



WHITE PAPER

What You Need to Know about Upgrading from Captaris® RightFax® 9.0 to RightFax 9.3

TABLE OF CONTENTS

INTRODUCTION.....	3
SUPPORTED VERSIONS OF SQL SERVER.....	4
Received Document Queue in the SQL Database.....	4
RIGHTFAX EVENT QUEUE IN THE SQL DATABASE	4
SUPPORT FOR ISA FAX BOARDS.....	5
SUPPORT FOR EICON FAX BOARDS	5
NEW METHOD FOR SERVER SIDE APPLICATION CONVERSION	5
NEW EMAIL GATEWAY OPTIONS	5
INTEGRATION WITH XEROX DEVICES VIA THE WORKSERVER	5
INTEGRATION WITH HP DEVICES VIA THE WORKSERVER	5
NEW PREREQUISITES INSTALLATION PROGRAM.....	6
NEW DIRECTORY SYNCHRONIZATION SERVICE	6
Caution: Settings Will be Unavailable upon Upgrade.....	7
Upgrading from RightFax 9.0 with Default Profiles	8
Upgrading from RightFax 9.0 with Custom Synchronization Profiles	9
Creating a Custom XSL Mapping.....	9
Configuring Captaris Sync Module	10
UPGRADING THE RIGHTFAX CLIENT APPLICATIONS FOR WINDOWS FROM PREVIOUS RELEASES	10
What Versions of the Client Applications Can be Upgraded?	11
UPGRADING THE RIGHTFAX SERVER FROM PREVIOUS RELEASES.....	11
What Versions Can be Upgraded?	11
Upgrade Scenarios.....	11
In-place Upgrade	12
Install on a New Server and Migrate Data.....	12
Upgrade to a Shared SQL Database.....	14
SIMULATING THE SENDING AND RECEIVING OF FAXES.....	14
Testing Fax Sending	14
Testing Fax Receiving	14
RightFax Database Schema	14
About Captaris, Inc.	15
APPENDIX.....	16
RightFax Properties for Active Directory Synchronization.....	16
RightFax Data Types.....	19
Custom RightFax Data Types	19

INTRODUCTION

Captaris has created this white paper to provide information to help you anticipate changes that are made to a RightFax system when it is upgraded to RightFax 9.3 from RightFax 9.0. It also provides general instructions for upgrading. Specific instructions are not provided here.

For more specific instructions for all of the RightFax 9.3 features, refer to the user documentation on the product CD and the Captaris product support Web site at <http://www.Captaris.com/support/downloads/rightfax/index.html>. Documentation includes:

- Readme document
- Online user guides in PDF
- Captaris KnowledgeBase articles
- Online help within the product applications

The RightFax product suite includes features and modules that are not discussed in this white paper. For a complete list of the changes in RightFax 9.3, refer to *Technical Differences between RightFax 9.0 and RightFax 9.3*.

Supported Versions of SQL Server

One of the most important and far-reaching improvement in RightFax 9.0 was the replacement of the proprietary database with one based on open SQL standards.

The RightFax system uses the SQL database to manage:

- Users
- User groups
- Distribution lists
- Contacts
- Delegates
- Notifications
- History records
- Fax information such as receipt date and time
- Dialing rules

The RightFax Server uses the data in the database to organize, track and route faxes.

Microsoft SQL Server 2000, SQL Server 2005 and SQL Server 2005 Express Edition (32-bit and 64-bit) are supported in RightFax 9.3. Coexistence of RightFax and Microsoft SQL Server service packs and hot fixes will be supported by Captaris Technical Support services.

Microsoft SQL Server 2005 Express Edition is provided on the product CD. This edition is provided free from Microsoft. To use it you must register with Microsoft after installation.

Support for Microsoft SQL Server issues is outside the scope of Captaris Technical Support services. SQL Server problems or questions should be addressed to Microsoft.

You Need to Know

Microsoft SQL Server Database Engine (MSDE) is not supported in RightFax 9.3.

RECEIVED DOCUMENT QUEUE IN THE SQL DATABASE

In RightFax 9.0, the RightFax Server module queried the DocTransport module to check for new documents. In turn, the DocTransport module checked its activity log on the SQL Server. If it found a new document, it converted the document from an IPK file to a Tagged Image File (TIF) G3 file and copied it to the RightFax Server module. During this process, the RightFax Server module waited for a result.

To increase the speed of processing received documents RightFax 9.3 stores newly received document queues in the SQL database.

Now the DocTransport module monitors a RightFax activity log in the SQL database for new documents. If new documents are found, DocTransport module converts and copies the received documents to the RightFax/Images directory on the RightFax Server.

The DocTransport module inserts receipt information into the newly received document queue. The RightFax Server module queries the received document queue for received documents, reads and removes entries from the queue.

You Need to Know

After you upgrade, no configurations are needed to support the received document queue.

RightFax Event Queue in the SQL Database

Prior to RightFax 9.3, the RightFax Server module stored fax events in memory. When the server module stopped, events were lost, and the event queue was rebuilt when the server module was started again.

The RightFax event queue is now stored in the SQL database on the SQL Server. The queue is persistent; it retains its objects and values if the RightFax Server module stops. It is not necessary to rebuild the queue.

You Need to Know

After you upgrade, no configurations are needed to support the RightFax event queue.

Support for ISA Fax Boards

Legacy ISA fax boards continue to be supported.

Support for Eicon Fax Boards

RightFax currently supports Eicon fax boards using RightFax International edition.

New Method for Server Side Application Conversion

For Server Side Application (SSA) conversion, a new conversion engine, Captaris Isolation Conversion Engine (ICE) converts documents to faxes on the RightFax Server from Microsoft Word, Excel, PowerPoint and Internet Explorer applications. It also converts HTML.

The Microsoft applications must be installed on the RightFax Server. They should not be run on the server by end-users; they must be dedicated for use by the RightFax system.

The native application conversion process is now isolated from the WorkServer and is known as Captaris Isolation Conversion Engine (ICE). SSA is an optional conversion process, and it is one of several document conversion processes that are used by RightFax to convert documents to TIF.

You Need to Know

After you upgrade, no configurations are needed to support the new conversion engine.

New Email Gateway Options

Separate Simple Mail Transfer Protocol (SMTP) and POP3 email gateways can be dedicated to sending and receiving faxes. Inbound faxes can be routed to specific SMTP servers, allowing greater flexibility and redundancy. Gateways can be configured to send, receive or both send and receive.

You Need to Know

After you upgrade, no configurations are needed to support the email gateways. You can create new gateways as you need them.

Integration with Xerox Devices via the WorkServer

Integrations with Xerox devices are no longer available via the WorkServer.

You Need to Know

When you upgrade the RightFax Server, these integrations will be *inactivated*.

You can install and configure the MFP Module to enable these integrations. The MFP Module is available from http://www.Captaris.com/rightfax_products/integrations/mfp_module/MFPLegacyInfo.html.

Integration with HP devices via the WorkServer

Integrations with Hewlett-Packard (HP) devices are no longer available via the WorkServer.

You Need to Know

When you install the RightFax Server, these integrations will be *inactivated*.

You can install and configure the MFP Module to enable these integrations. The MFP Module is available from http://www.Captaris.com/rightfax_products/integrations/mfp_module/MFPLegacyInfo.html.

New Prerequisites Installation Program

Prior to RightFax 9.3, the RightFax installation program performed three tasks:

- Evaluated and prepared the system to meet the RightFax requirements by installing third-party software.
- Install the RightFax software.
- Configure the RightFax software.

To simplify the installation program and distinguish step 1 from step 2 a new CD is provided to install prerequisites prior to installing the RightFax software. The prerequisite installation program provides a wizard to guide you through the process of installing the required software. The following table lists the RightFax components and requirements. Microsoft SQL Server Express is included in the table because it has several of its own requirements.

RIGHTFAX COMPONENT	REQUIREMENTS						
	Windows	.NET	Microsoft Data Access Components (MDAC) 2.8	Microsoft Message Queue	IIS	Exchange 2000 or 2003	Windows Installer 3.0
RightFax Server	2000 Server* 2003 Server*	1.1	✓	✓			
RightFax Client Applications	2000 Workstation XP Professional						
Remote Services	2000 Server* 2003 Server*	1.1	✓	✓			
IIS Web Applications	2000 Server* 2003 Server*	1.1	✓		✓		
Exchange Connector	2000 Server* 2003 Server*					✓	
SQL Server Express	2000 SP4 2003 SP1 XP SP2	2.0					✓

* The requirement for a server edition of Windows (as compared to a workstation edition) is not fully enforced; the user can choose to proceed despite the warning that is displayed. This meets a long-standing request by Captaris sales and marketing to install demo versions on laptops or other computers.

New Directory Synchronization Service

A new service synchronizes RightFax data to Microsoft Active Directory and Lightweight Directory Access Protocol (LDAP) servers. The module does not require updates to existing schemas.

Captaris Sync is an XML/XSLT-based tool that lets RightFax administrators create and synchronize users from Active Directory domains, groups or organizational units. This service is installed and runs independently on the RightFax Server.

- Synchronization data is no longer stored in Active Directory, and, therefore, schema changes are not required.
- XML-based transform files replace the previous "profile" architecture and are stored locally.
- Multiple domains are supported.
- Robust and convenient real-time logging and diagnostics are available.
- Nested groups are not automatically included when synchronizing from parent groups.
- Visual Basic (VB) script is no longer used for custom synchronization profiles.
- Security has been improved.
- Synchronization is managed as a stand-alone service.

The Active Directory synchronization service in RightFax 9.0 and earlier is not supported in RightFax 9.3. It has been replaced with Captaris Sync.

Captaris Sync is an independent service. It is not tied to the WorkServer as was the case with RightFax Active Directory Sync.

CAUTION: SETTINGS WILL BE UNAVAILABLE UPON UPGRADE

Before you upgrade, determine if you want to duplicate your existing domains, organizational units, groups and profiles from RightFax Active Directory Sync in the new Captaris Sync service.

Be aware of the following:

- The settings for domains, organizational units, groups and profiles in the RightFax 8.7 Active Directory Sync *will not be imported* during the upgrade.
- The settings *cannot be viewed* in RightFax after the upgrade.
- After the upgrade, they *can be viewed* using the Active Directory Synch Settings Viewer.

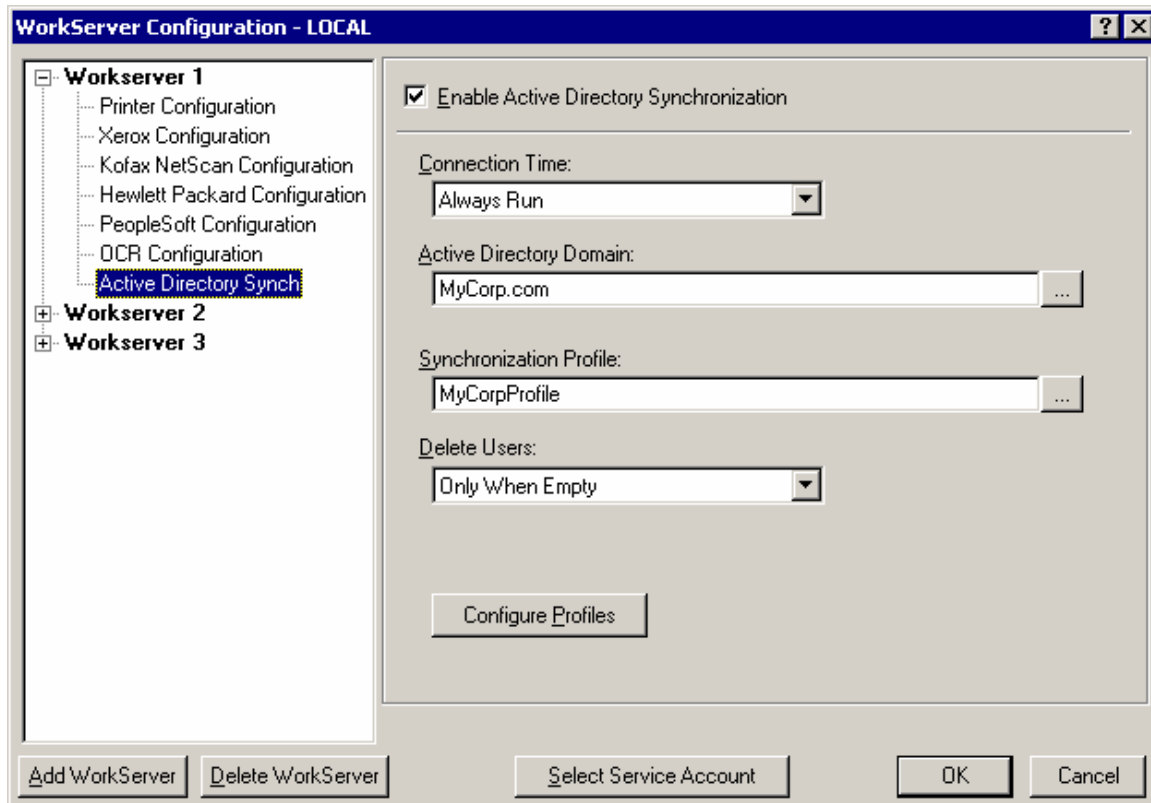
You have the following options for viewing the settings:

- Before you upgrade, view and record the settings in the WorkServer.
- Before you upgrade, view and print the settings with the Active Directory Sync Settings Helper utility.
- After you upgrade, view and print the settings with the Active Directory Sync Settings Helper utility.

Viewing and Recording the Settings in the WorkServer

Before you upgrade from RightFax 9.0, open each WorkServer that was configured for Active Directory Sync and write down the domains, organizational units, groups and profiles for each WorkServer. You can also print the screen images.

Figure 1. Before you upgrade from RightFax 9.0, you can open each WorkServer and copy the configuration settings for Active Directory Sync.

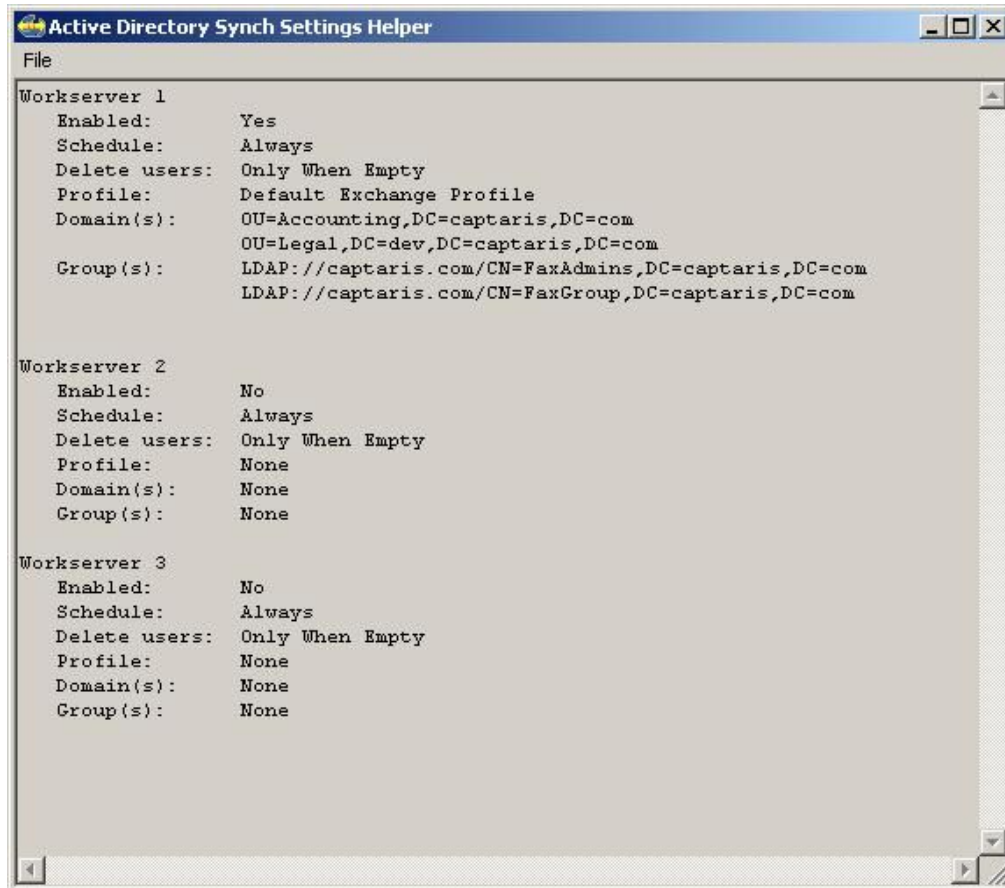


Viewing and Printing the Settings with Active Directory Sync Settings Helper Utility

Run the Active Directory Sync Settings Helper utility on each RightFax Server that is configured with one or more WorkServer modules that perform Active Directory synchronization.

- Insert the RightFax Product Suite CD.
- Navigate to the folder \RightFax\Support, and run AdSyncSettingsViewer.exe.
- The settings appear in a viewer.
- Save and print the file.

Figure 2. The Active Directory Sync Settings Helper shows the synchronization settings for the WorkServers.



UPGRADING FROM RIGHTFAX 9.0 WITH DEFAULT PROFILES

The RightFax 9.3 Captaris Sync service includes "Transform Files" and "Property Collections" that are equivalent to the RightFax 8.7 default profiles, "Default Windows Profile" and "Default Exchange Profile." After the upgrade, you must specify the transform file and property collection that corresponds to your RightFax 9.0 default profile.

The following table shows the new settings that correspond to the old profiles.

RIGHTFAX 9.0 ACTIVE DIRECTORY SYNC PROFILE	RIGHTFAX 9.3 CAPTARIS SYNC TRANSFORM FILE	RIGHTFAX 9.3 CAPTARIS SYNC PROPERTY COLLECTION
Default Windows Profile	Default Active Directory to RightFax.xml	Default Windows Properties
Default Exchange Profile	Default Active Directory-Exchange to RightFax.xml	Default Exchange Properties

UPGRADING FROM RIGHTFAX 9.0 WITH CUSTOM SYNCHRONIZATION PROFILES

You can import your custom profiles into the new Captaris Sync service if you used custom synchronization profiles with RightFax 9.0 Active Directory Sync. The import process will generate a new transform file and a new property collection.

If the old profile did not use custom VB Script, you can configure Captaris Sync to use the generated transform file and property collection.

If your custom profile made use of custom VB Script, however, you may need to perform additional work, depending on the actions of the script.

In many cases, the increased flexibility and capabilities of the new Captaris Sync service will obviate the need for custom coding. For example, custom VB Script may have been used to set default values for users. This can now be accomplished by setting the "RightFax User Template" in the Captaris Sync Module Configuration dialog box to specify a RightFax user to use as a model for creating new users.

You can create multiple RightFax configurations. For example, one for synchronizing administrators and another for synchronizing typical users, and each can be configured differently.

So it's possible that if you used custom code in RightFax 9.0 Active Directory Sync, you may no longer need it.

If you find that you need to perform special actions, you must manually modify the generated transform file to perform actions equivalent to the custom VB Script. To make this process easier the generated transform file contains comment blocks showing the original VB Script for each synchronized property. For each comment block, you must implement XSLT code similar in effect to the VB Script.

Note: This process requires experience with XSLT and VB Script.

For a list of the RightFax properties for Active Directory synchronization, refer to the Appendix.

CREATING A CUSTOM XSL MAPPING

Custom XSL mapping will *read* Active Directory attributes and *write* RightFax properties. It does not read (or evaluate) RightFax properties. The following XSL sample can be used within the context of a complete XSL file, such as the default file that is included with Captaris Sync module. This example checks a fictional attribute named "SomeAttribute." If its value is "Sales," the RightFax attribute "AllowChangeCover" will be set to **true**; otherwise, it will be set to **false**.

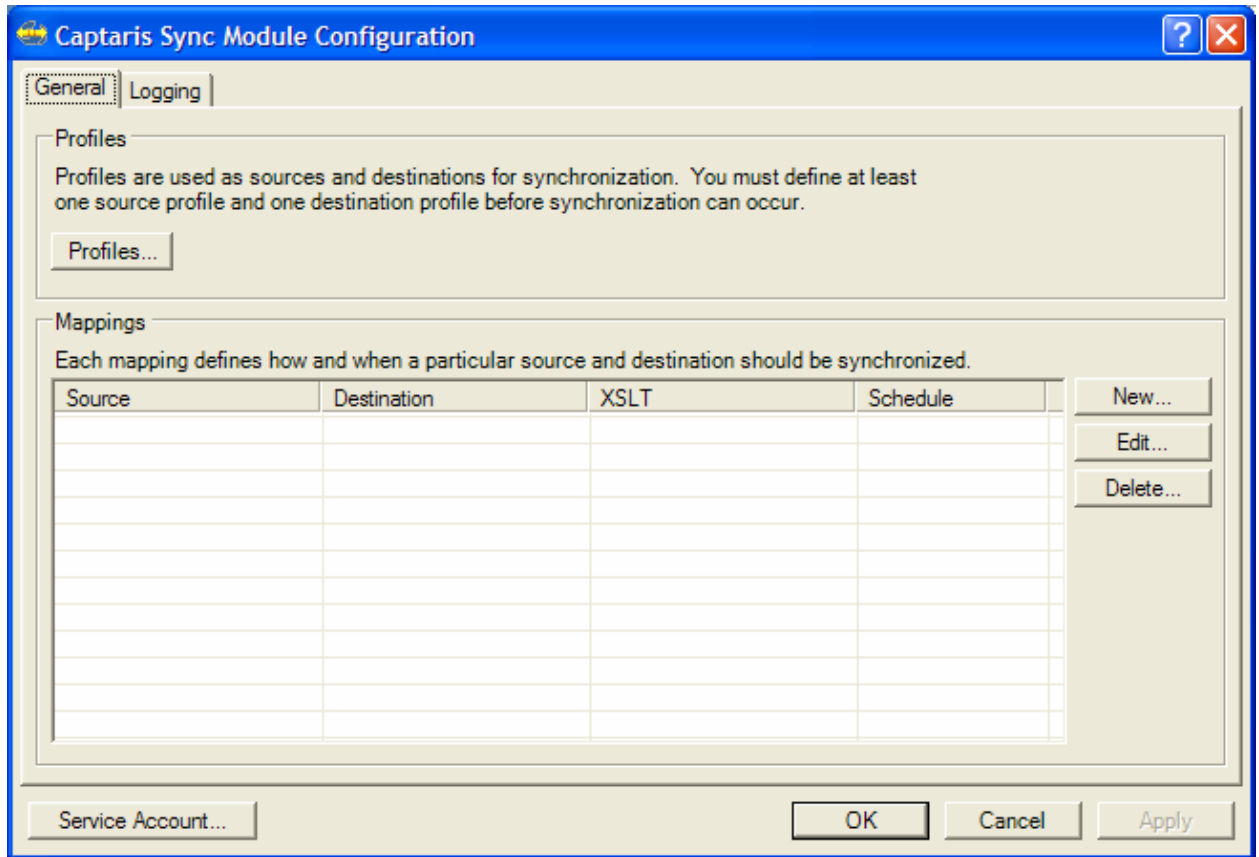
```
<xsl:template match="rf:attr[@name='SomeAttribute']">
  <attr name="AllowChangeCover">
    <value>
      <xsl:choose>
        <xsl:when test="node()='Sales'">true</xsl:when>
        <xsl:otherwise>false</xsl:otherwise>
      </xsl:choose>
    </value>
  </attr>
</xsl:template>
```

CONFIGURING CAPTARIS SYNC MODULE

To configure and create the new Captaris Sync service use the Captaris Sync Module Configuration dialog box.

Online help for the Captaris Sync Module is not available in this release.

Figure 3. The Captaris Sync Module Configuration dialog box is used to configure and create the new Captaris Sync service.



Upgrading the RightFax Client Applications for Windows from Previous Releases

In RightFax 9.3, the client applications for Windows can be installed and deployed separately from the server installation using a stand-alone client installation program. The client applications are:

- FaxUtil
- RightFax Print Driver
- MAPI Print Driver
- VIM Print Driver
- Outlook Advanced Fax Extension
- AutoReply Client
- Enterprise Fax Manager

This design supports large enterprises with many end-users. It is a smaller installation program that can be more easily "pushed" to end-user computers in a network.

You Need to Know

You have the following options for installing the RightFax 9.3 client applications for Windows.

OPTION	DESCRIPTION
Install separately from the server installation using a stand-alone client installation program.	The stand-alone client installation program cannot upgrade RightFax 8.7 or 9.0 client applications. To deploy the RightFax client applications using the new stand-alone client installation, uninstall the old client application.
Install as components of the product suite installation program.	To upgrade client applications that were installed from the product suite installation program, use the RightFax 9.3 product suite installation program.

WHAT VERSIONS OF THE CLIENT APPLICATIONS CAN BE UPGRADED?

The following table provides a summary of possible upgrade scenarios.

	UPGRADES RIGHTFAX 9.0 SP2?	UPGRADES RIGHTFAX 8.7 SP3?	UPGRADES RIGHTFAX 8.5 AND OLDER?
RightFax client applications for Windows, from product suite install	Yes	Yes	No
RightFax client applications for Windows, new independent install	No	No	No

Upgrading the RightFax Server from Previous Releases

Synchronize the date and time on the RightFax Server and the SQL Server. Fax processing may be delayed if they are not synchronized.

WHAT VERSIONS CAN BE UPGRADED?

The RightFax 9.3 Server installation program can upgrade a RightFax 9.0 SP2 or RightFax 8.7 SP3 Server.

Upgrading from earlier versions is not supported by the RightFax 9.3 installation program. Contact Captaris Technical Support for help with manually upgrading from earlier versions.

	UPGRADES RIGHTFAX 9.0 SP2?	UPGRADES RIGHTFAX 8.7 SP3?	UPGRADES RIGHTFAX 8.5 AND OLDER?
RightFax 9.3 Server install	Yes	Yes	No
RightFax client applications for Windows, from product suite install	Yes	Yes	No
RightFax client applications for Windows, new independent install	No	No	No

UPGRADE SCENARIOS

Several upgrade scenarios are possible:

- Install RightFax 9.3 on a RightFax 9.0 Server as an "in-place" upgrade. See *In-place Upgrade* on page 12.
- Install RightFax 9.3 on a new server computer and migrate the data from a RightFax 9.0 Server. See *Install on a New Server and Migrate Data* on page 12.
- Upgrade multiple RightFax 9.0 Servers to RightFax 9.3 and share a SQL database. See *Upgrade to a Shared SQL Database* on page 14.

IN-PLACE UPGRADE

Follow the instructions for upgrading in the *RightFax 9.3 Installation Guide*, Chapter 3, "Installing the RightFax Server Software."

Synchronize the date and time on the RightFax Server and the SQL Server. Fax processing may be delayed if they are not synchronized.

After the upgrade, apply the latest RightFax 9.3 service pack or hot fix. Updates are available at <http://www.Captaris.com/support/downloads/rightfax/index.html>.

INSTALL ON A NEW SERVER AND MIGRATE DATA

To migrate data from a RightFax 9.0 system to a new RightFax 9.3 system complete the following general steps:

1. Back up all RightFax 9.0 data including the Windows registry and RightFax SQL database
2. Install RightFax 9.3 on a new server.
3. Prepare the RightFax 9.0 Server for data migration.
4. Migrate the RightFax data from the old server to the new server by copying the RightFax data folders. **Stop here unless you are using a different SQL server than was used for RightFax 9.0**
5. If using a different SQL server than was used for RightFax 9.0, restore the backed up 9.0 database to the new SQL server (replacing the blank RightFax 9.3 database)
6. **Note:** If you plan on creating a server collective in 9.3, you must execute the entire process below on the first server prior to adding any subsequent collective servers.
7. Locate the SQL scripts on the RightFax 9.3 Product Suite CD (Located at X:\Program Files\RightFax\SqI_Scripts), copy the scripts locally, and edit the Update90db.sql script.
8. There are three places within the file that the value %SERVERGUID% is found:
 - GlobalConfiguration SET CurrentFile = (SELECT CurUniqueFile FROM Configuration WHERE ServerGUID = '%SERVERGUID%')
 - Configuration SET Configuration.ClusterGUID = '%SERVERGUID%' WHERE Configuration.ServerGUID = '%SERVERGUID%'
 - Each %SERVERGUID% value in the Update90db.sql file must be replaced with the SERVERGUID value from the existing 9.0 SP2 database. The SERVERGUID value can be found within the Configuration table on the existing 9.0 SP2 SQL database.
9. The SERVERGUID data in each of the following registry keys on the 9.3 server must be replaced with the SERVERGUID value from the existing 9.0 SP2 database. The SERVERGUID value can be found within the Configuration table on the existing 9.0 SP2 SQL database.
 - 1-HKEY_LOCAL_MACHINE\SOFTWARE\RightFax\Cluster
 - 2-HKEY_LOCAL_MACHINE\SOFTWARE\RightFax\Cluster\<>your server name<>
 - 3-HKEY_LOCAL_MACHINE\SOFTWARE\RightFax\DocTransport
 - 4-HKEY_LOCAL_MACHINE\SOFTWARE\RightFax\FaxServer
10. Run the scripts within SQL Query Analyzer in the following order:
 - 1-Update90db.sql
 - 2-CreateFunctions.sql
 - 3-CreateStoredProcs.sql
 - 4-CreateViews.sql
 - 5-FillTables.sql
 - 6-InsertEventEnums.sql
 - 7-Globalization.sql
11. Synchronize the date and time on the RightFax Server and the SQL Server. Fax processing may be delayed if they are not synchronized.
12. After the upgrade, apply the latest RightFax 9.3 service pack or hot fix. Updates are available at <http://www.Captaris.com/support/downloads/rightfax/index.html>.

If you are running the RightFax Integration Module or a SAP Gateway for RightFax on the RightFax Server, contact Captaris Technical Support before moving the RightFax Server.

In the following instructions "OLDFAX" is the RightFax 9.0 Server. "NEWFAX" is the new server where RightFax 9.3 will be installed.

Step 1: Backing Up all RightFax Data

During the migration process, the data on the OLDFAX RightFax Server will not be removed. You can, however, back up the data to ensure that you have a copy in the event of problems on the old server.

Step 2: Backing Up the Windows Registry

On OLDFAX, print or make a copy of the Windows registry key HKEY_LOCAL_MACHINE\Software\RightFax, so that you have a copy of any changes that have been made to customize the system.

If you have the Docs-on-Demand Module, go to HKEY_LOCAL_MACHINE\Software\RightFax\BoardServer\FOD. Save the FOD key in a safe location.

Step 3: Installing RightFax 9.3 on NEWFAX

- On NEWFAX, install RightFax 9.3 and reboot. Follow the instructions for a new installation in the *RightFax Installation Guide*.
- Ensure that all RightFax services start and run.
- Configure NEWFAX (DocTransport, Server, WorkServer and optional modules).
- Stop all RightFax services on NEWFAX.

Step 4: Preparing OLDFAX for Migration

- On OLDFAX, stop all RightFax services.

Step 5: Migrating Data

Copy the following files from OLDFAX to their respective locations on NEWFAX.

FOLDER AND FILES	NOTES
\RightFax\Image*.*	--
\RightFax\Fcs*.*	If you have created custom cover sheets
\RightFax\Papers*.*	If you have created overlay forms
\RightFax\CMDData*.*	--
\RightFax\Production\Bin*.bat	If the batch file has been customized
\RightFax\Production\Covers*.*	--
\RightFax\Production\Forms*.*	--
\RightFax\Production\Images*.*	--
\RightFax\Production\Include*.*	--
\RightFax\Production\xml\xsl*.*	If the XSL files have been customized
\RightFax\Production\xml\schemas*.*	If the XML schemas have been customized
\RightFax\RFBoard\Boston\callctrl.cfg	If present Caution: Do not copy this file if NEWFAX has new fax boards, new T1 line/s, or a different number of fax boards from OLDFAX.
\RightFax\RFBoard\Voices*.*	If you use the Docs-on-Demand, Human Answered Fax or Teleconnect module and have created custom voice files
\RightFax\Sig*.*	If users have created graphic images of user signatures for placement on faxes
\RightFax\Bft*.*	If you have OCR documents or sent or received binary file transfers
\RightFax\Worksrv	Caution: Do not copy any files from the WorkServer directory except OCR routing files (such as Route.txt).

UPGRADE TO A SHARED SQL DATABASE

In RightFax 9.3, two or more servers can share a common SQL database. This is known as the RightFax Shared Services Module and must be purchased separately for RightFax 9.3 Enterprise Servers.

In the shared database configuration, multiple RightFax Servers share all of the data in the SQL database: users, delegates, phonebook entries, distribution lists and document data such as fax status. The data is available to all the administrators and clients in the network. All received faxes are stored on the SQL Server and are available to all clients in the network.

Upgrade scenario: Migration of multiple RightFax 9.0 Servers to multiple new RightFax 9.3 Servers that share a SQL database.

In this scenario, RightFax 9.3 must be installed as a new installation, not as an upgrade.

Complete the following general steps. For detailed instructions for installing RightFax Servers to share a SQL database, refer to the *RightFax 9.3 Installation Guide*.

1. Install RightFax 9.3 on the new servers, and follow the instructions for creating a Shared Services configuration in the *RightFax 9.3 Installation Guide*.
2. On one of the RightFax 9.3 Servers, open Enterprise Fax Manager, and connect to one or more RightFax 9.0 Servers.
3. Click-and-drag to copy each data object from the RightFax 9.0 Servers to the RightFax 9.3 Server. As it is copied, the data will be migrated to the shared SQL database and will be available to all of the servers in the new shared database.

After the upgrade, apply the latest RightFax 9.3 service pack or hot fix. Updates are available at <http://www.Captaris.com/support/downloads/rightfax/index.html>.

Synchronize the date and time on the RightFax Server and the SQL Server. Fax processing may be delayed if they are not synchronized.

Simulating the Sending and Receiving of Faxes

To test the system, you can send and receive faxes in simulation mode.

TESTING FAX SENDING

A new transport type in the DocTransport module allows you to send faxes on simulated fax channels. To set this up in the DocTransport module, add a new transport and select the "Simulation" transport. You can configure fax channels and global settings for the simulation.

TESTING FAX RECEIVING

To receive faxes, create a dialing rule with the destination set to receive into the local server. The dialing rule will intercept the fax before entering the simulation transport. Therefore, sending will not be simulated.

RIGHTFAX DATABASE SCHEMA

The RightFax SQL database schema is provided with the user guides in PDF on the product CD.

ABOUT CAPTARIS, INC.

Captaris, Inc. is a leading provider of software products that automate business processes, manage documents electronically and provide efficient information delivery. Our product suite of Captaris RightFax, Captaris Workflow and Captaris Alchemy Document Management is distributed through a global network of leading technology partners. We have customers in financial services, healthcare, government and many other industries, and our products are installed in all of the Fortune 100 and many Global 2000 companies. Headquartered in Bellevue, Washington, Captaris was founded in 1982 and is publicly traded on the Nasdaq National Market under the symbol CAPA. For more information, please visit www.Captaris.com.

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Appendix

RIGHTFAX PROPERTIES FOR ACTIVE DIRECTORY SYNCHRONIZATION

RightFax User Properties

The following table lists the RightFax user properties in alphabetical order that are available to the Captaris Sync Module.

The range of acceptable values for each property is determined primarily by its data type. Data types are detailed later in this document.

PROPERTY NAME	DATA TYPE	COMMENT
AllowAnnotation	bool	—
AllowBillingCodeEdit	bool	—
AllowBillingCodeLookup	bool	—
AllowChangeCover	bool	—
AllowDelete	bool	—
AllowHighPriority	bool	—
AllowModifyForm	bool	—
AllowModifyLibrary	bool	—
AllowOCR	bool	—
AllowRunReports	bool	—
AllowSMS	bool	—
AllowViewAllPages	bool	—
AltUser	string	—
ArchiveSent	bool	—
AssociatedNTAccountSID	string	—
AutoDelete	AUTODELETE	—
AutoForward	bool	—
AutoForwardInfo	string	—
AutoForwardType	AutoForwardType	Changing this causes AutoForwardInfo to be cleared to an empty string.
AutoOCR	bool	—
AutoOCRExt	string	—
AutoOCRFlags	OCRFLAGS	—
AutoOCRFormat	OCRFORMAT	—
AutoOCRLayout	OCRLAYOUT	—
AutoPrint	bool	—
AutoPrintReceivedBody	bool	—
AutoPrintReceivedCover	bool	—
AutoPrintReceivedHistory	bool	—
AutoPrintReceivePrinter	string	—
AutoPrintSent	bool	—
AutoPrintSentBody	bool	—

PROPERTY NAME	DATA TYPE	COMMENT
AutoPrintSentCover	bool	—
AutoPrintSentFailed	bool	—
AutoPrintSentHistory	bool	—
AutoPrintSentPrinter	string	—
AutoPrintSentSuccess	bool	—
AutoUpdate	bool	—
BillingCodeVerified	bool	—
CallbackRequested	bool	—
Cover	bool	—
CoverModelName	string	—
CreatedViaSynchronization	bool	—
DefaultBillingInfo1	string	—
DefaultBillingInfo2	string	—
DefaultPrintAutoScale	bool	—
DefaultPrintCollate	bool	—
DefaultPrintCopies	int	—
DefaultPrintDuplex	PRINTDUPLEX	—
DefaultPrinter	string	—
DefaultPrintOutputBin	PRINTOUTPUT	—
DefaultPrintPriority	PRIORITY	—
DefaultPrintQuality	PRINTRES	—
DefaultPrintSecurityCode	int	—
DefaultPrintSize	PRINTSIZE	—
DefaultPrintSource	PRINTSOURCE	—
DefaultPrintStaple	bool	—
DefaultPriority	PRIORITY	—
DeleteAfterSuccessfulRoute	bool	—
DistinguishedName	string	—
EDCReceives	bool	—
EDCSends	bool	—
EmailAddress	string	—
EmailRouteForm	EmailRouteFormType	—
EmptyTrashOnExit	bool	—
ExcludeDocsFromAging	bool	—
FineBody	bool	—
FineCover	bool	—
FromName	string	—
GeneralFaxNum	string	—
GeneralVoiceNum	string	—

PROPERTY NAME	DATA TYPE	COMMENT
GroupID	int	—
HighestPriority	PRIORITY	—
IsAdministrator	bool	—
MailBoxProtected	bool	—
Marked	bool	—
MobileAddress	string	—
NeedsSendApproval	bool	—
NotifyInfo	string	—
NotifyReceived	NotifyMode	—
NotifyReceivedAltUser	bool	—
NotifySendErrorAbandoned	bool	—
NotifySendErrorRetry	bool	—
NotifySendFlags	NOTIFY_SND	—
NotifySendHeldForPreview	bool	—
NotifySending	NotifyMode	—
NotifySendNeedsApproval	bool	—
NotifySendNeedsInfo	NotifyMode	—
NotifySentOk	bool	—
NotifyType	NOTIFYTYPE	—
OtherPhonebookPassword1	string	—
OtherPhonebookPassword2	string	—
OtherPhonebookPassword3	string	—
OtherPhonebookPassword4	string	—
OtherPhonebookUserID1	string	—
OtherPhonebookUserID2	string	—
OtherPhonebookUserID3	string	—
OtherPhonebookUserID4	string	—
Password	string	—
PersonalFaxNum	string	—
PersonalVoiceNum	string	—
PreferredImageViewingFormat	ROUTEFMT	—
RequiresNTAuth	bool	—
RequiresPassword	bool	—
RouteCode	string	—
RouteFormat	ROUTEFMT	—
RouteInfo	string	—
RouteType	ROUTETYPE	—
SmartFaxDistribution	bool	—
SmartResume	bool	—

PROPERTY NAME	DATA TYPE	COMMENT
StampReceivedPages	bool	—
SyncGuid	string	—
SyncSource	string	—
SyncUSN	string	—
ToCityState	string	—
ToCompany	string	—
UpdateInterval	int	—
UseDefaultBillingInfo	bool	—
UserID	string	—
UserName	string	—
UseTrash	bool	—
VoiceMailSubscriberID	ulong	—
WebSendRFX	bool	—
WebSendTIFF	bool	—

RIGHTFAX DATA TYPES

The data type of a property indicates the range of values that can be assigned to it. Standard and custom data types are available.

Standard Data Types

WebSendRFX	"true" or "false"
int	32-bit integer
long	64-bit integer
ulong	64-bit unsigned integer

CUSTOM RIGHTFAX DATA TYPES

When using a custom data type in an XSL file, specify the numeric value, not the description. For example, to use Exchange, set the RouteType property to 11.

```
AUTODELETE
  NONE          0
  SUCCESS       1
  ALL           2
```

```
AutoForwardTypes
  Phone         0
  User          1
```

```
EmailRouteFormType
  Default       0
  None          1
  Standard      2
  Advanced      3
```

```
NotifyMode
  Never         0
  Once          1
  Periodically  2
```

NOTIFY_SND (combine values by OR'ing them together)

NEEDS_FCS1	0x0001
NEEDS_FCS2	0x0002
SENDING1	0x0004
SENDING2	0x0008
SENDRETRY	0x0010
SENDOK	0x0020
SENDERR	0x0040
NOPREVIEW	0x0080
APPROVAL	0x0100

NOTIFYTYPE

NETBROADCAST	0
CUSTOM1	1
CUSTOM2	2
CUSTOM3	3
CUSTOM4	4
CUSTOM5	5
CUSTOM6	6
CUSTOM7	7
CUSTOM8	8
CUSTOM9	9
CCMAIL	10
MSMAIL	11
GROUPWISE	12
TRS	13
CX3	14
PAGER	15
NOTES	16
EXCHANGE	17
SMTP	18
SMS	19
ANY	0xFFFF

OCRFLAGS (combine values by OR'ing them together)

ROUTEMSMTP	0x0001 (route to msmtp after OCR)
ROUTECCMAIL	0x0002 (route to ccmil after OCR)
CLEANUP	0x0004
MESSAGEUSER	0x0008
ROUTEWPOMAIL	0x0010 (route to GroupWise after OCR)
PRINTFAX	0x0020 (print fax after OCR)
ROUTEGENMAIL	0x0040 (route to generic email after OCR)

OCRFORMAT

SMARTASCII	0
ASCII	1
RTF	2

OCRLAYOUT

WYSIWYG	0
LEFTJUSTIFIED	1

PRINTDUPLEX

DEFAULT	0
SINGLE	1
LONGEDGE	2
SHORTEDGE	3

PRINTOUTPUT

DEFAULT	0
UPPER	1
LOWER	2
FINISHER	3
MAILBOXFIRST	4
MAILBOXLAST	27

PRINTRES

HIGH	0
MEDIUM	1
LOW	2

PRINTSIZE		
DEFAULT		0
LETTER		1
LEGAL		2
A4		3
LETTERLEGAL		4
A4LEGAL		5
PRINTSOURCE		
DEFAULT		0
UPPER		1
LOWER		2
MANUAL		3
TRAY3		4
MPTRAY		5
HIGHCAPACITY		6
PRIORITY		
NORMAL		0
LOW		1
HIGH		2
ROUTEFMT		
DCX		0
PCX		1
TIFFG3		2
TIFFG4		3
GIF		4
PDF		5
PDFWITHTHUMBNAILS		6
CPC		7
RFX		8
PNG		9
TXT		10
ROUTETYPE		
RF		0
CCMAIL		1
MSMAIL		2
FILE		4
OCR		5
WPOFF		6
WPOMAIL		6
NOTES		7
XROUTE		8
TRS		9
CX3		10
EXCHANGE		11
SMTP		12
ANI		13
SAP1		14
SAP2		15
SAP3		16
SAP4		17
SAP5		18
SAP6		19
SAP7		20
SAP8		21
SAP9		22
SAP10		23
SAP11		24
SAP12		25
SAP13		26
SAP14		27
SAP15		28
SAP16		29
CXINTF		200