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# Ricoh Embedded Software Architecture (ESA) Device Client v1.4 Installation and Integration Guide

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## Appendix B: Configuring with AccuRoute Server v4.0

# Section I: Introduction

This guide contains instructions on deploying Ricoh Embedded Software Architecture (ESA) Device Client to multifunction devices in a LAN. It is written for systems administrators with detailed knowledge of the Omtool Server and the device.

This section includes:

[Ricoh Embedded Software Architecture \(ESA\) Device Client](#) (I-1)

[Main components of the environment](#) (I-3)

[Document workflows](#) (I-5)

[Deployment summary](#) (I-7)

[Deployment summary](#) (I-7)

[Custom configuration](#) (I-7)

[Related documentation](#) (I-8)

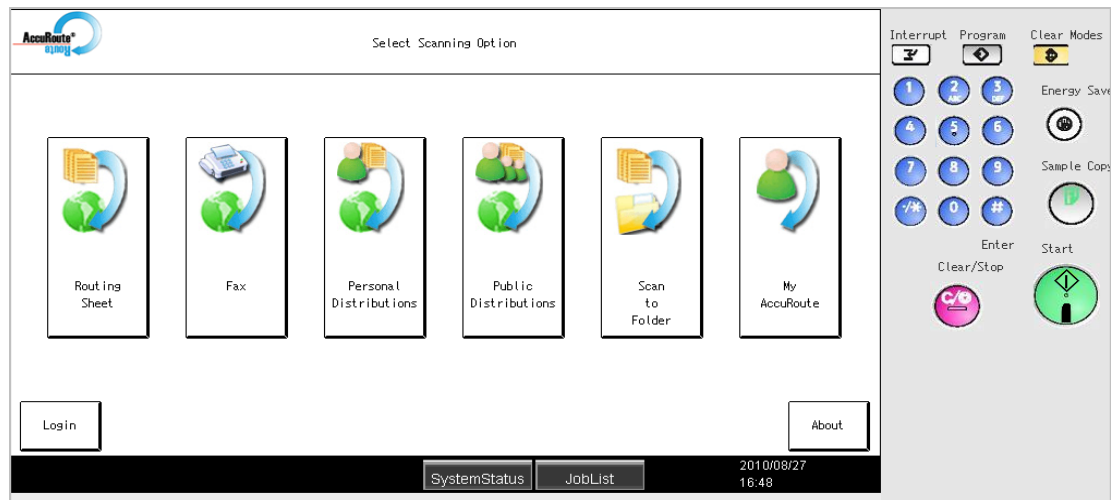
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## Ricoh Embedded Software Architecture (ESA) Device Client

Ricoh Embedded Software Architecture (ESA) Device Client v1.4 is compatible with AccuRoute Server v3.01 environments. It is built against the SDK/J version 4.x and runs on supported Ricoh, Lanier, Savin, and Gestetner 2.x, 4.x, 5.x and 7.x devices as a Java xlet called the Omtool Xlet v1.4.

This integration brings the versatile document routing capabilities of AccuRoute to supported Ricoh, Lanier, Savin, and Gestetner devices. These capabilities are founded on Omtool's Embedded Directive technology.

In the main menu, Embedded AccuRoute for Ricoh presents the device user with several AccuRoute scanning features.



The display panel shows the AccuRoute scanning features.

**Figure I-1: AccuRoute scanning features on the Ricoh device running Embedded AccuRoute for Ricoh**

Each feature has a unique function described in the following table. (For more information on how each feature works on the device, see [Section 7: Testing](#). This section shows a complete screen sequence for each feature.)

**Table I-1: AccuRoute scanning features in Ricoh ESA Device Client**

Feature	Description	Login required	Notes
Routing Sheet	The user selects Routing Sheet. The device scans the document and it is distributed using the Embedded Directive that was used to create the AccuRoute Routing Sheet.	No	
Public Distributions	The user selects Public Distributions and then selects a public distribution option, or Embedded Directive. The device scans the document and delivers the document to the AccuRoute Server via the Embedded AccuRoute for Intelligent Devices (Omtool ISAPI web server extension). The server decodes the Embedded Directive and distributes the document to the intended recipient.	No	Public distribution options are associated with a special user account that is set up for this purpose.
Personal Distributions	The user selects Personal Distributions, logs in to the device, and selects a personal distribution option, or Embedded Directive. The device scans the document and delivers the document to the AccuRoute Server via the Embedded AccuRoute for Intelligent Devices (Omtool ISAPI web server extension). The server decodes the Embedded Directive and distributes the document to the intended recipient.	Yes	

**Table I-1: AccuRoute scanning features in Ricoh ESA Device Client**

Feature	Description	Login required	Notes
My AccuRoute	The user selects My AccuRoute and logs in to the device. The device scans the document and it is distributed using the My AccuRoute preferences of the user.	Yes	My AccuRoute is an advanced feature of AccuRoute Desktop. It enables the server to process all AccuRoute messages from the same user with the same Embedded Directive. For more information on this feature, consult the AccuRoute Desktop installation guide. Go to <a href="#">Related documentation</a> on I-8.
Scan to Folder	The device scans and delivers the document to the AccuRoute Server. The server then processes the document and delivers it to the intended folder.	No	
Fax	The user selects Fax and enters the fax destination. The device scans the document and it is distributed to the specified fax destination.	No	

## Main components of the environment

The Ricoh ESA Device Client environment consists of the following components listed below.

- **AccuRoute Server** - AccuRoute v3.01

The AccuRoute Server is the main back end server for processing and routing documents. For instructions on installing AccuRoute Server, consult the Installation guide.

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**Note** AccuRoute v3.01 installs the AccuRoute Intelligent Device Client v3.01 as part of the server install. No separate installation of this component is required.

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- **Ricoh Embedded Software Architecture (ESA) Device Client** - This guide includes instructions on installing Ricoh Embedded Software Architecture (ESA) Device Client.
- **Ricoh multifunction device** - The following must be installed:
  - ▶ **SDK/J** - For information, go to [Supported devices](#) (2-1).
  - ▶ **Omtool Xlet** - This guide includes instructions on installing the Omtool Xlet on the device.

## Installation components

The Embedded AccuRoute for Ricoh setup includes multiple components that are detailed in the following table.

**Table I-2: Description of installation components with locations and functions**

Component	Setup location	Function
Embedded AccuRoute for Ricoh	Network folder where you downloaded the setup files.	The setup contains the setup.exe file. Use this file to install Embedded AccuRoute for Ricoh.
Omtool Xlet files	... \program files\ Omtool\ISAPIClients\Ricoh\XletRepository	<p>These files are uploaded to the Ricoh device via the AccuRoute Server Administrator (when the AccuRoute buttons are pushed to the device).</p> <p>Included are OmtoolXlet.DALP and several JAR files. The DALP file contains important configuration data, such as the network location of the web server and the file postings directory.</p> <p><b>Note:</b> Keep these files on the web server as a backup copy of the Omtool Xlet configuration that is running on the device.</p>
Ricoh ESA Device Client Configuration file	C:\Program Files\omtool\Omtool Server\WebAPI\ OmtoolWebAPI\Scripts\Configuration.Ricoh.xml	<p>This XML file is installed in system running the Ricoh ESA Device Client Device Client.</p> <p>This file supplies the configuration data to the device. It is configured automatically by the setup.</p>
Microsoft XML parser	... \System\*	<p>These files are installed on the web server.</p> <p>The Microsoft XML parser is used internally by Ricoh ESA Device Client.</p>

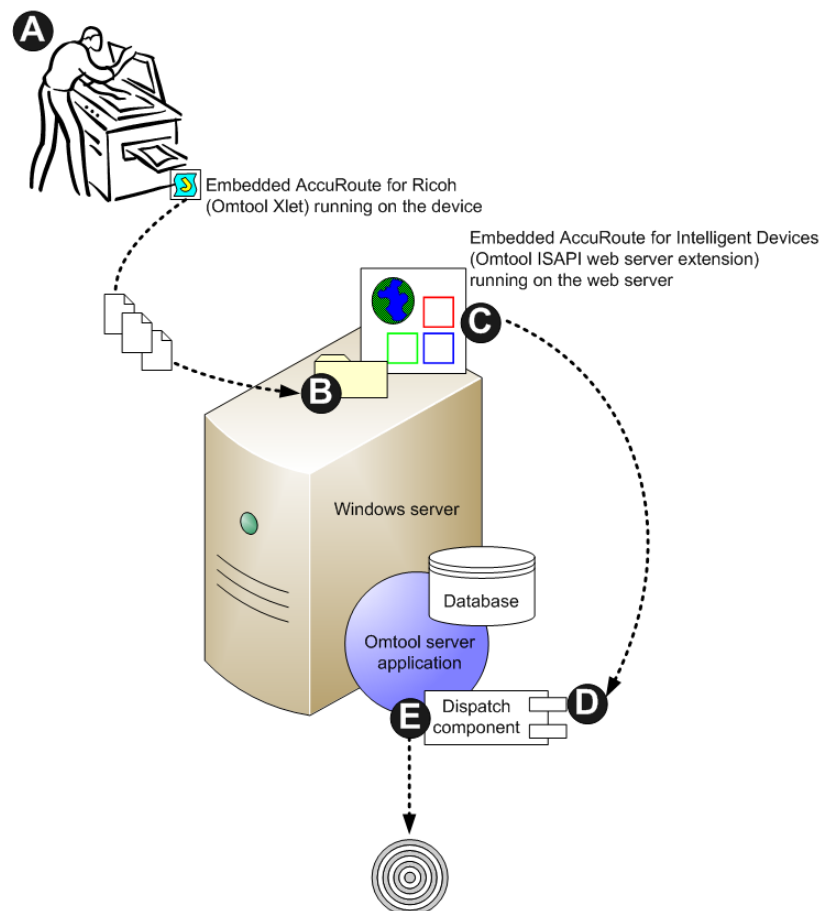


## Document workflows

The workflow that moves a document from the device to its final destination involves the user, the Omtool Xlet, Embedded AccuRoute for Intelligent Devices (Omtool ISAPI web server extension), and the AccuRoute server. An understanding of this workflow can be helpful in troubleshooting an Embedded AccuRoute integration.

In its most basic workflow, the Omtool Xlet saves files to a directory on the web server, and Embedded AccuRoute for Intelligent Devices (Omtool ISAPI web server extension) submits the files directly to the AccuRoute server. This workflow applies to the features MyAccuRoute, Scan to Folder, Routing Sheet and Fax.

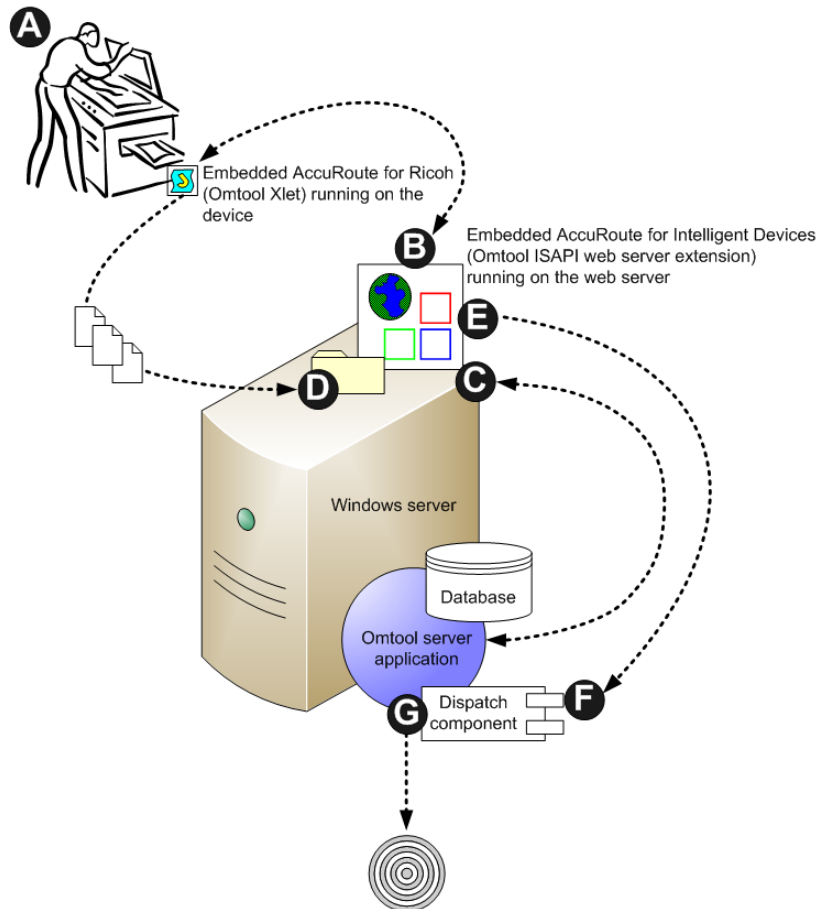
**Important** For MyAccuRoute feature, the device user must authenticate himself at the device using the configured authentication type.



**A-** The user selects an AccuRoute scanning feature and scans a document. **B -** The Omtool Xlet saves the scanned document and copies the file to the web server. **C -** the web server submits the file to the AccuRoute server as a "message". **D -** The Dispatch component applies rules to the message, and the server processes the message accordingly.

**Figure I-2: Workflow for MyAccuRoute, Scan to Folder, Routing Sheet and Fax**

For all other scanning features, the Omtool Xlet makes requests during the scan session to authenticate users, retrieve Embedded Directives, and/or retrieve the user's My AccuRoute settings. When the Omtool Xlet requires data from the AccuRoute server, it submits a request to Embedded AccuRoute for Intelligent Devices (Omtool ISAPI web server extension) which retrieves the data from the AccuRoute server and supplies it to the Omtool Xlet. As soon as the Omtool Xlet has the requested data, the basic workflow resumes.



**A**- The user selects Personal or Public Distribution feature. (If the user chooses Personal Distribution, he logs into the device.) The device requests the list of Embedded Directives from the server. The AccuRoute Server returns the requested data. User selects an Embedded Directive from the list and scans document. **B** - Device delivers the document to the Ricoh ESA Device Client Device Client via HTTP or HTTPS protocol. **C**- Ricoh ESA Device Client Device Client sends the document to Embedded AccuRoute for Intelligent Devices (Omtool ISAPI Web Server Extension) via HTTP/HTTPS protocol which in turn routes the document to the AccuRoute Server. **D** - The Dispatch component applies rules to the message, and the server processes the message accordingly.

**Figure I-3: Workflow for Public Distributions and Personal Distributions**

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## Deployment summary

To deploy Ricoh ESA Device Client:

- 1 Complete the installation requirements. ([Section 2: Requirements](#))
- 2 Complete the installation. ([Section 3: Installation](#))
- 3 Complete the required configurations such as adding the Ricoh device using the AccuRoute Server Administrator and pushing out the AccuRoute buttons to the device. (Go to [Section 4: Required configuration](#).)
- 4 Configure the AccuRoute server. ([Section 5: Required configuration on the server](#))
- 5 Configure authentication if using User PIN Authentication.
- 6 Test the AccuRoute scanning features on the device. ([Section 7: Testing](#))
- 7 Troubleshoot the setup if necessary. ([Section 8: Troubleshooting](#))

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## Custom configuration

By default, Ricoh ESA Device Client supports one Omtool Xlet configuration. It can be modified or customized to support multiple configurations.

### Modifying the default configuration

The default configuration is created by the Embedded AccuRoute for Ricoh setup.

To change the default configuration after Ricoh ESA Device Client has been deployed, reinstall Ricoh ESA Device Client:

- 1 Remove the Omtool Xlet from the device.
- 2 Remove Ricoh ESA Device Client from the web server using Add/Remove Programs.
- 3 Run the Embedded AccuRoute for Ricoh setup again using the desired values. (Go to [Installing Ricoh Embedded Software Architecture \(ESA\) Device Client Update](#) on 3-2.)
- 4 Installing Ricoh Embedded Software Architecture (ESA) Device Client on the device. (Go to [Installing Ricoh ESA Device Client on the device](#) on 4-2.)

## Customizing Ricoh ESA Device Client

Ricoh ESA Device Client can be customized to:

- Run a unique configuration on each device or groups of devices.
- Use custom options for the Fax feature, such as cover pages, additional recipients, default sender name, default subject, delivery confirmation settings, etc.
- Override native settings on the device.

For more information, contact [Omtool Sales](#).

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## Related documentation

- [AccuRoute v3.01 Server Installation Guide](#)
- [AccuRoute v4.0 Server Installation Guide](#)
- [Omtool Server Administrator Help](#)
- [Ricoh Embedded Software Architecture \(ESA\) Device Client Quick Start Guide](#)

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**Note** The quick start guide has been designed to be posted near the device, distributed to device users, and published on your organization's intranet.

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For all documentation related to AccuRoute v3.01, consult the [AccuRoute v3.01 documentation page](#).

For all documentation related to AccuRoute v4.0, consult the [AccuRoute v4.0 documentation page](#).

# Section 2: Requirements

This section includes:

[Supported devices](#) (2-1)

[Server requirements](#) (2-4)

[Installation requirements](#) (2-4)

[Deployment requirements](#) (2-4)

## Supported devices

Omtool qualified Ricoh ESA Device Client with the Ricoh Aficio 205 I.

Ricoh Corporation certified the following devices with the SDK/J platform versions listed in the table below.

The SDK/J platform, known as Embedded Software Architecture, must be installed on an SD card that remains in the service slot whenever the device is powered on. To check the version of the SDK/J platform installed on your Ricoh device, start the Application Manager. The version is displayed in the top right corner.

**Note** OmtoolXlet version 1.4 supports Ricoh, Lanier, Savin, and Gestetner 2.x, 4.x, 5.x and 7.x devices. It will also continue to support 2.x devices that were certified previously.

**Table 2-1: List of Ricoh devices and the minimum SDK/J platform versions supported by Ricoh as well as SDK/J platform versions included in the Ricoh ESA Device Client kit.**

Minimum SDK/J platform version supported	SDK/J platform version included in the Ricoh ESA Device Client kit	Device Model
7.0x	7.03	<ul style="list-style-type: none"> <li>Ricoh - MP C650I, MP C750I,</li> <li>Gestetner - MP C650I, MP C750I</li> <li>Lanier - C9065, C9075</li> <li>Savin - LD365C, LD375C</li> </ul> <p><b>Note:</b> The 7.0x devices have Java VM Card pre-installed.</p>
5.0x	5.08	<ul style="list-style-type: none"> <li>Ricoh - SP 4210, SP C820DN, SP C821DN, SP 6330N</li> <li>Gestetner - SP 4210N, C8140nD, C8150nD, SP 6330N</li> <li>Lanier - LP137N, LP540c, LP550c, LP235N</li> <li>Savin - MPL37N, CLP340D, CLP350D, MLP235n</li> </ul>

## Section 2: Requirements

**Table 2-1: List of Ricoh devices and the minimum SDK/J platform versions supported by Ricoh as well as SDK/J platform versions included in the Ricoh ESA Device Client kit.**

Minimum SDK/J platform version supported	SDK/J platform version included in the Ricoh ESA Device Client kit	Device Model
5.0x	5.08	<ul style="list-style-type: none"> <li>Ricoh - MP 600I SP, MP 700I SP, MP 800I SP, MP 900I SP, Pro 907EX, Pro 1107EX, Pro 1357EX</li> <li>Gestetner - MP 600I SP, MP 700I SP, MP 800I SP, MP 900I SP, Pro 907EX, Pro 1107EX, Pro 1357EX</li> <li>Lanier - LD360sp, LD370sp, LD380sp, LD390sp, Pro 907EX, Pro 1107EX, Pro 1357EX</li> <li>Savin - 9060sp, 9070sp, 9080sp, 9090sp, Pro 907EX, Pro 1107EX, Pro 1357EX</li> </ul>
4.1x	4.20	<ul style="list-style-type: none"> <li>Ricoh - MP C2050**, MP C2550**, MP C2800, MP C3300, MP C4000, MP C5000</li> <li>Gestetner - MP C2050**, MP C2550**, MP C2800, MP C3300, MP C4000, MP C5000</li> <li>Lanier - LD520C**, LD525C**, LD528C, LD533C, LD540C, LD550C</li> <li>Savin - C9020**, C9025**, C2828, C3333, C4040, C5050</li> </ul> <p>** - Requires 512 MB memory upgrade to run solutions.</p>
4.1x	4.20	<ul style="list-style-type: none"> <li>Ricoh - MP C2800 (E-3100)###, MP C3300 (E-3100)###, MP C4000 (E-5100)###, MP C5000 (E-5100)###</li> <li>Gestetner - MP C2800 (E-3100)###, MP C3300 (E-3100)###, MP C4000 (E-5100)###, MP C5000 (E-5100)###</li> <li>Lanier - LD528C (E-3100)###, LD533C (E-3100)###, LD540C (E-5100)###, LD550C (E-5100)###</li> <li>Savin - C2828 (E-3100)###, C3333 (E-3100)###, C4040 (E-5100)###, C5050 (E-5100)###</li> </ul> <p>### - Fiery products.</p>
4.1x	4.20	<ul style="list-style-type: none"> <li>Ricoh - SP C420DN</li> <li>Lanier - SP C400DN</li> <li>Savin - SP C400DN</li> </ul>
4.1x	4.20	<ul style="list-style-type: none"> <li>Ricoh - SP 8200DN</li> <li>Gestetner - SP 8200DN</li> <li>Lanier - LP150dn</li> <li>Savin - MLP150DN</li> </ul>
4.1x	4.20	<ul style="list-style-type: none"> <li>Ricoh - MP 2550 SP, MP 3350 SP, MP 4000 SP, MP 5000 SP, MP C6000, MP C7500, Pro C900S, MP 2851SP^^, MP 3351SP^^, MP 4001SP^^, MP 5001SP^^</li> <li>Gestetner - MP 2550, MP 3350, MP 4000, MP 5000, MP C6000, MP C7500, Pro C900S, MP 2851SP^^, MP 3351SP^^, MP 4001SP^^, MP 5001SP^^</li> <li>Lanier - LD425, LD433, LD040, LD050, LD260C, LD275C, Pro C900S, 9228SP^^, 9233SP^^, 9240sp^^, 9250sp^^</li> <li>Savin - 9025, 9033, 9040, 9050, C6055, C7570, Pro C900S, LD528SP^^, LD533SP^^, LD140SP^^, LD150SP^^</li> </ul> <p>^^ - Java VM Card Pre-installed</p>

**Table 2-1: List of Ricoh devices and the minimum SDK/J platform versions supported by Ricoh as well as SDK/J platform versions included in the Ricoh ESA Device Client kit.**

Minimum SDK/J platform version supported	SDK/J platform version included in the Ricoh ESA Device Client kit	Device Model
2.x	2.15	<ul style="list-style-type: none"> <li>Ricoh - 615C, SP C410DN, SP C411DN, SP 4100NL, SP 4100SF, SP 4100SFL, SP 4100SF, SP C811DN, SP 8100DN, SP9100 DN, SP 4100N, SP 4110N</li> <li>Gestetner -GS106, C7526dn, C7531dn, P703nl, C7640nD, P7245, P7675, P7103In, P71035n</li> <li>Lanier - LD215c, LP226cn, LP231cn, LP131nL, LP131SF, LP131SFL, LP136SF, LP440c, LP145n, LP275hdn, LP131n, LP136n</li> <li>Savin - SGC1506, CPL27DN, CPL31DN, MLP31nL, MLP31SF, MLP31SFL, MLP36SF, CLP240D, MLP145, MLP175, MLP31n, MLP36n</li> </ul>
2.x	2.15	<ul style="list-style-type: none"> <li>Ricoh - MP C2000, MP C2500, MP C3000, MP C3500, MP C4500, MP 5500, MP 6000, MP 6500, MP 7000, MP 7500, MP 8000, MP 9000, MP 1100, MP 1350, Pro906EX, Pro1106EX, Pro1356EX</li> <li>Gestetner - DSc525, DSc530, DSc535, DSc545, DSm755, MP 6000, DSm765, MP 7000, DSm775, MP 8000, DSm790, DSm7110, DSm7135, Pro906EX, Pro1106EX, Pro1356EX</li> <li>Lanier - LD420C, LD425C, LD430C, LD435C, LD445C, LD255, LD260, LD265, LD270, LD275, LD280, LD190, LD1110, LD1135, Pro906EX, Pro1106EX, Pro1356EX</li> <li>Savin - C2020, C2525, C3030, C3535, C4540, 8055, 8060, 8065, 8070, 8075, 8080, 8090, 8110, 8135, Pro906EX, Pro1106EX, Pro1356EX</li> </ul>
1.x		<ul style="list-style-type: none"> <li>Ricoh - 2051, 2060, 2075, 3224C, Color 5560, 3228C, 3235C, 3245C, 480W, 3035, 3045, 3030, MP 2510, MP 3010, MP 3500, MP 4500</li> <li>Gestetner -</li> <li>Lanier - LD151, LD160, LD175, LD124c, LD160c, LC155, LD328c, LD335c, LD345c, LW411, LD235, LD245, 225, LD230, LD325, LD330, LD335, LD345</li> <li>Savin - 4051, 4060, 4075, C2410, C6045, SDC555, C2824, C3528, C4535, 4800WD, 8035, 8045, 8025, 8030, 8025e, 8030e, 8035e, 8045e</li> </ul>

Omtool supports Ricoh ESA Device Client with all devices listed in the table above.

**Important** It is important that you check the version of SDK/J running on your Ricoh device. As long as the Ricoh device is running a version of Java that was qualified, the Ricoh ESA Device Client will work with the Ricoh device.

## Server requirements

Ricoh ESA Device Client requires:

- AccuRoute server running AccuRoute v3.01 (must be fax-enabled to support fax-based features)
- AccuRoute v3.01 Patch Roll up 1

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## Installation requirements

The installation requires:

- Unique e-mail address for the Public Distributions feature. (When Ricoh ESA Device Client is installed without the Public Distributions feature, this requirement does not apply.)

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## Deployment requirements

Additional requirements apply for deployment:

- Routing Sheet feature** - The device users must be able to generate Routing Sheets. This requires access to AccuRoute Desktop v3.01 or AccuRoute Web Client (where the user can create the Routing Sheets).
- Public Distributions feature** - The user account associated with this feature must be able to create Embedded Directives. This requires access AccuRoute Desktop v3.01 or AccuRoute Web Client (where the user can create Embedded Directives and Routing Sheets).
- Personal Distributions feature** - The device user must be able to create Embedded Directives. This requires access to AccuRoute Desktop v3.01 or AccuRoute Web Client (where the user can create Embedded Directives and Routing Sheets).
- My AccuRoute feature** - This requires access to AccuRoute Desktop v3.01 (where the user can create Embedded Directives and Routing Sheets). Additionally, My AccuRoute must be configured in AccuRoute Desktop and on the server.
- Scan to Folder feature** - There are no special deployment requirements for this feature.
- Fax feature** - There are no special deployment requirements for this feature (however the server must be fax enabled for this feature).



# Section 3: Installation

This section includes:

[Downloading Ricoh Embedded Software Architecture \(ESA\) Device Client Update](#) (3-1)

[Installing Ricoh Embedded Software Architecture \(ESA\) Device Client Update](#) (3-2)

[Installing Ricoh ESA Device Client v1.4](#) (3-4)

[Installing Ricoh ESA Device Client on a remote system](#) (3-7)

[Uninstalling Ricoh ESA Device Client](#) (3-8)

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**Important** Remove any prior version of Ricoh ESA Device Client if it is installed on the AccuRoute Server system using the Add/Remove Programs applet. Then remove the Omtool Xlet from the device following instructions in [Uninstalling Ricoh ESA Device Client from a Ricoh device using the AccuRoute Server Administrator](#) (4-5).

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## Downloading Ricoh Embedded Software Architecture (ESA) Device Client Update

Ricoh ESA Device Client is available as a download for a separate fee. After you have purchased the product and before you can download the setup kit, contact Customer Service to obtain the special login code needed to download the setup kit. Customer Service will issue you the special login code after verifying that purchase is complete.

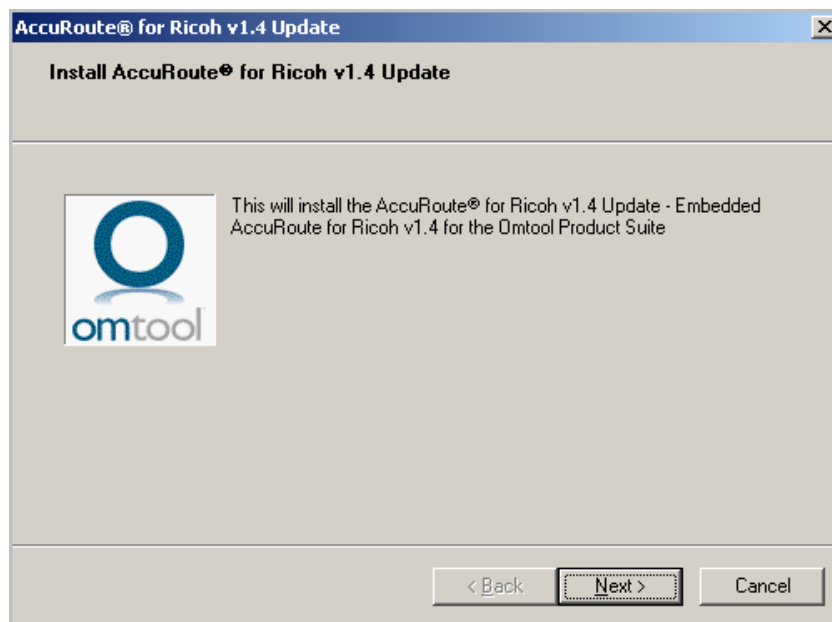
To download Ricoh Embedded Software Architecture (ESA) Device Client Update:

- 1 Go to <http://www.omtool.com/support>.
- 2 Log in using the special code provided by Customer Service.
- 3 Locate the module in the **Downloads and Docs** section.
- 4 Download the module and save it to a local drive.
- 5 Extract the files to a location on the system running the AccuRoute Server.

---

## Installing Ricoh Embedded Software Architecture (ESA) Device Client Update

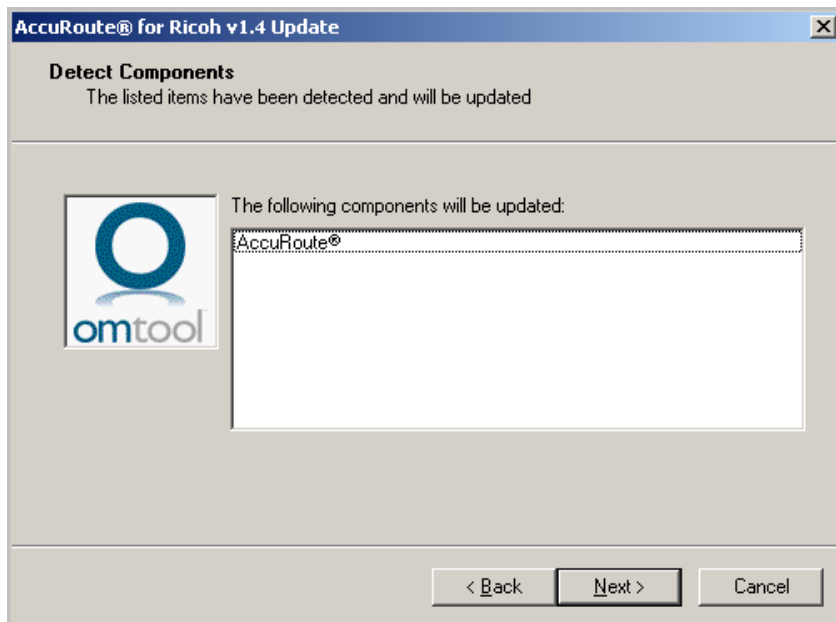
- 1 Log on to the system running the AccuRoute server using an account that belongs to the Administrators group.
- 2 Navigate to the folder where you saved the module and run **omARSRicoh1.4.exe**  
The InstallShield wizard opens the **Ricoh Update** page prompting you to extract and install the files.
- 3 Click **Continue**. The InstallShield wizard extracts the files and shows the Welcome message.



- 4 Click **Next**. The End-User License Agreement page opens.



- 5 Read the agreement and if you agree to the terms, check the box beside I have read and accept the license terms option. Click **Next**. The **Detect Components** page lists the components that will be updated.



- 6 Click **Next** to apply the update. When complete, you will see the **Installation Completed** message.

The update drops the Ricoh ESA Device Client v1.4 setup files in the directory:

`C:\Program Files\omtool\Omtool Server\Clients\Ricoh`

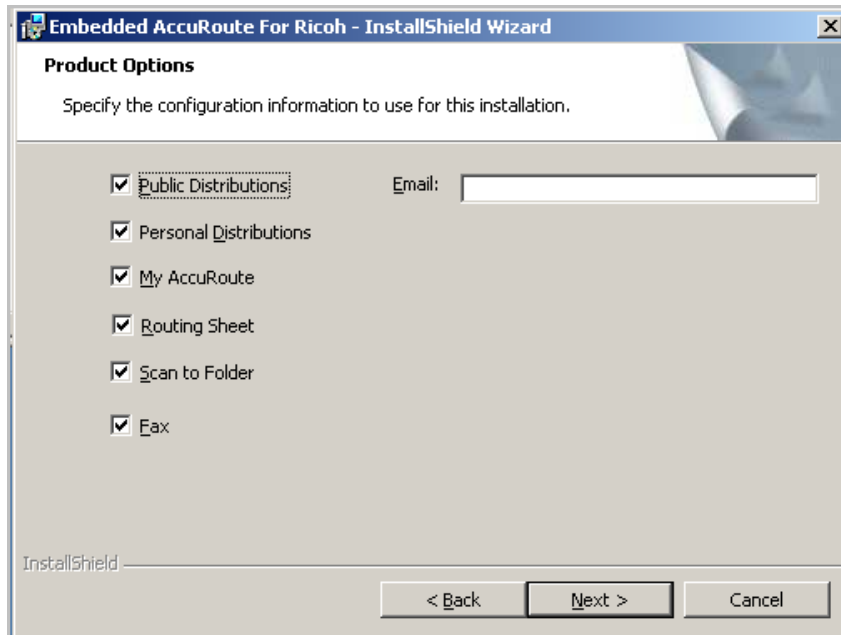
## Installing Ricoh ESA Device Client v1.4

- 1 Logon to the system running the AccuRoute Server using an account that belongs to the local Administrators group.
- 2 Navigate to the folder:  
`C:\Program Files\omtool\Omtool Server\Clients\Ricoh`
- 3 Run **setup.exe**. The InstallShield wizard configures your system for installation and shows the **Welcome** message.
- 4 Click **Next**. The **Embedded AccuRoute for Ricoh Configuration** page opens.

- 5 In the **AccuRoute** text box, enter the AccuRoute Server name or the IP Address.
- 6 In the **Authentication** text box, enter the Active Directory server name or its IP Address.
- 7 In the **Default domain** text box, enter domain to which the system belongs.
- 8 In the **Authentication Type** section, select the method by which device users should authenticate themselves. The device displays a login page depends on the type of authentication you select.
  - ▶ If you choose **Non-Authenticated Email**, the device displays an email textbox. To login, enter a valid email address that was created in Active Directory.
  - ▶ If you choose **PIN**, the device displays a PIN text box to login to use AccuRoute features.

**Note** PIN refers to an attribute of the Active Directory and it can be changed to point to any other Active Directory field by modifying the Configuration.Ricoh.xml file.

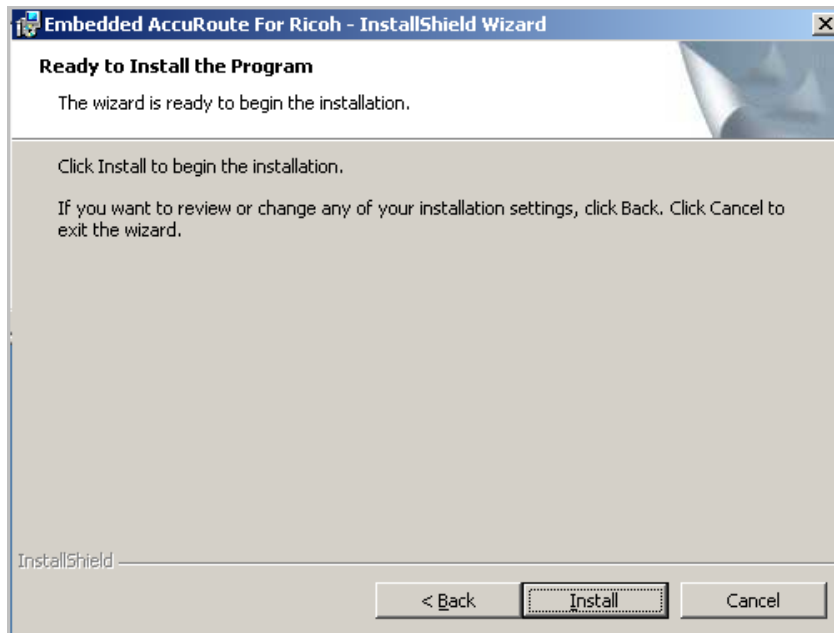
- ▶ If you choose **PIN with Password**, the device displays the **PIN** and the **Password** text boxes. Device users have to enter a PIN and the corresponding password as defined in Active Directory.
  - ▶ If you choose **Login with Password**, the device displays text boxes for a username and password as defined in the Active Directory.
- 9 In the Filing Protocol section, select from **HTTP** (the default) or **HTTPs**.
- 10 Click **Next**. The **Product Options** page opens.



All the product options are selected by default.

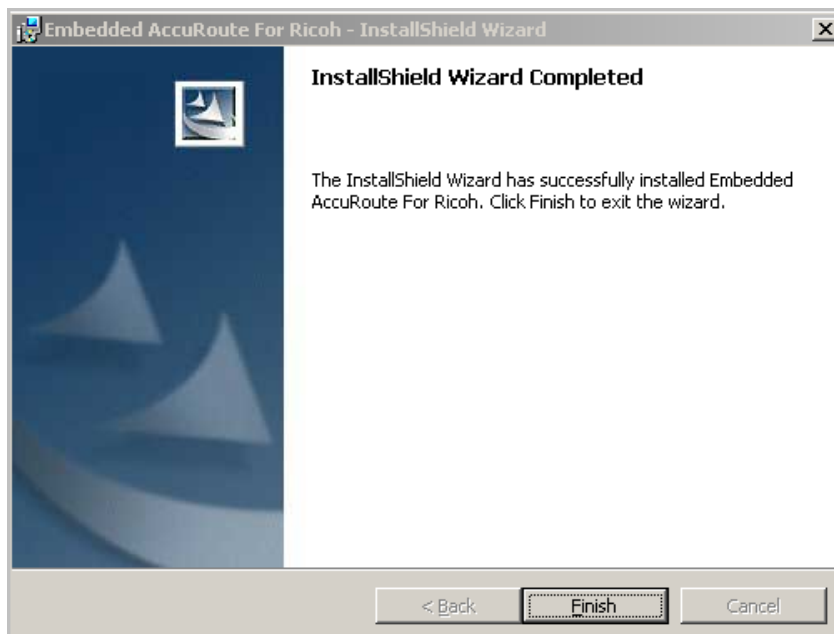
- 11 If you do not want to install any option, un-check the check box beside that option.
- If you select the **Public Distributions** option, you must specify an email address. All Embedded Directives for this user are listed under Public Distribution options. If you do not specify the email address, InstallShield Wizard will not let you proceed with the installation.
- 12 In the **Email** text box, enter the email address that is related to Public Distributions.

- 13 Click **Next**. The **Ready to Install the Program** page opens.



- 14 Click **Install** to begin installation. The setup installs Ricoh Embedded Software Architecture (ESA) Device Client.

When installation is complete, the InstallShield Wizard shows a message indicating that the installation is complete.



- 15 Click **Finish** to close the wizard.
- 16 Continue to [Section 4: Required configuration](#).

---

## Installing Ricoh ESA Device Client on a remote system

- 1 Logon to the system where you want to install Ricoh ESA Device Client using an account that belongs to the local Administrators group.

---

**Note** The system must be running Windows 2008, 2003 64 bit and must have Embedded AccuRoute for Intelligent Devices (Omtool ISAPI Web Server Extension) installed.

---

- 2 Navigate to the folder:

`C:\Program Files\omtool\Omtool Server\Clients\Ricoh`

- 3 Run **setup.exe**.

The InstallShield wizard configures your system for installation and shows the **Welcome** message.



- 4 Follow the instructions in [Installing Ricoh ESA Device Client v1.4 \(3-4\)](#) to complete the remote installation.

## Required DCOM permissions on the AccuRoute Server

When you install Ricoh ESA Device Client on a remote system, you must configure the following DCOM permissions on the AccuRoute Server. Without this configuration, the AccuRoute Server cannot communicate with the remote clients. To configure DCOM permissions:

- 1 Logon to the AccuRoute Server using an account that belongs to the local Administrators group.
- 1 Click **Start > Run**.
- 2 Enter `dcomcnfg`. Press **OK**. The **Component Services** console opens.
- 3 Expand **Component Services > Computers > MyComputer**.
- 4 Select **Properties** to open the **My Computer Properties** page.
- 5 Click **COM Security**.
- 6 Under **Access Permissions**, click **Edit Default**.
- 7 Add **Anonymous\_Logon** to the list of users and give him full permissions.
- 8 Click **OK** twice to close open dialogs.
- 9 In the left pane, expand **DCOM Config**.
- 10 Browse down to find the application **OmGFAPIServer**.
- 11 Right click the application and select **Properties** from the drop down menu. The **Properties** page opens.
- 12 Click **Security** to open the **Security** page.
- 13 For all three levels **Launch and activation permissions**, **Access Permissions** and **Configuration Permissions**, click **Edit**.
- 14 Add **Anonymous\_Logon** to the list of users and give him full permissions.
- 15 Click **OK**, and then **OK** again to close all open dialogs.

---

## Uninstalling Ricoh ESA Device Client

- 1 Go to the **Control Panel** and start **Add or Remove Programs**.
- 2 Select **Embedded AccuRoute for Ricoh** and click **Remove**.  
You are prompted to confirm that you want to uninstall the software.
- 3 Click **Yes**.

Ricoh ESA Device Client is uninstalled from your system. A progress indicator shows the status of the uninstallation.



# Section 4: Required configuration

This section includes:

[Configuring IIS to run 32-bit applications](#) (4-1)

[Modifying the DeviceLoader.xml](#) (4-1)

[Installing Ricoh ESA Device Client on the device](#) (4-2)

---

## Configuring IIS to run 32-bit applications

- 1 Open a command prompt, and enter:

```
cscript.exe C:\InetPub\adminscripts\adsutil.vbs set W3SVC/AppPools/  
Enable32bitAppOnWin64 1
```

- 2 Press **Enter**.

For information on related command to switch modes, see <http://support.microsoft.com/kb/894435>.

---

## Modifying the DeviceLoader.xml

All Ricoh devices where you will install the Ricoh ESA Device Client must be added to the DeviceLoader.xml manually prior to query or installation of the client application.

---

**Important** If you have multiple devices that are the same model, for example, you have three Aficio MP 3000 devices in your environment, you will need to add the model number only once in the DeviceLoader.xml file.

---

Before you add any device model number, check the DeviceLoader.xml to see if the model number information was from before. In that case, you will not need to add the information.

To modify the DeviceLoader.xml:

- 1 Go to the directory:

```
C:\Program Files (x86)\omtool\ISAPIClients\Ricoh
```

- 2 Open `DeviceLoader.xml` file for editing purpose.

- Under the Model node add the appropriate information for `Ricohmodel` and `GroupnumberX` into a new Model type as follows:

```
<Model type="Ricohmodel"minimumFirmware="">GroupnumberX</Model>
```

For example:

```
Value for Model node specifies the configuration listed under
- <Models>
  <Model type="Aficio MP C3000" minimumFirmware="">Group2X</Model>
  <Model type="Aficio MP C2050" minimumFirmware="">Group4X</Model>
  <Model type="Aficio MP C2500" minimumFirmware="">Group2X</Model>
  <Model type="Aficio MP C6501" minimumFirmware="">Group7X</Model>
  <Model type="Ricoh MP6001SP" minimumFirmware="">Group7X</Model>
</Models>
<!-- - Contains various configurations which could be mapped to a sp
      Any number of child nodes may be specified. -->
```

For a list of supported devices, see the [Supported devices](#) (2-1) section.

- Save your changes and close the file.

---

## Installing Ricoh ESA Device Client on the device

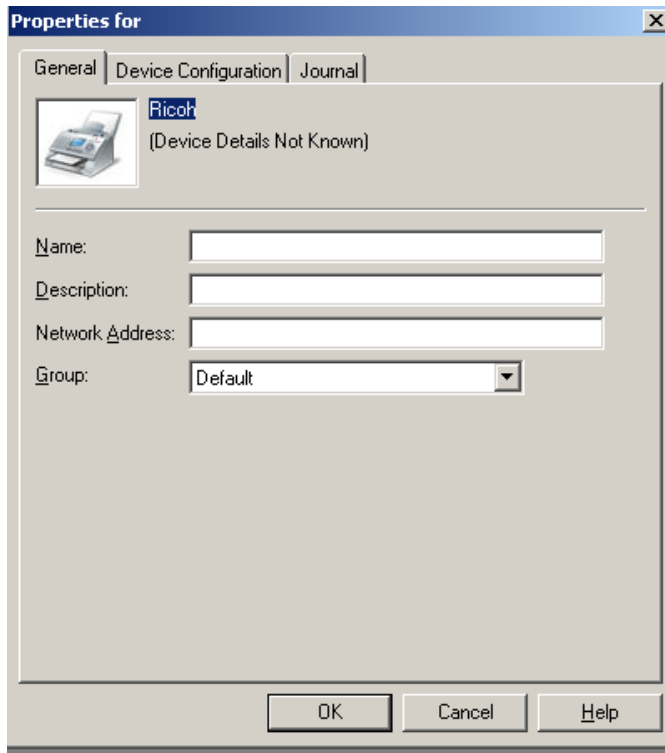
There are two steps to this process:

- Adding the Ricoh MFP to the list under the Devices node in the AccuRoute Server Administrator
- Pushing out the AccuRoute buttons to the Ricoh MFP using the AccuRoute Server Administrator

### Adding a Ricoh device using the AccuRoute Server Administrator

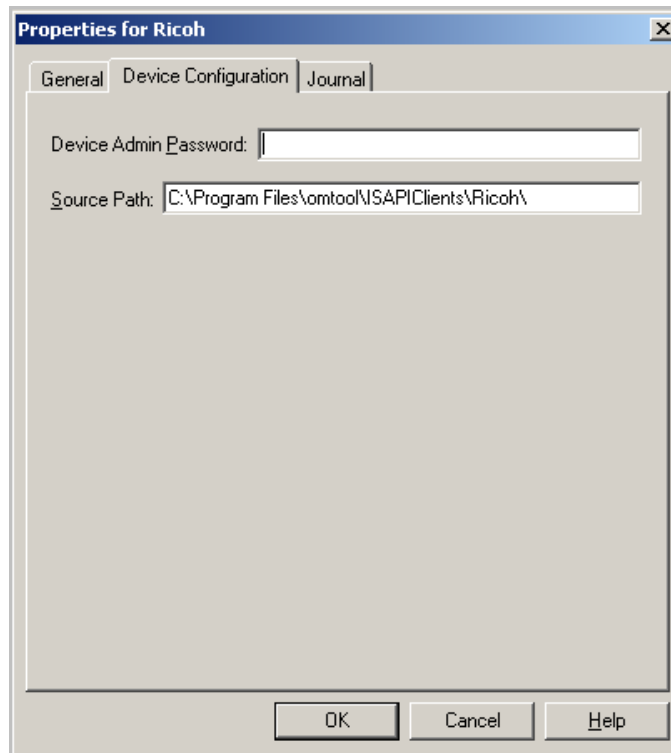
- Click **Start > All Programs > Omtool > AccuRoute Server > AccuRoute Server Administrator**.
- In the console tree, expand the AccuRoute Server Administrator.
- Go to the **Devices** node.
- Click **Default > New > Ricoh device**.

The **Properties** for the device page opens.



- 5 In the **Name** text box, enter a name for the device.
- 6 Optionally, in the **Description** text box, enter a description of the device.
- 7 In the **Network Address** text box, enter the IP address of the Ricoh device.
- 8 Verify the Group is listed as **Default**.

9 Click the **Device Configuration** tab.



- 10 In the **Device Admin Password** text box, enter the device administrator password. If no password is set for the administrator, leave it empty.

---

**Note** In the **Source Path** text box, the physical path to the location where Ricoh ESA Device Client is installed is listed.

---

- 11 Click **OK** to add the device.

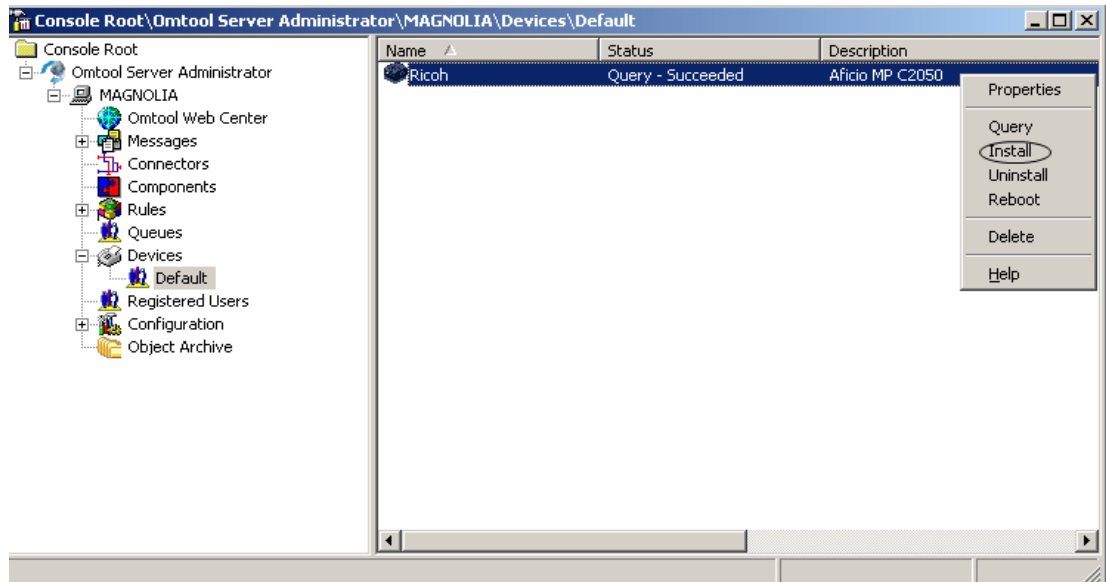
A query is sent to locate the device. Once the device has been located, the device is added. Its status is shown as **Query - Succeeded**.

## Pushing Ricoh ESA Device Client to the Ricoh device using the AccuRoute Server Administrator

When you install Ricoh ESA Device Client on the device, it pushes the AccuRoute buttons on the device for use. To install Ricoh ESA Device Client to the Ricoh device:

- 1 Click **Start > All Programs > Omtool > AccuRoute Server > AccuRoute Server Administrator**.
- 2 In the console tree, expand the AccuRoute Server Administrator.
- 3 Go to the **Devices** node.

- 4 In the details pane, select the device on which you want to install Ricoh ESA Device Client.
- 5 Right click and select **Install** from the drop down options.



The AccuRoute buttons and configurations are now pushed out to the device. When installation is complete, walk up to the device and verify that the AccuRoute buttons are visible on the screen.

## Uninstalling Ricoh ESA Device Client from a Ricoh device using the AccuRoute Server Administrator

- 1 Click **Start > All Programs > Omtool > AccuRoute Server > AccuRoute Server Administrator**.
- 2 In the console tree, expand the AccuRoute Server Administrator.
- 3 Go to the **Devices** node.
- 4 In the details pane, select the device from which you want to uninstall.
- 5 Right click and select **Uninstall** from the drop down options. The AccuRoute buttons are uninstalled from the device.

## Rebooting a Ricoh device using the AccuRoute Server Administrator

- 1 Click **Start > All Programs > Omtool > AccuRoute Server > AccuRoute Server Administrator**.
- 2 In the console tree, expand the AccuRoute Server Administrator.
- 3 Go to the **Devices** node.
- 4 In the details pane, select the device you want to reboot.
- 5 Right click and select **Reboot** from the drop down options.

Section 4: Required configuration

# Section 5: Required configuration on the server

This section includes:

## [Creating a rule for Scan to Folder feature](#) (5-1)

When a message arrives on the AccuRoute server, the Dispatch component applies rules to the message. The rules determine how the server processes the message. Every message on the server must match a rule associated with an action in order to be processed and distributed to its final destination. The additional configuration in this section ensures that rules exist for AccuRoute scanning features.

Several AccuRoute scanning features require special rules on the AccuRoute server. Most of these rules are created by default when you install AccuRoute v3.01.

You can, also, create rules based on the AccuRoute scanning features available on devices in your environment. For more information on rules and how to create them, consult the [Omtool Server Administrator Help](#).

When rules have been created for all AccuRoute scanning features available on devices in your environment, the AccuRoute server is fully configured for Ricoh ESA Device Client. Now you are ready to test the AccuRoute scanning features. Go to [Section 7: Testing](#).

---

## Creating a rule for Scan to Folder feature

---

**Note** You will need to create this rule only if you are planning to use the Scan to Folder feature.

---

When a device user selects the Scan to Folder feature, and scans a document, the Ricoh ESA Device Client associates the destination e-mail address “FileScan” with the scanned document. This is the unique characteristic you must use to create a rule for this feature.

The routing rule you create must route all outbound messages with the destination e-mail address “FileScan” to a network folder. Other custom actions can be added to the rule.

---

**Note** The Scan to Folder feature requires the Filescan connector. The Filescan connector must be added to the AccuRoute server before the rule can be created. For more information on the Filescan connector, consult the Administrator help. Go to [Related documentation](#) on I-8.

---

The device user is able to use the Scan to Folder feature only if you create the following outbound rule in the AccuRoute Server:

To create a rule for scans using Scan to Folder:

- 1 Click **Start > All Programs > Omtool > AccuRoute Server > AccuRoute Server Administrator**.
- 2 In the console tree, expand the AccuRoute Server Administrator.
- 3 Expand **Rules**, right-click **Outbound** and select **New > Rule**. The Create New Rule wizard appears.
- 4 Set the criteria for this rule:
  - a Click **Add**, select **Destination is an e-mail address**, and click **Next**.
  - b Select **is**, type **FileScan** in the text box. Click **Add**.
  - c Click **Finish**. The Create New Rule wizard adds the criteria to the rule.

---

**Note** The value **FileScan** is not case-sensitive.

---

- d Click **Next**.
- 5 Create the action for this rule:
  - a Click **Add**, select **Route to Connector**. Click **Next**.
  - b Select the Filescan connector in the **Route to Connector** menu, select a file format for delivered messages in the **Document Delivery Format** menu.
  - c Go to the override section and check **Destination**. Enter the location of the destination folder.  
UNC format must be used for any folder that is not on the AccuRoute server. For example:  
`\\FileServer\ShareA`  
A relative path to a local drive is valid if the drive is installed on the AccuRoute server. For example:  
`c:\ScanToFolder`
  - d Click **Finish**. The Create New Rule wizard adds the action to the rule.  
This action routes messages to the destination folder in the specified delivery format. Additional actions can be added to achieve a custom routing behavior but none are required.
  - e Click **Next**.
- 6 Add a failover action if necessary. Click **Next**.  
The failover action is executed if the primary action fails. For example, the primary action routes messages to a destination folder on FileServer A and the secondary action routes messages to a destination folder on FileServer B. A routing failure can occur if a network issue prevents communication between the AccuRoute server and the file server or if the file server is offline.
- 7 Verify that **Stop processing other rules** is selected. Click **Finish**.  
The new outbound rule appears in the details pane.



# Section 6: Optional configuration

This section includes:

- [Configuring the auto reset option](#) (6-1)
- [Configuring the User PIN Identification](#) (6-2)
- [Configuring User PIN with password](#) (6-3)
- [Enabling logging](#) (6-4)
- [Modifying memory sizes of Heap, Stack and System Memory](#) (6-5)
- [Enabling Job Build](#) (6-5)
- [Configuring nested buttons](#) (6-6)
- [Configuring custom button images](#) (6-7)
- [Configuring prompts](#) (6-7)
- [Configuring print confirmation](#) (6-10)

---

## Configuring the auto reset option

Device users can scan documents with large number of pages only if the default auto reset time of 30 seconds is changed to a higher value. To configure the auto reset option:

- 1 Navigate to:  
`C:\Program Files\omtool\Omttool Server\WebAPI\OmttoolWebAPI\Scripts\`
- 2 Open `Configuration.Ricoh.xml` for editing.
- 3 Under the `<Configurations>` node, look for the specific device group or `<Default>` node for the default group.
- 4 Locate the `<AutomaticLogout>` node and set the time seconds from 30 to 300 or a time that is appropriate for your environment.
- 5 Save you changes.
- 6 Restart the World Wide Web Publishing service.
- 7 Stop and restart the OmttoolXlet application at the device.

---

## Configuring the User PIN Identification

You must configure the `Configuration.Ricoh.xml` using the instructions below before device users can use the User PIN Identification feature. To configure the user PIN identification:

- 1 Navigate to:

```
C:\Program Files\omtool\Omtool Server\WebAPI\OmtoolWebAPI\Scripts\
```

- 2 Open `Configuration.Ricoh.xml` for editing.

- 3 Now go to the `<Type>` node and change the `:value` to `PIN`:

```
<Type>PIN</Type>
```

- 4 If `<UseABService="true">`, username and password is not required to authenticate against the LDAP Server.

If `<UseABService="false">` username and password is required to authenticate against the LDAP Server. The following example shows how you can provide the username and password.

```
<Username>administrator@domain.net</Username>
```

```
<Password>yourpassword@2006</Password>
```

---

**Note** The username should be a fully qualified domain name.

---

- 5 When validating against Active Directory, if the field is anything other than `employeeID` (the default), add the `<Filter>` node under `<Search UseABService>` node. For example:

```
<Filter>facsimileTelephoneNumber</Filter>
```

```
<Attributes></Attributes>
```

- 6 Go to the `<User>` node under the `<Type>` node and change the value of the `<Label>` node to `PIN`:

```
<Label>PIN:</Label>
```

- 7 Save your changes to the file.
- 8 Restart the World Wide Web Publishing service.
- 9 Stop and restart the OmtoolXlet application at the device.

After configuring User PIN in this fashion, login to AccuRoute feature on the device by specifying `facsimileTelephoneNumber` for `Usr-I` (set in Active directory) instead of the email address.

---

## Configuring User PIN with password

By default, the PIN authentication is validated against the employeeID in Active Directory. To configure validation against any other Active Directory field other than employeeID, you need to configure the <Filter> node as shown in the following procedure.

To configure user PIN with password:

- 1 Navigate to the directory:

```
C:\Program Files\omtool\HPOXP\Configuration
```

- 2 Open `Configuration.Ricoh.xml` for editing.

- 3 Now go to the <Type> node and change the value of the node to PIN:

```
<Type>PIN</Type>
```

- 4 If <UseABService="true">, username and password is not required to authenticate against the LDAP Server.

If <UseABService="false"> username and password is required to authenticate against the LDAP Server. The following example shows how you can provide the username and password.

```
<Username>administrator@domain.net</Username>
```

```
<Password>yourpassword@2006</Password>
```

---

**Note** The username should be a fully qualified domain name.

---

- 5 When validating against Active Directory, if the field is anything other than employeeID (the default), add the <Filter> node under <Search UseABService> node. For example,

```
<Filter>facsimileTelephoneNumber</Filter>
```

```
<Attributes></Attributes>
```

- 6 Go to the <User> node and change the value of the <Label> node to PIN:

```
<Label>PIN:</Label>
```

- 7 Go to the <Password> node and change the value of the <Label> node to Password:

```
<Label>Password:</Label>
```

- 8 After you finish making necessary change, save the file.

- 9 Restart the World Wide Web Publishing service.

- 10 Stop and restart the OmtoolXlet application at the device.

## Enabling logging

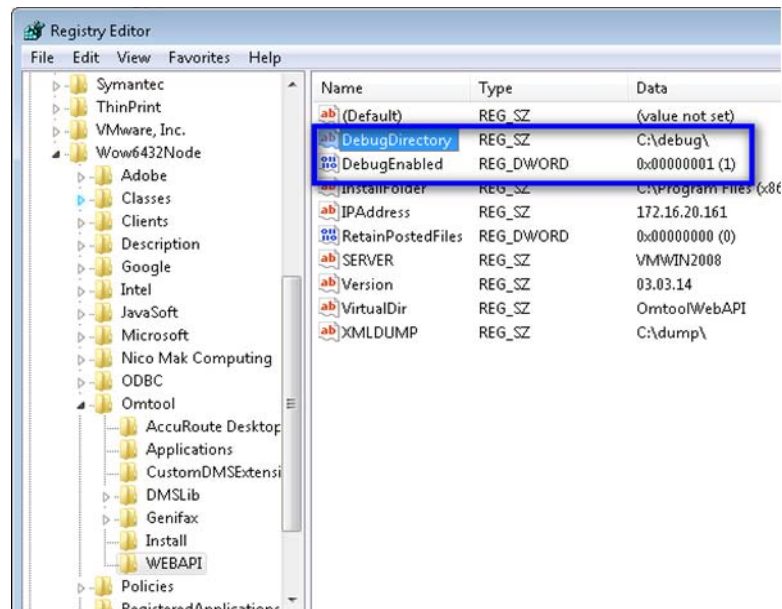
### Device logging

- 1 Open a command prompt.
- 2 Run the following command: `rsh <IPAddress> mmesg_auto 125`  
Where `IPAddress` is the IP address of the device that you are trouble shooting.

### Embedded AccuRoute for Intelligent Devices (Omtool ISAPI web server extension) logging

- 1 Open the Registry Editor.
- 2 Browse to `hkey_local_machine\software\Wow6432Node\Omtool\WEBAPI`.
- 3 Change the **DWORD** setting for **DebugEnabled** from `0` to `1`.
- 4 Create a directory under `C:\` call it **Debug**, specify a folder under **Debug** directory with the same name.
- 5 Stop and start World Wide Web Publishing Service.

This is how the **Registry Editor** should look:



---

## Modifying memory sizes of Heap, Stack and System Memory

- 1 Walk up to the Ricoh device and click **User Tools > Counters**.
- 2 Select **Extended Feature Settings**.
- 3 In the **Extended Feature Settings Menu** select **Extending Feature Setting**.
- 4 Select the **Administrator Tools** tab.
- 5 Select **Heap/Stack Size Settings**. A dialog open displaying heap, stack and total memory sizes.
- 6 Modify the heap and stack sizes or restore them to the default values as needed.

---

**Note** System memory sizes cannot be changed.

---

---

## Enabling Job Build

---

**Note** The following configuration should be performed every time a user needs to use set the Job Build mode on.

---

- 1 Navigate to:  
`C:\Program Files\omtool\Omttool Server\WebAPI\OmttoolWebAPI\Scripts\`
- 2 Open `Configuration.Ricoh.xml` for editing.
- 3 Locate the `<DeviceScanSettings>` node and then the `<ScanSourceMode>` node.
- 4 Modify the value for the `<ScanSourceMode>` node as shown below.  
`<ScanSourceMode>SADF</ScanSourceMode>`
- 5 After you finish making the necessary changes, save the file.
- 6 Restart the World Wide Web Publishing service.
- 7 Stop and restart the OmttoolXlet application at the device.  
Now the user will be prompted to add more pages when scanning.

## Configuring nested buttons

By default, Omtool feature buttons are displayed at the top level of the control panel of a device. You can, if needed, configure the top level button to be a group button under which there can be multiple buttons. For example, the top level button could be AccuRoute under which feature buttons like MyAccuRoute, Scan to Folder etc. can be nested together. Depending on the need, you can configure multiple levels which means that a group button can have another group button containing a group of feature buttons.

Nesting or collapsible buttons can have their custom images specified in the configuration xml file. For instructions, see [Configuring custom button images](#).

To configure nested buttons:

- 1 Navigate to:  

```
C:\Program Files\omtool\Omtool Server\WebAPI\OmtoolWebAPI\Scripts\
```
- 2 Open `Configuration.Ricoh.xml` for editing.
- 3 Configure the nested button using the following below:
  - ▶ Set the **Feature** attribute type to "Button".
  - ▶ Next configure the `<FeatureSpecific>` node to contain a list of the Feature id's that will be grouped within the button.

Here is an example of how to configure nested buttons. In this example, the top level button is AccuRoute and the Fax, SubAccuRoute and MyAccuRoute buttons are grouped within the top level AccuRoute button.

```
<Feature id="AccuRoute" type="Button" enabled="true" toplevel="true">
  <Image></Image>
  <Text>AccuRoute</Text>
  <Description>This is an AccuRoute button</Description>
  <AllowUseByNonAuthenticatedUsers>true</AllowUseByNonAuthenticatedUsers>
  <FeatureSpecific>
    <Fax/> <!-- Feature id for Fax feature -->
    <SubAccuRoute/> <!-- Feature id for SubAccuRoute feature -->
    <MyAccuRoute/> <!-- Feature id for MyAccuRoute feature -->
  </FeatureSpecific>
</Feature>
```

- 4 After you finish making necessary change, save the file.
- 5 Restart the World Wide Web Publishing service.
- 6 Stop and restart the OmtoolXlet application at the device.

---

## Configuring custom button images

You can configure custom button images for dynamic retrieval via a URL. These custom button images should all be stored in the **\Scripts** directory in order for them to be dynamically retrieved.

---

**Note** If custom images are not configured, the device displays the default AccuRoute button images. Current AccuRoute images are 92 pixels high and 62 pixels wide.

---

To configure custom button images:

- 1 Copy the custom images from a network folder, then go to the directory:  
`C:\Program Files\omtool\Omttool Server\WebAPI\OmttoolWebAPI\Scripts\  
Paste in the images.`
- 2 Define relative path to the images in the `Configuration.Ricoh.xml` file.
- 3 For example, to define a custom Public Distributions image, you will need to copy the custom image to the **\Scripts** directory. Then open the `Configuration.Ricoh.xml` file and define the relative path as **/Ricoh/Public.bmp**. Now the image will be retrieved from the following location:  
`http://<Servername>/OmttoolWEBAPI/scripts/Ricoh/Public.bmp`
- 4 After you finish making necessary change, save the file.
- 5 Restart the World Wide Web Publishing service.
- 6 Stop and restart the OmttoolXlet application at the device.

---

## Configuring prompts

You can configure prompts for Personal and Public Distributions, Routing Sheet, Fax, Scan to Folder and MyAccuRoute features using the `Configuration.Ricoh.xml` file. For the Public and Personal Distributions features, prompts can be configured in the xml file or on the AccuRoute server. The prompts that are configured on the server are also known as Embedded Directive Prompts. For more information, see [Embedded Directive Prompts](#).

Ricoh Embedded Software Architectures (ESA) Device Client supports user specified values for the following properties:

- File Name
- File Type

To configure prompts:

- 1 Navigate to:  
`C:\Program Files\omtool\Omttool Server\WebAPI\OmttoolWebAPI\Scripts\  
2 Open Configuration.Ricoh.xml for editing.`

- 3 Add a new `<Prompts>` node under the `<Omtool>` node.
- 4 Enter the following code using the following example as a guideline. In this example, the `DMSDocumentName` prompt is being set up.

```

<Prompts>
  <DMSDocumentName>
    <Display>Wizard</Display>
    <Label>DMS Document Name:</Label>
    <Type MinLength="5" MaxLength="15">Text</Type>
    <Instructions>Enter the dms document name</Instructions>
    <Values>
      <Value internal="" default="true">dmsdocument</Value>
    </Values>
    <Properties>
      <Property override="true">prDMSDocName</Property>
    </Properties>
  </DMSDocumentName>
</Prompts>

```

- 5 Search for the AccuRoute feature that should use this prompt. Only the Routing Sheet, Fax and MyAccuRoute features can use prompts configured in the xml file.

There is a `</Prompts>` placeholder. You can either overwrite it or add a new `<Prompts>` node.

- 6 Go to the `<Prompts>` node under the feature node.
- 7 Enter the following code:

```

<Prompts>
  <Prompt>DMSDocumentName</Prompt>
</Prompts>

```

- 8 After you finish making necessary change, save the file.
- 9 Restart the World Wide Web Publishing service.
- 10 Stop and restart the OmtoolXlet application at the device.



Now when a user goes to the device and scans a document using the AccuRoute feature for which the prompt was configured, a Wizard opens asking for the DMS Document Name.

**Table 6-1: Guidelines on creating prompts**

Property	Impact	Syntax
Prompt Name	Determines the value of the prompt	string
Display	Determines whether the overriding property would be displayed in a separate Wizard page.	Use the following value: Wizard
Label	Determines the title to be displayed for Wizard screen.	[Name of the label]
Instructions	Determines the instructions that are displayed on the Wizard screen	[description]
Type	Determines the data type of the prompts.  The attributes MinLength and MaxLength determine the minimum and maximum text data entry length respectively. If the default text value in the Configuration.Ricoh.xml file exceeds the MaxLength, then it chops off the length before displaying it.  <b>Note: These attributes are not applicable for GenericList data type.</b>	Use one of the following values: <ul style="list-style-type: none"> <li>Text</li> <li>GenericList</li> </ul>
Value	Determines the value to be displayed or selected on the Wizard screen based on the data type.	[Value]
	The attribute <b>internal</b> stores the corresponding internal code used within the Accuroute server.	[code value]
	The attribute <b>default</b> denotes that the corresponding value is the default. For GenericList data type, the value is selected by default on the screen. For Text data type, the corresponding value is displayed in the text box.	Use one of the following values: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul>
Property	Determines the property name that is used within the Accuroute server.	[Property name]
	The override attribute denotes that this is an overriding property.	User one of the following values: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul>

---

## Configuring print confirmation

---

**Note** Print confirmation requires that the Ricoh device supports PDF printing.

---

- 1 Navigate to:

`C:\Program Files\omtool\Omtool Server\WebAPI\OmtoolWebAPI\Scripts\`

- 2 Open `Configuration.Ricoh.xml` for editing.
- 3 Locate the `<PrintConfirmation>` node under each AccuRoute feature.
- 4 Modify the node as follows:

```
<PrintConfirmation>
    <Enabled>true</Enabled>
    <Template>PrintConfirmation</Template>
    <Name></Name>
    <Class>PrintConfirmationPDF</Class>
</PrintConfirmation>
```

Where:

- ▶ the default value of `<Enabled>` is `false`.
  - ▶ `<Template>` node is required for PDF printing only.
  - ▶ `<Name>` is the label for Print button. If empty, it is called "**Print Status**".
  - ▶ `<Class>` denotes text or PDF printing. The value `PrintConfirmationText` denotes text printing and `PrintConfirmationPDF` denotes PDF printing.
- 5 After you finish making necessary change, save the file.
  - 6 Restart the World Wide Web Publishing service.
  - 7 Stop and restart the OmtoolXlet application at the device.

# Section 7: Testing

This section includes:

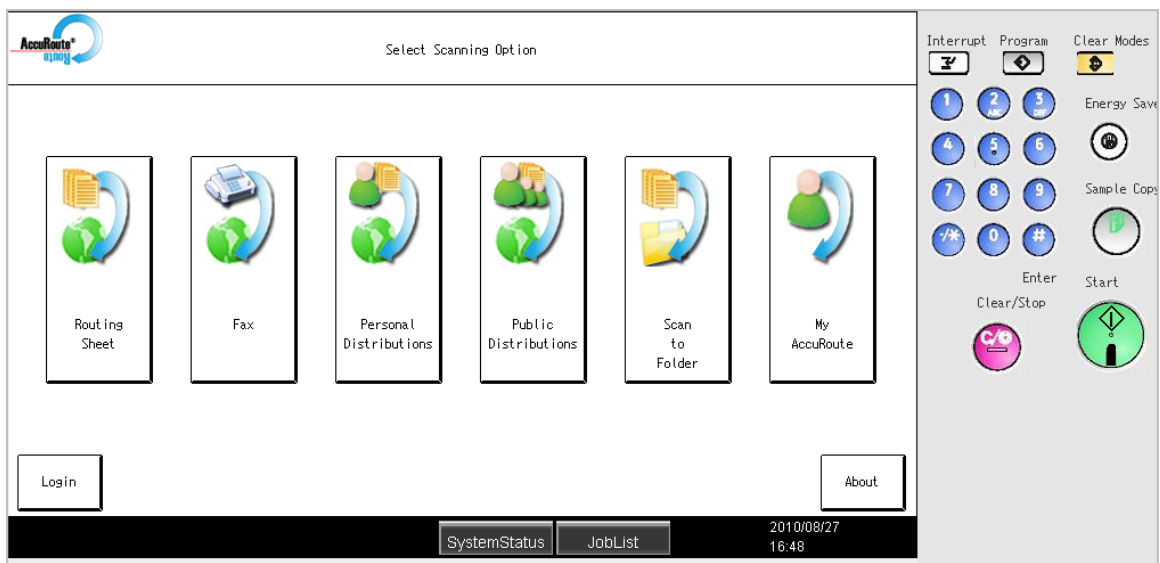
- [Testing the Routing Sheet feature \(7-1\)](#)
- [Testing the Fax feature \(7-5\)](#)
- [Testing the Personal Distributions feature \(7-10\)](#)
- [Testing the Public Distributions feature \(7-14\)](#)
- [Testing the Scan to Folder feature \(7-18\)](#)
- [Testing the My AccuRoute feature \(7-21\)](#)

## Testing the Routing Sheet feature

- 1 Create at least one Embedded Directive with your user account.

**Note** Applications that can create Embedded Directives include AccuRoute Desktop and the AccuRoute Web Client.

- 2 Generate and print a Routing Sheet using AccuRoute Desktop or the AccuRoute Web Client.
- 3 Assemble a test document and add the Routing Sheet to the front of the document. Then go to the device. The main screen looks like this:



#### 4 Press **Routing Sheet**.



#### 5 Load your document.

- ▶ **To use the automatic document feeder**, load the document into the automatic document feeder.
- ▶ **To use the exposure glass**, lift the cover, place an original on the exposure glass, close the cover.

#### 6 Press **Start** on the hard keypad.



- 7 The device scans the document. If the job build mode is on (ScanSourceMode is set to SADP in the configuration file or in the Settings screen), you will see the following message.



**Note** Depending on your device configuration, the screens you see after scan is complete may be different.

- 8 To scan additional pages, load the pages and press **Start**.

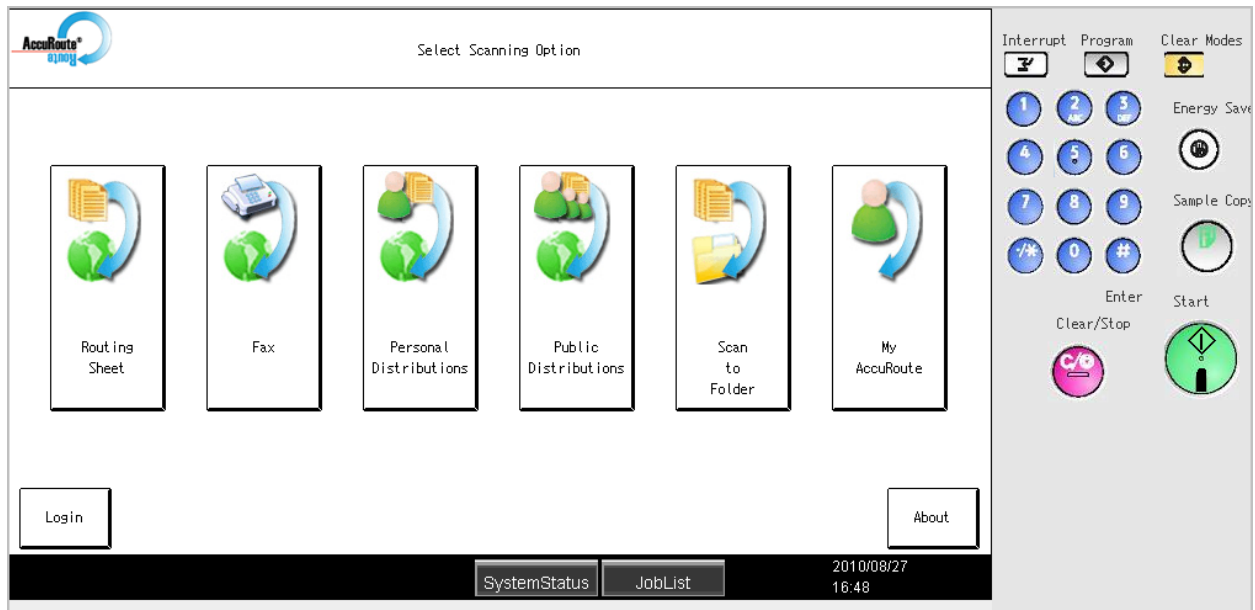
- 9 When scanning is complete, press # on the keypad. The device initiates a routing request and shows the following message.



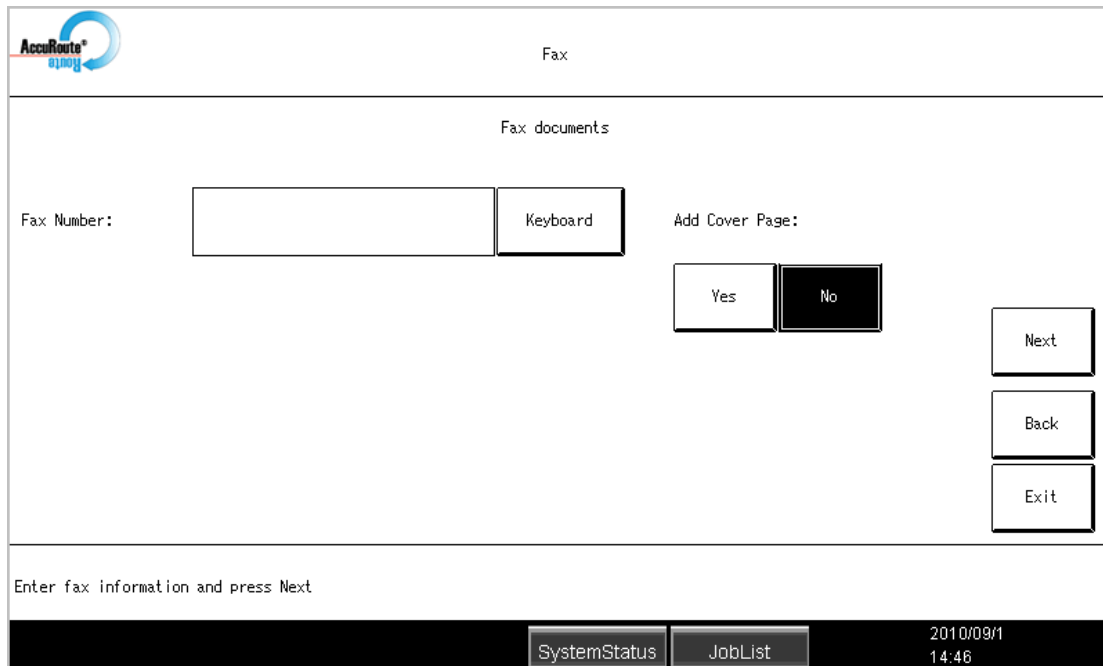
- 10 Press **OK** to go back to the main **AccuRoute** page.
  - 11 Wait a few minutes and check the recipient address or destination to confirm delivery.
- If the document does not arrive at the recipient address or destination, troubleshoot the setup. Go to [Section 8: Troubleshooting](#).

# Testing the Fax feature

- 1 Choose a working fax number for the test fax.
- 2 Assemble a test document and go to the device. The main AccuRoute screen looks like this:



- 3 Press **Fax**. The display panel shows options for the fax.



- 4 Enter the fax number following the instructions below.
  - a Press the **keyboard** beside the **Fax number** text box.
  - b Optionally use the hard keypad to enter the fax number.
- 5 To include a cover page, press **Yes** under **Add Cover Page**.

The screenshot shows a software interface for configuring a fax. At the top left is the 'AccuRoute' logo. The main title is 'Fax'. Below it, the section is labeled 'Fax documents'. There are four rows of input fields: 'Fax Number:', 'Sender Name:', 'Recipient Name:', and 'Subject:'. Each row has a text box and a 'Keyboard' button. To the right of the 'Sender Name' field, there are two buttons labeled 'Yes' and 'No' under the heading 'Add Cover Page:'. On the right side of the screen, there are three buttons: 'Next', 'Back', and 'Exit'. At the bottom, there is a footer bar with 'SystemStatus' and 'JobList' buttons, and the date/time '2010/09/1 15:12'. Below the input fields, the text 'Enter fax information and press Next' is displayed.

- a To enter the name of the sender, press the **keyboard** option beside the **Sender Name** text box. Use the keypad that opens to enter the name.
- b To enter the name of the recipient, press the **keyboard** option beside the **Recipient Name** text box. Use the keypad that opens to enter the name.
- c To enter a subject, press the **keyboard** option beside the **Subject** text box. Use the keypad that opens to enter the subject.



The Omtool Xlet uses the template “OmtoolCoverPage” when a cover page is requested. A template with this filename must exist on the AccuRoute server in ...\[Omtool\OmtoolServer\Languages\XXX\Templates](#). For more information, consult the Omtool Server Administrator help. (Go to [Related documentation](#) on I-8.)

- 6 Press **Next**. The summary page opens.



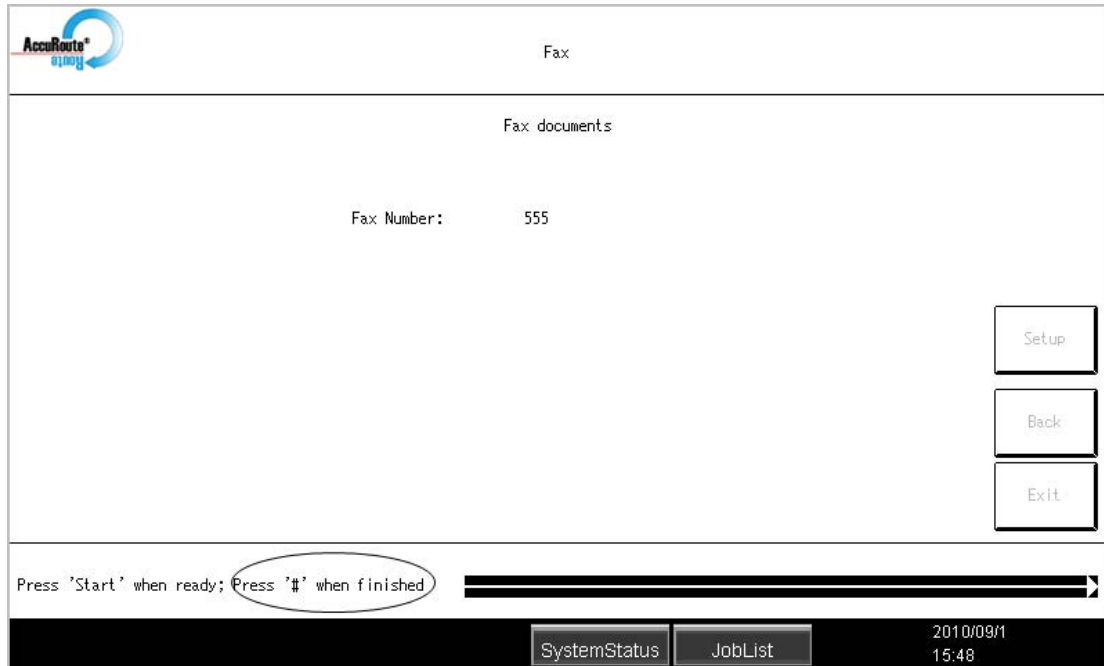
- 7 Load your document.

- ▶ **To use the automatic document feeder**, load the document into the automatic document feeder.
- ▶ **To use the exposure glass**, lift the cover, place an original on the exposure glass, close the cover.

- 8 Press **Start**.



The device scans the document. If the job build mode is on (that is the ScanSourceMode is set to SADF in the configuration file or in the Settings screen), you will see the following message.



**Note** Depending on your device configuration, the screens you see after scan is complete may be different.

- 9 To scan additional pages, load the pages and press **Start**.

- 10** When scanning is complete, press **#** on the keypad. The device initiates a routing request and shows the following message.



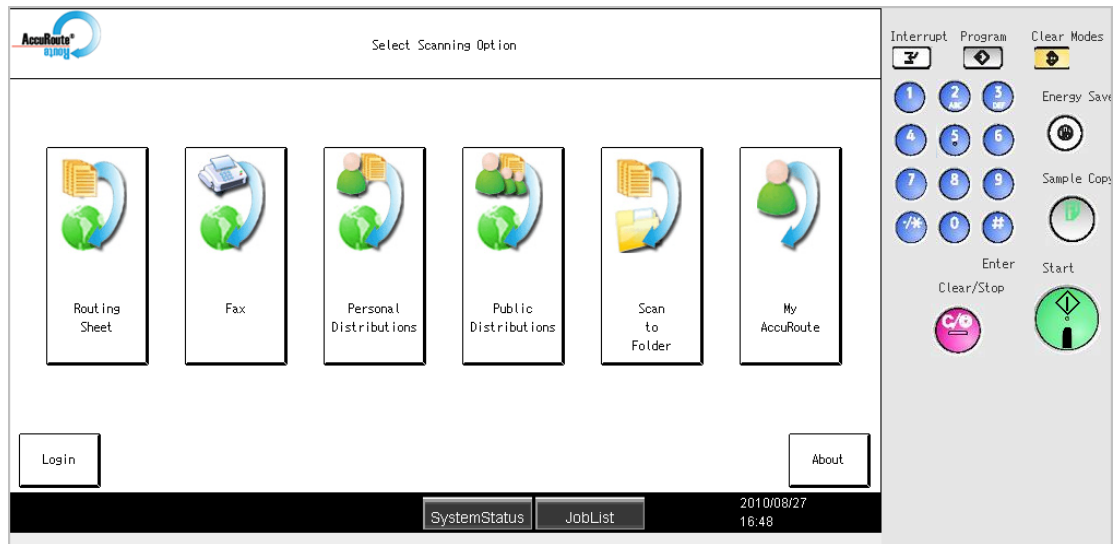
- 11** Press **OK** to go back to the main **AccuRoute** page.
- 12** Wait a few minutes and check the recipient address or destination to confirm delivery.  
If the document does not arrive at the recipient address or destination, troubleshoot the setup. Go to [Section 8: Troubleshooting](#).

# Testing the Personal Distributions feature

- 1 Create at least one Embedded Directive with your user account.

**Note** Applications that can create Embedded Directives include AccuRoute Desktop and the AccuRoute Web Client.

- 2 Assemble a test document and go to the device. The main AccuRoute screen looks like this:



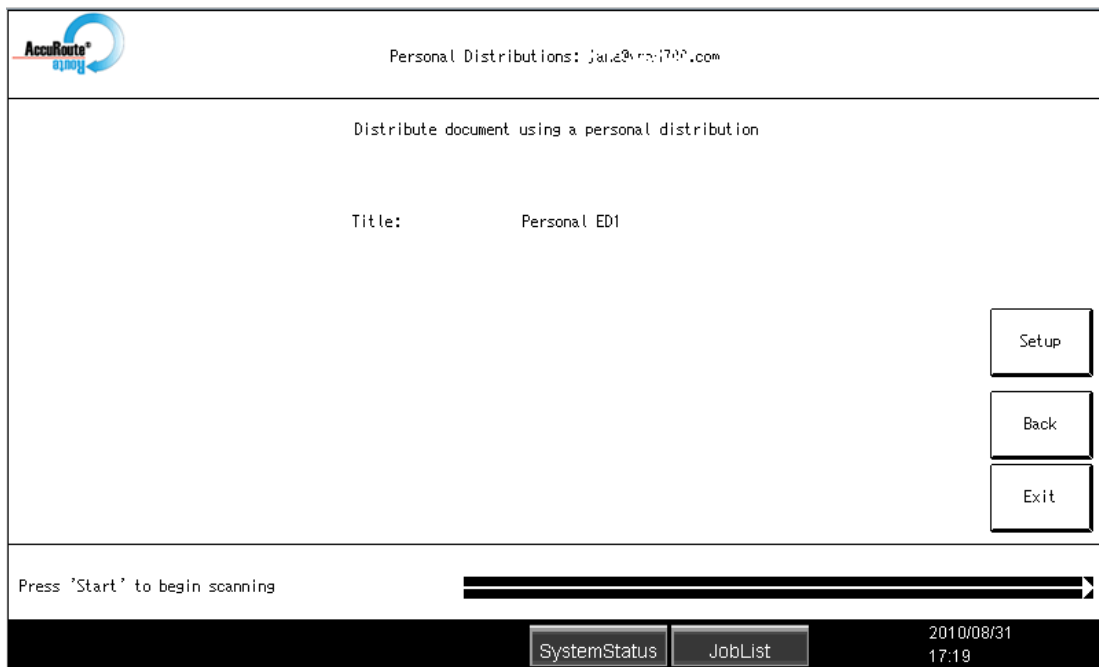
- 3 Press **Personal Distributions**. The device prompts you to log in.

If you are configured to use non authenticated email for example, you will see the following page.

- 4 Log in using the credentials you used to create the Embedded Directive by following the steps below:
  - a For **Domain** text box, verify the correct domain name is filled in automatically. If not, modify it by pressing **keyboard** and using the electronic keyboard that opens.
  - b For the Email text box, press **keyboard** and entering your email address using the electronic keyboard that opens.
  - c Press **OK**.

The device shows your personal distribution options.

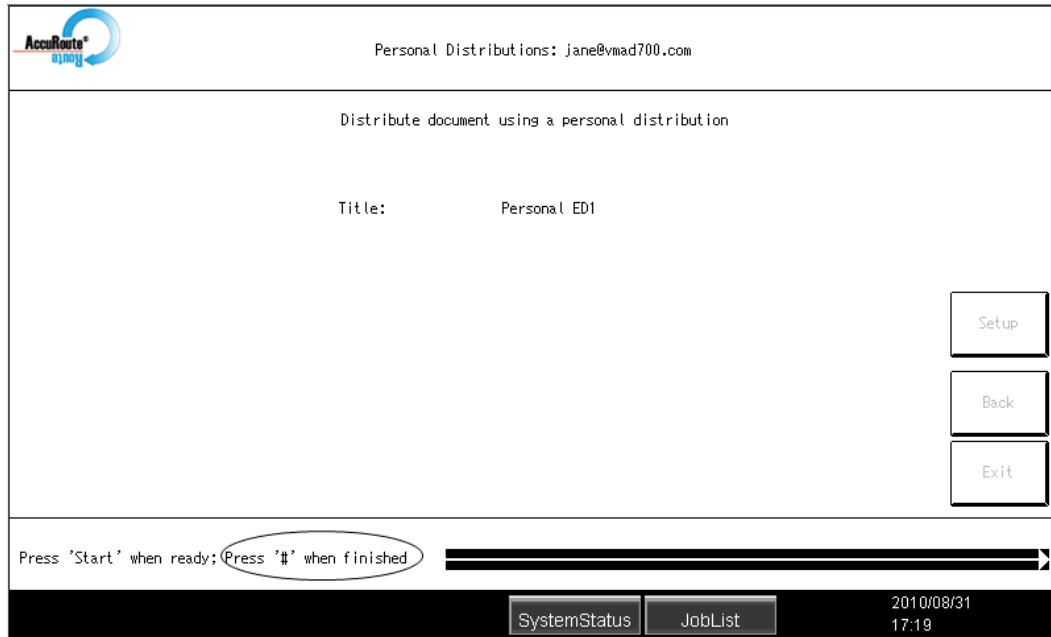
- 5 Select a personal distribution. The display panel shows a summary of this document distribution option.



- 6 Load the document:
  - o **To use the automatic document feeder:** Load the document into the automatic document feeder.
  - o **To use the exposure glass:** Lift the cover, place an original on the exposure glass, close the cover.
- 7 Press **Start**.



The device scans the document. If the job build mode is on (that is the ScanSourceMode is set to SADF in the configuration file or in the Settings screen), you will see the following message.



**Note** Depending on your device configuration, the screens you see after scan is complete may be different.

- 8 To scan additional pages, load the pages and press **Start**.
- 9 When scanning is complete, press **#** on the keypad. The device initiates a routing request and shows the following message.



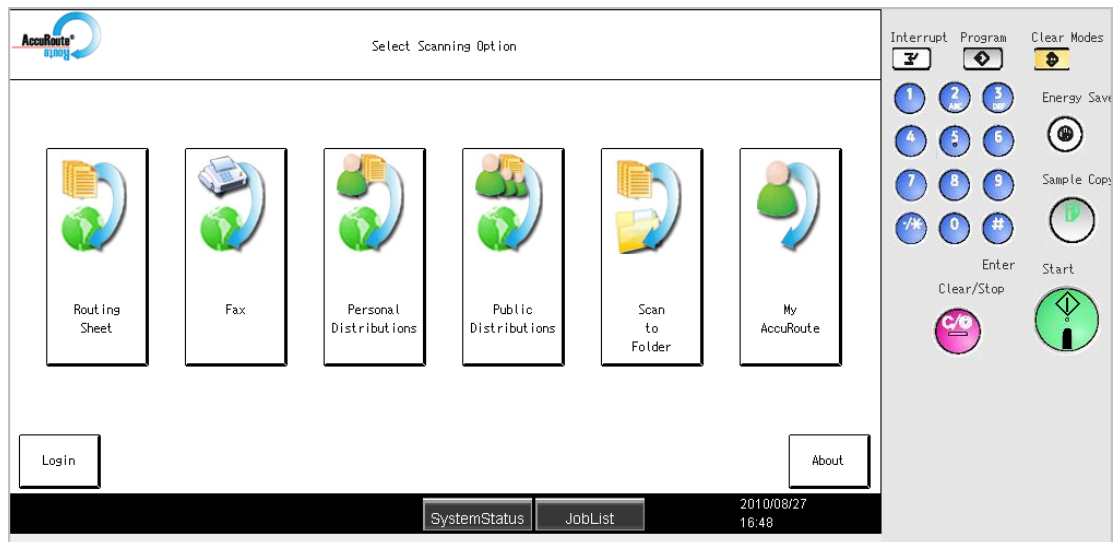
- 10 Press **OK** to go back to the main **AccuRoute** page.
- 11 Wait a few minutes and check the recipient address or destination to confirm delivery.
- 12 If the document does not arrive at the recipient address or destination, troubleshoot the setup. Go to [Section 8: Troubleshooting](#).

## Testing the Public Distributions feature

- 1 Create at least one Embedded Directive with the user account that is associated with the Public Distributions feature. The Embedded Directive must allow multiple use.

**Note** Applications that can create Embedded Directives include AccuRoute Desktop and the AccuRoute Web Client.

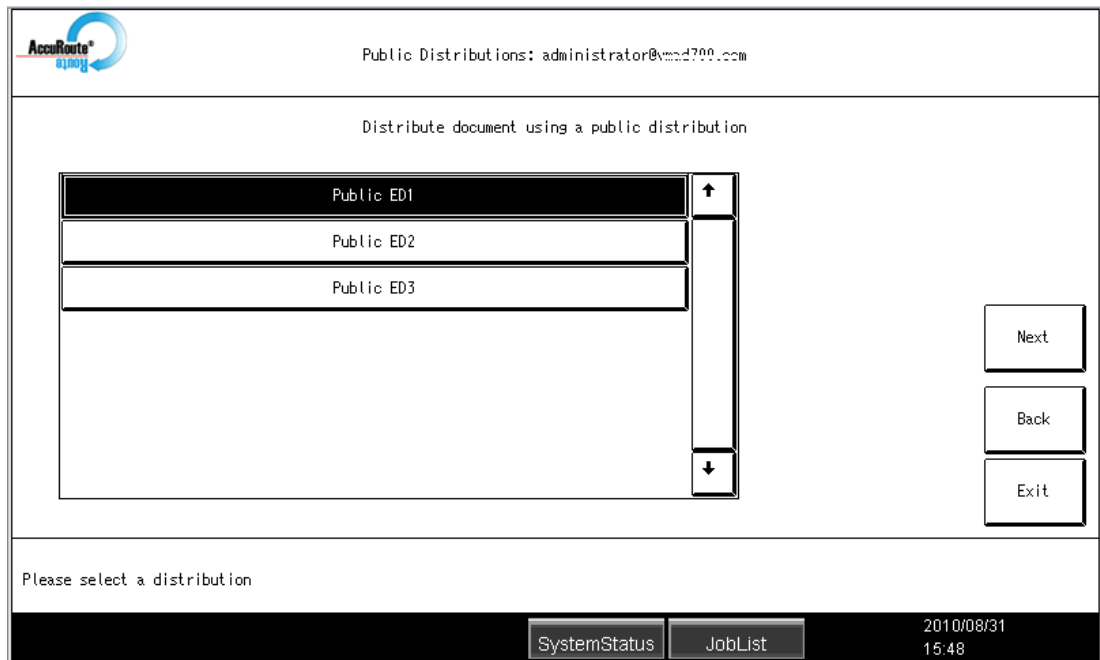
- 2 Assemble a test document and go to the device. The main AccuRoute screen looks like this.



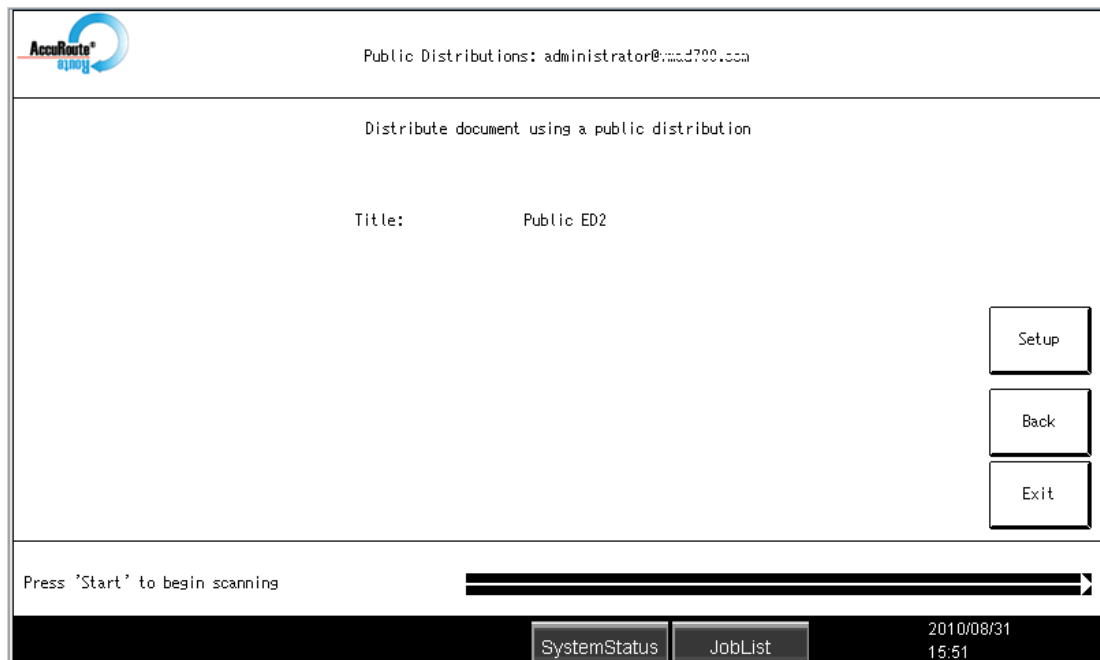
- 3 Press **Public Distributions**.



The device shows the public distribution options.



- 4 Select a public distribution option. The display panel shows a summary of this document distribution option.



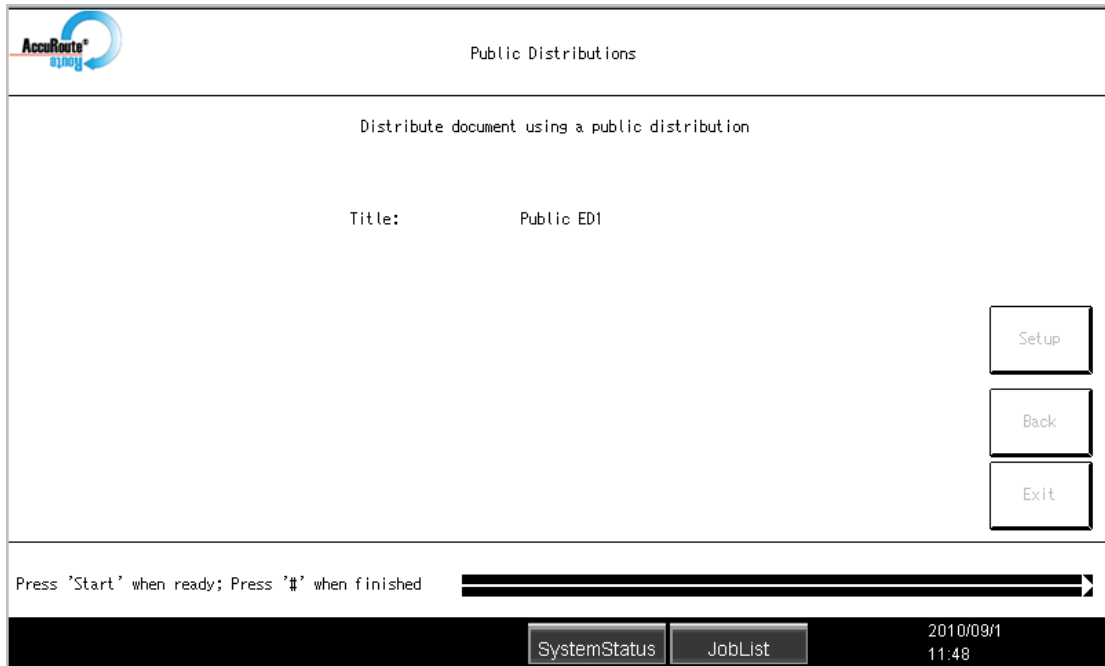
- 5 Load your document.
  - ▶ **To use the automatic document feeder**, load the document into the automatic document feeder.

- ▶ **To use the exposure glass**, lift the cover, place an original on the exposure glass, close the cover.

**6 Press Start.**



- 7** The device scans the document. If the job build mode is on (that is the ScanSourceMode is set to SADF in the configuration file or in the Settings screen), you will see the following message.



**Note** Depending on your device configuration, the screens you see after scan is complete may be different.

- 8** To scan additional pages, load the pages and press **Start**.

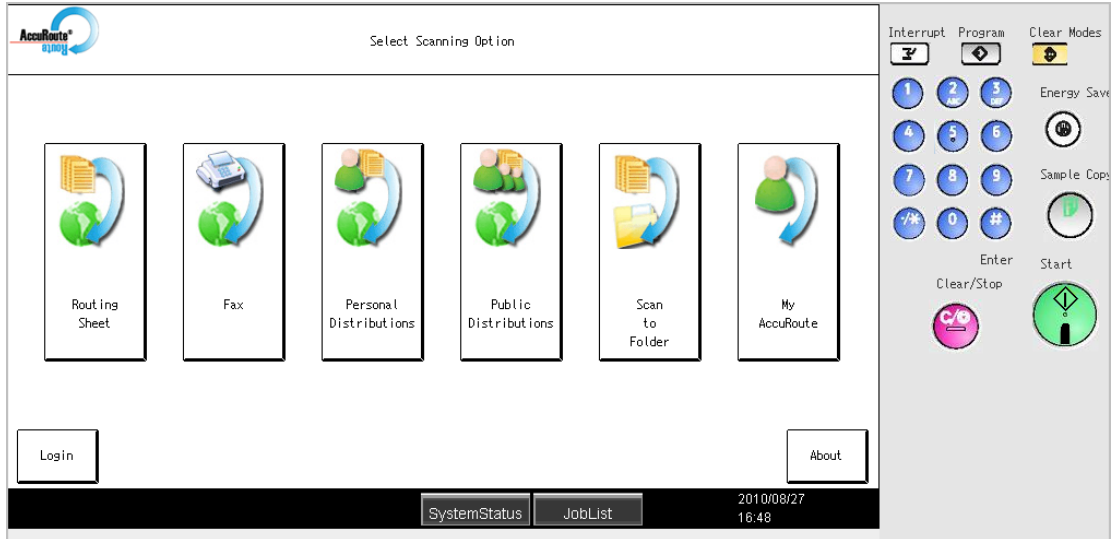
- 9 When scanning is complete, press # on the keypad. The device initiates a routing request and shows the following message.



- 10 Press **OK** to go back to the main **AccuRoute** page.
- 11 Wait a few minutes and check the recipient address or destination to confirm delivery.  
If the document does not arrive at the recipient address or destination, troubleshoot the setup. Go to [Section 8: Troubleshooting](#).

# Testing the Scan to Folder feature

1 Assemble a test document. Then go to the device. The main screen looks like this:



2 Press **Scan to Folder**.



3 Load your document.

- ▶ **To use the automatic document feeder:** Load the document into the automatic document feeder.

- ▶ **To use the exposure glass:** Lift the cover, place an original on the exposure glass, close the cover.

- 4 Press **Start** on the hard keypad.



- 5 The device scans the document. If the job build mode is on (that is the ScanSourceMode is set to SADF in the configuration file or in the Settings screen), you will see the following message.



**Note** Depending on your device configuration, the screens you see after scan is complete may be different.

- 6 To scan additional pages, load the pages and press **Start**.

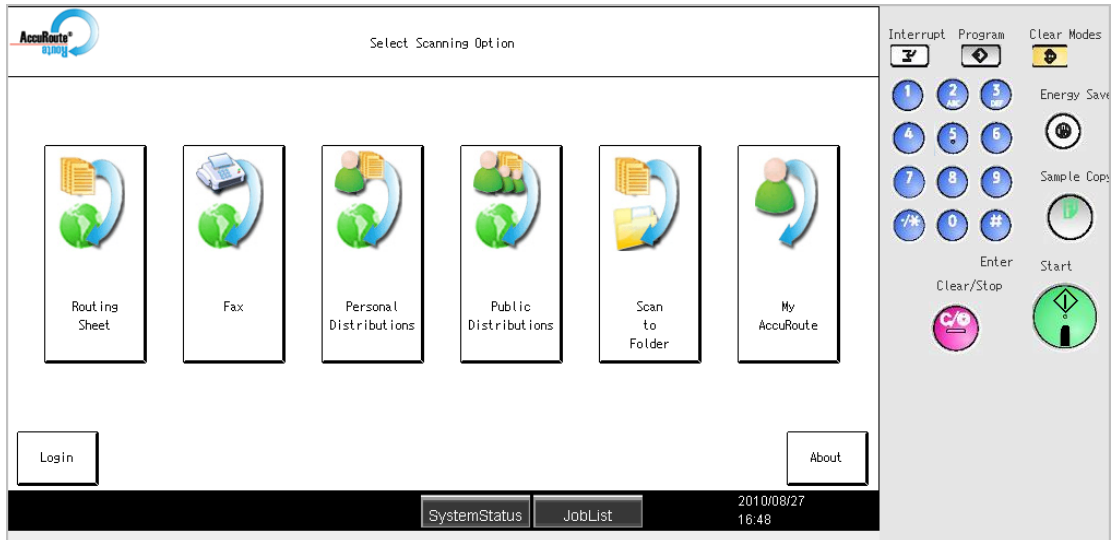
- 7 When scanning is complete, press # on the keypad. The device initiates a routing request and shows the following message.



- 8 Press **OK** to go back to the main **AccuRoute** page.
  - 9 Wait a few minutes and check the recipient address or destination to confirm delivery.
- If the document does not arrive at the recipient address or destination, troubleshoot the setup. Go to [Section 8: Troubleshooting](#).

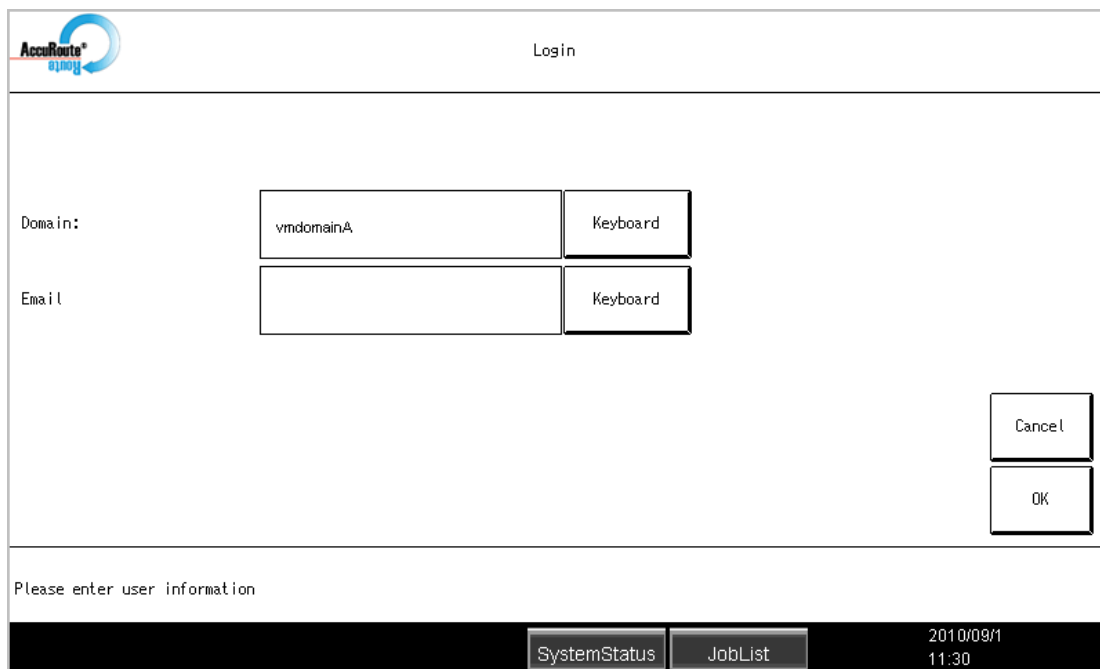
# Testing the My AccuRoute feature

- 1 Verify that MyAccuRoute has been configured for your user account. For more information, consult the AccuRoute Desktop installation guide and AccuRoute Desktop user guide. Go to [Related documentation](#) on I-8.
- 2 Assemble a test document and go to the device. The main AccuRoute screen looks like this:



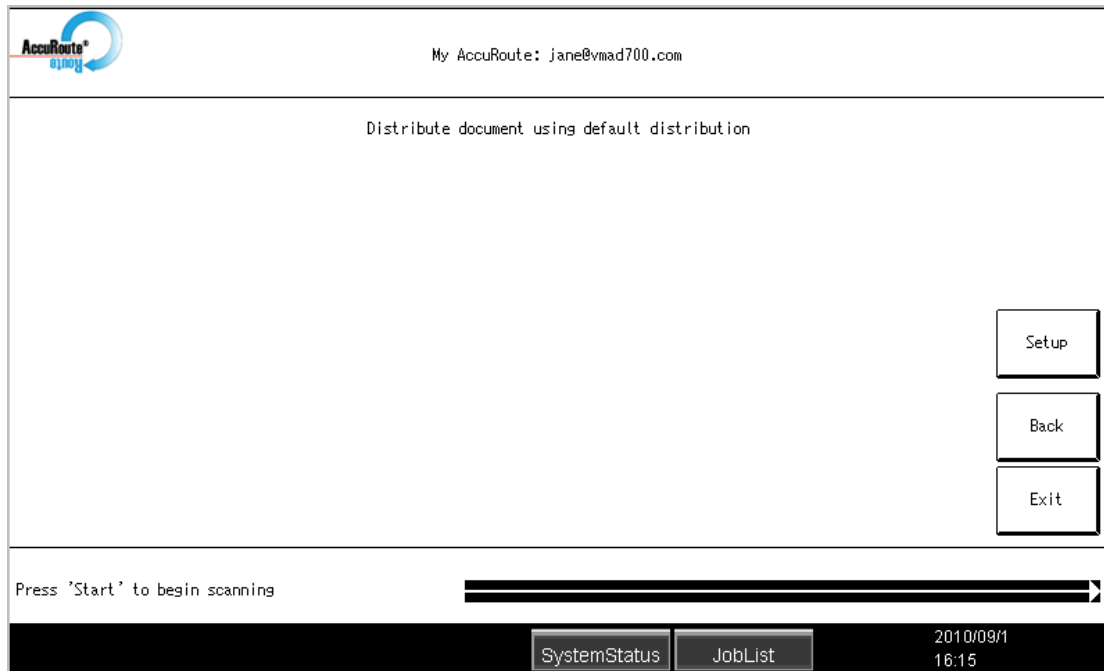
- 3 Press **MyAccuRoute**. The device prompts you to log in.

If you are configured to use non authenticated email, for example, you will see the following page.



- 4 Log in with using the account credentials you used to create the Embedded Directive by following the steps below:
  - a For **Domain** text box, verify the correct domain name is filled in automatically. If not, modify it by pressing **keyboard** and using the electronic keyboard that opens.
  - b For the Email text box, press **keyboard** and entering your email address using the electronic keyboard that opens.
  - c Press **OK**.

You see the summary page.



- 5 Load the document:
  - ▶ **To use the automatic document feeder:** Load the document into the automatic document feeder.
  - ▶ **To use the exposure glass:** Lift the cover, place an original on the exposure glass, close the cover.



## 6 Press **Start**.



The device scans the document. If the job build mode is on (that is the ScanSourceMode is set to SADF in the configuration file or in the Settings screen), you will see the following message.



**Note** Depending on your device configuration, the screens you see after scan is complete may be different.

## 7 To scan additional pages, load the pages and press **Start**.

- When scanning is complete, press **#** on the keypad. The device initiates a routing request and shows the following message.



- Press **OK** to go back to the main **AccuRoute** page.
- Wait a few minutes and check the recipient address or destination to confirm delivery.  
If the document does not arrive at the recipient address or destination, troubleshoot the setup. Go to [Section 8: Troubleshooting](#).

# Section 8: Troubleshooting

This section includes:

[Detecting workflow issues](#) (8-1)

[Troubleshooting the delivery mechanism](#) (8-2)

[Troubleshooting the message on the AccuRoute server](#) (8-2)

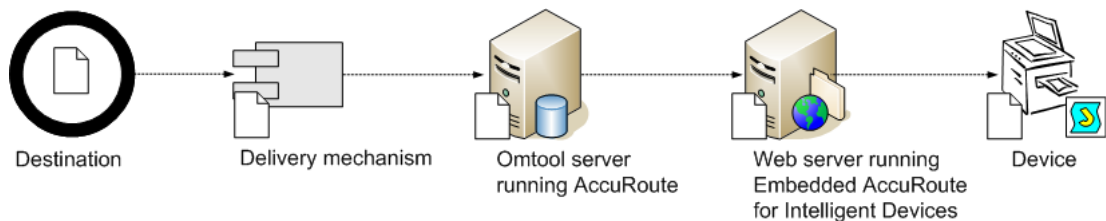
[Troubleshooting the multifunction device](#) (8-4)

Complete these procedures in the order they appear. If you cannot resolve the issue, contact Omtool. (Go to [Omtool support and sales](#) on the inside front cover.)

---

## Detecting workflow issues

After a document has been scanned on the device, the document should arrive at its destination momentarily but can take up to several minutes when the server workload is high. If a document does not arrive at its destination within a reasonable period of time, begin troubleshooting the environment. Omtool recommends troubleshooting the workflow in reverse order because this is the easiest way to troubleshoot the setup on your own.



The easiest way to troubleshoot a workflow issue is to follow the document through the workflow in reverse order. When a document does not arrive at its destination, troubleshooting starts with the delivery mechanism such as the mail server or DMS application, and then continues to the AccuRoute server, the web server, and the device.

**Figure 8-1: Troubleshooting the workflow in reverse order**

To begin troubleshooting, go to [Troubleshooting the delivery mechanism](#) (8-2).

## Troubleshooting the delivery mechanism

When the AccuRoute server finishes processing a message, an outbound connector routes the message directly to its destination or passes the message onto a delivery agent. If a delivery agent such as a mail server or DMS application is involved in the delivery process, do some basic troubleshooting on the delivery agent. If the delivery agent is functioning correctly, troubleshoot the message on the AccuRoute server. Continue to [Troubleshooting the message on the AccuRoute server](#).

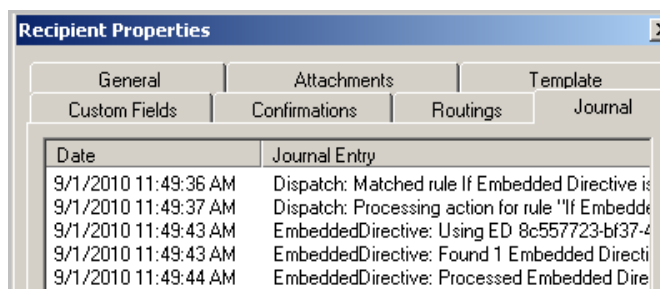
## Troubleshooting the message on the AccuRoute server

There are two important questions that can be resolved when troubleshooting a message on the AccuRoute server:

- Was the message submitted to the AccuRoute server?
- Assuming the message was submitted to the AccuRoute server, what caused the delivery failure? The state and status of the message, along with details in the message journal, provide important clues.

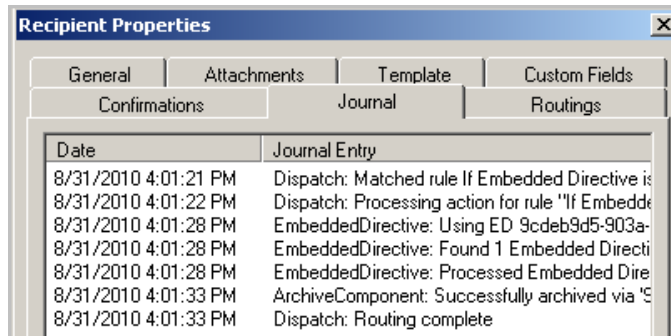
Start troubleshooting by trying to locate the message on the AccuRoute server:

- 1 Click **Start > All Programs > Omtool > AccuRoute Server > AccuRoute Server Administrator**.
- 2 In the console tree, expand the AccuRoute Server Administrator and go to **[ServerName] > Messages**.
- 3 Look for the message in the In Process queue:
  - a Click **In Process**.
  - b View **All Items**.
  - c Sort all items by the date submitted.
  - d Look for the message.
    - ▲ **Message found** - View the message journal to determine the current state and status of the message. Then monitor the components and confirm that the message is moving through the processing queues on the AccuRoute server. If the AccuRoute server stops processing the message (for example, the message seems to be stuck in a processing queue), restart all Omtool services.



- ▲ **Message not found** - Go to step 4 and look for the message in the History queue.

- 4 Look for the message in the History queue:
  - a Click **History**.
  - b View **All Items**.
  - c Sort all items by the date submitted.
  - d Look for the message.
    - ▲ **Message found** - View the message journal to determine the cause of the failure.



If the message failed, correct the issue and send the message again. Contact Omtool if you are unable to resolve the issue. (Go to [Omtool support and sales](#) on the inside front cover.)

If the journal states that AccuRoute server delivered the message but it still has not arrived at its destination, this indicates that the AccuRoute server transferred the message to the delivery agent successfully. Do some advanced troubleshooting on the delivery agent to determine why the message is not being delivered to its destination. Contact Omtool if you are unable to resolve the issue. (Go to [Omtool support and sales](#) on the inside front cover.)

- ▲ **Message not found** - Continue to [Troubleshooting the web server](#).

## Troubleshooting the web server

The Embedded AccuRoute for Intelligent Devices installation guide has instructions on troubleshooting the web server. (Go to [Related documentation](#) on I-8.)

If you cannot identify any issues with the web server, troubleshoot the device. Continue to [Troubleshooting the multifunction device](#).

---

## Troubleshooting the multifunction device

After troubleshooting all other components in the workflow, troubleshoot the device using the information in the following table.

**Table 8-1: Common methods of troubleshooting the multifunction device**

Issue	Resolution
The Omtool Xlet is stopped.	Start the Omtool Xlet using the Application Manager.
The device is not working properly for reasons unrelated to the Omtool Xlet.	Consult the documentation on the device for troubleshooting information.

# Appendix A: Setting up HTTPS with Windows 2008

This section includes:

[Installing Embedded AccuRoute for Ricoh ESA](#) (A-1)

[Creating a self-signed certificate](#) (A-2)

[Creating an SSL binding](#) (A-3)

[Verifying the SSL binding](#) (A-4)

[Exporting and saving the certificate](#) (A-4)

[Adding the certificate to the Ricoh ESA Device Client](#) (A-4)

---

**Important** When creating a Self Signed Certificate it automatically uses the fully qualified domain name as the "Issued to" and "Issued by" address. Therefore all addresses that are used when configuring https with a self cert must use the fully qualified domain name.

---

---

## Installing Embedded AccuRoute for Ricoh ESA

- I Navigate to the following directory for the setup files.:

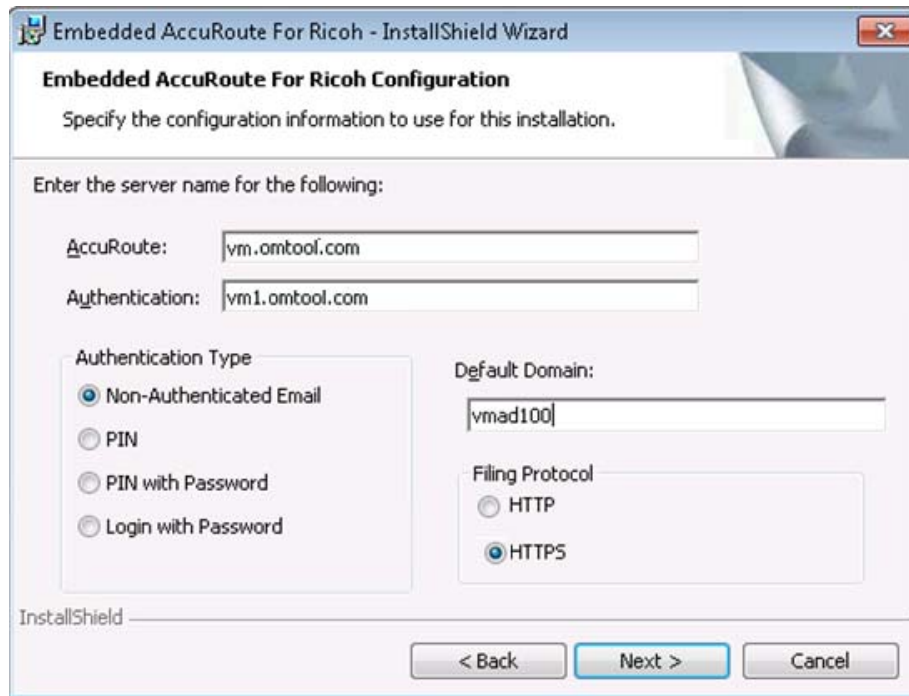
`C:\Program Files (x86)\omtool\Omttool Server\Clients\Ricoh`

For installation instructions, see [Installing Ricoh ESA Device Client v1.4](#) (3-4).

---

**Note** During installation, use the fully qualified domain name for both AccuRoute Server as well as the Authentication server as shown below.

---

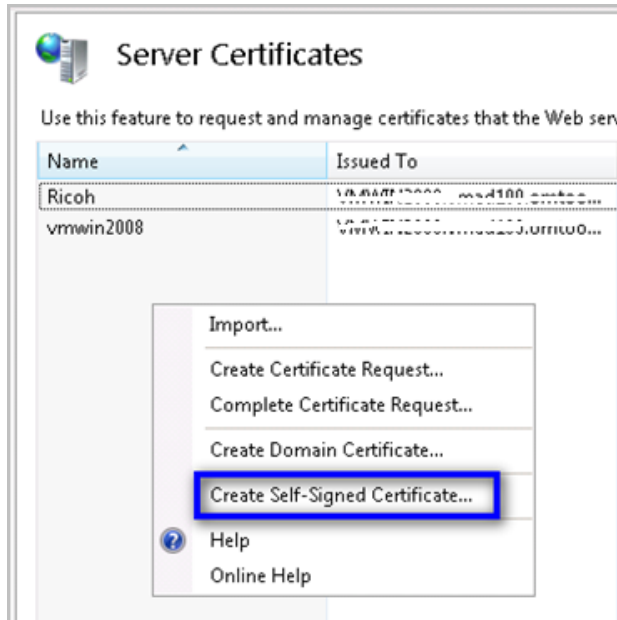


## Creating a self-signed certificate

- 1 Open **Internet Information Services Manager**.
- 2 Click on the local machine and double click **Server Certificates** option under **IIS** to open the **Server Certificates** dialog.



- 3 Right click on the **Server Certificates** dialog and choose **Create Self Signed Certificate** from the drop down menu options.



- 4 In the **Specify Friendly Name** page that opens, go to the **Specify a friendly name for the certificate** text box and enter an appropriate name.

---

**Note** The friendly name must match the name of your system. The self signed certificate will be created based on the fully qualified domain name.

---

---

## Creating an SSL binding

- 1 Open **Internet Information Services Manager**.
- 2 Click on the **Default** website and locate **Bindings** under **Edit Site** (top right hand corner of window)
- 3 Click on **Bindings**. The **Site Bindings** dialog opens.
- 4 Click on type **HTTPS** and choose **Edit**. The **Edit Site Bindings** dialog opens.
- 5 In the SSL certificate drop-down choose the certificate that was created earlier and click **OK**.
- 6 Click **Close**.

## Verifying the SSL binding

- 1 In **Internet Information Services Manager**, expand the tree view and select **OmtoolWebAPI**.
- 2 Click on **Browse \*:443 (https)** under **Manage Application/Browse Application** (located on top right hand corner of the IIS dialog).
- 3 A message stating `There is a problem with this website's security certificate` opens. This is expected and you should continue configuring.
- 4 Click `Continue to this website` option.
- 5 Verify that IIS 7 dialog opens.

---

## Exporting and saving the certificate

- 1 In the **Server Certificate** dialog right click on the certificate and choose **View**.
- 2 In the **Certificate** dialog choose the **Details** tab and choose **Copy to File**. The **Certificate Export Wizard** opens.
- 3 Click **Next**.
- 4 In the **Private Key Dialog** select **No, do not export the private key**, click **Next**.
- 5 In the **File Formats** dialog choose **Base-64 encoded X.509 (.CER)**, click **Next**.
- 6 In the **Filename** dialog browse to a location to save the .cer file and give it a filename, select **Save** and then **Next**.
- 7 Verify the settings and choose finish. The export is complete.

---

## Adding the certificate to the Ricoh ESA Device Client

- 1 Navigate to:  
`C:\Program Files (x86)\omtool\ISAPIClients\Ricoh\XletRepository`
- 2 Using **WinZip**, open the `33960102.zip` file.
- 3 Extract the `cacerts.jar` file on to your local system.
- 4 Using WinZip, open the `cacerts.jar` file.
- 5 Locate the `jdk-certs` file within the `cacert.jar` file and extract it to your local system.
- 6 Create a folder at the root of **C:\** (for example, `C:\certs`)
- 7 Place the certificate file and the `jdk-cacerts` file within the newly created folder

- 8 Using the Keytool:
  - a Install the Java environment on the system.
  - b Add the following paths to the Path Variable of the systems Environmental Variables:  
`C:\Program Files (x86)\Java\j2re1.4.2_19\bin;C:\Program Files (x86)\Java\j2re1.4.2_19\lib; C:\Program Files (x86)\Java\j2re1.4.2_19\bin;`
  - c Open the command prompt and change the directory to the newly created folder (for example, `C:\certs`).
  - d Run the following command:  
`keytool -keystore jdk-cacerts -storepass changeit -import -alias <commonname> -file <certificatename> -trustcacerts`  
where `<commonname>` can be anything and `<certificatename>` matches the name of the certificate.
    - a Choose **Yes** to import the certificate.
- 9 Add the jdk-cacerts back into cacerts.jar following the instructions below:
  - a Open `cacerts.jar` using WinZip.
  - b Delete the `jdk-cacerts` file located within `cacerts.jar`.
  - c Right click on `jdk-cacerts` and choose **WinZip>Add to Zip File**.
  - d Add the file to the `cacerts.jar` file.
  - e In the `cacerts.jar` file, verify that the `jdk-cacerts` file has the proper date and time stamp.
  - f Open the `33960192.zip` file and delete the `cacerts.jar` file.
  - g Right click on `cacerts.jar` and choose **WinZip >Add to Zip File**.
  - h In the **Add to Archive** section select **Open** and browse to:  
`C:\Program Files (x86)\omtool\ISAPIClients\Ricoh\XletRepository\33960192`
  - i Select **Open**.
  - j Verify that the path is correct and select **Add**.
  - k In the `33960192.zip` file, verify that the `cacerts.jar` file has the proper date and time stamp.
- 10 Verify the fully qualified domain name is correct in OmtoolXlet.dalp following the instructions below:
  - a Open the `33960192.zip` file, locate **OmtooXlet.dalp** and extract it.
  - b Open the extracted OmtoolXlet.dalp file.
  - c Change `-servername` from an IP address to a fully qualified domain: For example:  
`<argument>-servername:100.00.00.000</argument>`
  - d Add the **OmtooXlet.dalp** back into the `33960192.zip` file.
- 11 Enable the **Require SSL** option for the WebSite following the instructions below:
  - a Open **Internet Information Services Manager**.
  - b Expand `\local machine\Default WebSite` and choose **OmtoolWebAPI**.

- c Open **SSL Settings** and check the **Require SLL** option.
  - d Under client certificates choose **Ignore**.
- 12 Change the DNS settings on the device following the instructions below:
- 13 On the Ricoh device change the following settings under **User Tools\System Settings\Interface Settings**.
- 14 Select **DNS configuration** and enter the DNS IP address.
- 15 Select **Domain Name** and enter the fully qualified domain name for the DNS server.
- 16 Lastly, push the Ricoh Embedded Software Architecture (ESA) Device Client to the Ricoh device using the AccuRoute Server Administrator.

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*Important* If Ricoh Embedded Software Architecture (ESA) Device Client is already installed on the device, it must be uninstalled and then reinstalled to for the changes to be reflected.

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# Appendix B: Configuring with AccuRoute Server v4.0

## Configuring Ricoh ESA Device Client for AccuRoute Server v4.0:

- 1 Run the Ricoh Server Update for Ricoh v1.4 on the AccuRoute Server v4.0.
- 2 Go to the Ricoh Clients directory:

```
C:\Program Files (x86)\Omtool\Omtool Server\Clients\Ricoh\
```

- 3 Run `setup.exe`. Fill out all information for the client and complete the installation.
- 4 Once the installation is complete go to:

```
C:\Program Files (x86)\Omtool\Omtool Server\WebAPI\WebAPI\Scripts\Scripts
```

Move the `Configuration.Ricoh.xml` file to the previous scripts directory:

```
C:\Program Files (x86)\Omtool\Omtool Server\WebAPI\WebAPI\Scripts\
```

- 5 Open the `Configuration.Ricoh.xml` file and make the following changes:

- a Change the URL of the ServiceURL node from:

```
<ServiceURL>http://[AccuRoute_server_ip_address]/OmtoolWEBAPI/scripts/OmISAPIU.dll</ServiceURL>
```

to:

```
<ServiceURL>http://[AccuRoute_server_ip_address]/WEBAPI/scripts/OmISAPIU.dll</ServiceURL>
```

- b Change the URL of the FileTransferURL from:

```
<FileTransferURL>http://[AccuRoute_server_ip_address]/OmtoolWEBAPI/FileTransfer/</FileTransferURL>
```

to:

```
<FileTransferURL>http://[AccuRoute_server_ip_address]/WEBAPI/FileTransfer/</FileTransferURL>
```

- c Save the changes to the `Configuration.Ricoh.xml` file.

- 6 Make changes to the `OmtoolXlet.dalp` file:

- a Unzip the `33960192.zip` file located in:

```
C:\Program Files (x86)\Omtool\ISAPIClients\Ricoh\XletRepository
```

- b In WinZip, locate the `OmtoolXlet.dalp` file within the Zip file and extract it to a location (this can be the desktop or any other folder).

- c Open the `OmtoolXlet.dalp` file using Notepad and make the following changes:
  - ▲ **Service Path** - Change the service path section to point to the proper directory and DLL. Change to:

```
<argument>-servicepath:/WebAPI/scripts/omisapiu.dll</argument>
```
  - ▲ **Display Mode** - Change the display mode to whatever display mode is supported by the device. For example:

```
<display-mode size="WVGA" />
```
  - ▲ **Group Name** - A group name in Ricoh ESA v1.4 is referred to as a SourceName. In the following, Ricoh is the group name created in Admin:

```
<argument>-sourcename:Ricoh</argument>
```
- d Save the `OmtoolXlet.dalp` file once the changes are made.
- e Add the `OmtoolXlet.dalp` file back to the `33960192.zip` file.
- 7 Install Ricoh I.4 to the device using the Embedded Web Server of the Device or using an SD card (refer to the Ricoh documentation for details).
- 8 Once the application is installed on the device start the application in the Extended Features Settings of the device.