



## CHAPTER 4

# Troubleshooting Fax in Cisco Unity Connection 8.x

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See the following sections:

- [Problems with Fax Delivery to Users in Cisco Unity Connection 8.x, page 4-23](#)
- [Problems with Fax Delivery to a Fax Machine in Cisco Unity Connection 8.x, page 4-25](#)
- [Problems with Fax Notifications in Cisco Unity Connection 8.x, page 4-27](#)
- [Problems with Fax Receipts in Cisco Unity Connection 8.x, page 4-27](#)
- [Problems with Printing Faxes in Cisco Unity Connection 8.x, page 4-29](#)

## Problems with Fax Delivery to Users in Cisco Unity Connection 8.x

When faxes are not delivered to users, use the following task list to determine the cause and to resolve the problem. Do the tasks in the order presented until the problem is resolved.

### Task List for Troubleshooting Fax Delivery to Users

1. Determine whether the fax is being sent by enabling the MTA micro trace (all levels). For detailed instructions on enabling the micro trace and viewing the trace logs, see the [“Using Cisco Unity Connection Serviceability Traces to Troubleshoot Problems”](#) section on page 2-11.
2. If the trace logs show that the fax was sent, investigate how the SMTP server handles faxes by enabling the SMTP micro trace (all levels). For detailed instructions on enabling the micro trace and viewing the trace logs, see the [“Using Cisco Unity Connection Serviceability Traces to Troubleshoot Problems”](#) section on page 2-11.
3. Confirm that the SMTP server configuration lists the IP address of the Cisco Fax Server and allows a connection. See the [“Confirming That the SMTP Server Configuration Is Correct”](#) section on page 4-24.
4. Check for the fax in the POP3 mailbox by connecting an email client to the POP3 mailbox.  
Note that the email client must be configured to leave messages in the POP3 mailbox.
5. In the RightFax Email Gateway, confirm that the POP3 mailbox name and password are correct. See the [“Confirming That the POP3 Mailbox Name and Password Are Correct”](#) section on page 4-24.
6. On the network, confirm that the account for the POP3 mailbox is set to never expire the password. An expired password prevents faxes from being routed.

7. Confirm that faxes are delivered to Cisco Unity Connection. See the [“Confirming That a Fax Is Delivered to Cisco Unity Connection”](#) section on page 4-24.

## Confirming That the SMTP Server Configuration Is Correct

### To Confirm That the SMTP Server Configuration Is Correct

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- Step 1** In Cisco Unity Connection Administration, expand **System Settings**, then select **SMTP Configuration > Server**.
  - Step 2** On the SMTP Server Configuration page, on the Edit menu, select **Search IP Address Access List**.
  - Step 3** On the Search IP Address Access List page, confirm that the IP address of the Cisco Fax Server appears in the list. If not, select **Add New** to add the IP address.
  - Step 4** Check the **Allow Connection** check box for the IP address of the Cisco Fax Server, if it is not already checked.
  - Step 5** Select **Save**.
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## Confirming That the POP3 Mailbox Name and Password Are Correct

### To Confirm That the POP3 Mailbox Name and Password Are Correct

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- Step 1** On the Windows Start menu, select **Control Panel > RightFax Email Gateway**.
  - Step 2** In the Email Configuration window, select the **General** tab.
  - Step 3** In the POP3 Mailbox Name field, confirm that the entry matches the SMTP address for the Cisco Fax Server on the System Settings > Fax Server > Edit Fax Server Configuration page in Cisco Unity Connection Administration.
  - Step 4** In the Mailbox Password field, confirm that the password is correct.
  - Step 5** In the Email Deliver Direction field, confirm that **Both** is selected.
  - Step 6** Select **OK**.
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## Confirming That a Fax Is Delivered to Cisco Unity Connection

### To Confirm That a Fax Is Delivered to Cisco Unity Connection

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- Step 1** On the Windows Start menu, select **All Programs > RightFax FaxUtil**.
  - Step 2** In the RightFax FaxUtil window, in the left pane, select the user who will send the test fax.
  - Step 3** On the Fax menu, select **New**.
  - Step 4** In the Fax Information dialog box, select the **Main** tab.
  - Step 5** Under the Name field, select the drop-down arrow and select **Email Address**.

- Step 6** In the Email Address field, enter the email address of the user who has the fax delivery problem.
- Step 7** Select **Save**.
- Step 8** In the right pane, note the status of the test fax as it is being sent.



**Note** To refresh the status display of the fax progress, press **F5**.

## Problems with Fax Delivery to a Fax Machine in Cisco Unity Connection 8.x

When faxes are not delivered to a fax machine, use the following task list to determine the cause and to resolve the problem. Do the tasks in the order presented until the problem is resolved.

### Task List for Troubleshooting Fax Delivery to a Fax Machine

1. Determine the status of the fax that was sent to a fax machine. See the [“Determining the Status of the Fax That Was Sent to a Fax Machine”](#) section on page 4-25.
2. Confirm that the fax is in the POP3 mailbox by connecting an email client to the POP3 mailbox.  
Note that the email client must be configured to leave messages in the POP3 mailbox.
3. In the RightFax Email Gateway, confirm that the POP3 mailbox name and password are correct. See the [“Confirming That the POP3 Mailbox Name and Password Are Correct”](#) section on page 4-26.
4. On the network, confirm that the account for the POP3 mailbox is set to never expire the password. An expired password prevents faxes from being routed.
5. Confirm that the SMTP server configuration lists the IP address of the Cisco Fax Server and allows a connection. See the [“Confirming That the SMTP Server Configuration Is Correct”](#) section on page 4-26.
6. Troubleshoot how the SMTP server handles faxes by enabling the SMTP micro trace (all levels). For detailed instructions on enabling the micro trace and viewing the trace logs, see the [“Using Cisco Unity Connection Serviceability Traces to Troubleshoot Problems”](#) section on page 2-11.
7. If the trace logs show that the SMTP message was not sent, investigate how the fax is sent by enabling the MTA micro trace (all levels). For detailed instructions on enabling the micro trace and viewing the trace logs, see the [“Using Cisco Unity Connection Serviceability Traces to Troubleshoot Problems”](#) section on page 2-11.
8. Confirm that the file extension of the file that the user attempted to fax is included in the list of faxable file types. See the [“Confirming That the Faxable File Types List Is Correct”](#) section on page 4-26.

## Determining the Status of the Fax That Was Sent to a Fax Machine

### To Confirm That a Fax Is Delivered to the Cisco Fax Server

- Step 1** On the Windows Start menu, select **All Programs > RightFax FaxUtil**.

- Step 2** In the RightFax FaxUtil window, in the left pane, select the user who sent the fax to the fax machine, then select **All**.
- Step 3** In the right pane, note the status of the fax and any problems that are reported.
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## Confirming That the POP3 Mailbox Name and Password Are Correct

### To Confirm That the POP3 Mailbox Name and Password Are Correct

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- Step 1** On the Windows Start menu, select **Control Panel > RightFax Email Gateway**.
- Step 2** In the Email Configuration window, select the **General** tab.
- Step 3** In the POP3 Mailbox Name field, confirm that the entry matches the SMTP address for the Cisco Fax Server on the System Settings > Fax Server > Edit Fax Server Configuration page in Cisco Unity Connection Administration.
- Step 4** In the Mailbox Password field, confirm that the password is correct.
- Step 5** In the Email Deliver Direction field, confirm that **Both** is selected.
- Step 6** Select **OK**.
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## Confirming That the SMTP Server Configuration Is Correct

### To Confirm That the SMTP Server Configuration Is Correct

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- Step 1** In Cisco Unity Connection Administration, expand **System Settings**, then select **SMTP Configuration > Server**.
- Step 2** On the SMTP Server Configuration page, on the Edit menu, select **Search IP Address Access List**.
- Step 3** On the Search IP Address Access List page, confirm that the IP address of the Cisco Fax Server appears in the list. If not, select **Add New** to add the IP address.
- Step 4** Check the **Allow Connection** check box for the IP address of the Cisco Fax Server, if it is not already checked.
- Step 5** Select **Save**.
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## Confirming That the Faxable File Types List Is Correct

### To Confirm That the Faxable File Types List Is Correct

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- Step 1** In Cisco Unity Connection Administration, expand **System Settings**, then select **Advanced > Fax**.
- Step 2** On the Fax Configuration page, in the Faxable File Types field, note the file extensions that are listed.

- Step 3** If the file extension of the file that the user attempted to fax is not in the list, enter a comma followed by the file extension and select **Save**.
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## Problems with Fax Notifications in Cisco Unity Connection 8.x

Confirm that fax notification from Cisco Unity Connection is enabled for the user. Do the following procedure.

### To Confirm That Fax Notification Is Enabled for the User

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- Step 1** In Cisco Unity Connection Administration, expand **Users**, then select **Users**.

- Step 2** On the Search Users page, select the alias of the user.



**Note** If the user does not appear in the search results table, set the applicable parameters in the search fields at the top of the page, and select **Find**.

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- Step 3** On the Edit menu, select **Notification Devices**.

- Step 4** On the Notification Devices page, select the name of the applicable notification device.

- Step 5** On the Edit Notification Device page, under Notification Rule Events, check the **Fax Messages** check box.

- Step 6** Select **Save**.
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## Problems with Fax Receipts in Cisco Unity Connection 8.x

See the following sections, as applicable:

- [Fax Receipts Are Not Delivered, page 4-27](#)
- [The User Mailbox Is Filled with Fax Notifications, page 4-29](#)

## Fax Receipts Are Not Delivered

Confirm that the prefixes for delivery receipts and nondelivery receipts (NDRs) are correct. Do the following procedures.

### To Verify Prefixes for Delivery Receipts and Nondelivery Receipts on the Cisco Fax Server

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- Step 1** On the Windows Start menu, select **Control Panel > RightFax Enterprise Fax Manager**.

- Step 2** In the Email Configuration window, select the **General** tab.

- Step 3** In the left pane of the RightFax Enterprise Fax Manager window, select the name of the Cisco Fax Server.

- Step 4** In the right pane, under Service Name, scroll down to **RightFax eTransport Module**.

- Step 5** Right-click **RightFax eTransport Module** and select **Configure Services**.
- Step 6** Select the **Custom Messages** tab.
- Step 7** In the applicable fields, verify the fax failure prefix at the beginning of the text (the default fax failure prefix is [Fax Failure]). We recommend that the fax failure prefix appear at the beginning of the following fields:
- Imaging Error
  - Bad Form Type
  - Bad Fax Phone Number
  - Too Many Retries
  - Sending Error
  - Incomplete Fax
  - Invalid Billing Code
  - Fax Needs Approval
  - Fax Number Blocked
  - Human Answered Fax
  - Fax Block by Do Not Dial
- When the text at the beginning of the field matches the value for the Subject Prefix for Notification of a Failed Fax field on the System Settings > Advanced > Fax page of Cisco Unity Connection Administration, Connection notifies the user of the failed fax.
- Step 8** In the Successful Send field, verify the fax success prefix at the beginning of the text (the default fax success prefix is [Fax Success]).
- When the text at the beginning of the field matches the value for the Subject Prefix for Notification of a Successful Fax field on the System Settings > Advanced > Fax page of Connection Administration, Connection notifies the user of the successful fax.
- Step 9** Select **OK**.

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#### To Verify Prefixes for Delivery Receipts and Nondelivery Receipts on Cisco Unity Connection

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- Step 1** In Cisco Unity Connection Administration, expand **System Settings**, then select **Advanced > Fax**.
- Step 2** On the Fax Configuration page, in the Subject Prefix for Notification of a Successful Fax field, confirm that the setting matches the prefix for the Successful Send field that is described in [Step 8](#) of the “[To Verify Prefixes for Delivery Receipts and Nondelivery Receipts on the Cisco Fax Server](#)” procedure on [page 4-27](#).
- Step 3** In the Subject Prefix for Notification of a Failed Fax field, confirm that the setting matches the prefix for the fields that are described in [Step 7](#) of the “[To Verify Prefixes for Delivery Receipts and Nondelivery Receipts on the Cisco Fax Server](#)” procedure on [page 4-27](#).
- Step 4** Select **Save**.
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## The User Mailbox Is Filled with Fax Notifications

If the user mailbox is filled with fax notifications, do the following procedure.

### To Disable Fax Notifications

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| <b>Step 1</b> | In the RightFax Enterprise Fax Manager window, in the right pane, expand <b>Users</b> , right-click the user for whom you want to disable fax notifications, and select <b>Edit</b> . |
| <b>Step 2</b> | In the User Edit dialog box, select the <b>Notifications</b> tab.   |
| <b>Step 3</b> | Under Notification About Received Faxes, uncheck the <b>When Initially Received</b> check box.  |
| <b>Step 4</b> | Select <b>OK</b> .  |
| <b>Step 5</b> | Repeat <a href="#">Step 1</a> through <a href="#">Step 4</a> for all remaining users for whom you want to disable fax notifications.  |
| <b>Step 6</b> | Close the RightFax Enterprise Fax Manager window.   |
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## Problems with Printing Faxes in Cisco Unity Connection 8.x

When you send a fax to a fax machine for printing but portions of the document are not printed, do the following:

- Use the MTA micro trace to determine which files are not rendered into the fax. Then note the file types. For instructions for enabling the micro trace and viewing the trace logs, see the [“Using Cisco Unity Connection Serviceability Traces to Troubleshoot Problems”](#) section on page 2-11.
- Confirm that the faxable file types include the file types that you sent to the fax machine for printing. See the [“Confirming That the Faxable File Types List Is Correct”](#) section on page 4-29.

## Confirming That the Faxable File Types List Is Correct

### To Confirm That the Faxable File Types List Is Correct

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|---------------|--|
| <b>Step 1</b> | In Cisco Unity Connection Administration, expand <b>System Settings</b> , then select <b>Advanced &gt; Fax</b> .   |
| <b>Step 2</b> | On the Fax Configuration page, in the Faxable File Types field, note the file extensions that are listed.  |
| <b>Step 3</b> | If the file extension of the file that the user attempted to fax is not in the list, enter a comma followed by the file extension and select <b>Save</b> . |
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