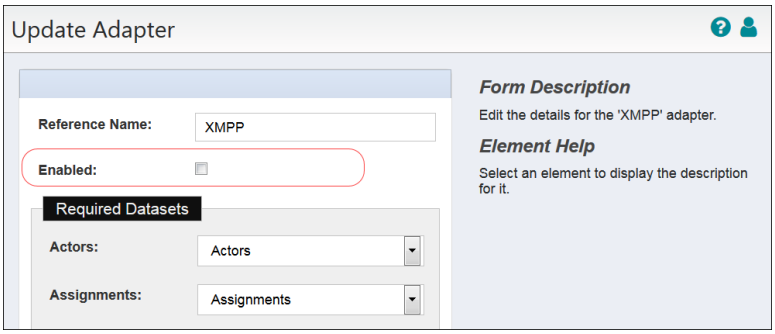
Temporarily deactivate an adapter to avoid unintentional use of it in an implementation.

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 25 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 29 for details.

Removing an Adapter

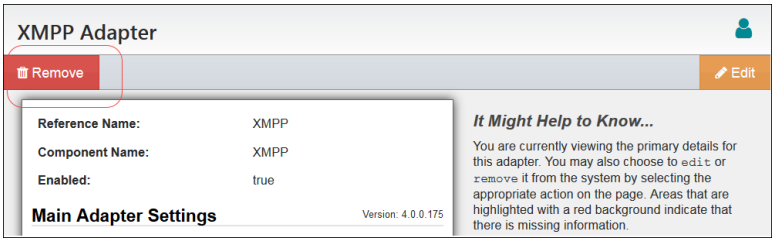
Permanently remove an adapter from the Vocera system.

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.

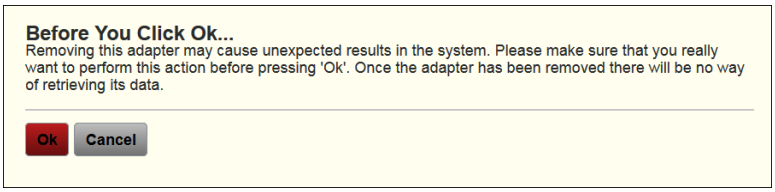
Use the remove function to permanently delete the adapter from the system. Alternatively, you can disable an adapter and the Vocera system will ignore it.

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 25 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.