

WebSphere Adapters
Version 7 Release 0 Feature Pack 1

*WebSphere Adapter for Email User
Guide
Version 7 Release 0 Feature Pack 1*

IBM

WebSphere® Adapters
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IBM

Note

Before using this information and the product it supports, read the information in "Notices" on page 21.

June 2010

This edition applies to version 7, release 0, modification 1 of IBM® WebSphere Adapter for Email and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

WebSphere Adapter for Email

documentation 1

What is new in this release 1

Support for receiving undeliverable e-mail notifications 1

 Setting deployment and runtime properties for simple e-mail data type. 2

 Setting deployment and runtime properties for generic e-mail data type 5

 Setting deployment and runtime properties for user-defined data type 9

 Managed connection factory properties 12

Enabling tracing with the Common Event

Infrastructure (CEI). 18

Notices 21

Programming interface information 23

Trademarks and service marks 23

WebSphere Adapter for Email documentation

With WebSphere® Adapter for Email, you can create integrated processes that include the exchange of information using e-mail, without special coding.

What is new in this release

This version includes several new features that enhance the business flexibility, user experience, and performance of the adapter.

Complete information about other supported features is available at the WebSphere Adapter for Email information center, http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r0mx/topic/com.ibm.wsadapters.jca.email.doc/doc/stbp_ema_welcome.html, which is periodically updated with the latest information.

WebSphere Adapter for Email supports the following new features:

- Receiving undeliverable e-mail notifications in the specified e-mail address in case of simple e-mail, generic e-mail, and user-defined data types.
- Logging SMTP, POP, and IMAP commands to the mail server in the trace file.
- Logging adapter foundation class (AFC) version, Java™ Mail API version, and third-party version artifacts in the trace file.

Note: In WebSphere Integration Developer, ensure that you have only one version of the adapter imported into your workspace. You can either have the adapter Fix Pack version 7.0.0.1 or Feature Pack version 7.0.1.0.

In the runtime environment, the application (EAR) should contain only one version of the embedded RAR file, either the adapter Fix Pack version 7.0.0.1 or Feature Pack version 7.0.1.0. The node level deployed adapter should also have only any one version of the adapter.

Support for receiving undeliverable e-mail notifications

This feature supports the use of an alternate e-mail address for receiving bounced mails.

You can specify an e-mail address to send a bounced e-mail notification in case of delivery failure due to an incorrect To address in an e-mail message. You can configure this property in the external service wizard.

When an incorrect To address is given in the e-mail, a bounced e-mail notification is sent to the address that you have specified in the managed factory connection properties. This configuration ensures a backup address to receive notifications for mail delivery failures. The alternate e-mail address can be different from the From address. This configuration is supported in case of simple e-mail, generic e-mail, and user-defined data types. Refer to these topics for setting the managed connection factory property for different e-mail data types.

Setting deployment and runtime properties for simple e-mail data type

To select and configure your module for outbound or inbound communication with the mail server, you specify the configuration properties using the external service wizard in the WebSphere Integration Developer. Then, configure the managed connection factory properties. Managed connection factory properties are stored in the business object and contain the information the adapter needs to make the connection between the outbound module and the mail server.

Before you begin

To perform this task, you must have created a module. The module name is displayed in the Project Explorer view of the WebSphere Integration Developer.

About this task

To set connection properties, follow this procedure. For more information about any of the properties in this topic, see the “Managed connection factory properties” on page 12 topic.

Procedure

1. In the Select the Processing direction window, select **Outbound** and click **Next**. The Specify the Security and Configuration Properties window is displayed.

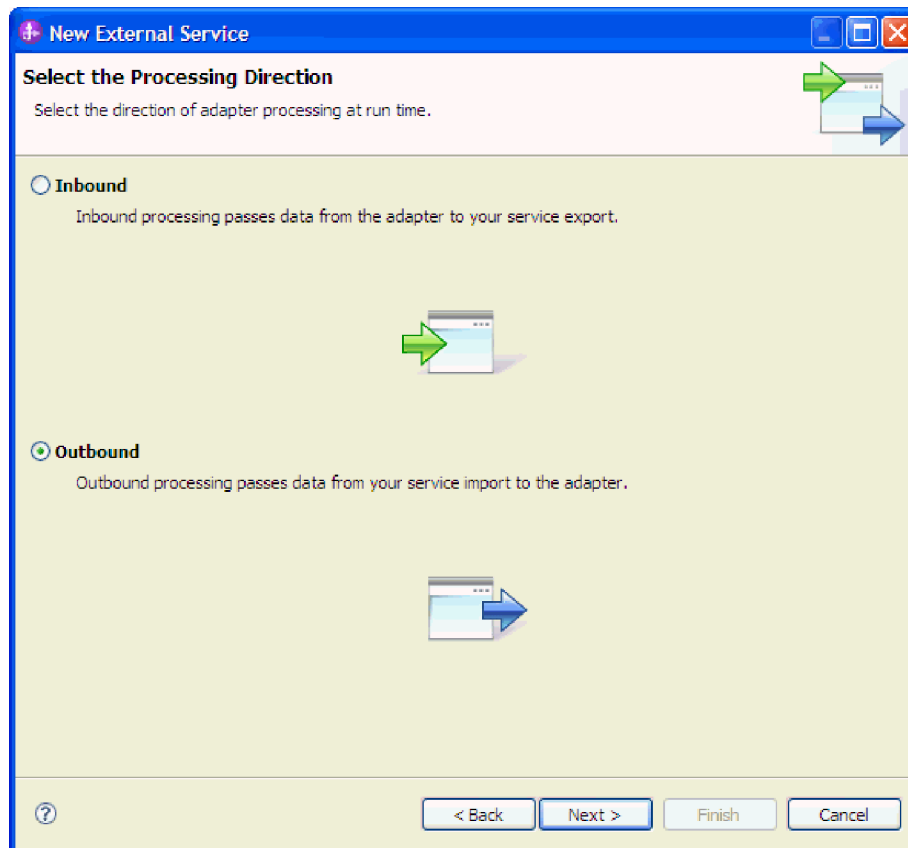


Figure 1. Choosing inbound or outbound in the external service wizard

2. In the **Deploy connector project** field, specify whether to include the adapter files in the module. Select one of the following values:

- **With module for use by single application:** With the adapter files embedded in the module, you can deploy the module to any application server. Use an embedded adapter when you have a single module using the adapter or if multiple modules need to run different versions of the adapter. Using an embedded adapter enables you to upgrade the adapter in a single module without the risk of destabilizing other modules by changing their adapter version.
 - **On server for use by multiple applications:** If you do not include the adapter files in a module, you must install them as a stand-alone adapter on each application server where you want to run the module. Use a stand-alone adapter when multiple modules can use the same version of the adapter and you want to administer the adapter in a central location. A stand-alone adapter can also reduce the resources required by running a single adapter instance for multiple modules.
3. Under the **E-mail system connection information**, type the **Host name**. The properties in this window correspond to the managed connection factory properties. For detailed information about these properties, see “Managed connection factory properties” on page 12.

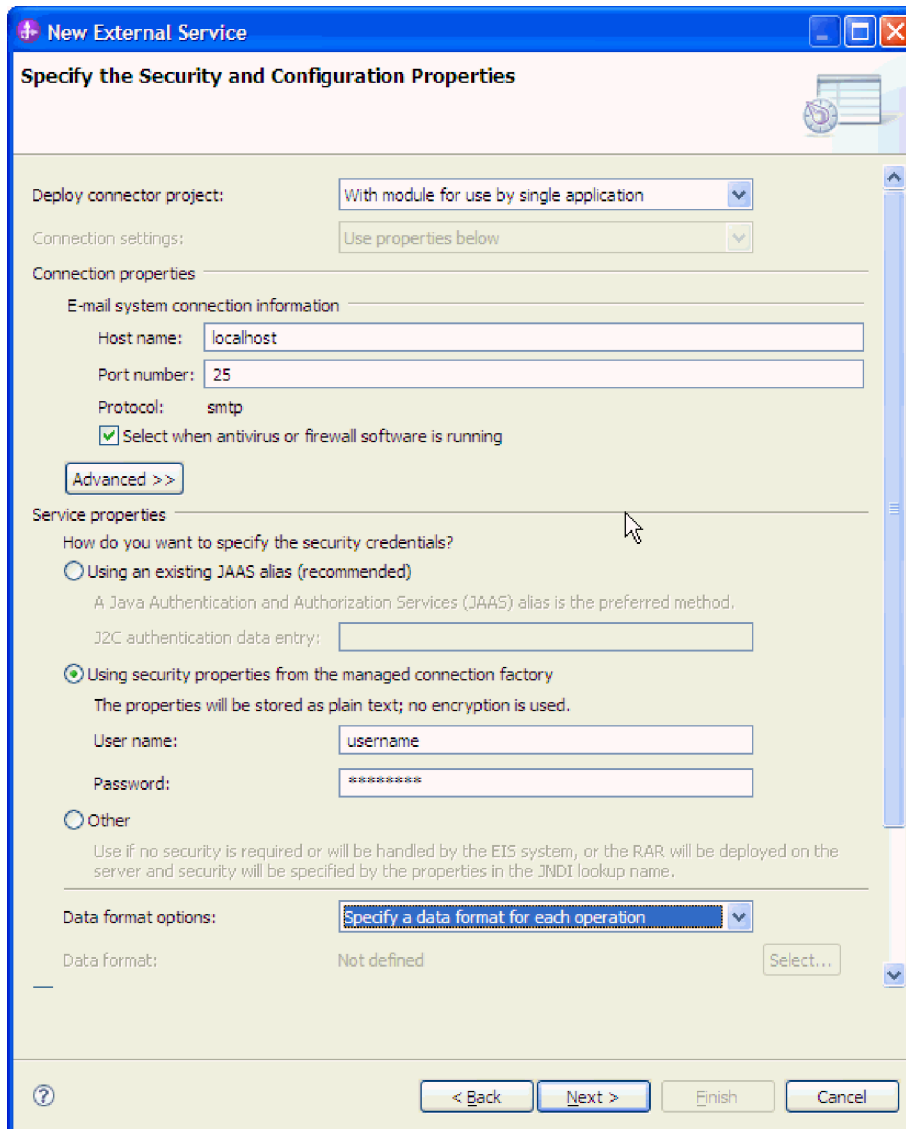


Figure 2. Security and configuration properties window

4. Type the **Port** number. The default value for the SMTP protocol is 25. If your SMTP mail server is listening on a different port number, change this value.
5. Clear the **Select when antivirus or firewall software is running** check box if you do not want the adapter to close the managed connection after each outbound request. If an antivirus program or firewall is running on your system (the machine on which the adapter is deployed or the one that hosts the e-mail server) and this check box is cleared, the adapter might fail to send outbound e-mails. Leaving this check box selected is recommended.
6. Optional: Click **Advanced** and expand the **Additional properties, Logging and tracing**, or **Bidi properties** sections as needed.
 - a. Optional: In **Additional properties**, select the **Enable transport security (SSL)** check box to enable Secure Sockets Layer (SSL).
 - b. In the **Alternate e-mail ID in case of delivery failure** field, specify an alternate e-mail address to receive undeliverable mail notifications. This e-mail address can be a different e-mail address than the one you specified

in the From e-mail address. For more details about this property, see “Managed connection factory properties” on page 12.

- c. Optional: In **Bidi properties**, select the **Bidi transformation** check box to specify bidirectional format.
 - d. Optional: If you have multiple instances of the adapter, expand **Logging and tracing** and set Adapter ID to a value that is unique for this instance. For more information about this property, see “Managed connection factory properties” on page 12.
 - e. If you want to mask certain information so that the information is not displayed in the logs or traces, select **Disguise user data as "XXX" in log and trace files**.
7. In **Service properties**, specify how you want the adapter to connect to the mail server by selecting any one of these authentication methods.
- To use a J2C authentication alias, click **Using an existing JAAS alias (recommended)** and type the name of the alias in the **J2C Authentication data entry** field. You can either specify an existing authentication alias or create one at any time before deploying the module. The name is case sensitive and includes the node name.
 - To use the security properties from the managed connection specification, click **Using security properties from the managed connection factory** and enter the following information:
 - In the **User name** field, type the user name for the mail server.
 - In the **Password** field, type the password for the mail server.
- Note:** The security properties are not encrypted and stored as plain text. If you are using an authentication alias, a user name and password are not necessary. During outbound communication, you do not need to enter a user name and password because mail servers use an anonymous user name and password to send the e-mails.
- To administer the user name and password from another mechanism, click **Other**.
8. Optional: Select the **Change logging properties for wizard** check box, if you want to define the level of logging for this module.
9. For **Data format**, select **Specify a data binding for each operation**. Although the default value is **Use a data binding configuration for all operations**, select **Specify a data binding for each operation**, because the adapter has a different data binding for each supported business object. These data bindings have different properties, and need to be configured differently.

Important: Do not click **Next** in this window until you have completed the steps to create a data binding or browse for an existing one.

What to do next

Select the data type and operation name.

Setting deployment and runtime properties for generic e-mail data type

To select and configure your module for outbound or inbound communication with the mail server, you specify the configuration properties using the external service wizard in the WebSphere Integration Developer. Then, configure the managed connection factory properties. Managed connection factory properties are

stored in the business object and contain the information the adapter needs to make the connection between the outbound module and the mail server.

Before you begin

To perform this task, you must have created a module. The module name is displayed in the Project Explorer view of the WebSphere Integration Developer.

About this task

To set connection properties, follow this procedure. For more information about any of the properties in this topic, see the “Managed connection factory properties” on page 12 topic.

Procedure

1. In the Select the Processing direction window, select **Outbound** and click **Next**. The Specify the Security and Configuration Properties window is displayed.

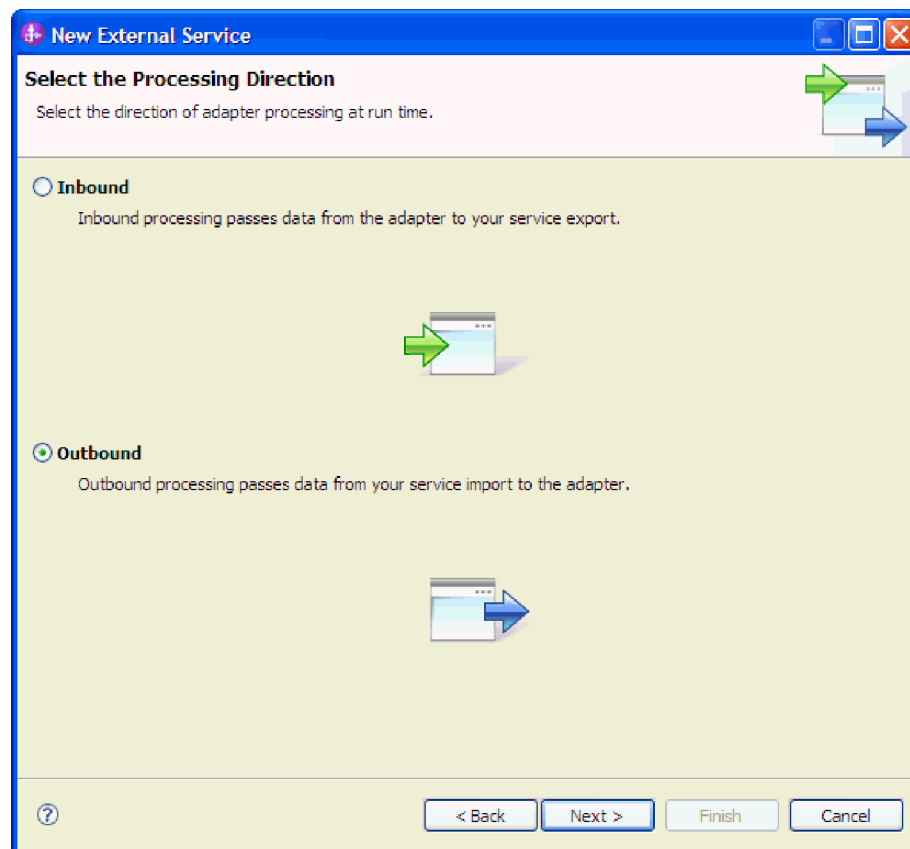


Figure 3. Choosing inbound or outbound in the external service wizard

2. In the **Deploy connector project** field, specify whether to include the adapter files in the module. Select one of the following values:
 - **With module for use by single application:** With the adapter files embedded in the module, you can deploy the module to any application server. Use an embedded adapter when you have a single module using the adapter or if multiple modules need to run different versions of the adapter. Using an embedded adapter enables you to upgrade the adapter in a single module without the risk of destabilizing other modules by changing their adapter version.

- **On server for use by multiple applications:** If you do not include the adapter files in a module, you must install them as a stand-alone adapter on each application server where you want to run the module. Use a stand-alone adapter when multiple modules can use the same version of the adapter and you want to administer the adapter in a central location. A stand-alone adapter can also reduce the resources required by running a single adapter instance for multiple modules.
3. Under the **E-mail system connection information**, type the **Host name**. The properties in this window correspond to the managed connection factory properties. For detailed information about these properties, see “Managed connection factory properties” on page 12.

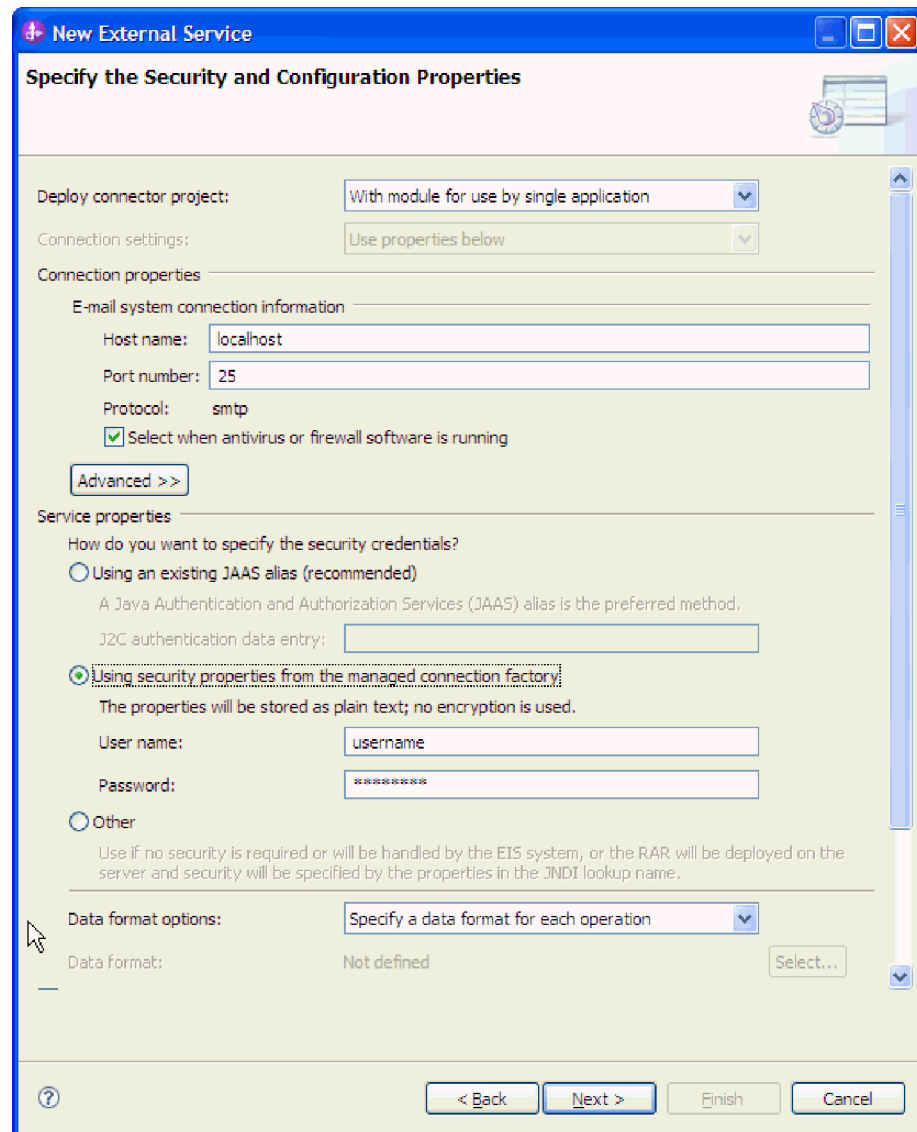


Figure 4. Security and configuration properties window

4. Type the **Port** number. The default value for the SMTP protocol is 25. If your SMTP mail server is listening on a different port number, change this value.
5. Clear the **Select when antivirus or firewall software is running** check box if you do not want the adapter to close the managed connection after each outbound request. If an antivirus program or firewall is running on your

system (the machine on which the adapter is deployed or the one that hosts the e-mail server) and this check box is cleared, the adapter might fail to send outbound e-mails. Leaving this check box selected is recommended.

6. Optional: Click **Advanced** and expand the **Additional properties, Logging and tracing**, or **Bidi properties** sections as needed.
 - a. Optional: In **Additional properties**, select the **Enable transport security (SSL)** check box to enable Secure Sockets Layer (SSL).
 - b. In the **Alternate e-mail ID in case of delivery failure** field, specify an alternate e-mail address to receive undeliverable mail notifications. This e-mail address can be a different e-mail address than the one you specified in the From e-mail address. For more details about this property, see “Managed connection factory properties” on page 12.
 - c. Optional: In **Bidi properties**, select the **Bidi transformation** check box to specify bidirectional format.
 - d. Optional: If you have multiple instances of the adapter, expand **Logging and tracing** and set Adapter ID to a value that is unique for this instance. For more information about this property, see “Managed connection factory properties” on page 12.
7. In **Service properties**, specify how you want the adapter to connect to the mail server by selecting any one of these authentication methods.
 - To use a J2C authentication alias, click **Using an existing JAAS alias (recommended)** and type the name of the alias in the **J2C Authentication data entry** field. You can either specify an existing authentication alias or create one at any time before deploying the module. The name is case sensitive and includes the node name.
 - To use the security properties from the managed connection specification, click **Using security properties from the managed connection factory** enter the following information:
 - In the **User name** field, type the user name for the mail server.
 - In the **Password** field, type the password for the mail server.

Note: The security properties are not encrypted and stored as plain text. If you are using an authentication alias, a user name and password are not necessary. During outbound communication, you do not need to enter a user name and password because mail servers use an anonymous user name and password to send the e-mails.

 - To administer the user name and password from another mechanism, click **Other**.
8. Optional: Select the **Change logging properties for wizard** check box, if you want to define the level of logging for this module.
9. For **Data format**, select **Specify a data binding for each operation**. Although the default value is **Use a data binding configuration for all operations**, select **Specify a data binding for each operation**, because the adapter has a different data binding for each supported business object. These data bindings have different properties, and need to be configured differently.

Important: Do not click **Next** in this window until you have completed the steps to create a data binding or browse for an existing one.

What to do next

Select the data type and operation name.

Setting deployment and runtime properties for user-defined data type

To select and configure your module for outbound or inbound communication with the mail server, you specify the configuration properties using the external service wizard in the WebSphere Integration Developer. Then, configure the managed connection factory properties. Managed connection factory properties are stored in the business object and contain the information the adapter needs to make the connection between the outbound module and the mail server.

Before you begin

To perform this task, you must have created a module. The module name is displayed in the Project Explorer view of the WebSphere Integration Developer.

About this task

To set connection properties, follow this procedure. For more information about any of the properties in this topic, see the “Managed connection factory properties” on page 12 topic.

Procedure

1. In the Select the Processing direction window, select **Outbound** and click **Next**. The Specify the Security and Configuration Properties window is displayed.

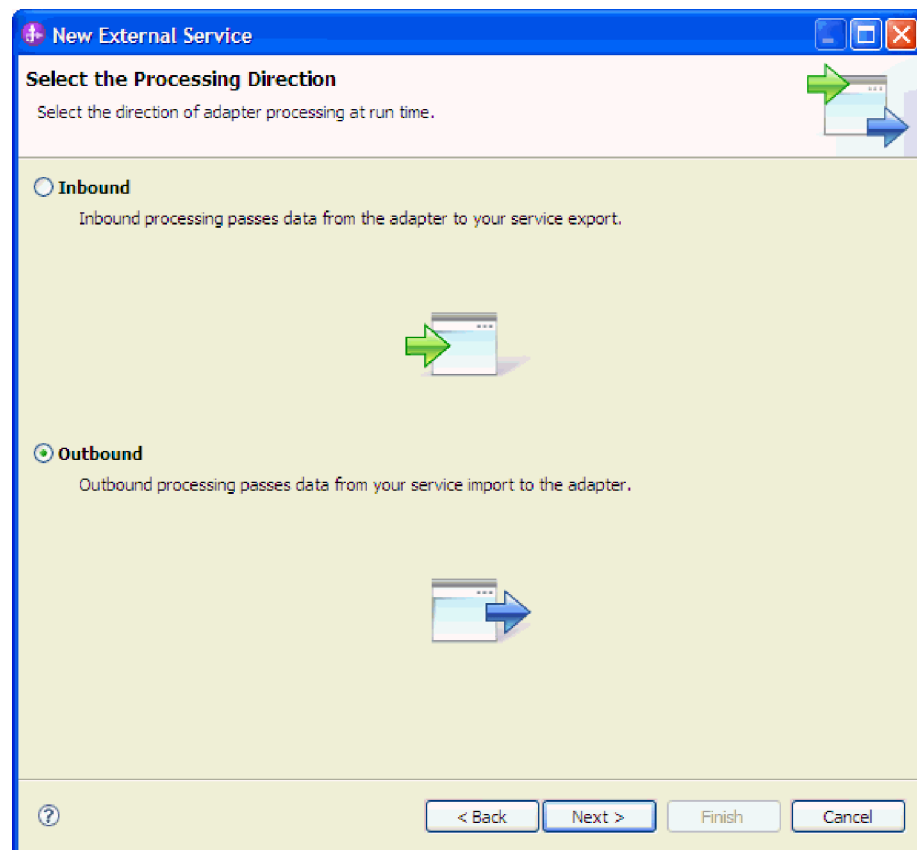


Figure 5. Selecting inbound or outbound in the external service wizard

2. In the **Deploy connector project** field, specify whether to include the adapter files in the module. Select one of the following values:

- **With module for use by single application:** With the adapter files embedded in the module, you can deploy the module to any application server. Use an embedded adapter when you have a single module using the adapter or if multiple modules need to run different versions of the adapter. Using an embedded adapter enables you to upgrade the adapter in a single module without the risk of destabilizing other modules by changing their adapter version.
 - **On server for use by multiple applications:** If you do not include the adapter files in a module, you must install them as a stand-alone adapter on each application server where you want to run the module. Use a stand-alone adapter when multiple modules can use the same version of the adapter and you want to administer the adapter in a central location. A stand-alone adapter can also reduce the resources required by running a single adapter instance for multiple modules.
3. Under the **E-mail system connection information**, type the **Host name**. The properties on this window correspond to the managed connection factory properties. For detailed information about these properties, see “Managed connection factory properties” on page 12.

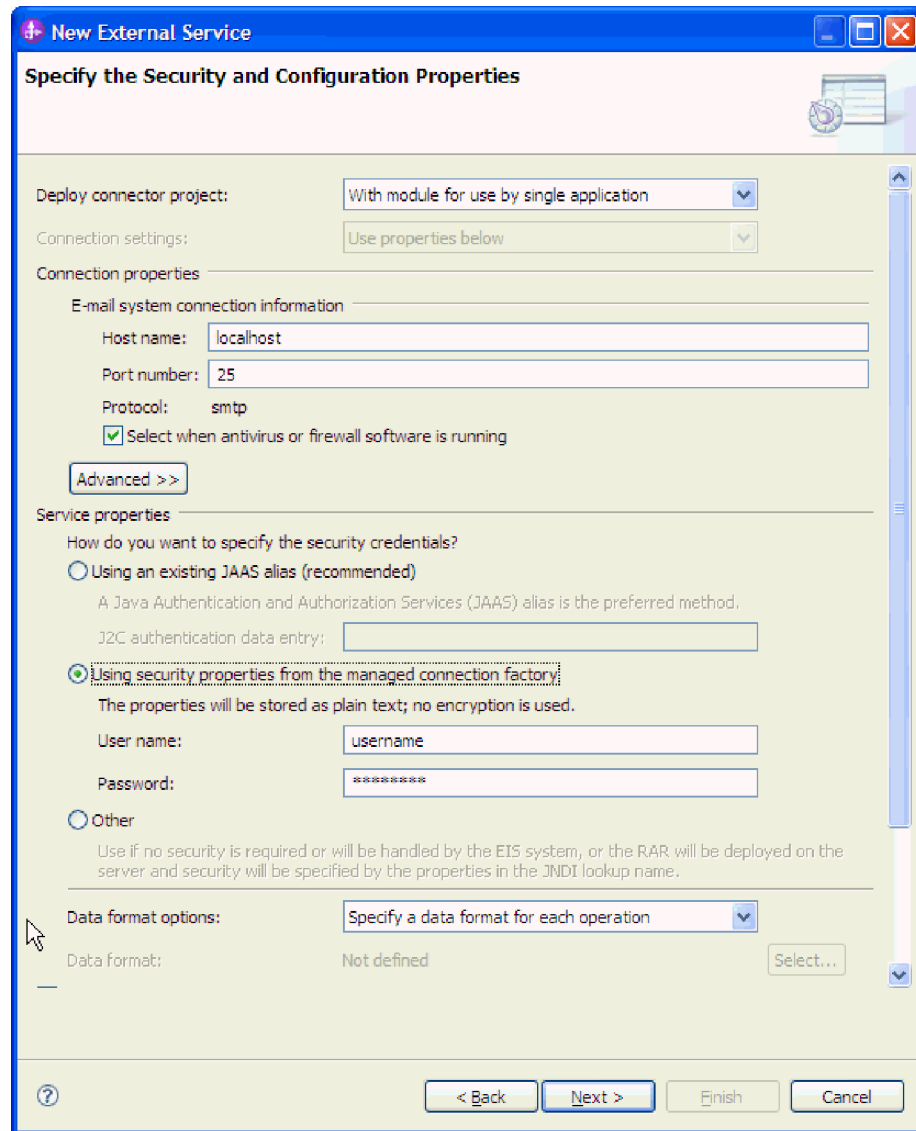


Figure 6. Security and configuration properties window

4. Type the **Port** number. The default value for the SMTP protocol is 25. If your SMTP mail server is listening on a different port number, change this value.
5. Clear the **Select when antivirus or firewall software is running** check box if you do not want the adapter to close the managed connection after each outbound request. If an antivirus program or firewall is running on your system (the machine on which the adapter is deployed or the one that hosts the e-mail server) and this check box is cleared, the adapter might fail to send outbound e-mails. Leaving this check box selected is recommended.
6. Optional: Click **Advanced** and expand the **Additional properties, Logging and tracing**, or **Bidi properties** sections as needed.
 - a. Optional: In **Additional properties**, select the **Enable transport security (SSL)** check box to enable Secure Sockets Layer (SSL).
 - b. In the **Alternate e-mail ID in case of delivery failure** field, specify an alternate e-mail address to receive undeliverable mail notifications. This e-mail address can be a different e-mail address than the one you specified

- in the From e-mail address. For more details about this property, see “Managed connection factory properties.”
- c. Optional: In **Bidi properties**, select the **Bidi transformation** check box to specify bidirectional format.
 - d. Optional: If you have multiple instances of the adapter, expand **Logging and tracing** and set Adapter ID to a value that is unique for this instance. For more information about this property, see “Managed connection factory properties.”
7. In **Service properties**, specify how you want the adapter to connect to the mail server by selecting any one of these authentication methods.
- To use a J2C authentication alias, click **Using an existing JAAS alias (recommended)** and type the name of the alias in the **J2C Authentication data entry** field. You can either specify an existing authentication alias or create one at any time before deploying the module. The name is case sensitive and includes the node name.
 - To use the security properties from the managed connection specification, click **Using security properties from the managed connection factory** enter the following information:
 - In the **User name** field, type the user name for the mail server.
 - In the **Password** field, type the password for the mail server.
- Note:** The security properties are not encrypted and stored as plain text. If you are using an authentication alias, a user name and password are not necessary. Also, for outbound communication you do not need to enter a user name and password because mail servers use an anonymous user name and password to send the e-mails.
- To administer the user name and password from another mechanism, click **Other**.
8. Optional: Select the **Change logging properties for wizard** check box, if you want to define the level of logging for this module.
9. For **Data format**, select **Specify a data binding for each operation**. Although the default value is **Use a data binding configuration for all operations**, select **Specify a data binding for each operation**, because the adapter has a different data binding for each supported business object. These data bindings have different properties, and need to be configured differently.

Important: Do not click **Next** in this window until you have completed the steps to create a data binding or browse for an existing one.

What to do next

Select the data type and operation name.

Managed connection factory properties

Managed connection factory properties are used by the adapter at run time to create an outbound connection instance with the mail server.

The following table lists and describes the managed connection factory properties for outbound communication. You set managed connection factory properties using the external service wizard and can change them using the WebSphere Integration Developer Assembly Editor before deployment. After deployment, you can change these values using the WebSphere Process Server or WebSphere Enterprise Service Bus administrative console.

A more detailed description of each property is provided in the sections that follow the table. For information about how to read the property details tables in the sections that follow, see http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r0mx/topic/com.ibm.wsadapters.jca.email.doc/shared/rsha_interpret_prop_details.html.

Note: The external service wizard refers to these properties as managed connection factory properties, and the WebSphere Process Server or WebSphere Enterprise Service Bus administrative console refers to them as (J2C) connection factory properties.

Table 1. Managed connection factory properties

In the wizard	In the administrative console	Description
Adapter ID	AdapterID	Identifies the adapter instance for PMI events and for logging and tracing.
"Alternate e-mail ID in case of delivery failure" on page 16	alternateEmailIdInCaseOfDeliveryFailures	Specifies the alternate e-mail address for receiving bounced mails.
Bidi format string	BIDIContextEIS	The bidi format for string type business data exchanged between the mail server and the adapter.
Disguise user data as "XXX" in log and trace files	HideConfidentialTrace	Specifies whether to disguise potentially sensitive information by writing X strings instead of user data in the log and trace files.
Host name	HostName	The IP address of the host where the mail server is running.
Password	Password	The password for the user name associated with the mail server.
Port	Port	The SMTP port where the mail server is listening.
Protocol	Protocol	The protocol used for outbound communication with the mail server.
Secure connection	enableSSL	Specifies whether secure socket layers are enabled for outbound communication.
Select when antivirus or firewall software is running	closeConnection	Specifies whether the adapter closes the managed connection with the mail server after each request. This property is recommended when antivirus or firewall security software is running on the system where the adapter is deployed or the one that hosts the e-mail server.
User name	UserName	The user name for the mail server used to send outbound e-mails.

Adapter ID (AdapterID)

This property identifies a specific deployment or instance of the adapter.

Table 2. Adapter ID details

Required	Yes
Default	001
Property type	String
Usage	<p>This property identifies the adapter instance in the log and trace files, and also helps identify the adapter instance while monitoring adapters. The adapter ID is used with an adapter-specific identifier, EMARA, to form the component name used by the Log and Trace Analyzer tool. For example, if the adapter ID property is set to 001, the component ID is EMARA001.</p> <p>If you run multiple instances of the same adapter, ensure that the first eight characters of the adapter ID property are unique for each instance so that you can correlate the log and trace information to a particular adapter instance. By making the first seven characters of an adapter ID property unique, the component ID for multiple instances of that adapter is also unique, allowing you to correlate the log and trace information to a particular instance of an adapter.</p> <p>For example, when you set the adapter ID property of two instances of WebSphere Adapter for Email to 001 and 002. The component IDs for those instances, EMARA001 and EMARA002, are short enough to remain unique, enabling you to distinguish them as separate adapter instances. However, instances with longer adapter ID properties cannot be distinguished from each other. If you set the adapter ID properties of two instances to Instance01 and Instance02, you will not be able to examine the log and trace information for each adapter instance because the component ID for both instances is truncated to EMARAIstanc.</p> <p>For inbound processing, the value of this property is set at the resource adapter level. For outbound processing, the value can be set both at the resource adapter level and the managed connection factory level. After you use the external service wizard to configure the adapter for outbound processing, you can set the resource adapter and managed connection factory properties independently. If you use the WebSphere Integration Developer assembly editor or the administrative console to reset these properties, ensure that you set them consistently, to prevent inconsistent marking of the log and trace entries.</p>
Globalized	Yes
Bidi supported	No

Bidi format string (BIDContextEIS)

This property indicates the bidi format for string type business data exchanged between the mail server and the adapter.

Table 3. Bidi format string details

Required	No
Possible values	WebSphere Process Server and WebSphere Enterprise Service Bus use ILYNN (implicit, left-to-right, on, off, nominal). These five attributes comprise the format used by Windows.
Default	No default value
Property type	String
Usage	A five-character string that identifies the bidirectional format used by the mail server. If the mail server that sends or receives data from the server uses a different format than ILYNN, the adapter converts the format prior to introducing the data to the server. For the conversion to occur, you use the external service wizard to set attribute values that represent the bidirectional format used by the mail server. This is done when you configure the module for the first time.
Example	ILYNN VRYNN VLYNN
Globalized	No
Bidi supported	No

Disguise user data as "XXX" in log and trace files (HideConfidentialTrace)

This property specifies whether to replace user data in log and trace files with a string of X's to prevent unauthorized disclosure of potentially sensitive data.

Table 4. Disguise user data as "XXX" in log and trace files details

Required	No
Possible values	True False
Default	False
Property type	Boolean
Usage	If you set this property to True, the adapter replaces user data with a string of X's when writing to log and trace files. For inbound processing, the value of this property is set at the resource adapter level. For outbound processing, the value can be set both at the resource adapter level and the managed connection factory level. After you use the external service wizard to configure the adapter for outbound processing, you can set the resource adapter and managed connection factory properties independently. If you use the WebSphere Integration Developer assembly editor or the administrative console to reset these properties, ensure that you set them consistently, to prevent inconsistent marking of the log and trace entries.
Globalized	No
Bidi supported	No

Alternate e-mail ID in case of delivery failure

This property is used to specify an alternate e-mail address to send a bounced e-mail notification, in case of delivery failure due to an incorrect To address in an e-mail message.

Table 5. Alternate e-mail ID property details

Required	No
Default	No default value
Attribute type	String
Usage	When an incorrect To address is specified in the e-mail, a bounced e-mail notification is sent to the alternate e-mail address specified in the managed factory connection properties. This configuration ensures a backup address to receive notifications for mail delivery failures. Note: The alternate e-mail address can be different from the From address.
Globalized	No
Bidi supported	No

Host name (HostName)

This property specifies the IP address of the host where the mail server is running.

Table 6. Host name details

Required	No
Default	localhost
Property type	String
Usage	Specifies the IP address of the host where the mail server is running
Globalized	No
Bidi supported	No

Password (Password)

This property specifies the password for the user name associated with the mail server.

Table 7. Password details

Required	No
Default	No default value
Property type	String
Usage	Authenticates the outbound SMTP session with the mail server. WebSphere Process Server or WebSphere Enterprise Service Bus administrative console does not encrypt the Password property the first time.
Globalized	No
Bidi supported	Yes

Port (Port)

This property specifies the SMTP port where the mail server is listening.

Table 8. Port details

Required	No
Default	25
Property type	Integer
Usage	If the Secure connection (SSL) property is set to True, this property needs to be updated.
Globalized	No
Bidi supported	No

Protocol (Protocol)

This property specifies the protocol to be used for outbound communication with the mail server.

Table 9. Protocol details

Required	No
Default	SMTP
Property type	String
Usage	SMTP is the only supported value for this property.
Globalized	Yes
Bidi supported	No

Secure connection (SSL) (enableSSL)

This property specifies whether secure socket layers are enabled for outbound communication.

Table 10. Enable secure socket layers details

Required	No
Default	False
Property type	Boolean
Usage	If set to True, the port property must be set to 465.
Globalized	No
Bidi supported	No

Select when antivirus or firewall software is running (SecureConnection)

Selecting this option closes the managed connection with the mail server after each outbound request. It is recommended to use this property when antivirus or firewall security software is running on the system where the adapter is deployed or the system that hosts the e-mail server.

Table 11. Select when antivirus or firewall software is running details

Required	No
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Table 11. Select when antivirus or firewall software is running details (continued)

Default	True
Property type	Boolean
Possible values	True False
Usage	This property has been provided because some antivirus programs consider the managed connection between the adapter and the mail server malicious. This results in the mail sent by the adapter to the mail server being blocked by an antivirus program or firewall. If set to True, the adapter closes the managed connection after each outbound request, ensuring that antivirus and firewall software do not block e-mails from the adapter. If set to False, the adapter does not close the managed connection after each outbound request. This setting might cause antivirus and firewall software to block e-mails from the adapter.
Globalized	No
Bidi supported	No

User name (UserName)

This property specifies the user name for the mail server to be used with the outbound SMTP session.

Table 12. User name details

Required	No
Default	No default value
Property type	String
Usage	The mail server must be running on the host noted in this property.
Globalized	Yes
Bidi supported	Yes

Enabling tracing with the Common Event Infrastructure (CEI)

The adapter can use the Common Event Infrastructure, a component embedded in the server, to report data about critical business events such as the starting or stopping of a poll cycle. Event data can be written to a database or a trace log file depending on configuration settings.

About this task

Use this procedure to report CEI entries in the trace log file by using the Common Base Event Browser within the administrative console.

Procedure

1. In the administrative console, click **Troubleshooting**.
2. Click **Logs and Trace**.
3. From the list of servers, click the name of your server.
4. In the **Change Log Detail Levels** box, click the name of the CEI database (for example, `WBIEventMonitor.CEI.ResourceAdapter.*`) or the trace log file (for example, `WBIEventMonitor.LOG.ResourceAdapter.*`) to which you want the adapter to write event data.

5. Select the level of detail about business events that you want the adapter to write to the database or trace log file, and (optionally) adjust the granularity of detail associated with messages and traces.
 - **No Logging.** Turns off event logging.
 - **Messages Only.** The adapter reports an event.
 - **All Messages and Traces.** The adapter reports details about an event.
 - **Message and Trace Levels.** Settings for controlling the degree of detail the adapter reports about the business object payload associated with an event. If you want to adjust the detail level, select one of the following options:
 - Fine.** The adapter reports the event but none of the business object payload.
 - Finer.** The adapter reports the event and the business object payload description.
 - Finest.** The adapter reports the event and the entire business object payload.

Note: The WebSphere Adapter for Email also provides the following logging information.

 - Logs all the SMTP, POP, and IMAP commands issued to the mail server and their responses in the trace log file.
 - Logs the adapter foundation class (AFC) version, Java™ Mail API version, and third-party version artifacts in the trace file.

6. Click **OK**.

Results

Event logging is enabled. You can view CEI entries in the trace log file or by using the Common Base Event Browser within the administrative console.

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