

MiCollab Advanced Messaging XMediusFAX® Integration Guide

For version 6.1 and above

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Contents

Preface	3
References	3
Documentation	3
Documentation Updates	3
Help	4
Document Conventions	4
XMediusFAX Integration Overview	5
Important Facts You Should Know	5
Setting up Fax Support in MiCollab AM	7
Reviewing Installation Requirements	7
Server Requirements	7
Telephone System Requirements	7
Installing the Feature File	8
Specifying the XMediusFAX Fax Domain Name	8
Configuring the MiCollab AM Dialing Plans	9
Creating Source Mailbox for Delivering Faxes	10
Creating Administrator Account for MiCollab AM Web Services Connection	10
Configuring Fax Device for Subscribers	12
Configuring E-mail address for Subscribers	13
Integrating XMediusFAX with MiCollab AM	15
Configuring the Administrator Account on XMediusFAX for Use with MiCollab AM	15
Installing the Mitel Inbound Notification Python Module	16
Adjusting Parameters in avstinboundnotifier.ini	16
Creating Python Destination for Mitel Inbound Notification	18
Configuring Site Incoming Routing Table in XMediusFAX to Enable Mitel Notification for Inbound Fax	20
Creating XMediusFAX Internal User for Each MiCollab AM Subscriber Mailbox	22

Preface

This document is intended for administrators and technicians who are familiar with MiCollab Advanced Messaging (MiCollab AM), MiCollab AM terminology, and navigating through MiCollab AM Admin. This document assumes you have a basic understanding of MiCollab AM Admin, MiCollab AM Configuration, and XMediusFAX®.

References

A catalog of technical documentation is included on the MiCollab AM Installation Media. If you are installing any advanced applications, such as Networking and Fax Server applications, you should refer to the appropriate technical documentation for application and installation information.

Documentation

The technical documentation is produced in the PDF format and requires the PDF reader to view it. The documentation set for this MiCollab AM includes the following documents and resources:

- **Developer Resources.** Contains programming guides and API references for developers for integrating the server clients and web applications with MiCollab AM.
- **Integration Technical Notes (ITN).** Contains a set of guides that describe the integration methods and instructions for a variety of phone systems to work with MiCollab AM. The ITNs are generally used by resellers or administrators who are experienced with MiCollab AM and familiar with the integration procedures and terminology.
- **Quick Reference Card (QRC).** Contains shortcuts and quick instructions telling subscribers how to access and use the messaging system.
- **Server Documentation.** Available as a PDF only. Contains administrative guides for administrators about installing, configuring, and administering the messaging system, and user guides for subscribers about accessing the messaging system and checking and sending messages.
- **Spare Parts Documentation.** Contains a set of guides that describe the instructions for installing and configuring hardware parts to work with MiCollab AM. These documents are written for Mitel certified MiCollab AM technicians who are experienced with MiCollab AM and familiar with the procedures and terminology.
- **Software Release Notice (SRN).** This notice introduces the new features, capabilities, and hardware/software requirements for the corresponding MiCollab AM version.

Documentation Updates

Documentation updates may be available from the following sources:

- Mitel certified technicians can view or download documents and program files from our partner web site: connect.mitel.com/connect

Help

The primary source of information about MiCollab AM is the online help available within any of its administrative utilities. You can access **Help** as follows:

- Click the **Help** button in the dialog box or window in which you are working
- Press the **F1** key at any time.

Document Conventions

The following conventions are used in this document:

- **Key Names.** Names of keys on the keyboard are shown in a box.

Example: **Enter**

When two keys must be pressed simultaneously, they are joined by a + sign.

Example: **Alt** + **Tab**

- **Reference to Document.** *Italics* fonts can also signify the titles of other documents.

Example: Refer to *System Installation Guide*.

- **UI Element Names.** Names of UI elements such as dialog windows, screens, menu items, tabs, buttons, icons, etc. are shown in bold.

Example: On the **Startup** screen, click the **Start** icon.

- **User Input.** Information required to be typed is shown in italics.

Example: Type the password *voicemail*.

- **Warning, Caution, Important, and Notes.** Text for the contents that require attention are shown as follows:

WARNING A warning paragraph advises you of circumstances that can result in the loss of data, harm to the system server platform, or personal harm.

CAUTION Failure to follow these recommendations can result in unauthorized access to the system and consequent loss of data.

IMPORTANT An important paragraph gives decision-making information or informs you of the order in which tasks need to be completed.

NOTE A note gives additional information, provides an explanation, or indicates an exception to the information in the preceding text.

XMediusFAX Integration Overview

The fax functionality for MiCollab Advanced Messaging (MiCollab AM) is supplied through an integration with the XMediusFAX 8.0 server. This document outlines how to integrate the XMediusFAX server with MiCollab AM. Before proceeding with the integration, you must have the XMediusFAX server installed and running as instructed in the XMediusFAX documentation. You also need to have MiCollab AM installed as described in *System Installation Guide*.

IMPORTANT XMediusFAX is required to support Fax over IP (FoIP). MiCollab AM does not natively support FoIP.

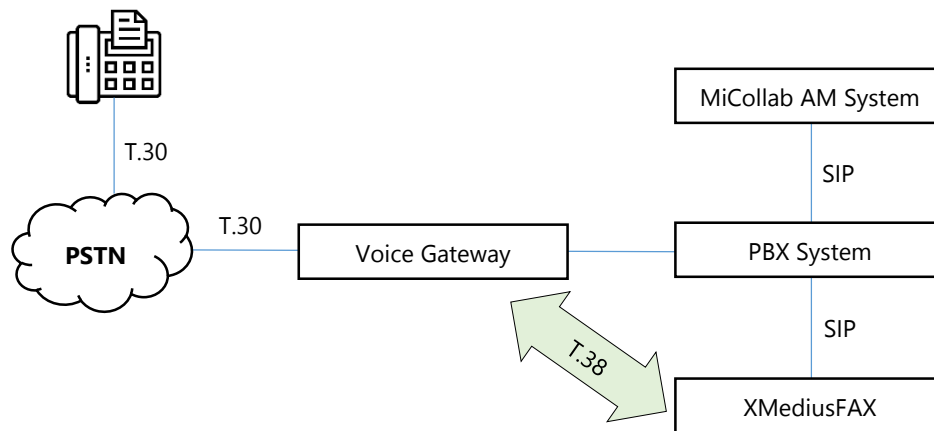


Figure 1. Reference Configuration

The following is the list of the telephone systems tested:

- Cisco Unified Communication Manager – Version 11.0
- Mitel MiVoice Business – Version 7.2

Important Facts You Should Know

This section lists known benefits and limitations that affect the integration and its use. Be sure to review this information before continuing.

- SIP trunk between the telephone system at your site and XMediusFAX server must be configured prior to the MiCollab AM integration.

IMPORTANT You must configure XMediusFAX with the telephone system at your site over SIP Trunk prior to the MiCollab AM integration. For more information on how to configure XMediusFAX with the telephone system at your site, visit XMedius online

knowledge base at support.xmediusfax.com and find the configuration guide. You will need a valid account in order to access their Support portal.

- SIP trunk is not required for the configuration between MiCollab AM and XMediusFAX.
- The telephone system at your site must have appropriate routes configured to route MiCollab AM transferred fax calls to XMediusFAX over SIP trunk.

NOTE The route must preserve the calling and called party information when transferring to the user's FAX device.

- You must configure XMediusFAX to use Mitel Inbound Notification Python script to deliver inbound faxes to MiCollab AM subscriber mailboxes.
- XMediusFAX cannot deliver inbound faxes to MiCollab AM subscriber mailboxes via the Active Directory user as the Active Directory integration is not supported with the Mitel Inbound Notification Python script. You must create as many XMediusFAX internal users as required, one for each MiCollab AM subscriber.

NOTE Multiple **Internal Users** can be created by using the CSV file import. For more information, see the *XMediusFAX Administrator Guide* provided by XMedius.

- The administrator account used for MiCollab AM web services connection must be setup for web impersonation on the MiCollab AM side.
- MiCollab AM and XMediusFAX are configured independently, and there is no shared user configuration.
- Each subscriber must have a Fax device configured even if they are using a single number voice and fax, because the Fax device number is used as the target when transferring to XMediusFAX. Also, each user must be configured with the same fax number on the XMediusFAX server.
- Each subscriber must have an E-mail address configured as XMediusFAX will use the SMTP address of recipient rather than their mailbox ID when delivering inbound faxes to MiCollab AM.
- Users can simply transfer fax calls to a MiCollab AM pilot number if a fax call is answered from a phone configured with the single number voice and fax.

NOTE The MiCollab AM subscriber mailbox configured with the single number voice and fax must have a security code setup in order for the user to successfully transfer a fax call to MiCollab AM.

Setting up Fax Support in MiCollab AM

To set up fax support in MiCollab AM, you must perform the following steps:

- Review installation requirements.
- Install the MiCollab AM feature file.
- Specify the XMediusFAX fax domain name.
- Configure the MiCollab AM system's dialing plans.
- Create a source mailbox that the fax server can use to deliver faxes to the MiCollab AM recipients.
- Create an administrator account for the MiCollab AM web services connection.

Reviewing Installation Requirements

This section lists the requirements for successfully installing the fax support for MiCollab AM. Be sure to review and meet these requirements before continuing in this book.

Server Requirements

- A server deployed with XMediusFAX server software version 8.0 with the current XMediusFAX server hot fix, if any.
- A MiCollab AM feature file that is enabled with the fax applications you have purchased, emailed from Mitel. Place this file on your network or on a removable media such as CD-R so that it is accessible by the MiCollab AM server.

Telephone System Requirements

If you plan to have MiCollab AM to answer fax calls, make sure that the following conditions have been properly configured on lines supporting XMediusFAX and MiCollab AM prior to the fax integration:

NOTE When using this method of routing, no caller ID information can be passed on to the server.

- SIP trunk between the telephone system at your site and XMediusFAX is configured.
- Call routing for each fax number that routes to XMediusFAX is configured.
- Routes which allow MiCollab AM to transfer calls to XMediusFAX over SIP trunk while preserving the calling and called party information.

Installing the Feature File

There are three fax features: FaxText, FaxMail, and FaxLines. Telephony Server Routing requires FaxMail, FaxLines, and the Web Services Impersonation feature. Proceed according to the software or feature you are installing.

Table 1. Feature File Installation

If you are installing...	Then...
A new MiCollab AM server	No installation is necessary; you have already installed the file during the setup sequence for MiCollab AM.
Fax support on an existing system	<ol style="list-style-type: none">1 Open MiCollab AM Configuration.2 In the Main tab, click Shutdown to stop MiCollab AM.3 In the Feature tab, run the License Import program and install the feature file.4 In the Main tab, click Startup to run MiCollab AM. <p>For information on shutting down and restarting MiCollab AM properly, see <i>System Installation Guide</i>.</p>

Specifying the XMediusFAX Fax Domain Name

In order for MiCollab AM to successfully send a fax to XMediusFAX, you must specify the XMediusFAX fax domain name as described in this section.

To specify the XMediusFAX fax domain name:

- 1 Open **MiCollab AM Configuration**, and then click the **Fax** tab.

The screenshot shows the 'MiCollab AM Configuration' window with the 'Fax' tab selected. The window has a menu bar at the top with options: Main, Server, System, E-Mail, Presence, Licensing, Switches, Switch Sections, Integrations, and Boards. Below the menu bar, there are sub-tabs: Lines, VIM, Call Progress, Language, Reliability, and Fax. The 'Fax' sub-tab is active. The main content area is divided into several sections. At the top, there is a 'Fax Type' section with two radio buttons: 'RightFax' and 'Third Party'. The 'Third Party' radio button is selected. To the right of these radio buttons is an 'Advanced' button. Below this is the 'RightFax Settings' section, which includes fields for 'Server Name', 'Board Name', 'RightFax User ID', and 'RightFax Password'. There is also a 'Server Protocol' dropdown menu set to 'TCP / IP' and a 'Test Connection' button. Below the 'RightFax Settings' is the 'Third Party Fax Settings' section. It has a 'Message Store Type' section with two radio buttons: 'Notes' and 'Exchange'. The 'Notes' radio button is selected. To the right of this is a 'Fax Domain Name' text field containing the value '172.16.1.10'. Below the 'Third Party Fax Settings' is the 'Message Classes' section, which has a list box and buttons for 'Add New', 'Edit', and 'Delete'. To the right of this is the 'Allowed File Extensions' section, which has a checkbox labeled 'Allow All' that is checked, and buttons for 'Add New' and 'Delete'. At the bottom of the window are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

- 2 In the **Fax Type** section, select **Third Party**.
- 3 Go to the **Third Party Fax Settings** section, select **Notes** to expose the **Fax Domain Name** field.
- 4 In the **Fax Domain Name** field, enter the IP address or the FQDN of the XMediusFAX.
- 5 Click **Apply**, and then click **OK**.

Configuring the MiCollab AM Dialing Plans

Fax messaging uses dialing plans that let MiCollab AM validate telephone numbers entered by the outside callers and subscribers when they want to transmit faxes.

For example:

If a caller enters only six digits for their telephone number, MiCollab AM can look up the number on the dialing plan, and then prompt the caller that the number is invalid. The caller then can re-enter the correct seven-digit telephone number.

The dialing plan also gives MiCollab AM the dialing instructions for telephone numbers and indicates the call type: international, long distance, local, or extension. With the information from the dialing plan, the server can correctly place calls to any telephone number.

MiCollab AM uses the call type information it receives from the dialing plan to determine whether or not the call is allowed.

For example:

If a subscriber sends a fax to a long-distance number, the server uses the dialing plan to determine the call type. MiCollab AM then checks for the subscriber's mailbox to see if the subscriber has long-distance callouts allowed. If they are allowed, MiCollab AM places the call; if not, it advises the subscriber that the call is not allowed.

The fax server uses a similar dialing plan for its own outgoing calls, such as outbound faxes from subscribers. Using a sophisticated set of routing rules, the fax server can calculate the least-costly time of day to send a low-priority or medium-priority fax. If a network has more than one fax server, the dialing plans of the fax servers can be coordinated to share the total load of outgoing faxes.

When setting up the fax server's dialing plan, keep in mind that the MiCollab AM output to the fax server must be determined, as well as the client-generated telephone numbers for outgoing calls.

For example: Adding 9 to the beginning of local or long-distance calls.

Be sure to coordinate the two dialing plans to work together.

To configure the dialing plan for MiCollab AM, refer to the online help from the **MiCollab AM Admin** utility. The *XMediusFAX Administration Guide* provided by XMedius contains the corresponding instructions for setting up the dialing plan for the fax server.

IMPORTANT The telephone system at your site may offer the sophisticated cost-effective routing features of its own. If so, you may want to use your MiCollab AM and XMediusFAX dialing plans only to validate extension, local, and long-distance numbers. To provide the least-cost routing, set up your telephone system so that it processes all outbound calls and faxes according to its dialing plan.

Creating Source Mailbox for Delivering Faxes

You must create a mailbox that the fax server can use to deliver faxes to the MiCollab AM recipients. MiCollab AM uses the name of this mailbox as the sender's name on faxes that are delivered to MiCollab AM subscribers.

NOTE While this mailbox can be a subscriber mailbox, we strongly recommend that you use a Call Processor mailbox, which does not require a security code.

MiCollab AM uses the name that was recorded for this mailbox as the information prompt that subscribers hear when a fax message is received from outside the system. When you record the name, use a generic phrase, such as "... the fax server" that will make sense when it follows such system prompt as "This fax was sent on June 15th at 2:23 PM by ...".

To provide a call processor for fax messaging:

- 1 Create the call processor mailbox and specify a name that identifies the source of the fax, such as **Fax Server**.

NOTE It is not necessary to configure any key actions for this call processor, because the fax server will be interacting with it over a LAN connection rather than by telephone.

However, to ensure that any caller who gains access to this mailbox by accident is returned safely to MiCollab AM's current initial call processor, we recommend that you set all key actions to **Go To Ans Mode**. Set the timeout for this mailbox to **0** (zero).

- 2 Record the name for this mailbox. For more information about recording mailbox names, see *System Administration Guide*.

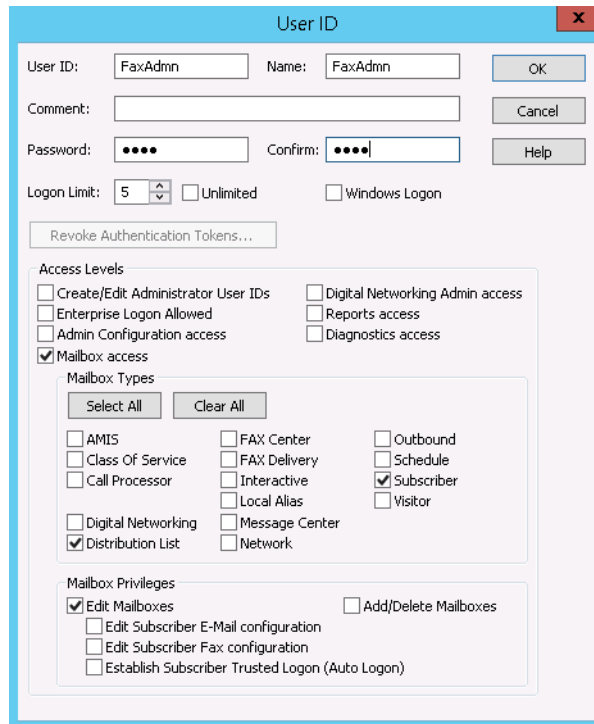
Creating Administrator Account for MiCollab AM Web Services Connection

You must create an administrator account that XMediusFAX can use to post received fax messages to MiCollab AM. XMediusFAX uses this account to authenticate against the MiCollab AM web services connection when posting received fax messages to MiCollab AM.

You must also make sure that this account is setup for web impersonation through the **Database** feature in the **MiCollab AM Configuration** utility.

To create an administrator account for the MiCollab AM web services connection:

- 1 Log on to the **MiCollab AM Admin** utility, and then select **File > Administrators**.
- 2 Click **Add**. The User ID window displays.



The **User ID** dialog box is used to create or modify a user account. It contains the following fields and options:

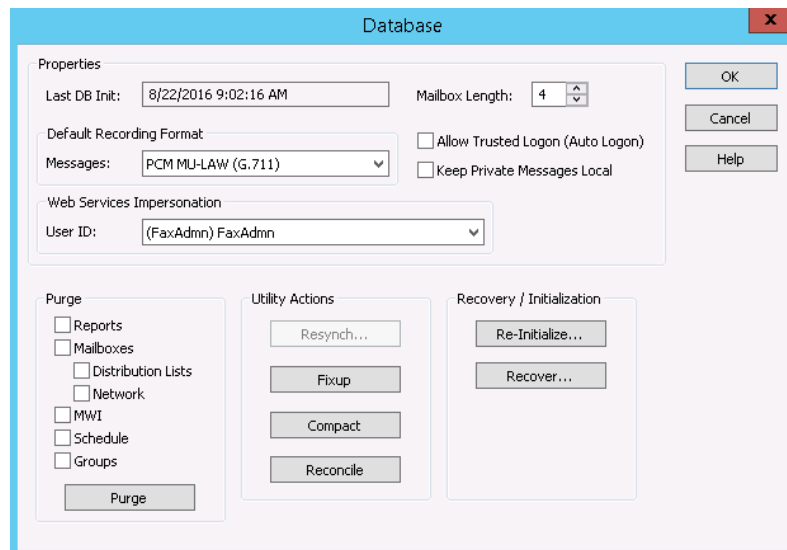
- User ID:** Text field containing "FaxAdmin".
- Name:** Text field containing "FaxAdmin".
- Comment:** Empty text field.
- Password:** Password field with masked characters (dots).
- Confirm:** Password field with masked characters (dots).
- Logon Limit:** Spin box set to "5", with an ☐ for "Unlimited".
- ☐ **Windows Logon**.
- Revoke Authentication Tokens...** button.
- Access Levels:**
 - ☐ Create/Edit Administrator User IDs
 - ☐ Enterprise Logon Allowed
 - ☐ Admin Configuration access
 - ☒ **Mailbox access**
 - ☐ Digital Networking Admin access
 - ☐ Reports access
 - ☐ Diagnostics access
- Mailbox Types:**
 - Select All** and **Clear All** buttons.
 - ☐ AMIS
 - ☐ Class Of Service
 - ☐ Call Processor
 - ☐ Digital Networking
 - ☒ **Distribution List**
 - ☐ FAX Center
 - ☐ FAX Delivery
 - ☐ Interactive
 - ☐ Local Alias
 - ☐ Message Center
 - ☐ Network
 - ☐ Outbound
 - ☐ Schedule
 - ☒ **Subscriber**
 - ☐ Visitor
- Mailbox Privileges:**
 - ☒ **Edit Mailboxes**
 - ☐ Add/Delete Mailboxes
 - ☐ Edit Subscriber E-Mail configuration
 - ☐ Edit Subscriber Fax configuration
 - ☐ Establish Subscriber Trusted Logon (Auto Logon)

Buttons: **OK**, **Cancel**, **Help**.

- 3 In the **User ID** and **Name** fields, type the account ID and name. In this example, the administrator account created is **FaxAdmin**.
- 4 In the **Password** field, enter a password.
- 5 In the **Confirm** field, enter the same password.
- 6 Click **OK**.

To setup the administrator account for Web Services Impersonation:

- 1 Launch **MiCollab AM Configuration**, and then select the **Main** tab.
- 2 Click on the **Database** button. The **Database** window displays.



The **Database** dialog box is used to manage database properties and perform maintenance actions. It contains the following sections:

- Properties:**
 - Last DB Init:** Text field showing "8/22/2016 9:02:16 AM".
 - Mailbox Length:** Spin box set to "4".
 - Default Recording Format:**
 - Messages:** Dropdown menu showing "PCM MU-LAW (G.711)".
 - ☐ **Allow Trusted Logon (Auto Logon)**
 - ☐ **Keep Private Messages Local**
 - Web Services Impersonation:**
 - User ID:** Dropdown menu showing "(FaxAdmin) FaxAdmin".
- Purge:**
 - ☐ Reports
 - ☐ Mailboxes
 - ☐ Distribution Lists
 - ☐ Network
 - ☐ MWI
 - ☐ Schedule
 - ☐ Groups
 - Purge** button
- Utility Actions:**
 - Resynch...** button
 - Fixup** button
 - Compact** button
 - Reconcile** button
- Recovery / Initialization:**
 - Re-Initialize...** button
 - Recover...** button

Buttons: **OK**, **Cancel**, **Help**.

- 3 In the **Web Services Impersonation** section, select the administrator account you created in the previous section.
- 4 Click **OK**.

Configuring Fax Device for Subscribers

If you plan to have MiCollab AM to answer fax calls, each MiCollab AM subscriber must have a Fax device configured as the Fax device number is used as the target when transferring fax to XMediusFAX.

NOTE The fax device number added in this section must match the fax number configured for the **XMedius Internal User** explained in the [Creating XMediusFAX Internal User for Each MiCollab AM Subscriber Mailbox](#) section.

IMPORTANT Call routing for each Fax device number you wish to have routed to XMediusFAX must be configured within the telephone system at your site in order for MiCollab AM to successfully transfer fax calls to XMediusFAX over SIP trunk.

To add a fax device to the subscriber's device:

- 1 Log on to **MiCollab AM Admin**.
- 2 Open the Subscriber Mailbox to edit, and then click the **Devices** tab.

The screenshot shows the 'Devices' tab in the MiCollab AM Admin interface. The 'Device List' table is empty. The 'Properties' section shows the following configuration:

- Number: 1200
- Type/Capabilities: Fax
- Category: Extension
- Active: ☒
- Primary Device: ☐
- Primary Mobile Device: ☐
- Category Default: ☐
- Mailboxes Sharing this Number: (empty)
- Extension Properties:
 - MWI: ☐
 - Switch Section: Asterisk Asterisk Section
 - Direct Dial: (empty)
 - SMDI Prefix: (empty)
 - Enable Fax Tone Detection: ☐
- Barge In Sensitivity: 0

- 3 Click the **Add** button. The **Add "Device"** dialog box displays.

4 In the **Add “Device”** dialog box, create a fax device as follows:

a In **Category**, select **Extension**.

b In **Name**, type *Fax Extension*.

c Click **OK**. You are taken back to the **Device** tab.

5 In the **Properties** section, configure the following options:

a In the **Number** field, add the fax extension device number.

b From the **Type/Capabilities** dropdown list, select **Fax**.

6 Click **OK** to save the changes and exit.

Configuring E-mail address for Subscribers

NOTE The e-mail address configured in this section must match the **SMTP Address** configured for the **XMedius Internal User** explained in the [Creating XMediusFAX Internal User for Each MiCollab AM Subscriber Mailbox](#) section.

To add an E-mail address to the subscriber mailbox:

1 Log on to **MiCollab AM Admin**.

2 Open the Subscriber Mailbox to edit, and then click the **Main** tab.

The screenshot shows the 'Subscriber Mailbox' configuration page in the MiCollab AM Admin interface. The 'Main' tab is selected, and the 'E-mail' field is highlighted. The page includes various sections for configuring the mailbox, such as 'Subscriber Information', 'Speech Recognition Names', 'Enable Mailbox', 'Group Assignments', 'Security Code', and 'Availability Processing'. The 'E-mail' field is set to 'xmuser01@domain.local'.

- 3 In the **Subscriber Information** section > **E-mail** field, enter an e-mail address.
- 4 Click **OK** to save the changes and exit.

Integrating XMediusFAX with MiCollab AM

The Python scripts provided in the MiCollab AM Installation Media (...\\Utilities\\XMedius\\inboundnotifier\\Readme) allow XMediusFAX to deliver inbound faxes to MiCollab AM.

To ensure that XMediusFAX can deliver inbound faxes to MiCollab AM, you must perform the following steps:


- Configure the administrator account on XMediusFAX for use with MiCollab AM
- Install the Mitel Inbound Notification Python module.
- Adjust the parameters in the **avstinboundnotifier.ini** file.
- Create a Python destination for Mitel inbound notification.
- Configure the incoming routing table in XMediusFAX to enable Mitel notification for inbound fax.
- Create as many XMediusFAX internal users as required, one for each MiCollab AM subscriber mailbox through the XMedius administrative application.

Configuring the Administrator Account on XMediusFAX for Use with MiCollab AM

You must configure an administrator account on XMediusFAX for use with CX so that it can send faxes for outbound delivery.

To configure administrator account on XMediusFAX:

- 1 Launch the XMediusFAX administrative application, and then go to **System Configuration > Administrators**.
- 2 In the **XMediusFAX** application, click the **Add Record** icon from the toolbar to add a new administrator account. The **Administrator Properties** window displays.



- 3 In the **Name** field, enter *CXFaxAdmin*.
- 4 In the **Password** field, enter *CallXpress*
- 5 In the **Confirm Password** field, re-enter *CallXpress*.
- 6 Click **Create**.

NOTE The name and password of the administrator account must be *CXFaxAdmin* and *CallXpress* respectively in order for MiCollab AM to send faxes for outbound delivery.

Installing the Mitel Inbound Notification Python Module

The Mitel Inbound Notification Python module requires one external module to be installed on the XMediusFAX server. If this module has not already been installed on the XMediusFAX server, install using the executable file **MySQL-python-1.2.5.win32-py2.7.exe** provided in the MiCollab AM Installation Media (...\\Utilities\\XMedius\\inboundnotifier).

Copy the following files provided in the MiCollab AM Installation Media to the folder, **C:\\Python27\\Lib\\site-packages**:

- avstinboundnotifier.py
- cxesoxp.py
- avstinboundnotifier.ini

IMPORTANT

1. Execute this step on all XMediusFAX servers where the SMTP gateway is installed.
2. Any modifications made afterwards to these files within the folder **C:\\Python27\\Lib\\site-packages** will require a restart of the XMSMTPGateway service on the local machine.

Adjusting Parameters in avstinboundnotifier.ini

You will need to adjust the parameters in the **avstinboundnotifier.ini** file according to your environment as shown in the example below:

[CXESettings]

ServerAddress=172.16.4.79
ServerPort=18276
AdminAccountName=FaxAdmin
AdminAccountPassword=0000
DefaultSenderMailboxId=0000

[MySQLSettings]

Host=localhost
Port=3306
User=CoconfigUser
Password=CoconfigUser
QueryAttribute=fax

Table 2. **[CXESettings]** - Settings for MiCollab AM Web Services Connection

Parameter	Description
<i>ServerAddress</i>	Specify the IP address or the FQDN of the MiCollab AM server.
<i>ServerPort</i>	Specify the port number on which MiCollab AM is listening. The default port number is 18276 .
<i>AdminAccountName</i>	<p>Specify the administrator account name you created previously in the Creating Administrator Account for MiCollab AM Web Services Connection section.</p> <div>IMPORTANT The name of the admin account for the MiCollab AM web services connection has to be setup for Web Impersonation through the Database feature on the Main tab of the MiCollab AM Configuration utility. For more information, refer to the Creating Administrator Account for MiCollab AM Web Services Connection section.</div>
<i>AdminAccountPassword</i>	Specify the admin account password.
<i>DefaultSenderMailboxId</i>	<p>The MiCollab AM source mailbox ID you created previously in the Creating Source Mailbox for Delivering Faxes section.</p> <div>NOTE While this mailbox can be a subscriber mailbox, we strongly recommend that you use a call processor mailbox, which does not require a security code.</div>

Table 3. **[MySQLSettings]** - Settings to Access XMediusFAX Internal User Database

Parameter	Description
<i>Host</i>	Specify the server name hosting the database
<i>Port</i>	Specify the port number on which SQL server is listening
<i>User</i>	Specify the user account name

Password

Specify the user account password

QueryAttribute

Type fax as the query attribute

Creating Python Destination for Mitel Inbound Notification

To create a Python destination for Mitel Inbound notification:

- 1 Launch the XMediusFAX administrative application, and then go to **Sites > <Your Site Name> > Configuration > Notification Destination > Python Scripts**.
- 2 In the **XMediusFAX** application, click the **Add Record** icon from the toolbar to add a new Python script. The **Python Script Properties** window displays.

Python Script Properties

Python Script

Display Name: Mitel Inbound Notification

Python Code:

```
import avstinboundnotifier
import faxnotification
import ConfigParser

CONFIG_FILE_PATH = 'C:\\Python27\\Lib\\site-packag

if not 'open' in __builtins__.__dict__:
    __builtins__.__dict__['open'] = open

if fax == None or fax.Type != 'Inbound':
    message = 'Not an inbound fax'
    if fax != None:
        message = message + ': ' + str(fax.TransactionID)
    raise RuntimeError, faxnotification.PermanentE

try:
    config = ConfigParser.ConfigParser()
    config.read(CONFIG_FILE_PATH)
    mysql_settings = avstinboundnotifier.read_conf
    ws_settings = avstinboundnotifier.read_conf
    try:
        sender_emails = avstinboundnotifier.get_in
        if len(sender_emails) > 1:
            sender_email = None
        else:
            sender_email = sender_emails[0]
    except avstinboundnotifier.GeneralError, e:
        sender_email = None
    recipients = avstinboundnotifier.get_internal
    avstinboundnotifier.route_fax_to_cxe(fax, ws_s
except avstinboundnotifier.GeneralError, e:
    raise RuntimeError, faxnotification.PermanentE
```

Timeout (seconds): 120

☒ Make this destination available to all users for forward operation

Notification Options

☐ Notify on Broadcast

☒ Notify on Outbound Success

☒ Notify on Outbound Failure

☒ Notify on Inbound Success

☒ Notify on Inbound Failure

OK Cancel

NOTE The new **Python Script Properties** window will not show the boxes filled in with values as shown in this example. This example displays the Python Script Properties that have been configured.

- 3 In the **Display Name** field, enter the name. For example, *Mitel Inbound Notification*.
- 4 In the **Python Code** field, copy and paste the following content.

NOTE You can also find this script in the **Readme.txt** file from the MiCollab AM Installation Media (...\\Utilities\\XMedius\\inboundnotifier\\Readme.txt)

```
import avstinboundnotifier
import faxnotification
import ConfigParser

CONFIG_FILE_PATH = 'C:\\Python27\\Lib\\site-packages\\avstinboundnotifier.ini'

if not 'open' in __builtins__.__dict__:
    __builtins__.__dict__['open'] = open

if fax == None or fax.Type != 'Inbound':
    message = 'Not an inbound fax'
    if fax != None:
        message = message + ': ' + str(fax.TransactionId)
    raise RuntimeError, faxnotification.PermanentError(message)

try:
    config = ConfigParser.ConfigParser()
    config.read(CONFIG_FILE_PATH)
    mysql_settings = avstinboundnotifier.read_config_section(config, 'MySQLSettings')
    ws_settings = avstinboundnotifier.read_config_section(config, 'CXESettings')
    try:
        sender_emails = avstinboundnotifier.get_internal_user_from_did(fax.ANI,
            mysql_settings)
        if len(sender_emails) > 1:
            sender_email = None
        else:
            sender_email = sender_emails[0]
    except avstinboundnotifier.GeneralError, e:
        sender_email = None
    recipients = avstinboundnotifier.get_internal_user_from_did(fax.DID, mysql_settings)
    avstinboundnotifier.route_fax_to_cxe(fax, ws_settings, recipients, sender_email,
    fax.BannerLocation.None)
except avstinboundnotifier.GeneralError, e:
    raise RuntimeError, faxnotification.PermanentError(str(e))
```

- 5 In the **Timeout (seconds)** field, set the timeout to a high enough value, such as **120**, to allow XMediusFAX to submit large faxes to MiCollab AM.
- 6 Click **OK**.

Configuring Site Incoming Routing Table in XMediusFAX to Enable Mitel Notification for Inbound Fax

The **Incoming Routing Table** enables the automatic delivery of inbound faxes to the MiCollab AM server according to routing rules and criteria defined by the Administrator. It must be configured so that users can receive notification for inbound faxes

IMPORTANT Execute these steps for each Site that needs to be enabled with the Mitel notification for inbound fax.

To configure Site Incoming Routing Table:

- 1 Launch the XMediusFAX administrative application, and then go to **Sites > <Your Site Name> > Configuration > Incoming Routing Table**.
- 2 Depending on the complexity of your routing table, you can **create one Direct Rule for each DID**, or **create a single Python Rule for all of the DIDs**, or a combination of both options as follows:

[Option 1] Create one Direct Rule for each DID:

- a Click the **Add Record** icon to add a Direct Rule. The **Routing Table Entry Properties** window displays.

Routing Table Entry Properties

Routing

☒ Match DNIS/DID Pattern: *

☐ Match ANI Pattern:

☐ Match CSID Pattern:

☐ Match DTMF Pattern:

☐ Match barcode Pattern:

☐ Use OCR [Configure...](#)

Routing Destinations

Type: User

Filter:

Search

Add User

Search Results

Add to List

Destination

Type	User	Display Name
Python		Mitel Inbound Notification

Remove

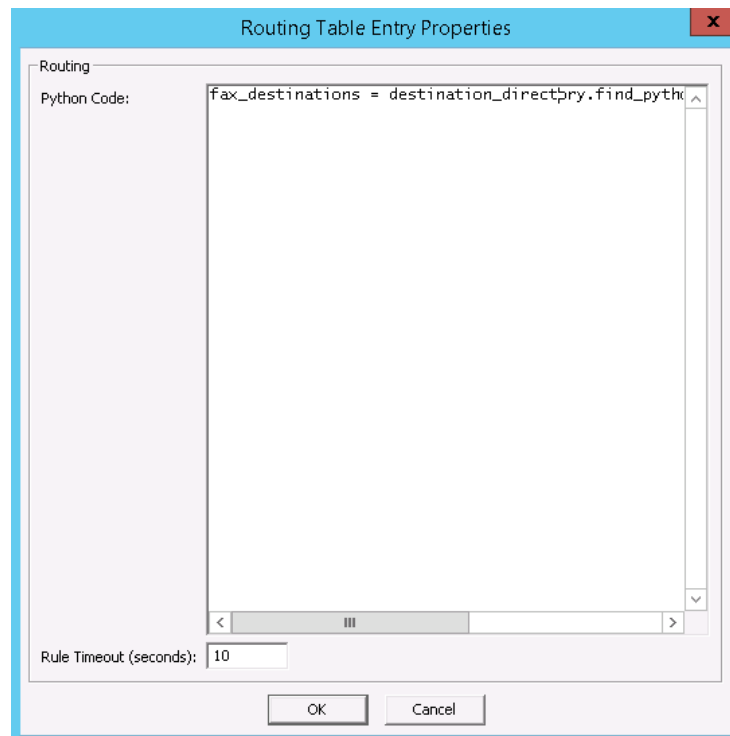
☐ If this routing entry matches, continue processing the routing table

OK Cancel

- b** Select the **Match DNIS/DID** box and write * in the **Pattern** field to match all incoming faxes.
- c** In the **Routing Destination** section, from the **Type** dropdown list, select **Python**, and then click **Search**. The list of search results is generated.
- d** From the **Search Results** box, select **Mitel Inbound Notification**, and then click **Add to List**. **Mitel Inbound Notification** is moved to the **Destination** box.
- e** Deselect the **If this routing entry matches, continue processing the routing table** box.
- f** Click **OK**.

[Option 2] Create a single Python Rule for all the DIDs:

- a** Select **Action > Add Python Rule**. The **Routing Table Entry Properties** window displays.



- b** In the **Python Code** field, copy and paste the following content:

```
fax_destinations = destination_directory.find_python('Mitel Inbound Notification')
```
- c** Make sure the value passed in the **find_python** call in the script above matches the name of the Python Destination created in the [Creating Python Destination for Mitel Inbound Notification](#) section.
- d** Leave the **Rule Timeout (seconds)** value as default.
- e** Click **OK**.
- f** Test the Site Incoming Routing Table with some DIDs to make sure it works as expected.

Creating XMediusFAX Internal User for Each MiCollab AM Subscriber Mailbox

Create as many **XMediusFAX Internal Users** as required using the XMedius administrative application, one internal user for each MiCollab AM subscriber mailbox, with the following minimum required properties:

- **SMTP Address:** Enter the MiCollab AM subscriber's e-mail address.
- **Fax:** (In **Personal Information** tab) Enter the fax device number associated with the MiCollab AM subscriber mailbox.

NOTE The fax number should be configured if you plan to have MiCollab AM to answer fax calls.

XMediusFAX will use the SMTP address of the **Internal User** (recipient) for which Fax attribute matches the DID of the fax when delivering inbound faxes to MiCollab AM. Therefore, it is important to make sure that each subscriber in MiCollab AM has the e-mail address configured that matches the SMTP address for the **Internal User** you created in XMediusFAX.

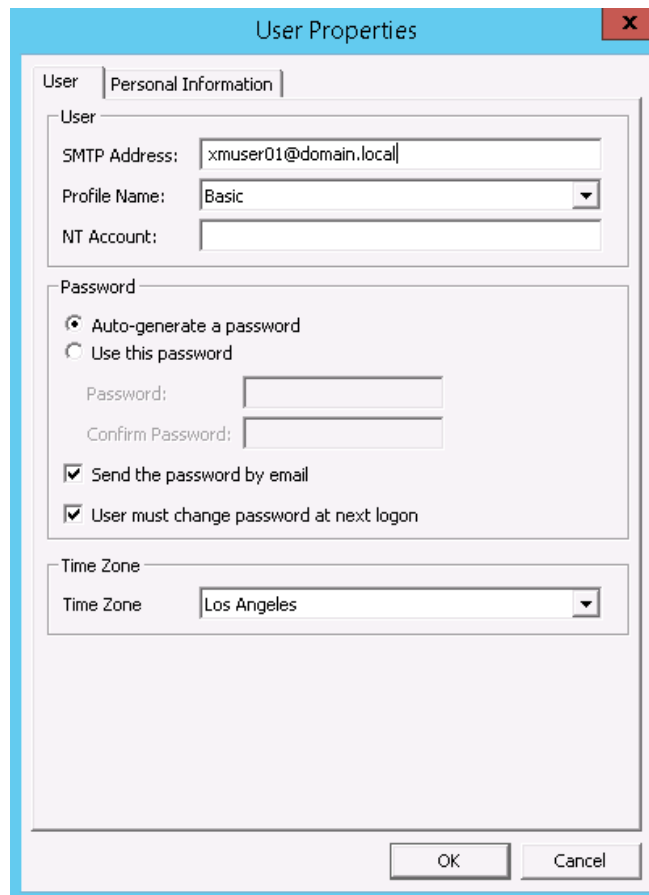
For more information on configuring e-mail address for the MiCollab AM subscribers, refer to the [Configuring E-mail address for Subscribers](#) section.

NOTE Active Directory integration is not supported with the Mitel Inbound Notification Python script. You must create as many XMediusFAX internal users as required, one for each MiCollab AM subscriber mailbox.

NOTE Multiple Internal Users can be created by the CSV file import. For more information, see the XMediusFAX Administrator Guide provided by XMedius.

To add XMediusFAX internal user:

- 1 Launch the XMediusFAX administrative application, and then go to **Sites > <Your Site Name> > Internal Users**.
- 2 Click the **Add Record** icon in the tool bar to add an internal user. The **User Properties** window displays in the **User** tab.



The image shows a Windows-style dialog box titled "User Properties" with a close button (X) in the top right corner. It has two tabs: "User" and "Personal Information", with "Personal Information" currently selected. The "User" section contains three fields: "SMTP Address" with the text "xmuser01@domain.local", "Profile Name" with a dropdown menu showing "Basic", and "NT Account" which is empty. The "Password" section has two radio buttons: "Auto-generate a password" (selected) and "Use this password". Below these are two empty text boxes for "Password" and "Confirm Password". There are two checked checkboxes: "Send the password by email" and "User must change password at next logon". The "Time Zone" section has a dropdown menu showing "Los Angeles". At the bottom right are "OK" and "Cancel" buttons.

User Properties

User | Personal Information

User

SMTP Address: xmuser01@domain.local

Profile Name: Basic

NT Account:

Password

☒ Auto-generate a password

☐ Use this password

Password:

Confirm Password:

☒ Send the password by email

☒ User must change password at next logon

Time Zone

Time Zone Los Angeles

OK Cancel

- 3 In the **SMTP Address** field, enter the MiCollab AM subscriber's e-mail address.
- 4 Configure all other options as necessary.
- 5 Click the **Personal Information** tab.

The image shows a 'User Properties' dialog box with a blue title bar and a red close button. It has two tabs: 'User' and 'Personal Information'. The 'Personal Information' tab is selected, showing four sections of form fields:

- Personal Information:** Salutation, First Name, Last Name, Title, Cellular, and Pager.
- Billing Information:** Billing Code and Sub Billing Code.
- Organization Information:** Organization, Address, City, State, Country, and Zip.
- Phone Number Information:** Phone and Fax. The Fax field has a placeholder mask: ***-***-****.

At the bottom right are 'OK' and 'Cancel' buttons.

NOTE If you plan to have MiCollab AM to answer fax calls, continue to **Step 6** to configure the fax number. Otherwise, skip to **Step 7**.

- 6** In the **Phone Number Information** section > **Fax** field, enter the fax number configured in the [Configuring Fax Device for Subscribers](#) section.
- 7** Configure all other options as necessary.
- 8** Click **OK**.