

MiCollab Advanced Messaging 9.4 Unified Messaging for Google Apps Administration Guide

For version 9.4 and above

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Preface

This guide explains how to implement MiCollab Advanced Messaging (MiCollab AM) Unified Messaging for Google Apps in an organization.

This guide is written for Mitel-certified administrators and technicians who are familiar with MiCollab Advanced Messaging (MiCollab AM) procedures and terminology, the **MiCollab AM Admin** utility, and the Microsoft Windows® operating system.

Before implementing any procedures in this guide, ensure that MiCollab AM software is installed and running successfully.

To successfully implement MiCollab AM Unified Messaging for Google Apps in an organization, the assistance of the following individuals, who constitute the implementation team, is required:

- MiCollab AM server administrator
- Google E-mail administrator
- MIS/IT support staff

IMPORTANT Verify that each member of the implementation team is given a copy of this guide several days or weeks before the implementation of MiCollab AM Unified Messaging for Google Apps.

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 MiCollab AM Documentation Library includes the following documents and resources:

- **Administration Documentation.** Available as a PDF only. Contains the following:
 - **Administration Guides.** Available as a PDF only. Contains administrative guides for administrators about how to manage and configure the messaging system.
 - **Quick Reference Cards (QRC).** Contains shortcuts and quick instructions telling subscribers how to access and use the messaging system.
 - **User Guides.** Available as a PDF only. Contains user guides for subscribers about accessing the messaging system and checking and sending messages.
- **Server Documentation.** Available as a PDF only. Contains the following:

- **Developer Resources.** Contains programming guides and API references for developers for integrating the server clients and web applications with MiCollab AM.
- **Installation and Configuration.** Available as a PDF only. Contains installation and configuration guides for server administrators about how to install and configure the messaging system.
- **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.
- **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: www.mitel.com

Help

The primary source of information about MiCollab AM is the online help available within any of its administrative utilities. You can access **Help** by clicking the **Help** button in the dialog box or window in which you are working.

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** Titles of other documents are shown in italics.

Example: See the *System Installation and Configuration Guide*.

- **User Interface (UI) Element Names.** Names of UI elements such as dialog boxes, windows, screens, menu items, tabs, buttons, and icons 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 MiCollab AM 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.

For more related documents, refer to the following list of references:

Table 1. References

Document Type	Document Title
Administration Documentation	<i>System Administration Guide</i>
Server Documentation	<i>System Installation and Configuration Guide</i>
Server Documentation	<i>XMediusFAX Integration Guide</i> (optional)
Server Documentation	<i>RightFax Integration Guide</i> (optional)
Quick Reference Card	<i>Original TUI QRC</i>

Frequently Used Terms

Table 2. Frequently Used Terms

Terms	Description
System Server	<p>Term refers to an organization's computer platform(s) that have MiCollab AM software installed and handles the core system functions such as storing messages, database.</p> <p>It can also refer generically to the System Server platform, the Call Server platform, or both. The term is most often used to describe a software or hardware installation or configuration practice where the role of the server platform is not specifically expressed.</p>
Call Server	<p>Term refers to an organization's computer platforms that have MiCollab AM software installed and serve as the interface to the system (PBX). The Call Server(s) interface with the System Server for the purpose of accessing messages, and database.</p>

What is MiCollab AM Unified Messaging for Google Apps?

MiCollab AM Unified Messaging for Google Apps is a client application that allows subscribers to manage voice, fax, and E-mail messages using an E-mail client application with Google Apps. MiCollab AM Unified Messaging for Google Apps stores all voice and fax messages on the Google Gmail server along with E-mail messages. This storage method is referred to as *server-based unified messaging* because subscriber messages are stored in Google Gmail not on MiCollab AM.

As each voice and fax message is sent to the subscriber, the message is automatically moved from the MiCollab AM server to the Google Gmail server, where it is accessible as a voice or fax message attachment to an email message. Subscribers can listen to their attached voice messages and open fax attachments from their Gmail E-mail client. The concept of managing voice, fax, and E-mail messages within a single application program is known as **Unified Messaging**.

If subscribers are using Microsoft Outlook as the E-mail client, they can enhance the client application so that it includes tools for handling voice and fax messages in addition to E-mail messages. For other Microsoft Windows-based E-mail clients, Mitel provides a special media player that subscribers can install on their Microsoft Windows workstation. The MiCollab AM media player allows subscribers to play voice messages from the workstation's speakers or the subscriber's telephone device.

MiCollab AM Unified Messaging for Google Apps Features

In addition to supporting standard MiCollab AM features over the telephone, MiCollab AM Unified Messaging offers a number of additional features:

- Allows subscribers to manage voice and fax messages, using Google Gmail.
- Allows subscribers to manage email messages over the telephone if the system is equipped with text-to-speech resources.
- Allows subscribers to view fax messages and to forward them as E-mail message attachments.
- Enables subscribers to listen to voice messages over a computer multimedia sound system, thus allowing them to use MiCollab AM functions without a telephone.

How MiCollab AM Unified Messaging Works

With MiCollab AM Unified Messaging for Google Apps, subscribers have two options for accessing their messages from the E-mail server's message store. They can use either the telephone user interface (TUI) or the graphic user interface (GUI) by using Google Gmail.

You must connect MiCollab AM to the local area network (LAN) that can access the customer's E-mail system. The MiCollab AM server and the E-mail server can be in different domains as long as there is Secure SMTP and Secure IMAP access to the Gmail site. The network allows MiCollab AM and the E-mail system to communicate. The relationship of the MiCollab AM server to the site's E-mail system and network is illustrated in the following image.

The heart of any E-mail system is the E-mail server, which tracks all the messages in the system. As messages are added and deleted, the E-mail server updates its post office database.

E-mail Access, running on the MiCollab AM server, communicates with the Gmail server. E-mail Access is used to retrieve messages from Gmail when a subscriber logs into their mailbox via the TUI. When a subscriber has immediate message notification enabled, E-mail Access polls the Gmail server each time the subscriber logs on to his mailbox and periodically thereafter. If E-mail messages are present in the subscriber's mailbox, E-mail Access generates an appropriate message to notify the subscriber.



Figure 1. Unified Messaging

E-mail Access and MiCollab AM Unified Messaging for Google Apps

E-mail Access is an advanced feature of MiCollab AM. MiCollab AM Unified Messaging functions discussed in this book depend on the proper installation of E-mail Access on the MiCollab AM server and the proper configuration of the E-mail servers. All of the requirements for E-mail Access apply equally to

MiCollab AM Unified Messaging for Google Apps. E-mail Access must be functioning before you can begin configuring MiCollab AM Unified Messaging for Google Apps.

NOTE For E-mail Access to function, all E-mail messages must be stored on the E-mail server. E-mail Access cannot access E-mail messages that are stored on the subscriber's workstation.

TUI Message Access

With TUI access, subscribers can manage their E-mail messages by telephone using MiCollab AM telephone commands. They begin this process by logging into the MiCollab AM server, which then checks their accounts on the Gmail server and enumerates their messages. MiCollab AM presents messages so that the subscribers can retrieve their information in the easiest way possible over the telephone.

- Voice messages are played back directly.
- E-mail messages are read aloud using text-to-speech capabilities, starting with information about the E-mail messages' subjects and senders. The E-mail messages must be in plain-text format to be read over the TUI.
- Fax messages are announced as such with their delivery dates, delivery times, and page counts, as well as the sender's name if the sender was another subscriber. The subscriber must send the fax message to a fax machine for printing to view it.

To improve message handling, subscribers can set MiCollab AM to present messages by type (voice, E-mail, or fax), allowing them to access specific types of messages quickly.

Message access through the TUI does not support inputting text or fax messages; it only supports voice forwards and replies to E-mail messages.

TUI access offers the following features:

- Subscribers are notified when they have received E-mail messages and are told the number received while they are logged on to their mailboxes.
- Subscribers can set the Immediate Message Notification feature of MiCollab AM to notify them when new E-mail messages arrive. If this feature is set, MiCollab AM calls subscribers at specified telephone numbers to notify them of new messages.
- Subscribers are informed of the time when each E-mail message was sent. Depending on what **envelope** information is available; MiCollab AM can also report the message's subject and read or play the sender's name.
- Subscribers can listen to their plain-text E-mail messages, if the text-to-speech feature is enabled for them. This feature allows MiCollab AM to **read aloud** the content of an E-mail message, speaking each message's subject, body, and any text-based attachments using synthesized speech.
- Subscribers can forward E-mail messages to other server-based unified messaging users, or to any other entries in their contacts, enabling them to distribute information quickly with a few key presses.
- Subscribers can reply to an E-mail message, sent by either internal or external parties, by recording a voice reply that is sent to the original E-mail sender as an attached **.wav** file.

- When an XMediusFAX fax server or a RightFax Enterprise fax server is installed at the site, subscribers print their fax messages by forwarding them to any fax machine. In addition, text file attachments (with a **.cmd**, **.bat**, or **.txt** extension) can be rendered on a fax machine as well, as can binary file attachments from such popular application programs as Microsoft Word® and Microsoft Excel®.
- MiCollab AM administrators can grant individual E-mail Access privileges to subscribers, such as allowing a subscriber to listen to E-mail messages through the TUI.

GUI Message Access

By default, the subscriber accesses their voice and fax messages along with their email messages via the Gmail client. The E-mail client handles voice and fax messages as follows:

- Identifies MiCollab AM messages as such in the subject line
- Includes an optional media player – the MiCollab AM Media Player for Windows includes media player controls that support the playback of voice message attachments. The subscriber can select either the computer sound device (if present) or telephone for playback.
- Allows subscribers to listen to voice messages over a computer sound device (such as a PC sound card), allowing them to use MiCollab AM functions without a telephone.
- Allows subscribers to manage (save, delete, forward, reply) all messages via the E-mail client
- Installs a fax viewer as part of the XMediusFAX installation

Message Enumeration

Both the user's **Inbox** and **Saved** folder can be enumerated over the telephone and the content of the E-mail messages read aloud. MiCollab AM enumerates and reads aloud any message found in the user's **Inbox** or **Saved** folders. It considers all unread messages in the **Inbox** folder to be new messages when it plays them back using the TUI. All messages in the **Saved** folder are considered to be saved when they are accessed using the TUI.

When using the GUI, if a subscriber moves a message of any type to a folder other than the **Saved** or **Inbox** folder, MiCollab AM is no longer able to access that message over the telephone.

Delete

Messages are marked for deletion in MiCollab AM, but are not deleted in the E-mail mailbox until the subscriber logs off from MiCollab AM. E-mail Access logs off from the subscriber's E-mail mailbox and the E-mail server moves the marked message to the **Deleted Items** folder. The deleted messages remain in the **Deleted Items** folder until the subscriber empties it.

Save

If the subscriber uses the TUI to read any message (voice, fax, or E-mail) and then saves that message, MiCollab AM considers the message saved and moves it to the **Saved** folder. E-mail Access informs the subscriber that the message is saved. If a folder called **Saved** does not exist, E-mail Access creates it when the first message is saved.

The TUI considers unread messages in the **Inbox** as new. Messages are considered saved if they are in the **Saved** folder, regardless of whether or not they have been read. If a message has been viewed or played but not saved, the TUI groups it with previously read new messages.

Text-to-Speech Rendering

The **From** line, **Subject** line, and body of all E-mail messages in the **Inbox** and **Saved** folders can be read aloud from the TUI using the **text-to-speech** feature. E-mail Access cannot find E-mail messages in other folders. Text file attachments (with a **.cmd**, **.bat**, or **.txt** extension) to E-mail messages can also be read aloud.

Message Notification

Subscribers are notified of normal, urgent, and private priority voice, fax, and E-mail messages, if normal, urgent, and private priority message notification is configured for the subscriber.

Replying to Messages

A subscriber may reply to the internal sender of a voice message via the TUI. Optionally, the original voice message can be included in the reply.

When a subscriber replies by E-mail to a voice or fax message, the original message is included in the reply. The subscriber uses the E-mail client's regular reply function which results in the creation of a standard E-mail reply.

Forwarding Messages

A voice or fax message may be forwarded to another subscriber via the TUI with or without a voice annotation.

If the subscriber chooses to forward the message with the E-mail client's standard forwarding function, a new mail message displays with the voice or fax attachment included. The subscriber may type text in the message or attach other files before sending the E-mail to any internal or external E-mail address.

Contacts, Calendaring, and Availability

The following table illustrates what aspects of contacts, calendaring, and availability are supported when a subscriber is configured to use the **Voice User Interface (VUI)**, MiCollab AM is integrated with Google Apps, and the user has a **Personal Assistant** license:

Table 3. Contacts, Calendaring, and Availability

Function	Support
Get Meeting / Appointment	Yes
Create Appointment	No
Delete Appointment	Yes
Get Contact Info	Yes
Availability Calendar Overrides	<i>Partial</i> , available only for Busy or Free states, not out-of-office.
Meeting Requests	No

Binary-to-Fax E-mail Attachment Rendering Support

When integrated to a RightFax Server, MiCollab AM supports the Server-Side Application (SSA) conversion engine used by RightFax Enterprise fax server versions 10.5, 10.0, 9.0, 8.0, and 8.5. This support allows a subscriber using the TUI to forward an E-mail message with a binary file attachment, such as a Microsoft Word document, to any fax machine and get printouts of the E-mail message and binary attachments. Subscribers can print out binary file attachments in the file formats used by the following programs:

- Microsoft Word 2000-2016
- Microsoft Excel 2000-2016
- Microsoft PowerPoint 2000-2016
- Visio 2000-2016

IMPORTANT The SSA feature is not supported on the same platform as MiCollab AM. SSA requires the installation of Microsoft Office products, such as Word and Excel, which are not allowed on the MiCollab AM platform.

The SSA conversion engine can also use the previously mentioned application programs to render binary file attachments from other application programs on any fax machine.

For a complete list of file attachment formats that can be rendered using the SSA conversion engine and information about configuring the feature on the fax server, refer to the RightFax documentation.

IMPORTANT If RightFax version 8.0 or later is installed on the fax server platform, subscribers must use Fax Delivery mailboxes set up for callback delivery to retrieve E-mail attachments. For

more information about fax delivery mailboxes, see the *Fax Messaging for RightFax Administration Guide*.

Critical Application Issues for Administrators

MiCollab AM administrators should be aware of the following critical application issues concerning MiCollab AM Unified Messaging for Google Apps:

- Message Cache on MiCollab AM
- Creating Appointments
- Out-of-Office Availability Overrides from the Calendar
- Enabling DKIM to Prevent Locked Accounts

Message Cache on the MiCollab AM Server

When configured with MiCollab AM Unified Messaging, the MiCollab AM server caches voice and fax messages to speed subscriber access to messages through the TUI. Voice and fax message attachments are stored in the cache as the message is delivered to the inbox on the external message store. When accessing the message, if the attachment is located in the local cache, MiCollab AM will not need to download the attachment, reducing any potential delay during message playback.

A server administrator can change the size of the cache by adjusting the **E-Mail Cache Size (Mbytes)** box on the **Tenant Summary** dialog box of the **Tenant** tab of **MiCollab AM Configuration**. Mitel recommends that the size of the cache be large enough that its automatic purge function is activated no more than once a day. An entry is recorded in the Windows event log each time the cache is purged.

Creating Appointments

MiCollab AM cannot create appointments in Google Apps because the Google Calendar API does not support voice attachments.

Out-of-Office Availability Overrides from the Calendar

Out-of-Office Availability Overrides from the Calendar are not supported.

Enabling DKIM to Prevent Locked Accounts

For security reasons, Gmail may lock accounts that have a very high level of activity. To prevent Gmail from locking the administrator account (which is used to send all messages into Gmail), you may wish to enable DKIM (Domain Keys Identified Mail). See the Gmail site for more details.

Configuration Requirements for Google Apps Unified Messaging

This section lists the configuration requirements for successfully enabling E-mail Access and MiCollab AM Unified Messaging for Google Apps. Be sure to review and meet these requirements before continuing with the other procedures discussed in this document.

There are optional files that can be installed on each subscriber's workstation. These files can be installed from either a network location or directly from the MiCollab AM Installation Media. For more details, refer to [Configuring a Workstation for use with Unified Messaging for Google Apps](#).

Server Installation Requirements

Be sure to review the following installation requirements to ensure that the correct files, versions, and service packs are installed.

E-mail Server Requirements

- Google Apps for Business

MiCollab AM Server Requirements

- System Server running Windows Server 2012 R2, Windows Server 2016 (Server with Desktop Experience), Windows Server 2019 (Server with Desktop Experience), or Windows Server 2022 (Server with Desktop Experience)
- MiCollab AM 9.4
- Feature file updated with E-mail Access and text-to-speech conversion channels enabled (optional)
- Web PhoneManager deployed
- Connection to the LAN
- Installation of the TCP/IP protocol to communicate with the E-mail server
- To read the content of E-mail messages and text-based attachments aloud using synthesized speech, text-to-speech channels must be purchased.
 - Only one subscriber can use a text-to-speech channel at one time.
 - To determine the number of text-to-speech resources for which the MiCollab AM server is currently licensed, the server administrator can refer to the **Features** tab in MiCollab AM Configuration.
 - To determine if additional text-to-speech channels are required based on the requirements of the site, contact Mitel Sales Engineering.

NOTE A subscriber's mailbox must be enabled for the **text-to-speech** feature so that the subscriber can listen to E-mail messages through the TUI.

Optional MiCollab AM Server Requirements

- To support fax functionality, either the XMediusFAX fax server or the OpenText RightFax Enterprise fax server must be installed and operational at the site. Refer to the XMediusFAX or RightFax documentation for requirements.
- To print binary file attachments to email messages, such as Microsoft Word documents, RightFax Enterprise fax server Version 8.0 or later must be installed at the site, but not on the MiCollab AM server. Refer to the RightFax documentation describing the SSA conversion engine.
- Depending on the E-mail Access features you want to use, you may need additional memory in the platform. Refer to the appropriate Software Release Notice to determine memory requirements.
- To support VUI access to Google Calendar and Contacts, the MiCollab AM feature file must be updated with Personal Assistant licenses for each subscriber that will use this functionality, and speech recognition channels enabled.
- To support automatic availability updates from Google Calendar, the MiCollab AM **feature file** must be updated with **Personal Assistant** licenses for each subscriber that will be enabled for availability.

Client Requirements

- Web PhoneManager is required to setup subscriber specific Google integration items.
- Each subscriber must maintain their Gmail password within MiCollab AM so that MiCollab AM is able to login to the subscribers Gmail account to retrieve messages and present them to the subscriber via the TUI or VUI. This password can be maintained using Web PhoneManager. This password must be updated every time the subscriber changes their Gmail password.
- Optionally, each subscriber must set up Google OAuth via Web PhoneManager in order to use the Google Calendar and Contacts integration.
- Optionally, the MiCollab AM Unified Messaging Connection Manager and Media Player for Windows can be installed on a subscribers Windows workstation to allow the subscriber to use their telephone as their playback device rather than the workstation's native media player.

Enabling E-mail Access

This section discusses the tasks that must be completed to successfully enable E-mail Access on the MiCollab AM server. It assumes that both the LAN and MiCollab AM are functioning properly.

This section covers the following tasks in sequence:

- Enabling E-mail Access Globally on MiCollab AM
- Enabling Lines for MiCollab AM Unified Messaging

NOTE If the optional MiCollab AM Media player (installed on the subscriber's Windows workstation) will be deployed, the MiCollab AM server administrator must enable lines on the **Lines** tab so the MiCollab AM system can make callouts. This type of callout allows subscribers to use a telephone to listen to messages when using the optional MiCollab AM Media Player.

In addition, the server administrator must verify that the values are appropriate for the **Incoming Line Reserve and Maximum Callouts** settings on the **Switch Section Options** dialog box from the **Switch Sections** tab.

Enabling E-mail Access Globally

For E-mail Access to function, the MiCollab AM server must maintain a continuous connection to the Google mail server. To ensure that this connectivity is preserved, you must enable E-mail Access globally. By enabling E-mail Access globally, you prepare the system server to link with the Google mail server.

NOTE If MiCollab AM is deployed as a hosted solution in the cloud, these steps are performed by the tenant administrator.

To enable E-mail Access globally:

- 1 Log on to **MiCollab AM Admin**.
- 2 From the menu bar, go to **Configuration > System**.
- 3 Select the **Messaging** tab.
- 4 Select the **E-mail Access Active** check box. E-mail Access does not work if this box is cleared.
- 5 Click **OK** to close **MiCollab AM Admin**.

Integrating with Google Apps

Once E-mail Access has been configured on the MiCollab AM system, you can proceed with enabling the MiCollab AM system and subscribers to integrate with Google Apps. The following is the list of required steps:

NOTE Web PhoneManager (WPM) is required to set up subscribers for integrating with Google Apps.

- Enable the Google OAuth API on the customer account
- Enable the Google API for Message Notifications (optional)
- Set up a MiCollab AM E-mail server profile for Google
- Configure subscribers for Unified Messaging, speech, etc.
- Have subscribers set up Google access via WPM

Enabling the Google API on the Customer Account

In order to take advantage of the Calendar and Contacts functionality of the MiCollab AM integration to Google Apps, it is necessary to enable a special Google API (OAuth 2) for the customer's Google account.

This API can only be enabled on a corporate Google account, not on a personal Gmail account. The API allows MiCollab AM to access the subscriber's Calendar and Contacts for the functions that require that type of access (read calendar, read contacts, sync contacts, use contacts to address messages, etc.).

Once this API is enabled for the account, the information from the API is used to configure the Google connector on the MiCollab AM system (see previous Install section). Follow the steps below to enable the APIs.

To enable the Google API:

- 1 The Gmail administrator logs onto the Google Cloud Platform: <https://console.cloud.google.com/>
- 2 If asked to sign in, use your Google account credentials to sign in.
- 3 Click on the dropdown menu in the top bar. This shows all existing projects.
- 4 Click **New Project** to create a new project. Enter a name for the project then click **Create**.
- 5 Click on the dropdown in the top bar and then select the newly created Project.
- 6 From the navigation menu in the top bar, under **API & Services**, select **Credentials**.
- 7 In the category called **Big Data**, select **Cloud Pub/Sub API** and click enable to enable this API.
- 8 Repeat Steps 6 & 7 to similarly enable **Gmail API** and **Gmail Calendar API** within the **G Suite** category, and the **Contacts API** within the **Social** category.
- 9 From the navigation menu, under **API & Services**, select **Credentials**.

- 10 On the **Credentials** screen, click the **Create credentials** button.
- 11 From the **Create credentials** list, select **OAuth client ID**.
- 12 On the next screen, click **Configure consent screen**. For user **Type**, select **Internal** in order to limit your app to G Suite users within your organization. Click **Create**.
- 13 On the **OAuth consent screen**, enter **Product name** to be shown to users and enter any other information that needs to be displayed to the users. Click **Save**.
- 14 From the **Application type** list, select **Web application**.
- 15 In the **Name** field, enter the web application name.
- 16 In the **Authorized JavaScript origins** field, click **Add URL** and enter the path of the web application.
For example:
<http://www.yourservername.com>
- 17 In the **Authorized redirect URIs** field, click **Add URI** and enter the path to the OAuth completion URL for the user app. This is of the form
For example:
<http://www.yourservername.com/user/oauth-complete>
In addition, for supporting OAuth for Simple UM and SMTP Notification Providers, enter the path to the OAuth completion URL for the admin app.
For example:
<http://www.yourservername.com/admin/provider-oauth-complete>
- 18 Click **Create**. The **OAuth client ID** and **client secret** are generated.

NOTE Copy these fields for later access. You can also access these fields by selecting **Credentials** under **API & Services** from the navigation menu.

- 19 Click **OK**.

Enabling the Google API for Message Notifications

The following steps are required only for enabling message notifications.

To enable the Google API for message notifications:

- 1 Log on to the Google Cloud Platform and select the **Project** that you created previously.
- 2 From the navigation menu, under **API & Services**, select **Credentials**.
- 3 On the **Credentials** screen, click the **Create credentials** button.
- 4 From the **Create credentials** list, select **Service account**.
- 5 In the **Service account** name field, enter a name for the Service account and click **Create**.
- 6 In the **Role** drop-down list, select **Role** as **Pub/Sub Subscriber**.
- 7 Click **Continue** and click **Done**.

- 8 Select the created service account for editing. Under **Keys** click **Add Key** to create a new key. Select **JSON** for the **Key type** and click **Create**. A JavaScript Object Notation (.json) file with the service account key will be downloaded onto your machine.

NOTE This file is required for configuring MiCollab AM. This is the only copy of the service account key, so keep it securely.

- 9 From the navigation menu, select **Pub/Sub** within **Big Data**.
- 10 On the left pane, select **Topics**, and then click **Create Topic**.
- 11 In the **Topic ID** field, enter a name for the topic and click **Create Topic**.

NOTE Copy the complete topic name (it looks like a path). This will be needed for configuring MiCollab AM.

- 12 In the right-hand side pane, under **Permissions**, click **Add Member**. This allows you to access Permissions for the topic.
- 13 In the **New members** field, enter gmail-api-push@system.gserviceaccount.com.
- 14 In the **Role** drop-down list, select **Pub/Sub Publisher**.
- 15 Click **Save**.
- 16 In the **Subscriptions** section towards the bottom of the page, click **CREATE SUBSCRIPTION**.
- 17 In the **Subscription ID** field, enter a name for the subscription. Make sure the **Delivery Type** field is set to **Pull**. It is recommended to select **"Never expire"** for the **Subscription expiration** field. Click **Create**.

NOTE Copy the complete subscription name (it looks like a path). This will be needed for configuring MiCollab AM.

- 18 Log out of Google Cloud Platform.

Enabling the E-mail Server Interface

The steps described in the following sections must be performed to interface the E-mail server with the MiCollab AM server. The steps you perform are consistent, in general, but their specific details depend on the number of E-mail servers in the organization, how they are configured, and the requirements of the E-mail administrator.

NOTE If MiCollab AM is deployed as a hosted solution in the cloud, these steps are performed by the tenant administrator.

NOTE Adding e-mail server profiles requires a restart of MiCollab AM before a new e-mail server profile can be used. Until MiCollab AM is restarted, access to e-mail messages may not be available. If MiCollab AM is deployed as a hosted solution on the cloud, contact your server administrator to schedule a restart of your system.

Creating Messaging Server Profiles to Communicate with the Google Server

Creating Messaging Server Profiles on MiCollab AM to communicate with Google Apps involves two steps: configuring the E-mail Cache Size, and adding an E-mail profile to the tenant.

NOTE If MiCollab AM is deployed as a hosted solution in the cloud, the creation of messaging server profiles for Google Apps requires the server administrator to configure the E-mail Cache Size, and the tenant administrator to add an e-mail profile to the tenant.

To configure the E-mail Cache Size:

- 1 Verify that you are logged on to the MiCollab AM server using a MiCollab AM service account that has been granted local administrator rights.
- 2 Open **MiCollab AM Configuration** and select the **Tenant** tab.
- 3 Select a tenant, and then click the **Edit** button. The **Tenant Summary** dialog box appears.
- 4 Set the **E-Mail Cache Size (Mbytes)** to a value between **10** and **500** megabytes (MB), and then click **OK**.

IMPORTANT This cache speeds up telephone access to messages stored on Google Apps. Increase the cache size if the following message appears in the Event Viewer Application log more than once a day: *External Mail Cache purged*.

- 5 Click **OK** to close **MiCollab AM Configuration**.

To add an E-mail Profile:

NOTE Adding e-mail server profiles requires a restart of MiCollab AM before a new e-mail server profile can be used. Until MiCollab AM is restarted, access to e-mail messages may not be available. If MiCollab AM is deployed as a hosted solution on the cloud, contact your server administrator to schedule a restart of your system.

- 1 Start the **Admin** utility and log on using your administrator's name and password.
- 2 From the menu bar, select **Configuration > System**, and then select the **E-mail** tab.
- 3 Click **Add**. The **Server Profile** dialog box appears.

- 4 In the **Server Type** box, select **IMAP**.
- 5 In the **Server Sub Type** box, select **Google**. The **Google Server Information** section and the **Google Message Notification** section appears on the right.

- 6 Select the **Enabled** checkbox.

NOTE The **Enabled** checkbox becomes active when you type a name in the **Display Name** box.

- 7 Select the **Supports External Mail Store** checkbox.
- 8 In the **Display Name** box, type a unique name for the messaging server (30 characters or less).
- 9 In the **Incoming IMAP Server** box, enter the FQDN or TCPIP address of the incoming E-mail server.
- 10 In the **Incoming IMAP Server Encryption Type** option, select the encryption type to use for this IMAP server. The default is **None**.
 - **None** - No encryption method is used.
 - **Auto** - The encryption method is auto-negotiated between the client and the provider.
 - **TLS** - Messages are encrypted using Transport Layer Security.

- **SSL** -Messages are encrypted using Secure Socket Layer.
- 11** In the Incoming IMAP Server **Port** box, enter the incoming TCP port number. The default port is 143 for regular IMAP.
- **None** – 143
 - **Auto** – 143
 - **SSL** – 993
 - **TLS** – 143
- 12** Enter the Outgoing Server information as follow:
- If the **Outgoing SMTP Server** is NOT the same as the **Incoming IMAP Server**, continue to **Step 15**.
 - If the **Outgoing SMTP Server** is the same as the **Incoming IMAP Server**, select the **Same as Incoming Server** box, and then skip to **Step 18**.
- 13** In the **Outgoing SMTP Server** box, enter the FQDN or TCPIP address of the outgoing email server.
- 14** In the **Outgoing SMTP Server Encryption Type** option, select the encryption type to use for this outgoing server. The default is **None**.
- **None** - No encryption method is used.
 - **Auto** - The encryption method is auto-negotiated between the client and the provider.
 - **TLS** - Messages are encrypted using Transport Layer Security.
 - **SSL** -Messages are encrypted using Secure Socket Layer.
- 15** In the **Outgoing SMTP Server Port** box, enter the outgoing TCP port number. The default port is 25 for regular IMAP.
- **None** – 25
 - **Auto** – 25
 - **SSL** – 465
 - **TLS** – 587
- 16** In the **MWI Registration Refresh** area, choose whether to do an MWI refresh and the associated time.
- 17** In the **IMAP Voice File Extension** option, select whether the voice message files should be delivered in UMA or WAV.
- 18** If the **Outgoing SMTP Server** account requires authentication, in the **Outgoing SMTP Server Account** section, select the **Enable SMTP Authentication** box.
- 19** Enter the **Primary E-mail address**, **Logon ID**, **Password**, and **Confirm Password** for the user account that authenticates the outgoing server.
- NOTE** This E-mail address should not belong to any existing subscriber. It can be the MiCollab AM account or another utility account.
- 20** Configure the maintenance options for the messaging server profile as follows:
- If you want to stop E-mail Access during E-mail server maintenance, continue to **Step 21**.

- If you do not want to stop E-mail Access during E-mail server maintenance, skip to **Step 24**.

- 21** In the **Maintenance** section, select the **Enabled** checkbox.
- 22** In the **Start** box, select a time to disable the messaging server profile so that maintenance of the E-mail server can begin.
- 23** In the **Stop** box, select a time to re-enable the messaging server profile when maintenance of the E-mail server is complete.
- 24** Optionally, if you are going to integrate to Google Calendar and Contacts, in the **Google Server Information** section, configure the following information:

NOTE Google has used SASL (Simple Authentication and Security Layer) to add their own OAuth2-based authentication mechanism to IMAP and SMTP protocols. This authentication mechanism is called XOAUTH2.

For information on how to get Google Server OAuth account information, refer to [Enabling the Google API on the Customer Account](#).

- a Google Application Name** - Enter the name chosen when registering the application via Google Cloud Platform. This is the site-specific name of the application that is registered with Google.
- b OAuth Client ID** - Enter the client ID obtained upon registration of the application via Google Cloud Platform.
- c OAuth Client Secret** - Enter the client secret obtained upon registration of the application via Google Cloud Platform.
- d OAuth Redirect URL** - Enter the URL to which Google redirects the user after completing authorization. The value for this field should exactly match the value that was supplied when registering the application via Google Cloud Platform.
- e Use OAuth2 Authentication for E-mail** - Select this checkbox if you want to allow the system to use the user's OAuth2 access token within SASL XOAUTH2 to authenticate the user.

NOTE When this checkbox is selected, user's email password will not be stored in MiCollab AM. Thus, go to **Subscriber Mailbox > E-mail** tab, and disable the **Logon - Password** fields.

- 25** Optionally, if you are going to enable the Message Waiting Indicator (MWI) for messages stored in Google Gmail, in the **Google Message Notification** section, configure the following information:
 - a Topic** - Enter the topic configured in Google Cloud Platform.
 - b Subscription** - Enter the subscription configured in Google Cloud Platform.
 - Service Account**
 - c Email Address** - Enter the email address for the Service Account in Google Cloud Platform.
 - d Private** - Enter the private key for the Service Account in Google Cloud Platform.
 - e Import Settings from File button** - Click this button to automatically configure the **Service Account Email Address** and **Private Key** fields. In the **Google Service Account Import File**

dialog box, choose the JavaScript Object Notation (.json) file you downloaded while configuring Google.

26 Click **OK** to close the **Server Profile** dialog box.

27 On the **E-Mail** tab, click **Apply**, and then click **OK**.

Configuring a Subscriber for Unified Messaging

The following steps must be performed on each Subscriber mailbox that uses Unified Messaging.

To configure Subscriber mailboxes for use with Unified Messaging:

- 1 Start the **MiCollab AM Admin** utility, and then log on using an administrator account that has permission to edit Subscriber mailboxes and update their E-mail configuration.

NOTE If you are not certain that your account has such permissions, consult with the system administrator.

- 2 Locate and then open the **Subscriber** mailbox.
- 3 In the **Subscriber Mailbox** dialog box, click the **E-mail** tab. The **E-mail** tab appears.

The screenshot shows the 'Subscriber Mailbox' dialog box for 'SUBSCRIBER EXAMPLE'. The 'E-mail' tab is selected. The dialog is divided into several sections:

- Message Access by Client Applications:** Radio buttons for 'None', 'Unified Messaging' (selected), and 'ICA'.
- Message Storage Location:** Radio buttons for 'Local' and 'External' (selected).
- Msg Access by Telephone:** Check box for 'E-mail' (checked).
- E-mail server information:**
 - Server Profile:** Dropdown menu showing 'Google Apps'.
 - Server Profile Type:** 'IMAP'.
 - Display Name:** 'MyName'.
 - E-mail Address:** 'email@company.com'.
 - Logon ID:** 'email@company.c'.
 - Password:** Masked with '*****'.
 - Confirm Pwd:** Masked with '*****'.
- Unified Messaging User License:** Check box for 'Allocate License' (checked). Available Licenses: 499.
- Enumeration Settings:**
 - Partial Msg Enumeration:** Check box (unchecked).
 - Unread Msg Enumeration Limit:** Radio buttons for 'By Days' (selected) and 'By Msg Count'. Limit: 10.
- Simple UM:**
 - Enable Simple UM:** Check box (unchecked).
 - Let user see and configure setting:** Check box (unchecked).
 - E-mail Address:** Text field.
 - Let user see and configure setting:** Check box (unchecked).
 - Simple UM Provider:** Dropdown menu showing 'Default Provider'.
 - Let user see and configure setting:** Check box (unchecked).
 - Include WAV Attachment:** Check box (unchecked).
 - Let user see and configure setting:** Check box (unchecked).
- Primary Message Template:** Dropdown menu showing 'Default'.
- Integrated Client Access:** Text field for 'Reply-To Address'.
- Presence server information:**
 - Server Profile:** Dropdown menu showing '{None}'.
 - Server Profile Type:** Text field.
 - Display Name:** Text field.
 - E-mail Address:** Text field.

At the bottom right, there are 'OK', 'Cancel', and 'Help' buttons.

- 4 In the **Unified Message User License** group, check **Allocate License**. To allocate a license, you must have a Messaging User License assigned to the subscriber in the **Features** tab.
- 5 In the **E-mail server information** group, select the messaging server profiles created in the previous procedure.

NOTE The Enable profile box is automatically selected for this profile.

- 6 In the **Display Name** box, type the subscriber's name. This name must be unique to each subscriber. The E-mail server administrator can provide this information.
- 7 In the **Logon ID** box, type the subscriber's IMAP username or E-mail logon ID.
- 8 In the **Password** and **Confirm Pwd** boxes, type and re-type the subscriber's password.

NOTE Typically, a subscriber changes his or her own password using the **Unified Messaging Connection Manager** or **Web PhoneManager** utility. If this is the case, then you can leave the **Password** and **Confirm Pwd** boxes blank.

- 9 In the **Message Access by Client Applications** section, select **Unified Messaging**.
- 10 In the **Message Storage Location** section, select **External**.
- 11 In the **Msg Access by Telephone** section, select the **E-mail** checkbox to enable TUI access for E-mail messages. This option allows a subscriber to listen to E-mail messages through the TUI.
- 12 Click **OK** to close the **Subscriber Mailbox** dialog box.
- 13 Repeat **Steps 2** through **12** for each subscriber you want to allow E-mail Access.

Configuring a Subscriber for Speech, Contacts and Calendar (Optional)

Configure the **Personal Assistant** functionality for each subscriber to provide support for speech, Google Calendar and Contacts integration.

To configure Subscriber mailboxes for speech, contacts, and calendaring:

- 1 Start the MiCollab AM Admin utility, and then log on using an administrator account that has permission to edit Subscriber mailboxes and update their E-mail configuration.

NOTE If you are not certain that your account has such permissions, consult with the system administrator.

- 2 Locate and then open the **Subscriber** mailbox.
- 3 In the **Subscriber Mailbox** dialog box, click the **Speech** tab. The **Speech** tab appears.

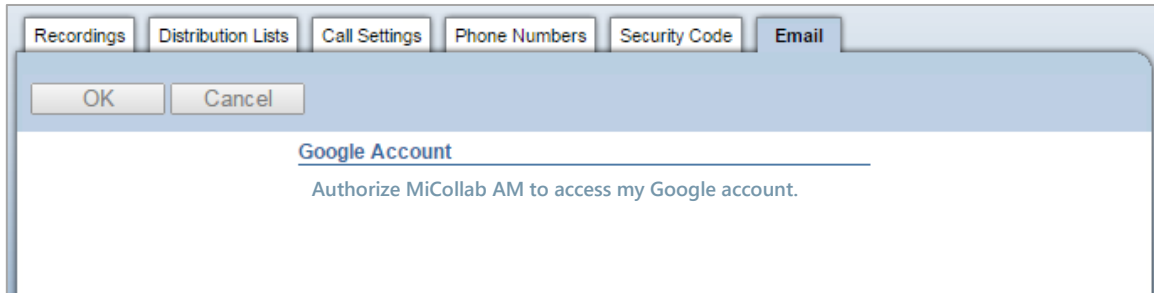
The screenshot shows the 'Speech' configuration tab in the Web PhoneManager interface. The 'VUI' section contains two sub-sections: 'Subscriber Session' and 'Call Completion'. In 'Subscriber Session', both 'Use Speech Recognition' and 'Let user see and configure setting' are checked. In 'Call Completion', 'Use Speech Recognition' is checked. Below these is a 'Culture' dropdown set to 'English - United States' (en-US). The 'Subscriber Access' section has 'Allow Callback' checked. The 'Personal Assistant Features' section has 'Allow Call Recording' and 'Allow Calendaring' checked. The 'Contacts' section has 'Refresh Mode' set to 'Disable' and 'Store Location' set to 'External'. The 'Email Signature' section has 'Use Standard Company Signature' checked.

- 4 In the **VUI** section, in the **Subscriber Session** section, select the following: **Use Speech Recognition** and **Let user see and configure setting**.
- 5 In the **VUI** section, in the **Call Completion** section, select **Use Speech Recognition**.
- 6 In the **Contacts** section, select **Disable** from the **Refresh Mode** list, and select **External** from the **Store Location** list.
- 7 In the **Personal Assistant Features** section, select the **Allow Calendaring** check box.
- 8 Click **OK** to close the **Subscriber Mailbox** dialog box.
- 9 Repeat **Steps 2** through **8** for each subscriber you want to configure speech, contacts, and calendaring.

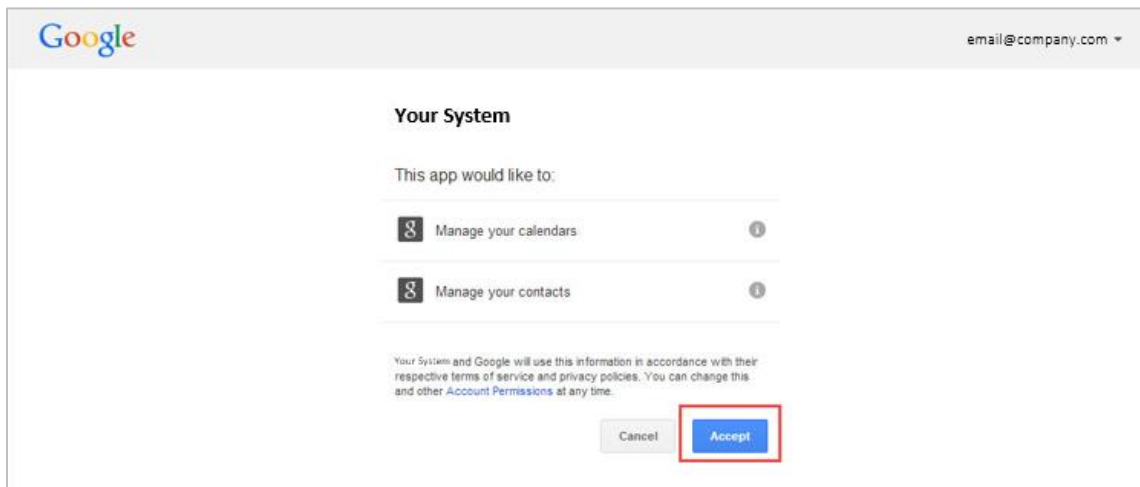
Subscriber Setup via Web PhoneManager

For a subscriber to set up their Google account access via Web PhoneManager:

- 1 Sign in to Web PhoneManager.
- 2 From the menu, select **Personal Settings**.
- 3 Select the **Email** tab.



- 4 Click the **Authorize MiCollab AM to access my Google account** link.
- 5 When directed to the page that has options to provide the Google account credentials, provide the credentials, and then click **Accept**.



- 6 Verify the confirmation message in the **Email** tab of WPM.

NOTE If you change your Google password, you need to go in the Web PhoneManager to re-authorize your account.

Setting the File Attachment Type

By default, voice messages sent to Gmail will appear as wave file attachments with an **.uma** type file extension. This is set assuming the clients will want to use the MiCollab AM Media Player to play their messages (only available for Windows Workstations).

In most cases, with Unified Messaging for Google Apps, the users will play their messages from the Gmail web client and will want to play them using the native media player on their workstation.

To facilitate this, the system should be configured to use a **.wav** file extension for voice messages. Server administrators can set this on the **E-Mail** tab of **MiCollab AM Configuration**. The **IMAP Voice File Extension** drop-down list should be set to **.wav**.

E-Mail

Message Waiting Notification

TCP/IP Port: 60000

IMAP Voice File Extension: uma uma wav

MWI Registration Refresh: ☒ Enabled

MWI Change Tolerance: 3

OK Cancel Apply Help

Figure 2. System Configuration – E-Mail Tab

Configuring a Workstation for use with Unified Messaging for Google Apps

Installing the MiCollab AM Unified Messaging client creates a **Unified Messaging Connection Manager** utility in the Windows **Control Panel**, installs the MiCollab AM Media Player, and places an online help file in the MiCollab AM **Desktop** program group.

NOTE To support subscribers using Microsoft Outlook as an IMAP client program, you can optionally install MiCollab AM Unified Messaging for Microsoft Exchange.

This provides the subscribers with customized Outlook voice message forms and controls in addition to the components installed in MiCollab AM Unified Messaging for Google Apps.

For more information about installing Unified Messaging for Microsoft Exchange, refer to the MiCollab AM Unified Messaging for Microsoft Exchange online books.

Within the **Unified Messaging Connection Manager** utility in **Control Panel**, subscribers can configure their connection to the MiCollab AM server through the **Unified Messaging Connection Manager** dialog box. This connection must be configured before subscribers can use the MiCollab AM Media Player.

For specific information on using **Unified Messaging Connection Manager**, see the *MiCollab AM Unified Messaging Client* online help.

Since installing the client on each subscriber's desktop is a large task, there are three methods available: **push**, **pull**, and **direct**.

- The **push** method installs the client software on one or more workstations at the initiation of an administrator. While the workstations must be logged on to the server, no subscriber presence or action is required.
- The **pull** method distributes a link to one or more workstations so that the subscriber can initiate an installation of client software from a network source. The administrator need only setup a default subscriber profile before distributing the link.
- Both the **push** and **pull** methods can be managed through command line prompts or through third-party software. For more information on the command line prompts and the corresponding switches, see [Appendix D](#).
- The third method, **direct**, is accomplished by installing the client software from the MiCollab AM Installation Media at the subscriber workstation.

Administrative Setup of the MiCollab AM Unified Messaging Client on a LAN File Server

IMPORTANT If you plan to install the MiCollab AM Unified Messaging client using the push or pull methods, the client software must first be set up to a LAN file server prior to setting up each workstation.

Setting up the MiCollab AM Unified Messaging client software on a LAN file server requires an Administrative Setup. Performing an Administrative Setup copies the necessary software components of the MiCollab AM Installation Media to a shared directory on the LAN file server and creates a default subscriber profile.

This client and profile can then be **pushed** to client workstations, or subscribers can **pull** from this shared location and run **Setup** to install the MiCollab AM Unified Messaging client to their local hard disk drives.

IMPORTANT Do not perform an Administrative Setup to the MiCollab AM server. Using the MiCollab AM server as a LAN file server can increase its vulnerability to viruses and negatively affect overall system performance.

To perform an Administrative Setup of Unified Messaging client software on a LAN file server:

- 1 Insert the MiCollab AM Installation Media into the appropriate drive of the file server from which you want the client setup file is to be installed.
- 2 Depending on which edition you wish to install, type or browse to one of the following command lines:
 - If you are installing the U.S. edition, type:
 - `<drive>:\Client Installs\Desktop Suite for IMAP\SBUM Client\USA\Setup.exe -a` **ENTER**
 - Skip to **Step 4**.
 - If you are installing the World edition, type:
 - `<drive>:\Client Installs\Desktop Suite for IMAP\SBUM Client\World\Setup.exe -a` **ENTER**
 - Continue with **Step 3**.

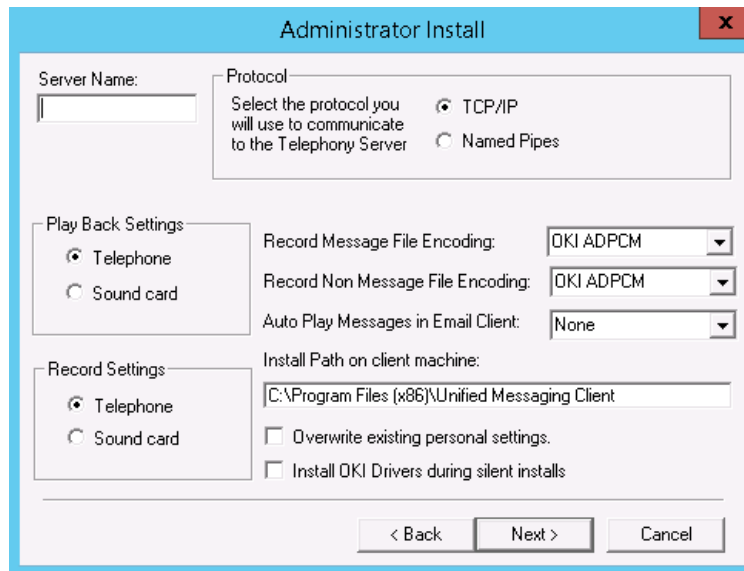
NOTE Replace `<drive>` with the drive letter appropriate for your installation.

- 3 From the list box within the **Choose Setup Language** dialog box, select the language you want to use during the setup process, and then click **OK** to continue.

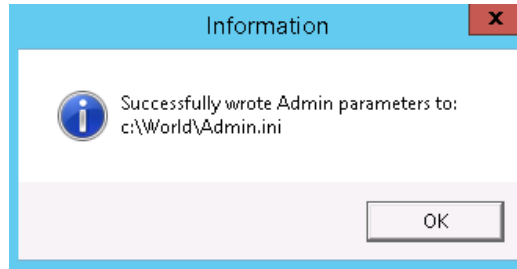
NOTE The language selection in this step affects only the setup program itself. The setup program copies support files for all available languages to the file server.

- 4 At the **Welcome** dialog box, click **Next**.

- 5 The **Administrator Install** dialog box appears. The properties set in this dialog box are used as defaults for client installations.

The image shows the 'Administrator Install' dialog box. It has a title bar with a close button (X). The dialog is divided into several sections. At the top left is a 'Server Name' text field. To its right is a 'Protocol' section with the text 'Select the protocol you will use to communicate to the Telephony Server' and two radio buttons: 'TCP/IP' (selected) and 'Named Pipes'. Below the 'Server Name' field is a 'Play Back Settings' section with two radio buttons: 'Telephone' (selected) and 'Sound card'. To the right of this is a 'Record Settings' section with two radio buttons: 'Telephone' (selected) and 'Sound card'. In the center-right area, there are three dropdown menus: 'Record Message File Encoding' (set to 'OKI ADPCM'), 'Record Non Message File Encoding' (set to 'OKI ADPCM'), and 'Auto Play Messages in Email Client' (set to 'None'). Below these is an 'Install Path on client machine:' text field containing 'C:\Program Files (x86)\Unified Messaging Client'. Underneath the path field are two checkboxes: 'Overwrite existing personal settings.' (unchecked) and 'Install OKI Drivers during silent installs' (unchecked). At the bottom of the dialog are three buttons: '< Back', 'Next >', and 'Cancel'.

- 6 In the **Administrator Install** dialog box, configure the following options:
- In the **Server Name** field, enter the name of the system server.
 - In the **Protocol** field, select either the **TCP/IP** or **Named Pipes** protocol.
 - In the **Playback Settings** and **Record Settings** fields, select the default playback and record settings. **Telephone** is the default selection.
 - In the **Record Message File Encoding** and the **Record Non-Message File Encoding** fields, select the file encoding format for client workstations. **OKI ADPCM** is the default value.
- NOTE** The client encoding settings can be set differently than those of the server. However, the client settings are overwritten when connection to the system server is established.
- In the **Auto Play Messages in Email Client** field, select an option. **None** is the default value.
 - In the **Install Path on Client Machine** field, enter the path or leave the default path as is. Make note of this path, you need it later in this procedure.
 - Select the **Overwrite existing personal settings** checkbox, if any existing client defaults should be changed to the new defaults.
 - Select the **Install OKI Drivers during silent installs** checkbox if the client workstations are using the OKI ADPCM encoding.
- 7 Click **Next**. The confirmation message displays stating the admin parameters have been saved. Click **OK**.



Setting Up the IMAP Client Software on a Workstation

Before the MiCollab AM Unified Messaging client can be configured, confirm that the following items are available for each subscriber workstation:

- A Subscriber mailbox on the MiCollab AM system
- Access to an external message store account on the E-mail server
- Telephone access to and from the MiCollab AM system to support audio playback

The MiCollab AM Unified Messaging client software can be set up either from a media or from a network drive.

NOTE If you want to set up the client software onto a computer running a Windows Server operating system, log on to the computer with an account that has local administrator rights to the server so that all necessary program components, especially the audio compressor/decompressor, can be installed correctly.

To set up the client software on a workstation from a network file server:

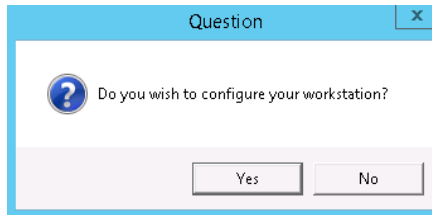
- 1 Locate the appropriate setup folder on the network file server. (The location of this file was established during implementation and then communicated to the subscriber base.)

NOTE A shortcut (.lnk file) to the setup file may appear on the subscriber desktop or be included in E-mail or web communication.

- 2 Double-click **Setup** to begin the setup process.
- 3 If the **Choose Setup Language** dialog box appears, select the language you want to use during the setup process, and then click **OK** to continue.

NOTE The language selection in this step affects only the setup program itself. The setup program copies support files for all available languages to the file server.

- 4 The **Welcome** dialog box appears. Verify that no other programs are running, and then click **Next**.
- 5 In the **Destination Folder** section of the **Choose Destination Location** dialog box, accept the default destination directory, type the path of another destination directory, or click **Browse** to locate another destination directory.
- 6 The **Question** dialog box appears.

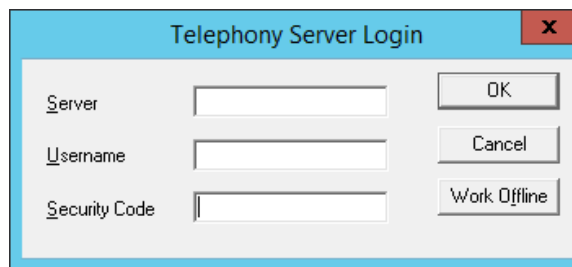


In the **Question** dialog box:

- Click **Yes** to access and configure the **Unified Messaging Connection Manager** utility immediately. Continue with **Step 7**.
- Click **No** if you want to configure the **Unified Messaging Connection Manager** utility later. Skip to **Step 8**.

NOTE You cannot use **MiCollab AM Unified Messaging** until you configure the settings in the **Unified Messaging Connection Manager** utility. For more information on configuring the utility, see the [Configuring the IMAP Client Settings](#) section.

- 7 If you clicked **Yes**, the **Telephony Server Login** dialog box displays that will allow you to log in to the **Unified Messaging Connection Manager** utility.



In the **Telephony Server Login** dialog box:

- a Enter the FQDN or the TCP/IP address of the System Server in the **Server** box, subscriber **Username**, and **Security Code**.

NOTE For a single tenant system, you can use either the MailboxID or the Username for the Telephony Server Login. If MiCollab AM is deployed as a hosted solution in the cloud, only the Username can be used.

NOTE If you are using TCP/IP as the connection protocol, use the TCP/IP address of the System Server. Contact your MiCollab AM or LAN administrator for this IP address, if necessary. Using an IP address in the Server Name box can avoid possible DNS or name resolution issues on a LAN.

Or click **Work Offline** if you want to configure the **Unified Messaging Connection Manager** utility locally without getting connected to the server.

- b When the **Unified Messaging Connection Manager** utility displays, configure the options as described in the [Configuring the IMAP Client Settings](#) section.
- c When finished configuring, click **OK**.

- 8 The **InstallShield Wizard Complete** dialog box displays prompting to restart your computer. Select the following:
 - Select **Yes** and click **Finish** to restart your computer now.
 - Select **No** and click **Finish** to restart your computer later.
- 9 When the installation completes, the **Unified Messaging Connection Manager** is added to the MiCollab AM **Desktop** program group.

To set up the client software on a workstation from the Installation Media:

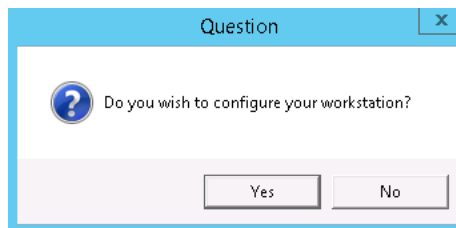
- 1 Insert the MiCollab AM Installation Media into the appropriate drive.
- 2 When the **Mitel MiCollab AM Installation Components** dialog box appears, click the appropriate link as follows:
 - If you are installing the U.S. edition, click **Desktop Suite for IMAP (USA)**.
 - If you are installing the international edition, click **Desktop Suite for IMAP (World)**.

NOTE If the Mitel MiCollab AM Installation Media Components dialog box does not display, navigate to the **...\Client Installs\Desktop Suite for IMAP\SBUM Client** folder on the media. Then, depending on the edition of the software you want to install, navigate to either the **USA** folder or the **World** folder, and then double-click the **Setup.exe** file.

- 3 If the **Choose Setup Language** dialog box appears, select the language you want to use during the setup process, and then click **OK** to continue.

NOTE The language selection in this step affects only the setup program itself. The setup program copies support files for all available languages to the file server.

- 4 The **Welcome** dialog box appears. Verify that no other programs are running, and then click **Next**.
- 5 In the **Destination Folder** section of the **Choose Destination Location** dialog box, accept the default destination directory, type the path of another destination directory, or click **Browse** to locate another destination directory.
- 6 The **Question** dialog box appears.

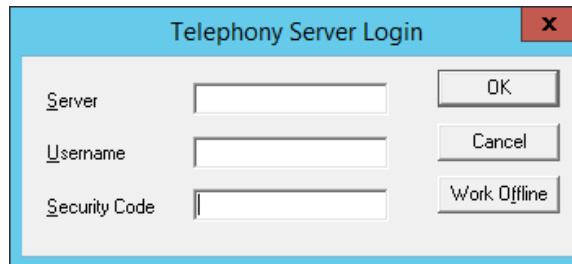


In the **Question** dialog box:

- Click **Yes** to access and configure the **Unified Messaging Connection Manager** utility immediately. Go to **Step 7**.
- Click **No** if you want to configure the **Unified Messaging Connection Manager** utility later. Skip to **Step 8**.

NOTE You cannot use **MiCollab AM Unified Messaging** until you configure the settings in the **Unified Messaging Connection Manager** utility. For more information on configuring the utility, see the [Configuring the IMAP Client Settings](#) section.

- 7 If you clicked **Yes**, the **Telephony Server Login** dialog box displays that will allow you to log in to the **Unified Messaging Connection Manager** utility.

The image shows a dialog box titled "Telephony Server Login" with a red close button (X) in the top right corner. The dialog box has a light blue header and a white body. It contains three input fields: "Server", "Username", and "Security Code". To the right of these fields are three buttons: "OK", "Cancel", and "Work Offline".

In the **Telephony Server Login** dialog box:

- a Enter the **Server** address, **Username**, and **Security Code**, and then click **OK**.

NOTE For a single tenant system, you can use either the MailboxID or the Username for the Telephony Server Login. If MiCollab AM is deployed as a hosted solution in the cloud, only the Username can be used.

Or click **Work Offline** if you want to configure the **Unified Messaging Connection Manager** utility locally without getting connected to the server.

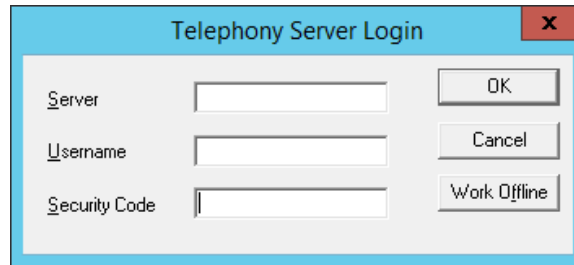
- b When the **Unified Messaging Connection Manager** utility displays, configure the options as described in the [Configuring the IMAP Client Settings](#) section.
 - c When finished configuring, click **OK**.
- 8 The **InstallShield Wizard Complete** dialog box displays prompting to restart your computer. Select the following:
 - Select **Yes** and click **Finish** to restart your computer now.
 - Select **No** and click **Finish** to restart your computer later.
 - 9 When the installation completes, the **Unified Messaging Connection Manager** is added to the MiCollab AM **Desktop** program group.

Configuring the IMAP Client Settings

Prior to a subscriber's first use of the MiCollab AM Unified Messaging client, there are several unique settings that must be configured. Subscribers who are familiar with the necessary settings can perform this procedure themselves; for those subscribers who are not familiar with the settings, IT support staff should perform the procedure.

To configure the MiCollab AM Unified Messaging client:

- 1 Click the **Start > Programs > MiCollab AM Desktop > Unified Messaging Connection Manager**. The **Telephony Server Login** dialog box appears.

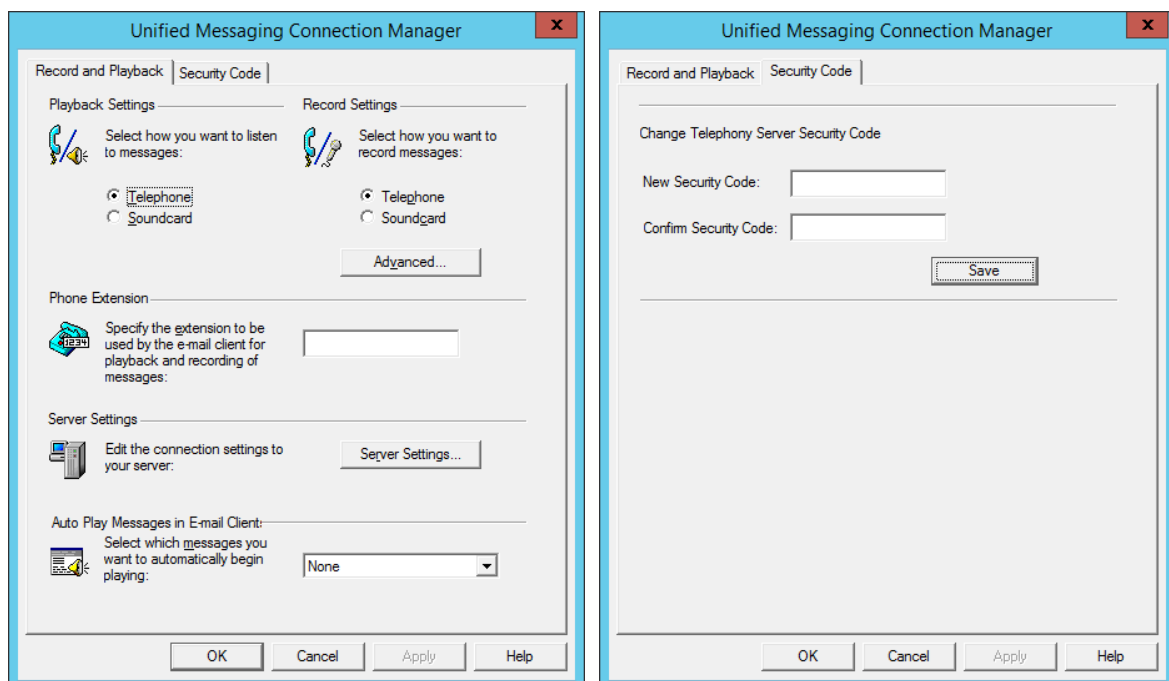


The **Telephony Server Login** dialog box has a blue title bar with a close button (X). It contains three input fields: **Server**, **Username**, and **Security Code**. To the right of these fields are three buttons: **OK**, **Cancel**, and **Work Offline**.

- 2 At the **Telephony Server Login** dialog box, enter the FQDN or the TCP/IP address of the System Server in the **Server** box, subscriber **Username**, and **Security Code**.

NOTE If you are using TCP/IP as the connection protocol, use the TCP/IP address of the System Server. Contact your MiCollab AM or LAN administrator for this IP address, if necessary. Using an IP address in the Server Name box can avoid possible DNS or name resolution issues on a LAN.

- 3 Click **OK** to close the **Server Settings** dialog box. The **Unified Messaging Connection Manager** dialog box appears.



The **Unified Messaging Connection Manager** dialog box has a blue title bar with a close button (X). It features two tabs: **Record and Playback** (selected) and **Security Code**.
 Under the **Record and Playback** tab, there are four sections:
 - **Playback Settings**: "Select how you want to listen to messages:" with radio buttons for **Telephone** (selected) and **Soundcard**.
 - **Record Settings**: "Select how you want to record messages:" with radio buttons for **Telephone** (selected) and **Soundcard**.
 - **Phone Extension**: "Specify the extension to be used by the e-mail client for playback and recording of messages:" with an empty text box.
 - **Server Settings**: "Edit the connection settings to your server:" with a **Server Settings...** button.
 - **Auto Play Messages in E-mail Client**: "Select which messages you want to automatically begin playing:" with a dropdown menu set to **None**.
 At the bottom are buttons for **OK**, **Cancel**, **Apply**, and **Help**.
 The **Security Code** tab contains the section **Change Telephony Server Security Code** with fields for **New Security Code** and **Confirm Security Code**, and a **Save** button.

- 4 In the **Unified Messaging Connection Manager** dialog box, configure the following properties:

- **Record and Playback Tab**

- In **Playback Settings** and **Record Settings** fields, select the default device for playback and recording. The default selection is **Telephone**.
- In the **Phone Extension** box, type the subscriber's telephone extension.

- In the **Server Settings** field, click **Server Settings** if you want to change any server options. The **Server Settings** dialog box appears. Update the values and click **OK** to close the **Server Settings** dialog box.
 - **Security Code Tab**
 - If you want to change your security code at this time, in the **Change Telephony Server Security Code** field, enter a new security code and re-enter the security code. Click **Save**.
- 5 Click **OK** to close the **Unified Messaging Connection Manager** dialog box.

Setting XMediusFAX Viewer as Default in Windows 8.1 (or later)

Microsoft Windows 8.1 (or later) does not allow the installer to define XMediusFAX Viewer as the default application for Tagged Image File Format (TIFF or TIF) files. You must set this manually, if you want to have faxes automatically displayed in XMediusFAX Viewer.

To set the default viewer for TIFF files:

- 1 From the Windows taskbar, go to **Start > Control Panel > Programs > Default Programs > Associate a file type or protocol with a program**. The **Set Associations** window appears.
- 2 In the **Extensions** table, scroll down until you find **.tif**, and then select the extension.
- 3 Click the **Change program** button. The **How do you want to open this type of file (.tif)?** dialog box displays with the list of apps.
- 4 On the dialog box:
 - If you see **Viewer.exe XMedius Solutions Inc.** on the list, select the app. Skip to **Step 5**.
 - If you don't see **Viewer.exe XMedius Solutions Inc.** as an option on the list:
 - a Select **More options**. The apps list expands.
 - b If **Viewer.exe XMedius Solutions Inc.** appears in the expanded list, select the option. Skip to **Step 5**.
 - c Otherwise, scroll down to the bottom of the list and select **Look for another app on this PC**. The **Open with** window appears.
 - d Browse to **C:\Program Files\XMediusFAX\Client**.

NOTE Depending on where **Unified Messaging Client** was installed and the Operating System, the **XMediusFAX** directory may be under **Program Files (x86)**.
 - e Select **Viewer.exe** and click **Open**.
- 5 You are returned to the **Set Associations** window. Make sure **Viewer.exe** is set as the **Current Default** app for the **.tif** extension.
- 6 Follow the same procedure for **.tiff**.

Appendix A: Subscriber Quick Start

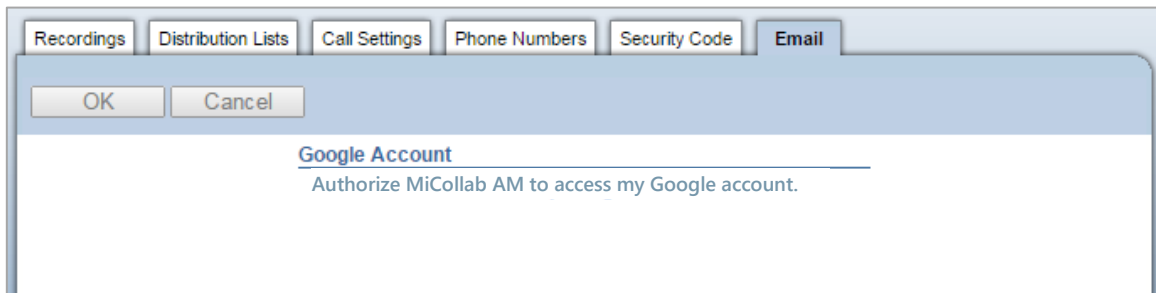
The following section provides steps to quickly enable subscribers to set up their account and run the system. The information on these pages may be copied and distributed as necessary.

Authorizing MiCollab AM to Connect to Your Gmail Account

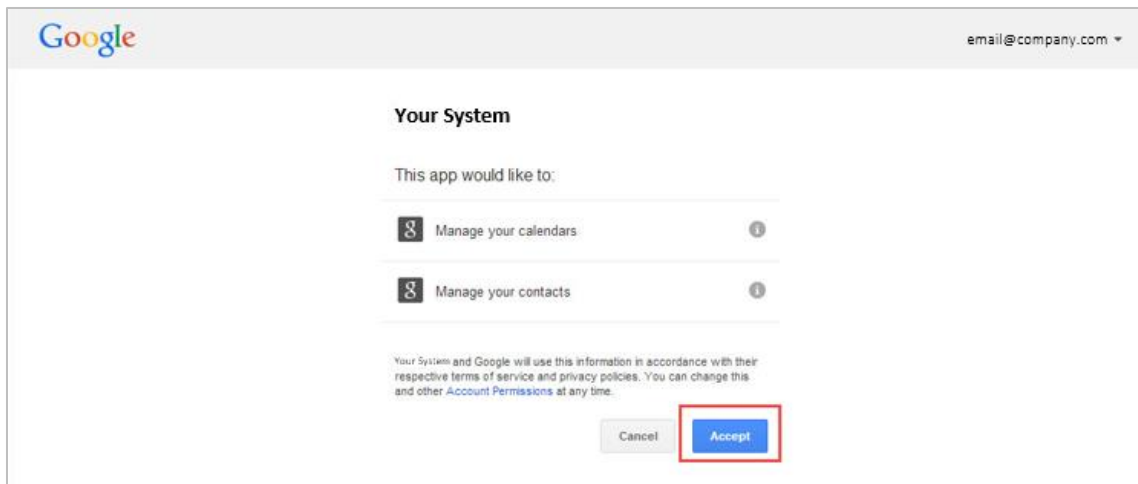
You first need to authorize the system to connect to your Gmail account.

To connect to your Gmail Account:

- 1 Sign in to Web PhoneManager.
- 2 From the menu, select **Personal Settings**.
- 3 Select the **Email** tab.



- 4 Click the **Authorize MiCollab AM to access my Google account** link.
- 5 When directed to the page that has options to provide the Google account credentials, provide the credentials, and then click **Accept**.



- 6 Verify the confirmation message in the **Email** tab of WPM.

Getting Help for Unified Messaging for Google Apps

For information on working with voice and fax messaging within your E-mail client, please refer to the online help.

To read online help:

- 1 From the Windows taskbar, go to **Start > Programs > MiCollab AM Desktop > UM for IMAP Help File**. The **Unified Messaging Connection Manager Help** file appears.

You might find it useful to print parts of the online help system for easy reference.

To print any help topic:

- 1 Display the topic you want to print, and then click **Print** button at the top of the window.
- 2 Select **Print the selected topic**, and then click **OK**.
- 3 Select the printer from the list, and then click **Print**. The displayed topic prints on your printer.

To print multiple help topics in a book:

- 1 Display the topic you want to print, and then click **Print** button at the top of the window.
- 2 Select Print the selected heading and all subtopics, and then click **OK**.
- 3 Select the printer from the list, and then click **Print**. All the topics within that book are printed. You may want to open the book to see how many topics are selected. Some books are comprised of a large number of topics.

Configuring IMAP Unified Messaging Settings

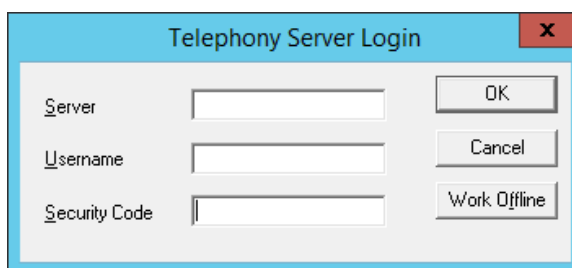
Over time, you may want to modify the settings of a Subscriber mailbox, such as change a recording for a personal greeting, or change the playback device from telephone to speaker or back again. These options can be modified in either **Unified Messaging Connection Manager** or **Web PhoneManager**.

For information on **Web PhoneManager**, see the *Web PhoneManager System Administrator Guide*.

IMPORTANT The settings in **Unified Messaging Connection Manager** box must be configured for MiCollab AM Unified Messaging to work correctly. Typically, your system administrator configured them when the MiCollab AM Unified Messaging client was installed on your workstation.

To configure MiCollab AM Unified Messaging Settings:

- 1 From the Windows taskbar, go to **Start > Programs > MiCollab AM Desktop > Unified Messaging Connection Manager**.
- 2 The **Telephony Server Login** dialog box appears.

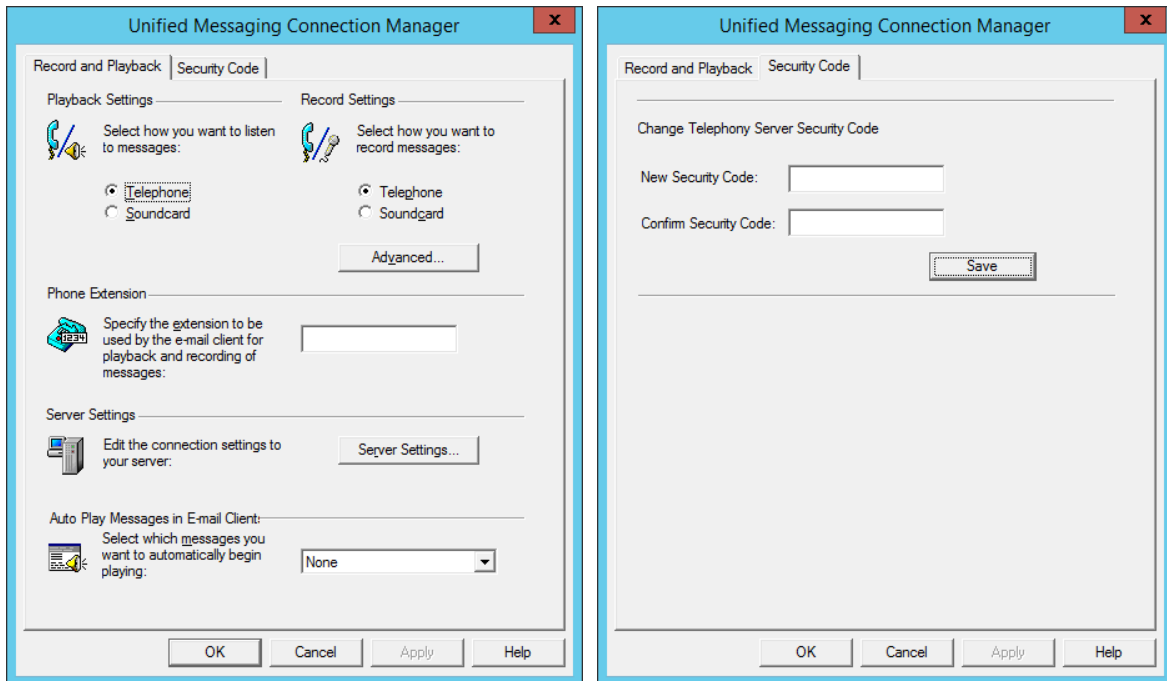


In the **Telephony Server Login** dialog box:

- Enter the FQDN or the TCP/IP address of the System Server in the **Server** box, subscriber **Username**, and **Security Code**.
- Or click **Work Offline** if you want to configure the **Unified Messaging Connection Manager** utility locally without getting connected to the server.

NOTE If you are using TCP/IP as the connection protocol, use the TCP/IP address of the System Server. Contact your MiCollab AM or LAN administrator for this IP address, if necessary. Using an IP address in the **Server** box can avoid possible DNS or name resolution issues on a LAN.

- 3 Click **OK**. The **Unified Messaging Connection Manager** dialog box appears.

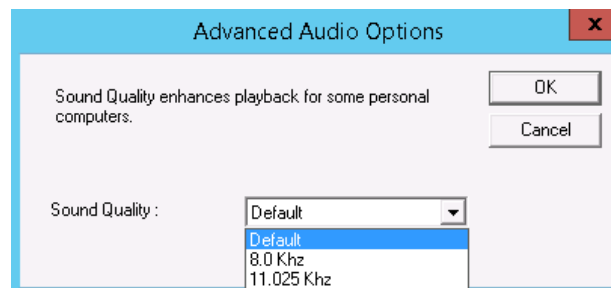


NOTE If you clicked **Work Offline**, the **Security Code** tab will not appear.

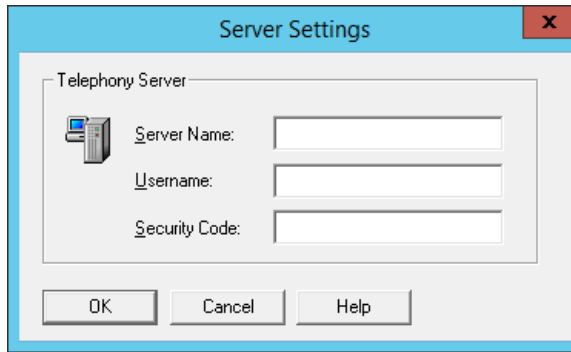
4 In the **Unified Messaging Connection Manager** dialog box, configure the following properties:

- **Record and Playback Tab**

- In **Playback Settings** and **Record Settings** fields, select the default device for playback and recording. The default selection is **Telephone**.
- Click the **Advanced** button and adjust the sound quality of the voice message. The available options are **6.0 kHz (Default)**, **8.0 kHz**, or **11.025 kHz**.



- In the **Phone Extension** box, type the subscriber's telephone extension that will be used for playback and recording of messages.
- Click the **Server Settings** button if you want to change any server options. Update the values and click **OK** to close the **Server Settings** dialog box.



- **Security Code Tab**

- If you want to change your security code at this time, in the **Change Telephony Server Security Code** field, enter a new security code and re-enter the security code. Click **Save**.

5 Click **OK** to close the **Unified Messaging Connection Manager** dialog box.

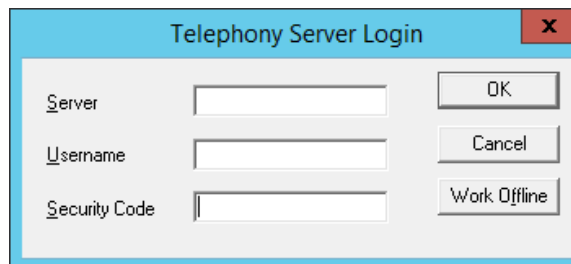
6 As appropriate, configure the **Record and Playback** tab.

Changing Your Mailbox Security Code

You can change your mailbox security code, also known as the password, on the **Security Code** tab.

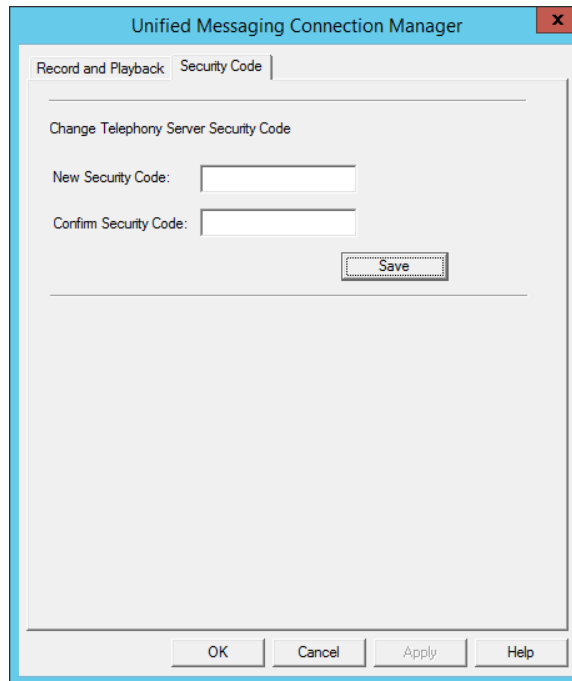
To change your mailbox security code:

- 1 From the Windows taskbar, go to **Start > Programs > MiCollab AM Desktop > Unified Messaging Connection Manager**.
- 2 In the **Telephony Server Login** dialog box, enter **Server Name**, **Username**, and **Security Code**, and then click **OK**.



- 3 Click the **Security Code** tab.

IMPORTANT If you clicked **Work Offline** in **Step 2**, the **Security Code** tab won't be available.



- 4 In the **New Security Code** and **Confirm Security Code** boxes, type and confirm your new security code.
- 5 Click **Save**.

IMPORTANT You must click the **Save** button to save your new security code.

- 6 Click **Apply**, and then click **OK**.

Changing Your E-mail Password

You must enter your E-mail password to access your E-mail messages. Whenever you change your Gmail password, you must enter that same new password in **Web PhoneManager**. For information on **Web PhoneManager**, refer to the **Web PhoneManager**'s help.

Playing Voice Messages and Viewing Fax Messages

A received voice message is indicated by an E-mail message with a single file attachment that has a **.uma** or **.wav** file extension.

MiCollab AM can forward fax attachments in a variety of file formats including **.dcx**, **.pcx**, **.gif**, **.pdf**, and Group 3 or Group 4 **.tiff**.

To play a voice message or view a fax message:

- 1 Double-click the received message.

- If the message is a *voice* message, the voice messaging form appears.
- If the message is a *fax* only, the fax viewer opens automatically, displaying the fax message over the voice messaging form.
- If the message has both *fax* and *voice* components, only the voice messaging form appears.

2 Depending on the message type, perform one of the following tasks:

- **If you want to listen to the voice message:**

Click **Play** on the voice messaging form recorder bar to begin playing the message.

NOTE Your mailbox may be set to play messages automatically, so you may not need to click **Play**.

- **If you want to view the fax:**

Click the **View Fax** button to launch the fax viewer. When accessing fax messages only, the viewer will automatically open the fax document in some cases.

For further information on replying to and forwarding voice and fax messages, see the *help* from the **Unified Messaging Connection Manager** utility.

NOTE Using the **Auto Play Messages** box in **E-mail Clients** setting on the **Record and Playback** tab in **Unified Messaging Connection Manager**, you can set some voice messages to play automatically as soon as you open them.

For more information on the settings available in this box, see the *help*.

Telephone User Interface Features

The Telephone User Interface (TUI) features provided by MiCollab AM Unified Messaging covered in this section include:

- Replying to an E-mail message by telephone
- Forwarding an E-mail message with voice comments
- Faxing an E-mail message to someone else
- Printing an E-mail message by forwarding it to a fax machine
- Selecting E-mail messages for group processing

These features are available only through the TUI.

Replying to an E-mail Message by Telephone

You can reply to an E-mail message with a voice message by telephone, rather than waiting to access the E-mail system.

To reply to an E-mail message by telephone:

- 1 Access your Subscriber mailbox using a telephone.
- 2 Press **1** to listen to messages in your **Inbox**, press **3** to listen to messages by type (if configured), or press **5** to listen to saved messages.
- 3 While listening to the desired E-mail message, press **8** to reply.
- 4 If prompted, enter the mailbox number of the person to whom your voice message should be sent.
- 5 Press **2** to start recording your message.
- 6 Press **2** to stop recording.
- 7 Press **5** to send your reply.
- 8 To send your reply to someone else, press **1**; otherwise, press **9**.

Forwarding an E-mail Message with Voice Comments

You can forward an E-mail message with voice comments to anyone who has a computer that can play **.wav** files.

When you forward an E-mail message with voice comments, message recipients receive a single message, with your recording attached as a **.wav** file.

To forward an E-mail message with voice comments:

- 1 Access your Subscriber mailbox using a telephone.
- 2 Press **1** to listen to messages in your **Inbox**, press **3** to listen to messages by type (if configured), or press **5** to listen to saved messages.
- 3 While listening to the desired E-mail message, press **2** to forward it.
- 4 Enter the mailbox number of the person to whom your message should be sent.
- 5 Press **2** to start recording your message.
- 6 Press **2** to stop recording.
- 7 Press **5** to send the message with your introduction.
- 8 To forward the message to someone else, press **1**; otherwise, press **9**.

Faxing an E-mail Message to Someone Else

You can fax an E-mail message to someone else by forwarding it to the appropriate Fax Delivery mailbox. However, to use this feature, your MiCollab AM server must have access to either an XMediusFAX fax server or a RightFax Enterprise fax server.

To fax an E-mail message to someone else:

- 1 Access your Subscriber mailbox using a telephone.
- 2 Press **1** to listen to messages in your **Inbox**, press **3** to listen to messages by type (if configured), or press **5** to listen to saved messages.

- 3 While accessing the desired E-mail message, press **2** to forward it.
- 4 Enter the appropriate **Fax Delivery** mailbox number for the fax machine you want to use.
- 5 If you specified a **Fax Delivery** mailbox that prompts for a telephone number, follow these steps:
 - a Enter the telephone number and press **#**.
 - b Pressing **1** to confirm that the number is correct.
- 6 Enter your extension or telephone number to identify your fax and then press **#**.
- 7 Pressing **1** to confirm that the number is correct.
- 8 When prompted to record an introduction, press **5** to send your message.

NOTE You should not record an introduction when forwarding an E-mail message to a fax machine. Pressing **5** allows you to send your message immediately.

- 9 To forward the message to another fax machine or someone else, press **1**; otherwise, press **9**.

Printing an E-mail Message on a Fax Machine

You can print an E-mail message by forwarding it to a fax machine. MiCollab AM allows you to print at any time and at any fax machine. However, to use this feature, your MiCollab AM server must have access to either an XMediusFAX fax server or a RightFax Enterprise fax server.

To print an E-mail message:

- 1 Access your Subscriber mailbox using a telephone, and perform the following:
 - To listen to messages in your **Inbox**, press **1**.
 - To listen to messages by type (if configured), press **3**.
 - To listen to saved messages, press **5**.
- 2 While accessing the desired E-mail message, press **2** to forward it.
- 3 Enter the appropriate **Fax Delivery** mailbox number for the fax machine you want to use.
- 4 If you specified a **Fax Delivery** mailbox that prompts for a telephone number, follow these steps:
 - a Specify the telephone number, and then press **#**.
 - b Confirm that the number is correct by pressing **1**.
- 5 Identify your fax by entering your extension or telephone number, and then press **#**.
- 6 Pressing **1** to confirm that the number is correct by
- 7 When prompted to record an introduction, press **5** to print your message.

NOTE Do not record an introduction when forwarding an E-mail message to a fax machine. Pressing **5** allows you to immediately send your message for printing.

- 8 To forward the message to another fax machine or someone else, press **1**; otherwise, press **9**.

Selecting E-mail Messages for Group Processing

The MiCollab AM group selection feature saves you time and effort by letting you handle messages in a group. For example, you can select your E-mail messages and forward them to a nearby fax machine for printing.

Messages lose their selected status once you exit MiCollab AM.

To select E-mail messages for group processing:

- 1 Access your Subscriber mailbox using a telephone.
- 2 Press **1** to listen to messages in your **Inbox**, press **3** to listen to messages by type (if configured), or press **5** to listen to saved messages.
- 3 While accessing the desired E-mail message, press **0**, and then press **1** to select it for group processing.
- 4 Continue to access and select E-mail messages following the instructions starting in **Step 3**.
- 5 Press ***** to return to the main menu
- 6 Press **6** to access selected messages. The following menu options are available:
 - To forward all selected messages, press **2**.
 - To discard all selected messages, press **4**.
 - To save all selected messages, press **5**.
- 7 Press the key for the desired action and follow the voice prompts.

Appendix B: Enabling/Disabling E-mail Access During System Maintenance

Administrators should disable the messaging server profile when performing backups or other maintenance on the E-mail server.

Enabling/Disabling E-mail Access Using MiCollab AM Admin Configuration

To disable a messaging server profile immediately:

- 1 Open **MiCollab AM Admin > Configuration > System** and select the **E-mail** tab.
- 2 Select a messaging server profile, and then click **Edit**. The **Server Profile** dialog box appears.
- 3 Clear the **Enabled** checkbox, and then click **OK** to close the **Server Profile** dialog box.
- 4 Click **Apply** to save the change. The messaging server profile is now disabled.

To enable a messaging server profile immediately:

- 1 Open **MiCollab AM Admin > Configuration > System** and select the **E-mail** tab.
- 2 Select a messaging server profile, and then click **Edit**. The **Server Profile** dialog box appears.
- 3 Select the **Enabled** checkbox, and then click **OK** to close the **Server Profile** dialog box.
- 4 Click **Apply** to save the change. The messaging server profile is now enabled.

To disable a messaging server profile for server maintenance:

- 1 Open **MiCollab AM Admin > Configuration > System** and select the **E-mail** tab.
- 2 Select a messaging server profile, and then click **Edit**. The **Server Profile** dialog box appears.
- 3 In the **Maintenance** section, select the **Enabled** checkbox.
- 4 In the **Start** box, select a time to start server maintenance.
- 5 In the **Stop** box, select a time to end server maintenance.
- 6 Click **OK** to save the changes to the messaging server profile, and then close the **Server Profile** dialog box.
- 7 Click **Apply** to save the changes.

Appendix C: Troubleshooting E-mail Access

When encountering a problem with the E-mail Access application after setup, always check the **Windows Server Event Viewer** log before taking any action. It may provide information that helps you isolate the problem.

Review the following items if you have problems after the configuration of E-mail Access:

NOTE If MiCollab AM is deployed as a hosted solution in the cloud, these tasks are performed by the tenant administrator.

- If subscribers state that E-mail messages previously deleted in the TUI persist in their E-mail mailbox, verify that they are logging off their Subscriber mailboxes correctly.
- Verify that the **E-mail Access Active** checkbox is selected.
Location: **MiCollab AM Admin > Configuration > System > Messaging Tab**
- Verify that the **Message Storage Location** option is set to **External**.
Location: **MiCollab AM Admin > Subscriber Mailbox > E-mail Tab**
- Verify that the **Server Profile** and user information are configured correctly in the Subscriber mailboxes.
Location: **MiCollab AM Admin > Subscriber Mailbox > E-mail Tab**
- Verify that the LAN adapter card is configured properly with the correct network protocols to communicate with the E-mail server.

Appendix D: Client Installation Command Line and Switch Information

MiCollab AM Unified Messaging provides the following two automated methods for installing client files on subscriber workstations from a network share:

- **Push** installation, in which an administrator starts the installation routine and the subscribers are not involved in it.
- **Pull** installation, in which subscribers receive a link or path to the installation routine and start it themselves.

This section describes both types of installation and discusses the necessary command line syntax for deploying them.

NOTE After the installation, the workstation will need to be restarted.

NOTE Both the **push** and **pull** installation cases require files generated via the administrator install (**-a** switch). This step must be run on the installation image before the installation may be launched.

Push Installation

A **push** installation can be either attended or unattended, but all subscribers' computers must be on and connected to the network. Both attended and unattended push installs rely on third-party push-installation software packages, all of which allow you to enter the name of an executable with command line arguments to run on the client machine.

NOTE For a single tenant system, you can use either the Mailbox number or the Username for the Telephony Server Login. If MiCollab AM is deployed as a hosted solution in the cloud, the Username must be used.

The following example shows typical command line syntax to perform an attended **push** install for a subscriber on a single tenant system with a mailbox number or username of **1234** and extension **5678**. All other install values would come from the **Admin.ini** parameter file, which the administrator initially configured during setup.

Executable: **setup.exe**

Command line arguments: **-vAdmin.ini -b1234 -u5678**

The following example shows typical command-line syntax for an unattended **push** install supporting a subscriber on a single tenant system with a mailbox number or username of **1234** and extension **5678**. All other installation settings come from the **Admin.ini** file.

For an unattended **push** install (also called a silent install), you must include the **-s** switch. The silent install will use the response file (setup.iss) generated via the administrator install (**-a** switch) as the input file to

guide the setup. The administrator install must be run in a prior step in order to properly configure the setup installation for silent installation and configuration. The **-s** switch must always be the last argument on the command line. Refer to [Table 4](#) for a complete list of valid command line arguments.

Executable: **setup.exe**

Command line arguments: *-vAdmin.ini -b1234 -u5678 -f1fullpath -s*

NOTE In both attended and unattended installs, you can omit the **-b1234** & **-u5678** arguments to make the install work for a group of users. Although the installation completes properly, subscribers cannot use MiCollab AM Unified Messaging until they enter their mailbox and extension numbers in **Unified Messaging Connection Manager**.

Pull Install

A **pull** installation is always attended; a subscriber must be present to start it.

To set up a **pull** installation for a group of subscribers, the administrator must provide a copy of the shortcut file **UM Install.lnk** to each user in the group. The administrator creates this file as part of the administrator setup process and places it on the network share with the other install files.

An administrator can distribute the shortcut file to the subscribers in one of two ways:

- Use whatever **pull** installation software the customer has to place it on the subscribers' desktops.
- Send it to all customers as an E-mail attachment.

The subscriber then runs the file to begin the installation. The file is configured to invoke the following command line:

```
setup.exe -vAdmin.ini
```

In this command line, **Admin.ini** is the name of the parameter file created during administrator setup.

Command-Line Syntax

The following table lists valid command line arguments for **push** and **pull** installs.

NOTE If you prefer, you can omit the **-v** switch and include the arguments in this table as switches on the command line.

IMPORTANT The setups have a built-in **-r** switch to record the installation; however, the generated response file (setup.iss) from this switch is incompatible with the running of these installation types and should not be used.

Table 4. Valid Command Line Arguments

Argument	Description
-?	Displays the usage help dialog of the command line parameters and values

-a	<p>Performs an administrator install. When this switch is specified, the setup file is created in the same directory that contains the file Admin.ini.</p> <p>Do not use this switch with the -s switch.</p>
-b	<p>The username or mailbox number for single tenant systems.</p> <p>For example: -b1234 where the mailbox is 1234</p>
-f1	<p>The full path to the response file, including the filename. The response file is required for silent installs. A default response file is created during the administrator install and is always called setup.iss.</p> <p>NOTE The full path cannot contain quotes or any space characters in the path.</p> <p>Here is an example of a working command:</p> <p>For example: <i>Setup.exe -vAdmin.ini -b 1234 -u5678 -f1D:\UMClientPushInstall\setup.iss -s</i></p>
-h	<p>The System Server name.</p> <p>For example: -hCallXpr1 where the MiCollab AM System Server is CallXpr1</p>
-i	The record device. Values are s for sound card ; and t for telephone .
-j	The playback device. Values are s for sound card ; and t for telephone .
-k	Is an install OKI driver override. Values are y for Yes ; and n for No .
-l	Auto-play setting. Values are a for Always ; u for New/Unread ; and n for Never .
-n	Record message format. Values are m for Mu-Law ; a for A-Law ; p for Linear PCM ; d for OKI ADPCM ; and g for GSM 610 .
-o	Override personal settings always. Values are y for Yes and n for No .
-p	The protocol. Values are t for TCP/IP ; and n for Named Pipes .
-s	Silent install. This should appear as the last command line argument.
-u	<p>Extension.</p> <p>For example: -u5678 where your extension is 5678</p>
-v	<p>Administrator parameter file name.</p> <p>For example: -vAdmin.ini (the default)</p>

This switch cannot be used to set the path where the file resides.

-w	Record non-message format. Values are m for Mu-Law ; a for A-Law ; p for Linear PCM ; d for OKI ADPCM ; and g for GSM 610 .
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-y	Client install path. For example: -yc:\Program Files\UM
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Here is an example command line and what it represents:

For example:

Setup -hcallxpr1 -b1234 -pT -u5678 -iT -jT -kN -lU -nM -wM -yc:\UM
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① The name of your **System Server** is **callxpr1**.
- ② Your mailbox is **1234** and extension is **5678**.
- ③ You are using **TCP/IP** for your protocol.
- ④ Your playback and record devices are **telephone**.
- ⑤ Is **not** an install **OKI driver override**.
- ⑥ You want to auto-play only the **new or unread messages**.
- ⑦ The record message and record non-message formats are **Mu-Law**.
- ⑧ The default client install path is **C:\UM**.