

# AVAYA MESSAGING<sup>TM</sup>

## **Feature Description Guide**

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## AVAYA MESSAGING FEATURE DESCRIPTION GUIDE

Avaya Messaging is a feature rich application which offers a solution for virtually any organization or situation. The productivity enhancing nature of Avaya Messaging derives from the dynamic environment of all the feature which can be fully customized and mixed-and-matched to meet the specific needs of an organization.

Since the feature library of Avaya Messaging platform is vast, it is easy to become overwhelmed by the large number of settings and options available to you as an administrator or an end user. To simplify both the configuration and usage of the common features within Avaya Messaging, this guide separates each feature and explains in detail how they can be implemented.

Having to consult vast amounts of technical documentation to implement a single feature can be time consuming and inefficient. By organizing all the necessary materials for you, the Feature Description Guide will make the administration process a breeze and will also offer you end user training materials which you may utilize during training sessions or distribute directly to the end users.

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## AUTOMATIC SPEECH RECOGNITION (ASR)

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## Introduction

Automatic Speech Recognition (ASR) is a vital component of the UC system. ASR allows the system to recognize human speech, so that users to speak contact names and menu selections, instead of entering them through the telephone keypad.

Avaya Messaging uses Media Resource Control Protocol (MRCP) for communications with the ASR services provider.

## Visual Guide



ASR provides the base for all speech recognition functions, such as Speech Contacts and Speech Commands. ASR interprets a user's voice input as a number or a character (e.g. alphabet) based on the grammar settings on the server. This allows users to speak the name of the contact they want to dial, or to say a number instead of pressing the digit on the telephone keypad. By replacing traditional input with speech, users can efficiently find what they were looking for. It also give users easy access to the system without having to use their hands.

For specific features such as Speech Commands, please refer to the appropriate chapters in this guide.

## Requirements

Requirements	Details
License	ASR License
Software	Officelinx/IX Messaging version 8.0 - 10.8 Avaya Messaging version 11.0 or higher

## Server Configuration

Server configuration for ASR is completed in several steps.

First, verify the Avaya Messaging license that you have. In order to use ASR, you must have the ASR license.

Once the license is confirmed, make the necessary settings in the Avaya Messaging Administrator and from the ASR Configurator.

## License Confirmation

Setting up ASR begins by making sure that you have purchased and installed the license. ASR is provided under an add-on to the standard license and must be purchased separately.

👷 License Upgrade Utility	-		×
Product         Is DEMO         Soft License         SentinelNo           27245         Expliny Date         20210612         123456789           WebLM IP address         192,168.0.1         1		Exit Refresh	
General Users Servers Fax ports Services ASR TTS Transcription		Host	
ASR ASR Provider Nuance ASR Ports 2			
License information has been retrieved			

Check the UCLicenseWebLM under Start > Programs > Avaya Messaging.

Go to the **ASR** tab and ensure that the information contains the appropriate details.

With the license confirmed, launch the Avaya Messaging Administrator to configure the application.

## Avaya Messaging Admin Configuration

- Open Avaya Messaging Admin and go to Configuration > Advanced. In the right pane, set Voice recognition mode to Nuance.
- 2. Once this option has been set, go to **Company Properties**.
- Right-click on the company that will use ASR. Choose Properties.
- 4. Go to the **Speech Options** tab and enable **Voice Recognition**. Enable the other features as required.

**Confirm names in voice recognition**: The system will confirm a recognized name no matter what

**Allow barge-in voice recognition**: This allows you to say a name while the system is playing a greeting or a prompt.

**Allow barge-in confirm names**: The system will allow you to interrupt it to confirm that a name that it found is correct.

**Allow Say Operator**: For the systems with a default operator defined, it will recognize the word "Operator" as a dial request for the operator.

Web Site URL
--------------

ompany \$₽₽X₽₽₽₩₹₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽
비ᄈ스티멘 <u>비그 지지 역 ~ </u> 세명의 원 베명
General         Advanced         Call Options         Mailbox Options         Integrated fax           Passwords/Security         AMIS Parameters         Company Languages         C.0./Channel Assignment         Admin Broadcast Messages         Speech Options           I: Default
Voice Recognition          Image: Voice Recognition       Compile Grammar         Image: Confirm Names in Voice Recognition       Image: Noice Recognition         Image: Allow Barge-In Voice Recognition       Image: Noice Recognition         Image: Allow Barge-In Name Confirmation       Image: Noice Recognition         Image: Allow Sarge-In Name Confirmation       Image: Noice Recognition
✓ Voice Verification     Settings       Failed Voice Menu     ✓       Wait for License Timeout     0       Contact Priority     None       On not send notification when system disables contacts

21 I I XI

## ASR Configurator

From the Voice Verification section of the interface, you can specify the sensitivity level for the feature via **Security Level**. The number of questions the voice server will ask during login can also be controlled through **Number of Questions**.

**Security Level** has 5 levels to choose between. These range from **Very-High** to **Medium Low**. Refer to the chart below to see the difference between each level, along with the typical **False Acceptance** rate (the rate in which the system will log in a wrong person to the mailbox).

Since the FA rate for **Very-High** is the lowest, it may seem logical to always choose this option. However, while the number of FAs decreases, the number of **FR**s (**False Rejection**) increases. At the highest security setting, people may have problems logging into their mailbox if their voice changes even slightly. This might be caused by a sore throat, added environmental noise or using a different device. It is up to the site administrator to choose the setting which best fits the company's requirements.

Nuance and Distributed ASF	R Parameters	Local IP's
Run in Asynch Mode w	vith Voice Server	
Languages	1:	
Companies	1;	IP STATUS
Speech Voice Format	1 - Mulaw64kbps 💌	192.168.1.111 on
Log Level	FATAL	
Local Addresses	IBM-2	
Remote Addresses	IBM-2	
Server Port	8201	Run without network card
Distributed ASR Port	13780	,
Sensitivity	<sup>16</sup>	Help
Acceptance Level	— <u>)</u> — 65	Defaults
Rejection Level	40	Restart Nuance Services
ASR Number of Results	4	
Voice Verification		
Security Level	MEDIUM-HIGH	
Number of Questions	Min 1 Max 3	
	Ok Ca	ancel Apply

ACD Carforner

**Number of Questions**: Choose the number of random questions that

the system will ask when verifying the user's voice print. The system can be set to ask between 1 and 3 questions.

There are three types of questions that the system will ask at random.

- Full Name: The system will ask the user to speak out their full name associated with the mailbox.
- **Recognition Keywords**: The system will randomly choose a keyword from the database (defined by the administrator) and ask the user to repeat the word.
- **Random 4 Digit Number**: The system will generate a random 4 digit number and ask the user to repeat the numbers.

The default setting will ask a minimum of 1 and maximum of 3 questions. This means that if the answer to the first question was satisfactory, the user will be logged. If not, the system will ask a second question. If the answer to the second question was satisfactory, the user will be logged in. If not, the system will ask the final question. If the answer to the final question was satisfactory, the user will be logged in. If not, the verification process will fail and the user will either be disconnected from the system, or be asked to manually enter their password through DTMF keys depending on the security settings of the site.

#### Security Level:

Security Level	Typical Usage Recommendation	FA Rate
Very-High	Access to mailbox accounts with critical information	0.1Internet to 0.2Internet
High	Access to mailbox accounts with high privilege	0.2Internet to 1.5Internet
Medium-High	Access to typical mailbox accounts	1.5Internet to 3Internet
Medium	Access to typical mailbox accounts in open environment	3Internet to 5Internet
Medium-Low	Generic access where Voice Verification is used for convenience	5Internet to 7Internet

**Caution**: The Voice Verification feature will shortly be discontinued.

## MRCP Configurator

The ASR feature should work well immediately after installation. However, if there are issues with the feature, such as excessive requests to "Please repeat that", the administrator can adjust the program settings.

1. On the hard drive where Avaya Messaging is installed, open the \UC\MRCP folder and run UCMRCPConfig.

I I I UCMRCPC	view				-		×
← → ~ ↑ 📙 « Loc	al Disk (C:) > UC > MRCP > UCMRCPConfig	~	Ö	Search UCMRCF	PConfig		P
Documents ^	Name	Date modified		Туре	Size		
🕹 Downloads	I UCMRCPConfig	2/22/2021 6:52 PM	1.4	Application		27 KB	1
👌 Music	UCMRCPConfig.exe.config	10/9/2020 3:59 PM	1 1	CONFIG File		1 KB	
Fictures	UCMRCPConfigLib.dll	2/22/2021 6:52 PM		Application extens	0	16 KB	
Videos							
Local Disk (C:)							

2. The ASR parameters are shown. Change these settings as necessary to correct any issues with the feature.

peech Voice Format	1 - Mulaw64kd	bps ~	
og Level	ALL	~	
ensitivity		16	
cceptance Level		65	
lejection Level		40	
SR Number of Results		4	
Help	Ok	Apply	
Defaults	Cancel		

Speech Voice Format: Select the desired format for voice traffic:

0 - Linear 128kbps, 1 - Mulaw 64kbps, or 2 Alaw 64kbps. Mulaw is recommended.

- Log Level: Provides control over the amount of information collected by the system regarding ASR. The amount of detail in the log increases with the selection as follows: FATAL (least data collected), ERROR, WARN, USER\_ERROR, USER\_WARN, STATUS, INFO, D\_INFO, VD\_INFO and ALL (most data collected). Choosing NONE disables logging.
- **Sensitivity**: This adjusts the ability of the system to handle line noise. Drag the slider to select a value between **5** and **30**. Higher settings make ASR less sensitive to noise.

For TAPI/Dialogic boards, set this to 14. For Rhetorex boards, set to 20.

- **Acceptance Level**: Drag the slider to select a value between **50** and **100**. The ASR server recevies the voice stream and returns a score (as a %) regarding how certain it is that it understood. Scores at or above the value selected here are processed normally. Scores below this minimum are compared to the Rejection Level.
- **Rejection Level**: Drag the slider to select a value between 40 and 80 (must be lower than the Acceptance Level). Scores below the Acceptance level but above the Rejection Level mean that the ASR server is uncertain whether it understood. The caller will be prompted to verify the result. Scores below the Rejection level are unuseable and stop the process.
- **ASR Number of Results**: Specify the number of results to return (minimum 1) when more than one directory entry is found. For example, if there are 10 John Smiths at the company, this value will limit the number of results offerred to the caller (4 by default) instead of listing all of them.

Click **Defaults** to return all values to their base values.

When ready, click Apply.

# 2 ENHANCED CALL CONTROL

## In This Chapter:

- 26 Introduction
- 26 Visual Guide
- 27 Requirements
- 28 Server Configuration
- 28 Company
- 28 Feature Group
- 29 User Guide
- 29 ECC Command List
- 29 Initiating a Handoff to Predefined Numbers
- 30 Initiating a Handoff to Custom Numbers

## Introduction

When a call is made through the auto attendant to your external number, or if you dialed a person from an external number through the auto attendant, you will now have the ability to perform basic call control actions right from your external number. This allows you to take advantage of the call control features without having to be tied down to your work station or a specific telephone system. Any telephone that is capable of DTMF input will be able to send commands to the Avaya Messaging server as long as the call itself was connected through the Avaya Messaging server. ECC (Enhanced Call Control) also includes the Call Handoff feature which will supplement the transfer features.

## Visual Guide

Business is always on the move, so it is not always ideal to stay idle. This is true even when you're on the phone. The important call you're answering from your workstation phone may be preventing you from other tasks or being elsewhere. You could ask the caller to call you back on your cell phone or ask if it would be okay for you to call them back on the other line but this would usually break the flow of conversation and is not ideal for majority of situations.

The hand off feature was added to the Avaya Messaging system to remedy such an issue. You can now seamlessly transfer your current ongoing phone call at your desk to another device (e.g. cell phone, another station, etc) without any interruption. The person you are talking to will most likely not even notice the transfer since the call is instantly connected to your second line the moment you confirm.

A call may be managed through Handoff no matter what device is being used as long as the call is managed through the Avaya Messaging system (i.e. calls are made through auto attendant). As long as such a condition is met, and the user has the permission to transfer between devices, the user may initiate a Handoff through the iLink Pro Desktop.

As you can see from the flowchart, the calls are not interrupted in any way. While traditional call transfers put the second party on hold during the transfer, there is no "buffer" required during a Handoff. The call is seamlessly transferred between the devices, and the audio stream moves from one device to another without any pauses in between. The second party is unlikely to notice that the Handoff has occurred at all.

The server is able to establish a connection by recognizing the answered status on the second device, which means that the Handoff feature automatically moves the audio stream from first device to the second automatically right after the second device answers.

Since the call is still being monitored by the system, the user is free to perform a Handoff repeatedly as long as he/she has access to the iLink Pro Desktop call control or ECC.



## Requirements

Requirements	Details
License	
Software	Officelinx/IX Messaging version 9.0 - 10.8 Avaya Messaging version 11.0 or higher

## Server Configuration

The server side configuration for enabling Enhanced Call Control is very simple. The administrator must enable the service on a Feature Group, then the mailboxes within that FG will have access to the feature. The administrator may also change the ECC trigger key from the Company settings as well.

**Note**: Users must log out and log back into iLink Pro Desktop to access Call Handoff from the client application after you have enabled the feature.

## Company

From **Company> Call Options** tab, modify the **Enhanced Call CAontrol Trigger Key** as desired. The trigger can consist of any DTMF keys. This key is set to \*\* by default.

**Note**: Please ensure that Enhanced Call Control Trigger Key does not overlap with any other keys.

Company	<u>? ×</u>				
ompany					
	· · · · · · · · · · · · · · · · · · ·				
Company Languages	C.O./Channel Assignment				
	hronization Options				
Passwords/Security	AMIS Parameters				
General Advanced Call Option	ns <u>M</u> ailbox Options <u>I</u> ntegrated fax				
1: Default					
Outcall Access Code	9,				
Account Code	Prefix				
Account Code Dialing Fo	ormat				
Outcall Retry Time	15 minute(s)				
Minimum Message Lengt	th 2 sec.				
Caller Number of Retries	3				
User Number of Retries	3				
Maximum Call Length	60 minute(s)				
Maximum Time for Call b	ack 1 minute(s)				
Inter-Digit Delay Time	3000 msec.				
Enhanced Call Control Trigger Key					
Oncall Reply Trigger Key ##					
Number of Rings during Business Hours					
Number of Rings after Bu	usiness Hours 1				
Press Key 1 for Q a	ndZ 💌				
Free Format Digit Dia	ling				
	-				

## Feature Group

From Feature Group > Transfer Options tab, enable either or both of Internal Extension or External or External/Internal (FindMe) Extension checkbox from the Enhanced Call Control section.

**Internal Extension** will enable the ECC for user's dedicated internal device only.

**External or External/Internal (FindMe) Extension** will enable the ECC for both internal and external device as long as the call is made to the user through auto attendant.

	chronization Options   DID Properties   Speech Option
General Storage Options Notifica	ation Options Iransfer Options Transfer Type
1: Default Users	
Z Call Screening	Auto Attendant
Z Call Forwarding	Try Other Extension After
Play Record Conversation Warning	🔽 Notify User of Transfer
Busy Hold	Enhanced Call Control
Call Queuing	Internal Extension
T Camp On	External or External/Internal (FindMe) Extension
Forced Messaging	
Pre Transfer Paging	Paging Zone
55 ST 15	Transfer Code
Post Transfer Paging	Account Code
Get Caller ID	Release Code
Play Name during Transfer	
	Delay Time 5 sec.

## User Guide

Enhanced Call Control is meant for use on an external number. If you are at your typical location (i.e. your work station), using the telephone's own call control or iLink Pro Desktop's call control will be more efficient and easier. However, you will have access to this feature even on your desktop phone if the administrator has enabled it for you.

Keep in mind that pushing the right command keys is vital for Enhanced Call Control since there is no simple means to monitor the call's status without iLink Pro Desktop. When the correct command key is pressed, you will hear the menu options available to you and the other person on the line will be on hold and will hear the hold music.

While ECC allows you to control the call from the phone itself, the Call Handoff feature can also be managed by iLink Pro Desktop's Call Manager feature. Please refer to the section at the end of this guide for more information.

When the ECC is available for your current call, you will hear an audio indicator at the beginning of the call. If you do not hear this at the beginning of the call, you will not have access to ECC.

## ECC Command List

**\*\*** - Default Access Code. Push **\*\*** to enter the ECC menu. The other party will automatically be put on hold. This access code may be changed by the system administrator.

- 1 Retrieve the current call (stop the hold)
- 2 Transfer the current call to another number
- 3 Hand off the current call to another device
- 4 Disconnect the other person on hold and return you to the Auto Attendant
- # Disconnect the current call for both parties

## Initiating a Handoff to Predefined Numbers

By default, iLink Pro Desktop will allow you to hand off the calls to numbers assigned to your current location. Select the number you wish to hand off the call to by clicking on the appropriate entry.

Kandoff	- R Handoff to
-	🖧 Handoff to 888
	🖧 Handoff to 8888
	Handoff to 1(416)2222222

Once you initiate the handoff, the selected number will ring. When the new

extension is answered, the old connection will be terminated and the conversation will continue on the new device only. You will still retain the ability to control the call from iLink Pro Desktop, which means that you can freely handoff the phone call to any destination as many times as you wish.

## Initiating a Handoff to Custom Numbers

**Note**: You cannot handoff a call to a custom number through ECC. You may only perform this action from iLink Pro Desktop.

When you wish to handoff to a number that isn't defined under your current locations, you can choose the **Handoff to...** option then manually define the destination.

Select one of the following radio buttons, then either enter or select the destination.

- **Mailbox**: Use this option to handoff the call to another mailbox. You can use the **Find** button to search for a mailbox if you do not know the number.
- **Phone**: Use this option to handoff the call to an external phone number. Clicking on build will allow you to separately define country & area codes.
- **Location**: Use this option to handoff the call to a chosen location's default number.

K Handoff	- 0	🖧 Handoff to		
	3	🐗 Handoff to 888	Handoff to 888	
	٩	🖧 Handoff to 8888	Handoff to 8888	
	0	4 Handoff to 1(416)2222222	Handoff to 1(416)2222222	
Transfer to				
Please, select desired destination to perform transfer to.				
C Phone		<u>▼</u> Build	1	
C Location	In Office	<b>T</b>	-	
		Ok Cancel		

3

## SPEECH COMMANDS

## In This Chapter:

- 32 Introduction
- 32 Visual Guide
- 32 Requirements
- 33 Server Configuration
- 33 Company Properties
- 33 Feature Group Properties
- 34 Mailbox Properties
- 34 Customize TUI Configuration
- 35 User Guide
- 35 Basic TUI Navigation
- 35 Temporarily Disable Speech Command

## Introduction

Navigating through the Voice Menu or the TUI can sometimes be difficult when you cannot freely enter the DTMF keys. When you're on a cellphone, for example, it is often difficult to navigate through DTMF input due to the ergonomics of cell phones. Avaya Messaging now supports a Voice Navigation function where the users may speak the numerical choice rather than to enter it on their phone. This will allow the users to freely navigate through the entire system without having to enter a single key.

## Visual Guide

The user will dial into the system as he/she would normally do. Once connected, the system will list all the menu options as usual. The user speaks the menu item number of his/her choice. The system accepts the Speech Command as a valid entry and performs the action associated with the number.



## Requirements

Requirements	Details
License	
Software	Officelinx/IX Messaging version 9.0 - 10.8 Avaya Messaging version 11.0 or higher

## Server Configuration

In order to enable Speech Commands for the users, Speech Recognition must be turned on at the Company level. This requires an ASR license. Then give permission to the FG and the Mailboxes as appropriate.

## **Company Properties**

Go to **Avaya Messaging Admin > Company**, and on the **Speech Options** tab, ensure that **Voice Recognition** is enabled for the company.

**Note**: All users that wish to use Speech Commands must be setup under a company that has ASR capabilities.



## Feature Group Properties

From Avaya Messaging Admin > Feature Group, on the Speech Options tab, enable the Enable Speech Command checkbox.

With this option enabled, individual mailboxes associated with this FG will be able to turn Speech Commands on and off.



? .

## Mailbox Properties

From Avaya Messaging Admin > Mailbox, on the Speech Options tab, enable the

**Enable Speech Command** checkbox to allow this particular mailbox user to use the Speech Command feature. You must repeat this step for all users that wish to use this feature.

Synchronization Op	d   Maijbox Options   Iransfer Options   Message Option tions   Locations   Re-route CTI Options Speech Op	
9876:	John Carter  Enable ASR for Public Contacts Enable ASR for Private Contacts Enable Speech Command Enable Voice Message Transcription Verification Options	
	Enrolled     Forced Enrollment     Verification Enabled     Security Level & Normal C High	
		Summary View >>>

## Customize TUI Configuration

Users may occasionally need to turn off the Speech Command temporarily if they are in an environment with too much noise. Voice selection of menu items can be interrupted, or another person's loud voice may be accepted as an entry instead.

To allow callers to temporarily disable this function, add the **Disable Speech Command** action to the TUI that the caller will be using. When a user selects this action from the TUI, the Speech Command feature will be disabled for that session. Users will be able to use Speech Command again the next time they log into the system. Using this action only temporarily disables the feature.

**Note**: If a user doesn't have access to Speech Command feature, this action will be a null action for them.



## User Guide

When you log into the phone system, you may sometimes find it difficult to navigate through the menus using the telephone keypad. For example, if you are using a hands-free head set while driving, having to press the keys on your cell phone can be a dangerous distraction.

To avoid this situation, you can utilize the Speech Command feature which allows you to navigate through the phone system menus without having to press any keys. You speak the number of the commands you wish to send instead of pressing the corresponding button. This allows access to all of the options available on your phone system without having to press a single button, giving you a true hands-free telephone experience.

## **Basic TUI Navigation**

When you are given a choice of menu items, simply say the number of the corresponding action.

Warning: Do not repeat the actual name of the action. You must say the number of the action instead.

It is vital that you clearly say the number. The system will automatically match the sound with a number without confirmation, so in order to properly navigate through the menus, you must pronounce the numbers as clearly as possible.

**Note**: Control keys can only be accessed through DTMF input. It is not compatible with speech commands.

## Temporarily Disable Speech Command

You may wish to disable Speech Command from time to time due to high amount of background noise. If you have the **Disable Speech Command** action in your TUI, you will be able to disable the Speech Command feature for a single session. When you select this action, Speech Command will become invalid right away, and the system will only accept telephone key input. The feature will remain disabled until you are disconnected from the system.

**Note**: When you log into the system again, the Speech Command feature will be available again.

Note: Location of the disable action will vary depending on the TUI associated with your mailbox.
# 4

# SPEECH CONTACTS

# In This Chapter:

- 38 Introduction
- 38 Visual Guide
- 38 Requirements
- 39 Server Configuration
- 39 Procedure
- 41 User Guide
- 41 Enabling Speech Contacts

# Introduction

For many business users, their list of contacts can easily grow to such a length that finding any one person can be difficult. To make this easier, the contact list can be speech enabled to allow finding a person through voice alone.

In order for a user to use this feature, configuration changes must be made on both the server and the client applications. Please follow this guide exactly as explained to enable the speech contact function on your system.

# Visual Guide



Having easy access to contacts is essential for people on the go. Spending a few minutes just to select someone to call or to send a message to is not very efficient. **Speech Contacts** makes it easy for users to locate a contact by enabling voice searches. Once the user sets a contact to be speech enabled, they will be able to find that person within the TUI.

# Requirements

Requirements	Details
License	ASR
Software	Officelinx/IX Messaging version 8.1 - 10.8 Avaya Messaging version 11.0 or higher

# Server Configuration

For the following steps, launch the Avaya Messaging Admin program.

# Procedure

 Go to Company properties, and open the Speech Options tab. Specify the following:

**Voice Recognition**: Enable to activate the ASR engine in the automated attendant.

- **Confirm Names in Voice Recognition**: Allows the confirmation of the name spoken by the caller.
- Allow Barge-In in Voice Recognition: The caller can interrupt the system (e.g. say "Yes" or "No") during voice recognition.
- **Allow Barge-In in Name Confirmation**: This allows the caller to interrupt the system (e.g say "Yes" or "No") as it performs name confirmation.
- **Allow Say Operator**: The caller can say "Operator" to be transferred to the operator if one has been setup on the system.
- From the Contact Priority dropdown list, select which of your contacts (Public, Private or None) are more important when doing speech recognition of contacts.

For example, if in a mailbox you choose to speech enable both Public and Private contacts (Mailbox > Mailbox Options screen) and the

? × Company C.O./Channel Assignment Company Languages Advanced Call Options Mailbox Options Integrated fax
Passwords/Security AMIS Parameters Admin Broadcast Messages Synchronization Options Speech Options 1: ERB Music Voice Recognition Voice Recognition Compile Grammar Confirm Names in Voice Recognition Allow Barge-In Voice Recognition F Allow Barge-In Name Confirmation Allow Sav Operato Settings ☐ Voice Verification ☐ Failed Voice Menu Wait for License Timeout None Contact Priority • Do not send notification when system disables contacts

number of users (company mailboxes + private contacts + public contacts) exceeds the number of allowable users on the license, you must disable either the **Enable ASR for Public Contacts** or **Enable ASR for Private Contacts** according to the selection you have made in this dropdown list.

For example, selecting **Private** in this dropdown list, and disabling **Enable ASR for Private Contacts** on the Mailbox > Mailbox Options screen will give priority to Public contacts.

- 3. Save any changes.
- Open the Mailbox of the person who will use this feature. Go to the Speech Options tab and specify the following:

**Enable ASR for Public Contacts**: Enable to implement ASR capabilities for public contacts.

**Enable ASR for Private Contacts**: Enable to implement ASR capabilities for private contacts.



- 5. Move onto the Advanced tab. Ensure that Messaging & Collab is selected under Desktop Capabilities.
- **6. Save** the Mailbox settings.

Mailbox		8
ailbox		
+ 🖉 × 🖬 🔯	H 4 ▶ H 🗎 🛍 💼	
	ox Options   Iransfer Options   !	s   <u>S</u> peech Options   <u>L</u> anguage Optic <u>M</u> essage Options   <u>N</u> otification   A <u>d</u> dres
Personal Operator Operator Phone Number	<u> </u>	V 🖸
D.I.D Trunk		z <u></u>
Collect Geo Location Domain Account Name	Data	Distribution Lists
Desktop Capabilities	Messaging & Collab	▼ Folders
Date Format	YYYYMMDD	Directory Listing
PBX Node		▼ Workgroup
		Summary View

# User Guide

Enabling Speech Contacts allows you to quickly and easily get in touch with your contacts through the TUI (Telephone User Interface). Instead of having to enter multiple keys to find a contact, you say the name instead.

Only speech enabled contacts may be accessed through speech. You must ensure that the contacts are enabled for speech before using the feature.

# **Enabling Speech Contacts**

You can enable speech for your contacts individually from each contact's properties.

Full Name	Gary Sadowski	Phone	1 (905) 707-9700	123
Mailing Address	123 West Main Street	Phone2		123
	Suite 101 Richmoind Hill, Ont.	Fax		123
		Mobile		123
Company Name	XYZ Enterprises	Beeper		123
Job Title	Vice President	Email	gary@xyzenterprises.c	
Department	Product Development	Web Site		20111

If you have a long list of contacts, it is quicker to use the batch function.

 Click on the **Contacts** icon, then click on the Speech Enable Contacts button.

» Contacts										
Add Contact	Q,	Import	Speech Enable Contacts	¢1	c	Ì	?	•	1	•
🗆 🗅 First	D First Name Last Name Company Default Address     Greeting Speech     Greeting Speech									

#### 2. Select the Enable Speech radio button.

If you wish to enable speech for **all** of your contacts, click on the

#### Apply To All Contacts button.

If you wish to enable speech for **only certain** contacts:

- 1. Populate the uppermost listbox with contacts. Choose from the **Select from:** dropdown list, or in the Search field, enter the contact name that you want to add and click the **Search** button.
- 2. Add contacts from the upper listbox to the bottom by enabling the checkbox beside the contact, then clicking the **Add** button.
- When all desired contacts have been added, click on the Apply to Selected Contacts button to apply the changes.

**Note**: If you wish to disable the speech contact feature for large number of contacts, repeat the above process but choose **Disable Speech** radio button instead.

Speech Enable Contacts Apply to Selected Contacts Apply To All Contacts 4 DEnable Speech < Oisable Speech Search 🤎 Search E First Name Last Name Address 2 Selected items First Name Last Name Address Send As 2 Delete selected items

When you open a contact that has speech enabled, you will see

that **Speech enable this contact** is checked. You may freely modify individual entries by enabling or disabling this checkbox.

# 5 In This Chapter:

# WEBLINKS

# 44 Introduction 44 Configuration Process 45 Configuration with IIS 7 46 Configuration with IIS 6 47 Avaya Messaging Configuration

49 Weblinks Example

# Introduction

This feature allows you to increase the security level of Voicemail and Faxes that are transferred via email by storing all the files on the server itself. Instead of the attachments being sent and received, the sender's attachment is stored on the server while the receiver gets a link to access the file.

The below process illustrates an example of how this can be implemented. Due to the variation between different sites, following these steps exactly as shown (especially with regards to the URL and folder paths) may **prevent** the feature from working properly on your own system. A professional technician with networking knowledge who understands the process would be able to configure the settings necessary for your own system setup.

Also, please keep in mind that the configuration procedure will differ depending on the version of your IIS. In general, Windows 2003 and XP will use IIS 6 while Windows 2008 and Windows 7 use IIS 7, which changes the interface you must configure the feature from.

**Note:** Voice messages which are listened to through the telephone using the Weblinks action link within the email will not automatically change the read status of the voice message. Therefore, listening to message in this fashion will not extinguish the message light on integrated environments. The end users have the option of marking the message as read through the options available at the bottom of the Weblinks message. Performing such an action will extinguish the message light on integrated environments if the message is the last unread message.

# Configuration Process

The exact procedure to setup Weblinks depends upon which version of IIS (Internet Information Services) is installed on the server.

**Warning**: Only follow the procedure that is relevant to your system. Do Not perform both IIS setup procedures.

If the server has IIS 7 installed, begin the process on page 45.

If the server has **IIS 6** installed, begin the process on **page 46**.

Regardless of which version of IIS is present, the Avaya Messaging setup remains the same. Once the appropriate version of IIS has been configured, continue with the Avaya Messaging setup on **page 47**.

# Configuration with IIS 7

**Warning**: Use these instructions **only** if you have IIS 7 or later on your system. If you have IIS 6, use the section **Configuration with IIS 6 on page 46**.

1. In order to utilize Weblinks, you must first confirm that you have the necessary Windows components installed for IIS.

You will need **HTTP Redirection** and **CGI** enabled within IIS.

This image shows adding the component from

Windows Server 2008, which occurs under **Role management**.



If you are utilizing Windows 7, you will see this screen, available from Control Panel > Programs & Features > Windows Features.



Important: Continue with the section Avaya Messaging Configuration on page 47.

# Configuration with IIS 6

**Warning**: Use these instructions if have IIS 6 on your system. If you have IIS7, then use the section **Configuration with IIS 7 on page 45**.

1. Open the Start menu.

Right-click My Computer then choose Manage.

 On the left-hand side, select Web Service Extensions.



3. On the right-hand side, select All Unknown CGI Extensions.

Click on Allow.

Somputer Management	telp		_ D ×
← → € 8 2 8			
System Tools  S	We Service Extensions Allow Prohibit Properties Tasks Add a new Web service extension Allow all Web service extensions for a specific application Prohibit all Web service extensions Open Help	Al Uninown CGI Extensions     Active Server Pages     Active Server Pages     Aspect NET v1.1.4322     Triternet Data Connector     Server Side Includes     WebDAV	Prohibited Prohibited Alowed Prohibited Prohibited Prohibited
	Extended Standard		

4. You will get the following warning.

Click **Yes** to accept the changes and continue.

5. Repeat steps step 1- step 4 for All Unknown ISAPI Extensions.

Important: Continue with the section Avaya Messaging Configuration on page 47.



? ×

-

# Avaya Messaging Configuration

Once the appropriate version of IIS has been setup, continue with the Avaya Messaging configuration.

- From AM Admin > Configuration > VPIM/ SMTP, change the value of HTML Content to True.
- 🥑 UC Admin -📀 File Action View Window Help 🗢 🔿 💋 🙆 🛃 🛛 Fdit String 7 Value Name Global Parameters 🔿 Fax gate 🗘 НТТР HTML Conten Fax gate IMAP Server Fax gate Value Data Forward -🖉 Logs HTML -POP3 Server <u>o</u>K Cancel HTML - A Remote Site Setting HTML - Allow Mark as Read True True HTML - Allow Phone Playback Reports 🔏 User Manager HTML Filter False **Telephony Settings** 🔿 IP Address VPIM/SMTP Maximum of the SMTP tasks 20

👬 Feature Group

Feature Group

👔 1: Default Users

IMAP Account

Account Password

 In order to utilize the Weblinks function, the mailbox has to be associated with the Feature Group that has the function enabled.

From Avaya Messaging Admin > PBX > Company > Feature Group, go to the Synchronization Options tab and select the type of messages you wish to use Weblinks with from the dropdown menu.

**3.** If a user does not utilize IMAP CSE Synchronization between their Avaya Messaging mailbox and the mail server account, you may opt for the forwarding method.

From Avaya Messaging Admin > PBX > Company > Mailbox, open the properties of the mailbox you wish to enable Weblinks for, then go to the Message Options tab. Create an entry to forward the emails. When the mailbox is associated with the Feature Group that has the Weblinks enabled, as shown in previous step, you can enable the HTML Content checkbox. Be sure to leave the Attachment checkbox disabled if you wish to send the URL only.

Warning: Please keep in mind that this step is only for users who will be using email forwarding instead of IMAP CSE Synchronization. If you configure forwarding for users who are using IMAP CSE Synchronization, there will be an infinite loop of messages. You should either use IMAP sync or forwarding but never both for the same mailbox.



General | Storage Options | Notification Options | Iransfer Options | Transfer Types Mailbox Options | Message Options Synchronization Options | DID Properties | Speech Options

Calendar Mode

Max Connections 3

None

4. When all your server side configuration has been completed, restart the server computer.

48

×

-

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

This task will be created with administrative privileges.

Cancel Browse...

C:\UC\WebMailConfig.exe /i user.erb.com

ОК

🖅 Run

Open:

Locate the webmailconfig.exe file in the Avaya Messaging folder (by default, this is C:\UC).
 From Windows, go to Start > Run and enter the full path and file name in the space provided. Add the /i parameter, and the URL of the server where the files will be kept.
 For example:

#### C:\UC\webmailconfig.exe /i user.erb.com

Click **OK** and the program will automatically configure the remaining settings.

6. Stop and restart the World Wide Web Publishing Service on the computer to complete the setup.

Q Services							_ 8 ×
Eile Action View E	<u>t</u> elp						
	🗟 🛛 🖬 🕨 🖬 🕪						
Services (Local)	🔅 Services (Local)						
	World Wide Web Publishing Service	Name 🔺	Description	Status	Startup Type	Log On As	<b>_</b>
	Stop the service Restart the service	Windows Time     Windows Update     Windows Update     WinHTTP Web Proxy Auto-Discovery 5	Maintains d Enables th WinHTTP i	Started Started	Automatic Automatic (D Manual	Local Service Local System Local Service	
	Description: Provides Web connectivity and administration through the Internet Information Services Manager	Wired AutoConfig WMI Performance Adapter Workstation Workd Wide Web Publishing Service	This servic Provides p Creates an Provides W	Started Started	Manual Manual Automatic Automatic	Local System Local System Local Service Local System	

#### Weblinks Example

The following is an example of how the attachments are handled using this function. The email itself only contains the text of the message. The attachment is left on the server. If you were to forward this email to someone with no permission to access the mail server, they would not be able to listen to the message. While the email is forwarded, the attachment itself remains secure on the server.

By using the **Playback** buttons, the voice message can be played through the current device, or the telephone associated with the user's default extension. Additional buttons allow the message to be **Mark Read** or **Deleted** from the voice server. A call to the sender can also be initiated by clicking the **UC Dial** (dial through the Avaya Messaging voice server) or **Dial** (dial through a configured device, such as a cell phone when out of the office) buttons.

[Trai	nscribed] Voice N	<i>N</i> essage F	rom: D.Inne	s, 2345		Inbox x	÷ Ø
•	D.Innes <notifications< th=""><th>s@erbmusic.c</th><th>om&gt;</th><th>@ 2:28 P</th><th>M (38 minutes ago) א</th><th>* *</th></notifications<>	s@erbmusic.c	om>	@ 2:28 P	M (38 minutes ago) א	* *	
	Mark Read	Delete	UC Dial	Dial	View		
	From: D.Inne Date/Time: 2019/0						
	<u>Voice Message (4.0</u>	<u>s)</u> Phone	playback				
	<u>Transcribe.txt (1 kB</u>	) Phone	playback				
	This person	called and	left you a vo:	ice messa	ge you nee	d to listen to	
	2 attachments – D	ownload all at	tachments				
	VoiceMsg[ ] ].mp3 7K Play Dowr		1-288.8-21483	100.716	00.004	ABENADE MINIE (~1	
	Transcribe.txt 1K View Dow	nload					

The View button opens an new window in the browser. This window contains playback controls for the message.

(Transcribed 2345	1] Voice Message From: D.Inn <del>os</del>	🖉 Mark as Unread	i Delete
D.Innes		02:	28:58 PM
This person cal Voice message	led and left you a voice message yo ④ Play බ Stream 루 Phone	u need to listen to	
voice message		-	
g+ 1	Hangout Q* Share 0 Tweet 0	•	

Fax messages processed through Weblinks will behave in the same manner. The attachment remains on the server while only links to view the message are sent to the user.

Forwarded messages will contain links which are only viewable by authorized users.

# 6

# EMAIL ACTION SCHEMA

# In This Chapter:

- 52 Introduction
- 52 Enable Action Schema
- 54 Email Buttons

# Introduction

The **Action Schema** option causes tags to appear in the subject line of emails that contain voice messages, or those that denote missed calls. Users can click on these buttons to playback voice messages, or to immediately place a telephone call to the contact.

Warning: This feature is only compatible with email programs that support DKIM verification.

Warning: Actions Schema is not supported on systems using IMAP Synchronization.

# Enable Action Schema

Turn on the Action Schema option through the Avaya Messaging Admin program.

1. Start Avaya Messaging Admin and open the **Mailbox** folder.

💰 Avaya Messaging	Name	Number	Feature Group	Tutorial	Current Location	Location Availability	Сара
A 🚯 Office 2000	Development					,	
a 🟭 E.R.B. Music	Sales						
Mailbox Structure	Burroughs E.R.	1111	1:Default Users	On	In Office	Available	Stan
Feature Group	Clayton John	1912	1:Default Users	Off	In Office	Available	Stan
Remote Site	Innes David	2345	1:Default Users	Off	In Office	Available	Stan
Routing Table Voice Menu	O'Groats John	3811	1:Default Users	Off	In Office	Available	Star
Customize TUI	Perry Abner	4321	3:Share Extensi	Off	In Office	Available	Star
Rint Server	Rorter Jane	6122	1:Default Users	Off	In Office	Available	Star
Fax Jobs	🕷 Smith Brian	7854	1:Default Users	Off	In Office	Available	Star
b is Storage	💓 Dover Eileen	8065	2:Phantom Us	Off	In Office	Available	Stan
Speakers Corner	Arts Otto	8401	1:Default Users	Off	In Office	Available	Stan
Mailbox Templates	🧟 Carter John	9876	1:Default Users	Off	Away on Business	Unavailable	Mes
> 🛅 TSE IMAP Server							
Voice Server							
> 🙋 Configuration							
	•						

2. Double-click one of the listed mailboxes, and open the Message Options tab.

🥂 Mailbox			? 💌
Mailbox			
% ⊕ <b>ø × ∎ 🙆 н • •</b>	H 🗎		
Addresses Synchronization Options			
🍓 7854: Brian Smith			
Destination Type Address	Forward Type	Message Type	Attachment
E-mail bryans@erbmu	Relay	Voice	No
	11		
	III		•
<u>Add</u>	<u>R</u> emove	<u>E</u> dit	
Delete After Forward C Yes 📀 No			
			Summary View >>>

- 3. Click Add to create a new Address, or select an existing address and choose Edit.
- 4. Select which **Message Types** (voice and missed calls) will add a tag to the message in the email subject line. Configure the remaining settings as required, and enable the **Action Schema** checkbox.

Address	? 💌
Destination Type	E-mail
Destination	bryans@erbmusic.com
Address	
Forward Type	Relay
Voice Format	Wave MS GSM 6.10
Fax Format	TIFF
Message Type	🗆 E-mail 🔲 Fax 🔽 Voice 🔽 Missed Call
After	hour(s) minute(s)
Attachment	
🔲 Disabled	
Locked	
🗖 HTML Content	
🔽 Action Schema ┥	<u>K</u>

Click **OK** when finished.

**Hint**: For a complete details for all of the items in the Addresses window, refer to the **Add / Edit Message Options**, page 161 in the Server Configuration Guide.

5. Save the changes to the mailbox.

# Email Buttons

Once the feature has been enabled, incoming calls that are not answered will cause a button to be added to the subject line in the email header of your client.

For calls where the contact leaves a voice message in the mailbox, a **View** button will appear beside the message. If the caller did not get an answer and chose not leave a message, then the **Dial** button will appear.

COMPOSE	Primary	Social +	
Inbox (3) Important	🗌 ☆ » David Innes	Missed call from David Innes, 2345 - UC Dial Dial View From: David Innes Date/Time: 2019/08/10 10:42	10:42 am
Sent Mail	🗌 🛧 » John O'Groats	Disable IMAP - You have to change your storage mode or remove your synchronization	10:39 am
Drafts	🗌 📩 » Abner Perry	Meeting Time Changed - We have had to push back the meeting time by one hour.	10:23 am
Trash _Chats	🗌 🙀 💌 John Carter	[Transcribed] Voice Message From: John Carter, 9876 - UC Dial View From: UC John Carter Date/Tim 📔 View 🛪 🕿	Jan 28

**Note**: In the examples that follow, when initiating a telephone call to the contact, the device currently selected is used. The current device is defined within your location setup. For example, if your current location is **Mobile**, the call will ring on the device configured for that location (i.e. a cell phone). If you are **In Office**, your desktop phone may be used instead.



The Dial button will start the iLink dialer and place a telephone call to the contact using the currently selected device.



Clicking the **View** button will open a window where the voice message in the inbox can be played back over any audio enabled device. If licensed, the transcription of the message will also be included in the playback window.

(Transcribed) Vo Carter, 9876	ice Message From: John	🖉 Mark as Unread	🗑 Delete
John Carter		Tue, Jan 28 3:	21:34 PM
To Jane Porter			
	1	Franscription lice	nse required
Jane, this is John. I am me know if you need anything	just calling to check in to see how thin 1.	gs are going with that n	ew project. Let
Voice message	🔹 Play 🗟 Stream 📮 Phone		
Q+ Hange	0:02 (%)	•	



<Back to View>

Choose Play to have the voice message converted to MP3 format and played through the browser.

Stream Stream Stream

Choose **Stream** when the browser player does not support the MP3 format, or if a different format is preferred. The audio file will be played using an appropriate viewer, using the **Voice Format** specified in Avaya Messaging Admin on the

Mailbox > Message Options tab under Add/Edit.

Mailbox		? 💌	
Mailbox	lele		
Addresses   Synchronization Options   General   Advanced   Mailbox Options	ocations   <u>R</u> e-route C Iransfer Options M	TI Options Speech Options essage Options <u>N</u> otification	
7854: Brian Smith	Address		? 🔀
Destination Type Address F. E-mail bryans@erbmu R	Destination Type		•
e new byonceronne i	Destination Address		
	Forward Type	Relay	<b>-</b>
	<ul> <li>Voice Format</li> </ul>	Wave MS GSM 6.10	<b>_</b>
	Fax Format	Dialogic ADPCM 0KI 32 (4bit) G.726 ADPCM 4 bit (VPIM 2.0) MPEG-1 Audio Layer 3 (MP3)	
	Message Type	Rhetorex ADPCM 32 (4bit) Wave ALAW 8kHz (G711) Wave MS ADPCM	
1	After	Wave MS GSM 6.10 Wave MS IMA ADPCM	
	Attachment	Wave MuLAW 8kHz (G711) Wave PCM 16bit 11kHz Wave PCM 16bit 8kHz	
Delete After Forward C Yes   No	🕅 Disabled	Wave PCM 8bit 8kHz	*
Delete Alter Forward ( Yes (* No	C Locked		
	F HTML Content		
	Action Schema		<u>Q</u> K <u>C</u> ancel



<Back to View>

Select this option to playback the message on the current default telephone device. The device will ring, and playback will begin through the handset/speaker.

#### Google+ Hangout & Hangout

<Back to View>

Click on **Google+ Hangout** to create a video call in the default browser. Enter the contact's name or number into the space provided to start the event. Click **Invite** to send an invitation to join the hangout to the contact's Google+ account. The contact must be logged in to their account to receive the invitation.



#### Google+ Share 8+ share

Choosing Google+ Share allows the user to share the message with others through their Google+ account.

Add a comment	
uaar aarta.com/c/c/MaliLink/ShearnConten	
MagC=453000454240aC=264884agPart=0 Mgs/max.mea.sec010.WebLen/MeanCodet.attr.	
+ Add names, circles or email addresses	

Enter a comment and the contacts to share the file with. Click **Share** when ready.



<Back to View>

The **Tweet** button allows the user to share the audio file with their Twitter followers.



iLink Dialer 🔹

**iLink Dialer** opens a log displaying all calls made to and from the mailbox. Details include the caller's extension or phone number, the caller's name, and the time, date and length of the call.

Click on a contact or their number to open their popup card. In window, click the contact's number to place a call. Your default telephone device will ring, and you will be connected to the contact.

Type nui	nber to dial or name	to resolve	Call	
Caller ID	Name	Time	Duration	Eileen Dover - 8065
- 6122	Jane Porter	08:59:52 AM	00:00:00	Lincen Dover 0000
» <u>6122</u>	Jane Porter	08:25:10 AM	00:00:00	
» <u>8065</u>	Eileen Dover	08:03:06 AM	00:00:00	
- 9876	John Carter	07:53:02 AM	00:00:00	(B) = )
- 2345	David Innes	07:48:42 AM	00:00:00	
9876	John Carter	07:46:42 AM	00:00:00	
- <u>6122</u>	Jane Porter	Wed, Jan 29 9:41:17 AM	00:00:00	
- <u>7854</u>	Brian Smith	Tue, Jan 28 3:21:22 PM	00:00:00	Home Office

#### iLink Messages 🖾

<Back to View>

iLink Messages opens a list of voice messages left in the mailbox. Details include the name of the contact who left the message, their number or extension, and the date and time the message was received.

Click on an item to playback the message.

9/18/2012 3:13:52 PM 9/3/2013 10:21:37 AM 9/3/2013 10:23:44 AM	🖉 Mark as Read 📋 Delete
9/3/2013 10:36:28 AM 10/1/2013 2:28:58 PM Tue, Jan 28 3:21:34 PM 07:53:19 AM	David Innes Tue, Jan 28 3:21:34 PM Eileen, sorry that I missed you. Can you please give me a call as soon as you get this? A customer
	is having some issues we need to solve. Thanks.
	►
	9/3/2013 10:21:37 AM 9/3/2013 10:23:44 AM 9/3/2013 10:36:28 AM 10/1/2013 2:28:58 PM Tue, Jan 28 3:21:34 PM

#### Contact Location

In various places through the window, moving the mouser over the contact's name will open a new window which shows their current location in Google Maps, if they have the **Geo Location** option enabled. There are also icons to contact them through email or telephone.



Mail: Opens an email client program to compose and send an email message to the contact.

**Call**: Places a telephone call to the contact. Your desktop telephone will ring, and you will be connected with the contact once they answer.

# **7** NUANCE TRANSCRIPTION SERVICE

# In This Chapter:

- 60 Introduction
- 60 Visual Guide
- 61 Requirements
- 62 Licensing
- 62 Upgrading the License
- 65 Avaya Messaging Server Configuration
- 65 Transcription Configuration Tool
- 67 Nuance Server Configuration Requirements
- 68 Verification
- 68 User Guide

# Introduction

**Note**: Transcription provides text output from voice messages left in a user's mailbox. The user will receive an email with the transcribed text of the message.

The Transcription feature allows users to receive text output from voice messages. The transcribed voice message is delivered to the user in the body of an email.

Transcription is not part of the standard Avaya Messaging license. It must be purchased separately. Licenses for the Nuance (cloud based) or Mutare (on-premise) Transcription Services are available through Avaya.

This chapter describes the configuration for the Nuance cloud-based transcription service.

### Visual Guide



When a voice message arrives on the voice server, the message is sent to the Nuance transcription server. The message is then returned to the voice server once the transcription has been completed. The voice and text messages are combined and delivered to the user's mailbox.

**Hint**: Transcribing a voice message will take some time depending upon the length of the message and the amount of traffic on the servers. If receiving a voice message immediately is critical for a user, it is recommended either that transcription is turned off for that user, or that time out settings are configured to ensure messages are delivered within an acceptable time limit.

# Requirements

Requirements	Details
License	Nuance Subscription available from Avaya
Software	Avaya Messaging version 8.1 or higher

- A Nuance transcription service subscription.
- Must have **Enabled SSL** on the **IIS** using a **Secure Certificate** Key. Please refer to the **IIS/SSL** document located in Avaya Messaging Server Configuration Guide Security chapter.
- Internet access for Avaya Messaging server. This can be an external IP address, or a Domain Name providing access directly or through proxy to the Avaya Messaging server.

# Licensing

The transcription feature is not included with the standard Avaya Messaging license but is available as an option from Avaya. These instructions are only required if a Nuance transcription license is purchased after Avaya Messaging is installed and configured.

Once you have purchased a license, it must be activated through the UC License Upgrade Utility. The service must then be configured through the Transcription Configuration Tool.

# Upgrading the License

If Avaya Messaging has already been installed and setup on a server, add a transcription license by following these steps.

- 1. On the Avaya Messaging server, go to Start > All Programs > Avaya Messaging > UCLicenseUpgrade.
- 2. The License Upgrade Utility screen appears. Click Upgrade.

🙀 License Upgrade	Utility						×
UC6 Ex	DEMO 🖡 piry Date: 🖡	<ul> <li>Soft Licens</li> </ul>	e Ser 123	tinel 345	No	H/W Signature 90e57sna07te-c97000hl	_
Is User Based General Settings- PBXs Companies Mailboxes Languages VoicePorts Redundant Clients	1 5 20000 3 8 0	ব ব ব ব ব ব	ervices SMS PMS IVR LAP IMAP CTILink AMIS VPIM		SMTP/MAPI Redundancy Agent Login FaxMail Mobility(WAP Messaging CTI Only		
UM Users UC Users Mobility Users VUC Users EFax Users	20000 10000 10000 10000 10		ActiveX SIP G729 OCS	<u>v</u>	SMDI/MCI TAPI Integrated Fa PDF Outcall	X	
Servers PrintServers TSE Connections Fax Ports OutFaxPorts I Soft Fax	1 2 8	AS AS AS AS Ver	SR R Provider R Names RPorts R Langs ification Po sech Expiry	rts			
SoftFaxPorts Transcription Provi Transcription Type: Transcription Expiry Transcription Users Activation Date:	n.	TT	S Provider S Ports		RealSpeak 4. 8	0	

**3.** The Serial Number and Site ID will already be entered. If not, enter the data manually:

Serial Number: Enter the serial number for your Avaya Messaging license.

Site ID: Enter the site ID for your location.

Both of these items are provided by Avaya as part of the initial Avaya Messaging license package.

	License Activation	
	Serial Number	
	Site ID	
	Hardware Signature	
	Locate License File Offline Request Online Activation Close	
Licen	e Activation	x
_		
	Serial Number	
	Ch- ID	
	Site ID	
	Hardware Signature	
	ate License File Offline Request Online Activation Close	

4. Click Request Online Activation.

5. The license will be updated from Avaya's online license server to include the latest features.

Click Set as Active License.

Product 🔽 Is DE		Sentinel	No	H/W Signatur	
	Date: 2016/09/15	12345		001122a3344	5-b6677cd8
	Cloud Connect           1         5           500         5           9         5           4         5           0         5           25         5	7 PMS 7 IVR 7 LAP 7 IMAP 7 CTILink 7 AMIS 7 VPIM 7 ActiveX 7 SIP	SMTP/h     SMTP/h     Redund     Agent Li     FaxMail     Mobility(     Messagi     CTI Only     SMDI/M     TAPI     Integrate	(API - ancy - ogin - w(AP) ng , (CI	Exit Upgrade Set as Active Licens
VUC	0		PDF		
Fax	0	OCS JITC	Coutcall		
Servers PrintServers TSE Connections Fax Ports OutFaxPorts IV Soft Fax SoftFaxPorts	1 Å Å Å Å Å Å Å Å Å Å Å Å Å Å Å Å Å Å Å	SR Provider SR Provider SR Names SRPorts SR Langs 'erification Po peech Expiry TTS	Nuance + AST-1 2 1 rts 4	8.5	
Transcription Provider. Transcription Type: Transcription Expiry: Transcription Users:	Nuance T	TS Provider TS Ports cheduled Re:	RealSpe 2 sources 0	ak 4.U	

6. Your Nuance transcription license is activated.

Click **OK** to continue and configure of the service.

NLicense	Upgrade	×
<u> </u>	Thank You! License is activated.	
	ОК	

# Avaya Messaging Server Configuration

Once you have added the transcription license, you must configure Avaya Messaging to communicate with the Nuance servers over the Internet.

**Note**: The settings made here are system wide, applied to all accounts on all companies.

# Transcription Configuration Tool

- 1. On the Avaya Messaging server, go to Start > All Programs > Avaya Messaging > UCTranscriptionConfig.
- 2. Enter all required information.



**Note**: Step 3 applies only to installations using the **Nuance Multilingual Transcription Service**.

- 3. Click Language Options. Specify the regional variation for each required language.
- 4. Click **OK** when finished.



#### Save Voice Messages as Text

Enable this checkbox to have the system mark voice messages as text messages after transcription. Leaving this unchecked will have the messages marked as voicemail in your mailbox once transcribed.

#### Transcribe Urgent Messages

Disable this checkbox to exclude messages flagged as Urgent from the transcription service. Transcribing a message can take several minutes so this option allows urgent messages to be delivered immediately without transcription.

#### Call Back URL

This is the externally accessible URL of your Avaya Messaging Voicemail server to which Nuance will send completed transcriptions. You can configure your DNS and change "YourCompanyUrl" only (i.e. from "https://YourCompanyUrl/uc/ webtranscribe/WebTranscribeclass.asp" you only need to change "YourCompnayUrl") since the virtual folders and the transcription receiver applications are automatically setup.

#### Number of Minutes to Hold Voice Messages for Transcription

Voice messages for selected mailboxes are put on hold until the transcription is returned from Nuance. This value (in minutes) tells the system when to give up waiting for a transcription and deliver the message as voice only. The default value is 15 minutes.

#### Language Options / Map Languages

Nuance supports many regional variations within a language. Differences due to accent, pacing and word selection can be compensated for by choosing the appropriate variation from the dropdown lists.

#### Maximum Transcribed Message Length

Nuance will transcribe up to the first 60 seconds of any message. The portion of the message beyond 60 seconds will not be transcribed, although the voice recording will be unaffected.

# Nuance Server Configuration Requirements

In order for the Nuance servers to properly receive and reply to transcription requests, the customer must provide certain information regarding the setup of their computer network. This information must be provided before the transcription service can be used. Your sales associate will collect this information when the license is purchased.

The information required is listed in the following table.

Item	Details	Description
Customer request source IP address	(e.g. 11.22.33.44)	This is the IP address <b>from</b> which (source) the customer will send transcription requests to Nuance.
Nuance request target IP address:Port	(e.g. 98.765.432.100:8621)	This is the IP address and port <b>to</b> which (target) the customer will send transcription requests to Nuance.
Customer Result URL (Call Back URL):Port (default Nuance port is 80 or 443)	(e.g. http://12.34.56.789:80/ NuanceResult)	This is the customer URL (Call Back URL) and port to which Nuance will send the completed transcription requests. If the customer wants to use ports other than 80 and 443, Avaya must be informed so that the
		corresponding changes can be applied to the transcription server.
Nuance Result IP address:Port (not required for Nuance Multi-Lingual install)	(e.g. 99.888.777.100:80)	This is the URL and port <b>from</b> which Nuance will send the completed transcription requests back to the customer.
Special requests	(e.g. https using self-signed certificates from IP:port)	Include any special requests from the customer such as the use of https, self-signed certificates, ssl, etc. Otherwise, Nuance will use default port 8X21 to create inbound URL into Nuance.
Type of Service	(e.g. Fully Automated)	Specify the type of transcription service desired: fully automated (computer based), semi- automated (with some human assistance), other.
Nuance Operator ID	(e.g. CUST-VM2T)	Customer ID to be used for the new tenant or type of service.
Customer prefix for session ID's	(e.g. CUST-xxxx-yyyyy-zzzz)	Customer should use a unique string like "Customer-XXXX" for session ID's.

The customer's network administrator must ensure that all of the necessary changes have been made to network security systems (i.e. firewall, antivirus) to permit this communication. The stated ports and addresses must be opened for both outbound and inbound traffic.

# Verification

Once all of the information has been collected and the network adjustments made, the connection between the customer's network and the Nuance transcription server should be tested by sending a service request through Avaya Messaging and waiting for the response. Any issues or unusual delays must be reported immediately so that the situation can be resolved.

# User Guide

When a new voice message is received:

- 1. The system checks if the mailbox has transcription enabled.
- 2. If so, it uses the **UCTranscribeUploader** service to submit the voice file for transcription. The Callback URL is also sent to allow the Nuance server to reply with the results.

**Note:** The original message is put on hold for an amount of time defined by your administrator. The default value is 15 minutes. This means that the UC system will send the message to the transcription service and then wait for a maximum of 15 minutes for a response. If the message has not been returned in that time, the process will time out and a regular voice message will be sent to the mailbox. You should be aware of the delay so that no problems arise from it.

- Once the transcription is complete, the Nuance server will use the Callback URL to return the results to the UC system. The transcribed text will be the body of an email with the original voice message included as an audio attachment.
- 4. The combined message is delivered to the user's mailbox.

**Note**: There is no limit to the length of the message being transcribed unless set by the system administration. It is recommended that Avaya be informed if the enterprise consistently requires transcription of messages longer than 10 minutes as additional processing resources should be allocated. For example, a 60 second message may have 95% confidence score in the transcription, while a ten-minute message may drop significantly.

This is not a failing of the technology, as most voicemail systems do not record high fidelity or quality can be degraded with poor connection, voice quality, or background noise which can affect the transcription confidence.

# 8

# MUTARE TRANSCRIPTION SERVICE

# In This Chapter:

- 70 Introduction
- 70 Visual Guide
- 71 Requirements
- 72 Licensing
- 72 Upgrading the License
- 74 Avaya Messaging Server Configuration
- 74 Transcription Configuration Tool
- 75 Verification
- 75 User Guide

# Introduction

**Note**: Transcription provides text output from voice messages left in a user's mailbox. The user will receive an email with the transcribed text of the message.

The Transcription feature allows users to receive text output from voice messages. The transcribed voice message is delivered to the user in the body of an email.

Transcription is not part of the standard Avaya Messaging license. It must be purchased separately. Licenses Mutare Transcription Services are available through Avaya.

This chapter describes the configuration for the Mutare on-premise transcription service. Mutare will provide the necessary software to the client and assist with the installation and configuration.

**Important**: The transcription service is available only to accounts with **Messaging and Collaboration** (Avaya Mainstream) Desktop Capabilities. An account with **Messaging** (Avaya Basic) alone will not have access to this feature. Desktop Capabilities are configured in Avaya Messaging Admin on the Advanced tab for each mailbox.

# Visual Guide



When a voice message arrives on the voice server, the message is passed to the Mutare transcription server across the corporate network. The message is then returned to the voice server once the transcription has been completed. The voice and text messages are combined and delivered to the user's mailbox.

**Hint**: Transcribing a voice message will take some time depending upon the length of the message and the amount of traffic on the servers. If receiving a voice message immediately is critical for a user, it is recommended either that transcription is turned off for that user, or that time out settings are configured to ensure messages are delivered within an acceptable time limit.

# Requirements

Requirements	Details
License	Mutare Subscription available from Avaya
Software	Officelinx/IX Messaging version 10.6 - 10.8 Avaya Messaging version 11.0 or higher
Hardware	A computer that meets Mutare server requirements.

- A Mutare transcription service subscription.
- The Mutare software resides on the corporate network on its own machine. Ensure that a suitable computer is available to host the transcription service.

# Licensing

The transcription feature is not included with the standard Avaya Messaging license but is available as an option from Avaya. These instructions are only required if a Mutare transcription license is purchased after Avaya Messaging is installed and configured.

Once you have purchased a license, it must be activated through the UC License Upgrade Utility. The service must then be configured through the Transcription Configuration Tool.

**Note**: If this is a first time installation, and not an upgrade to an existing system, skip ahead to the **Avaya Messaging Server Configuration**.

# Upgrading the License

If Avaya Messaging has already been installed and setup on a server, add a transcription license by following these steps. If this is a new installation, skip ahead to Avaya Messaging Server Configuration.

- 1. On the Avaya Messaging server, go to Start > All Programs > Avaya Messaging > UCLicenseUpgrade.
- 2. The License Upgrade Utility screen appears. Click Upgrade.

🖄 License Upgrade Ut	ility	×.
Product V Is DE	M0 V Soft Licer	
	Cloud Connect 1 5 500 9 4 0 25	✓ Services     ✓ SMS     ✓ SMS     ✓ SMS       ✓ SMS     ✓ Redundancy     Upgrade       ✓ IVR     ✓ Agent Login       ✓ LAP     ✓ FaxMail       ✓ IMAP     ✓ Mobility(WAP)       ✓ CTILink     ✓ Messaging       ✓ Antis     ⊂ CTI Only       ✓ VPIM     ✓ SMDI/MCI       ✓ ActiveX     T API
Collaboration VUC Fax Servers PrintServers	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIP     V     Integrated Fax       G 729     V     PDF       OCS     Outcall       JITC     Call Center
TSE Connections	1	ASR Provider Nuance ASR Names AST-1 ASRPorts 2
Fax Ports OutFaxPorts I Soft Fax SoftFaxPorts	0	ASR Langs 1 Verification Ports 4 Speech Expiry
Transcription Provider Transcription Type: Transcription Expiry: Transcription Users: Activation Date:2021	None O	TIS Provider RealSpeak 4.0 TTS Prots 2 Scheduled Resources 0
3. The Serial Number and Site ID will already be entered. If not, enter the data manually:

Serial Number: Enter the serial number for your Avaya Messaging license.

Site ID: Enter the site ID for your location.

Both of these items are provided by Avaya as part of the initial Avaya Messaging license package.

9	erial Number	
9	ŝite ID	
F	lardware Signature	1000000000000-11000000-4802790467
L		<u> </u>
		<b>7</b>

#### 4. Click Request Online Activation.

5. The license will be updated from Avaya's online license server to include the latest features.

🙀 License Upgrade Utility		
Product         IF         Is DEM0         IF         Soft Lice           UD6         □         Expiry Date:         2020/06/15           □         Is User Based         □         Cloud Connect           □         General Settings         □         Cloud Connect           □         DBXs         1         Companies         5           Mailboxes         500         Languages         9         VoicePorts         4	-	3
Redundant     0       Users     25       Messaging and Collab 25     25       Collaboration     0       VUC     0       Fax     0		
Servers PrintServers 1 TSE Connections 1 Fax Ports OutFaxPorts 0 I/V Soft Fax SoftFaxPorts 1	Verification Ports 4 Speech Expiry	Ipgrade X
Transcription Provider: Mutare Transcription Type: Auto Transcription Expig: 2019/06/15 Transcription Users: 10	TTS Provider RealSpeak 4.0 TTS Ports 2 Scheduled Resources 0	ОК

Click Set as Active License. Click OK.

**6.** Restart the server to complete the update.

Your transcription license is activated.

# Avaya Messaging Server Configuration

Avaya Messaging must be configured to communicate with the Mutare server over the corporate network. This applies whether this is an upgrade or first time installation.

Note: The settings made here are system wide, applying to all accounts on all companies.

## Transcription Configuration Tool

- On the Avaya Messaging voice server (in an HA installation, on the Primary and all Secondary voice servers), go to Start > All Programs > Avaya Messaging > UCTranscriptionConfig.
- **2.** Enter all required information.

6	Transcriptio	n Configuration	- 🗆 X
	Transcription Provider	Mutare	
-	Save Voice Messages as Text		anguage Uptions
, T	-		
	all Back URL		
۱ŀ	https://YourCompanyDomain/ucweb	api/api/1.0/user/transc	riptions/mutare
_	ranscription AccountID		
1	23456789		
	ompany Transcription APIKey		
9	187654321A		
	ranscription Operator Type		
) F	ullAuto		
	umber of Minutes to hold Voice Mes	sages for Transcription	
1.	80		
	ranscription Provider Url		
ŀ	https://TheMutareServerURL		
Т	ranscription Mailboxes Licensed: [1]	0]	
		<u>o</u> k	Cancel

- **Save Voice Messages as Text**: Enable to mark voice messages as text messages after transcription. Leaving this unchecked will have the messages marked as voicemail in your mailbox once transcribed.
- **Transcribe Urgent Messages**: Disable this checkbox to exclude messages flagged as Urgent from the transcription service. Transcribing a message can take several minutes so this option allows urgent messages to be delivered immediately without transcription.
- **Call Back URL**: This is the externally (Cloud-based) or internally (On-premise) accessible URL of your Avaya Messaging server (in an HA system, this will be the <u>Primary</u> Consolidated server) where Mutare will send completed transcriptions. You can configure your DNS and change "YourCompanyDomain" only (i.e. from "https://YourCompanyDomain/ucwebapi/api/1.0/user/transcriptions/mutare" you only need to change "YourCompanyDomain") since the virtual folders and the transcription receiver applications are automatically setup.

Transcription AccountID: Enter the Mutare account information provided by your vendor.

Company Transcription APIKey: Enter the Mutare API key provided by your vendor.

**Transcription Operator Type**: Not applicable for a Mutare configuration.

**Number of Minutes to hold...** : Voice messages for selected mailboxes are put on hold until the transcription is returned from the Mutare server. This value (in minutes) tells the system when to give up waiting for a transcription and deliver the message as voice only. The default value is 15 minutes.

Transcription Provider URL: Enter the URL to reach Mutare on-prem server on the corporate network.

3. Click Language Options. From the dropdown list, select a language / variation to use, then click OK.

Important: This field must not be left blank. There must be an language selected here.

4. Click **OK** when finished.

# Verification

Once all of the information has been collected and the network adjustments made, the connection between the customer's network and the Mutare on-premise transcription server should be tested by sending a service request through Avaya Messaging and waiting for the response. Any issues or unusual delays must be reported immediately so that the situation can be resolved.

# User Guide

When a new voice message is received:

- 1. The system checks if the mailbox has transcription enabled.
- 2. If so, it uses the **UCTranscribeUploader** service to submit the voice file for transcription. The Callback URL is also sent to allow the Mutare server to reply with the results.

**Note:** The original message is put on hold for an amount of time defined by your administrator. The default value is 15 minutes. This means that the UC system will send the message to the transcription service and then wait for a maximum of 15 minutes for a response. If the message has not been returned in that time, the process will time out and the untranscribed voice message will be sent to the mailbox. You should be aware of the delay so that no problems arise from it.

- Once the transcription is complete, the Mutare server will use the Callback URL to return the results to the UC system. The transcribed text will be the body of an email with the original voice message included as an audio attachment.
- 4. The combined message is delivered to the user's mailbox.

**Note:** There is no limit to the length of the message being transcribed unless set by the system administration. It is recommended that Avaya be informed if the enterprise consistently requires transcription of messages longer than 10 minutes as additional processing resources should be allocated. For example, a 60 second message may have 95% confidence score in the transcription, while a ten-minute message may drop significantly.

This is not a failing of the technology, as most voicemail systems do not record high fidelity or quality can be degraded with poor connection, voice quality, or background noise which can affect the transcription confidence.

Mutare Transcription Service

# 9

# **GOOGLE INTEGRATION**

# In This Chapter:

78	Guidelines
78	Introduction
79	Implementation Example
79	Requirements
80	Server Configuration
80	Install and configure OAuth2.0
98	User Guide
98	Message Synchronization
98	Contact & Calendar Synchronization
100	Manual Contact Importing
102	Reconfiguring Synchronization Components for Gmail
104	Restart Services

# Guidelines

Depending upon your site's requirements and software, you have the option to integrate Avaya Messaging with several email systems. None of these are required. Where appropriate, refer to the chapter that best suites your requirements.

CHAPTER	INTEGRATION	WHY YOU WANT IT
9	Google	Creates a secure connection through OAuth2 to your Gmail and Google Apps accounts.
10	Exchange using EWS	The simplest connection between your Exchange server and Avaya Messaging.
11	Exchange without EWS	A connection between Exchange and Avaya Messaging for legacy systems.
12	Exchange 2010	A connection between Exchange 2010 and Avaya Messaging.
13	Office 365 using Graph	Setup the latest high security integration procedures for maximum data integrity.
14	Office 365 using EWS	Quick connection between your O365 server and Avaya Messaging.

# Introduction

Avaya Messaging transforms the way you handle online communications. With Avaya Messaging you can access voice and IM communications, presence, click-to-call, location sharing and other communication tools inside the cloud applications you work in regularly like Gmail, Google Calendar, and other Google Apps.

Avaya Messaging also offers:

- **Message Integration**: Avaya Messaging can synchronize messages with Google Apps and Gmail servers, allowing users to access a single endpoint to manage all of their messages. All of the user's email, voice and fax messages can be accessed through a single application through this integration. Users can listen to their Google email messages through the phone and to their voice messages from the web by logging into their Google account. Message synch is not bidirectional, so messages received directly in Google cannot be listened to in Avaya Messaging.
- **Contact & Calendar Integration**: Avaya Messaging can synchronize contact entries and calendar events with your Google Apps. Any entry that the user creates within Google will be automatically updated in Avaya Messaging. The reverse is also true. Any entry that the user creates within Avaya Messaging will be automatically updated in Google.

**Note**: Repeating events in Google calendar, such as a weekly meeting, will only be synchronized with Avaya Messaging out to 7 days ahead. Previewing beyond 7 days in advance will not show the recurring event in the calendar.

By implementing these solutions, users gain access to many new features without substantially changing their work flow. This allows for an increase in productivity without extensive retraining.

Avaya Messaging can also forward incoming messages (voice, email, fax) to a Google Drive location making all of your communications available from anywhere in the world through the Internet.

**Note:** Integration with Google apps and other 3rd party applications and plug-ins may require additional licensing.

# Synchronization Directions

Data synchronization between the Avaya Messaging servers and Google apps only occurs in the following directions.

ITEM SYNCHING	FROM	ТО
Inbox	Avaya Messaging	Google
Contacts	Google	Avaya Messaging
contacts	Avaya Messaging	Google
Calendar	Google	Avaya Messaging
	Avaya Messaging	Google

## Implementation Example



## Requirements

Requirements	Details
License	
Software	Officelinx/IX Messaging version 9.1 - 10.8 Avaya Messaging version 11.0 and higher

# Server Configuration

Server configuration of Google Integration makes extensive use of CSE and CSE.PIM for message, contact and calendar synchronization. As long as the web server is able communicate properly with the worldwide web, users will be able to configure all of their gadgets and plug-ins on their own through the User Guide on page 98.

Client authentication and synchronization is handled using OAuth 2.0 and the Google API.

# Install and configure OAuth2.0

OAuth 2.0 provides secure user authentication and is required for Gmail to access the messaging servers.



## OAuth 2.0 Setup

- 1. Open a web browser and go to <a href="https://console.developers.google.com">https://console.developers.google.com</a>. Login using your Google credentials.

2. Click the Navigation menu \_\_\_\_\_. Select IAM & Admin > Manage Resources.

	Google Cloud Platform	IAM
♠	Home >	Identity & Organisation Policy troubleshooter
0	Recent >	Policy Analyser
Ŧ	Pins appear here ② >	Organisation Policies
۴.	Marketplace	Service Accounts Workload Identity Federation
50	Billing	Labels
RPI	APIs and services >	Tags Settings
Ť	Support >	Privacy & Security
0	IAM & Admin 🖡 🔸	Identity-Aware Proxy Roles
۲	Getting started	Audit Logs
f.	Compliance	Manage Resources
٢	Security >	Create a project Asset inventory NEW
	Anthos >	Essential contacts
		Groups

#### 3. Click CREATE PROJECT.

			٩	Search products and resources	
Manage resources	CREATE PROJECT	CREATE FOLDER	MOVE	DELETE	
Eiltor Eiltor					

**4.** Give the new project a name, then click **Create**.

NewProject	6
Project ID: NewProject-123456. It cannot be changed later. EDIT	
Organisation	
yourcompany.com	G
This project will be attached to esna.com.	
Location *	
yourcompany.com	BROWSE

 Open the navigation menu and select IAM & Admin > IAM. Ensure that the project you just created is chosen in the Select Project dropdown menu.

=	Google Cloud Platfo	orm 😫 NewProject 👻	Q Search products and resources	
θ	IAM & Admin	Select from AVAYA.COM 🔻	NEW PROJECT	
+2	IAM	Search projects and folders		
Θ	Identity & Organisation	٩		
عر	Policy troubleshooter	RECENT STARRED ALL		
R	Policy Analyser	Name	ID	
		V 👔 NewProject 😧	newproject-098765	
	Organisation Policies	💼 avaya.com 🚱	123456789012	
에	Service Accounts			Inheritar
	Workload Identity Federat			
	Labels			₿
	Tags		CANCEL OPEN	₿
~	1995			

6. In the left-hand panel, select **Service accounts**. Click **CREATE SERVICE ACCOUNT**.

=	Google Cloud Platform	NewProject
θ	IAM & Admin	Service accounts + CREATE SERVICE ACCOUNT
+ <u>0</u>	IAM	Service accounts for project 'NewProject'
Θ	Identity & Organisation	A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps or syster service accounts.
عر	Policy troubleshooter	Organisation policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants, k accounts entirely. Learn more about service account organisation policies.
B	Policy Analyser	accounts entirely. Learn more about service account organisation policies.
	Organisation Policies	Filter Enter property name or value
연	Service Accounts	Email Status Name 🛧 Description Key ID Key creation date Actions
	Workload Identity Federat	No rows to display

7. Give the account a name and a description, then click **CREATE AND CONTINUE**.

	Service account of Service account name ServName		
	Display name for this service	ce account	
	Service account ID servname	@newproject.iam.gserviceaccount.com	(
	Service account description Something helpful goes h		
	Describe what this service a	account will do	
	CREATE AND CONTINUE		
2	Grant this service	e account access to the project	

8. From the **Select a role** dropdown menu, choose **Currently used > Owner**. Click **Continue** then **Done**.



9. Click the name of the service account you just created.



10. Open the KEYS tab and click ADD KEY > Create new key. Enable the P12 option, and click CREATE.

← ServName	
DETAILS PERMISSIONS KEYS METRICS LOGS	
Keys  Service account keys could pose a security risk if compromised. We Workload Identity Federation. You can learnmore about the best we Add a new key pair or upload a public kay certificate from an existing key pair. Block service account key creation using organisation policies. Learn more about setting organisation policies for service accounts	
ADD KEY -	CANCEL CREATE
Create new key Key creation date Key expiry date Upload existing key	

**11.** The private key file will be created with a .p12 extension. Make note of where the file is saved (i.e. the **Downloads** folder).

Copy the file to both the **C:\UC\UCCSE** and **C:\UC\IMAPTSE** folders. (Change the path accordingly if your program is installed on a different drive.)

12. Record the Private key password (notasecret) and click CLOSE.

Private key saved to your computer	
▲ newproject-098765-123a456b7890.p12 allows access to your cloud resources, so store it securely.Lea	rn more
This is the password for the private key. It will not be shown again. You must present this password to use the private key. <u>Learn more</u> Private key password notasecret	Ē
	CLOSE

13. Open the Navigation Menu and select APIs and services. Click OAuth consent screen.



**14.** Enable **External**, then click **CREATE**.

	se how you want to configure and register your app, including your t users. You can only associate one app with your project.
uige	
User	Туре
	ternal 😧
	nly available to users within your organisation. You will not need to ubmit your app for verification. Learn more about user type
E	xternal 🕖
te	vailable to any test user with a Google Account. Your app will start in isting mode and will only be available to users you add to the list of test sers. Once your app is ready to push to production, you may need to erify your app. Learn more about user type

**15.** Enter an **App name** for this configuration. Provide a **User support email** address where users can find out more about their consent. When ready, click **SAVE AND CONTINUE**.

This shows in the consent screen, and you	helps end users know who you are and contact
App name *	
Avaya Messaging	
The name of the app asking for consent	
User support email *	
jsmith@yourcompany.com	
For users to contact you with questions	about their consent
App logo	BROWSI
	n the consent screen that will help users recognise G, PNG and BMP. Logos should be square and
	only allows apps using OAuth to use Authorise II be shown to your users on the consent scree
To protect you and your users, Google	
To protect you and your users, Google o Domains. The following information wi	
To protect you and your users, Google o Domains. The following information wi	II be shown to your users on the consent screen
To protect you and your users, Google Domains. The following information wi Application home page	II be shown to your users on the consent screen
To protect you and your users, Google Domains. The following information with Application home page Developer contact informate Email addresses *	II be shown to your users on the consent screen
To protect you and your users, Google Domains. The following information with Application home page Developer contact informate Email addresses *	II be shown to your users on the consent screen

**16.** From the Navigation menu, go to **IAM & admin > Service accounts**.



#### **17.** For the account you just created, click the **Actions** icon and choose **Manage Details**.

Service accounts for project 'NewP A service account represents a Google Cloud servi service accounts. Organisation policies can be used to secure servic accounts entirely. Learn more about service accounts	e accounts and block risky servic				eation of service	Manage details Manage permissions Manage keys View metrics
Filter Enter property name or value     Email	Status	Name 个	Description	Key ID	Actions	View logs
Servname@newproject.iam.gservio	Seaccount.com	ServName	Something helpful goes here.	123a456b7890cdef12a3b456c7	8d90e	Disable Delete

 Expand SHOW DOMAIN-WIDE DELEGATION and turn on Enable Google Workspace domain-wide delegation. Enter a product name that will appear on the consent screen. When ready, click Save.

Service account details		Service account details	
Name	and I	Name	
ServName	SAVE	ServName	
Description		Description	
Something helpful goes here.	SAVE	Something helpful goes here.	3
mail		Email	
servname@newproject.iam.gserviceaccount.com		servname@newproject.iam.gserviceaccount.com	
Unique ID		Unique ID	
87654321098765432101		987654321098765432101	
Service account status		Service account status	
Disabling your account allows you to preserve your policies without having to delete it.		Disabling your account allows you to preserve your policies without having to del	ete it.
CAccount currently active		Account currently active	
DISABLE SERVICE ACCOUNT		DISABLE SERVICE ACCOUNT	
		Enable Google Workspace domain-wide delegation	
SHOW DOMAIN-WIDE DELEGATION		Allows this service account to be authorised to access an users' data on a G	oogle
		Workspace domain without manual authorisation on their parts.Learn more	
		<ul> <li>To change domain-wide delegation, a product name for the OA screen must be configured. You can enter the product name be On some platforms, the email address is shown with the develoinformation. To select a different email address, configure the screen.</li> <li>CONFIGURE CONSENT SCREEN</li> </ul>	low. oper
		Product name for the consent screen	
		Avaya Messaging	
		Assign product name.	
		Email address	
		jsmith@yourcompany.com	
		Shown on consent screen for user support.	
		Client ID	
		987654321098765432101	
		SAVE	
		∧ HIDE DOMAIN-WIDE DELEGATION	

19. On this screen, record the Email address (for step 24) and the Unique ID (for step 28).

ServName	SAVE
Description Something helpful goes here.	SAVE
mail	
ervname@newproject.iam.gserviceaccount.com	
nique ID	
87654321098765432101	
ervice account status	
sabling your account allows you to preserve your policies without	having to delete it.
Account currently active	
DISABLE SERVICE ACCOUNT	
Allows this service account to be authorised to access all users Workspace domain without manual authorisation on their parts To change domain-wide delegation, a product name screen must be configured. You can enter the produ On some platforms, the email address is shown will information. To select a different email address, co	Learn more e for the OAuth consent uct name below. h the developer
screen.	
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen	
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen Avaya Messaging	
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen Avaya Messaging Assign product name. Email address	
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen Avaya Messaging Assign product name. Email address	Đ
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen Avaya Messaging Assign product name. Email address jsmith@yourcompany.com	Q
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen Avaya Messaging Assign product name. Email address Email address Jsmith@yourcompany.com Shown on consent screen for user support.	0
screen. CONFIGURE CONSENT SCREEN Product name for the consent screen Avaya Messaging Assign product name. Email address Jsmith@yourcompany.com Shown on consent screen for user support. Client ID	0
screen.	-

**Hint**: You can drag the mouse over the Unique ID value or the Email address, copy and paste the string into Notepad. This helps to prevent copy errors.

**20.** From the Navigation — menu, open **APIs & Services**, and select **Library**.



21. Under the Google Workspace category, select Admin SDK API. You may need to click View all to see this item. Click Enable.



- **22.** Once enabled, return to the Google Workspace page (**APIs & Services > Library**). Repeat to enable all of the following APIs:
  - Google Calendar API
  - Google Drive API
  - Gmail API



23. Return to the Library, selecting Social this time, then enable Contacts API.



**Hint**: While these settings will work for most sites, not all sites will want to open all of these channels if they are not required. See **Minimum Required Scopes and APIs by Product** for details.

**24.** Rename both copies of the P12 file from step 11 to match the email address recorded in step 19. Include the **domain** and the **.com** extension.

🚯 l 💽 🚯 = l	Downloads	Ŀ	- 🗆 🗙
File Home SI	hare View		v 😲
ເ 🔄 👻 ↑ 🚺	This PC → Local Disk (C:) → UC → UCCSE	Search Downloads	Q
☆ Favorites	Name	Date modified	Туре
💻 Desktop 🕕 Downloads	servname@newproject.iam.gserviceaccount.com.p12	27/04/2019 9:43 AM	Personal Inform
2 items			=

**Caution**: **Do Not change** the extension of the file. Always ensure it retains the P12 extension.

# Domain Setup

**25.** Go to <u>admin.google.com</u> and login to Google as an administrator. In the left-hand panel, open **Security > API controls**.



**26.** Click MANAGE DOMAIN-WIDE DELEGATION.

API controls	App access of the app access o	on to your Google services. Ensure that users	s carrigion accesss only to apps that your
Jse these controls to enable or estrict access to Google Vorkspace APIs for customer- wined and third-party	Overview	© nextricted Google services 15 unrestricted Google services	1 third party apps configured
pplications and service accounts. Reduce the risk ssociated with third-party access to Google Workspace (PIs by limiting access to only rusted apps.	Sattings	MANAGE GOOGLE SERVICES Show this message if a user tries to Gaugie services	MERICALE THERE PARTY APP ACCESS
			CANCEL SAVE
	Google services li	gister their web applications and other API cl	lients with Google to enable access to data in clients to access your user data without your

#### 27. Click Add new.



**28.** In the space provided, enter the **Unique ID** from step 19.

98765432101 existing client ID @
s (comma-delimited)
s (comma-delimited)
a (comma deminica)

**29.** In the space for **OAuth scopes**, enter the following string:

https://docs.google.com/feeds/,https://mail.google.com/,https://
www.google.com/m8/feeds/,https://www.googleapis.com/auth/calendar

Client ID				
	1098765432	101		
Overwr	te existing clier	t ID 🔞		
an a	(comma-delimite	<sup>d)</sup> /feeds/,https://	/mail.goog	gle.c
https://doc	s.google.com			

**Hint**: Copy and paste the string above into the field. This will greatly reduce the chance of misspelling the entry and breaking the configuration.

**Important**: While these settings will work for most sites, not all sites will want to open all of these channels if not required. See **Minimum Required Scopes and APIs by Product** for details.

**30.** When ready, click **Authorize**.

**31.** Verify that the selected scopes were successfully installed.

ame Client ID Scop	pes	
vaya Me 987654321 htt	ps://docs.google.com/feeds/ https://mail.google.com/ 2 More View details	Edit Delet
		1
	× Avaya Messaging	
	Client ID	
	987654321098765432101	
	Scopes	
	https://docs.google.com/feeds/ https://mail.google.com/	
	https://www.google.com/m8/feeds/	

The scopes are:

docs.google.com/feeds mail.google.com www.google.com/m8/feeds www.googleapis.com/auth/calendar

### OAuth2 and Avaya Messaging High Availability (HA)

When using OAuth2 in an HA environment, the private key must be copied to both of these locations on the **Consolidated** server (C:\UC\IMAPTSE and C:\UC\UCCSE).

## Minimum Required Scopes and APIs by Product

Enabling all of the listed scopes and APIs will work for most situations. However, not all administrators will want to open all of these channels if it is not necessary. This table shows the minimum required scopes and APIs for each product.

		AVAYA CLOUD APPLICATION LINK	AVAYA WORKSPACES (CHROME EXTENSION)	AVAYA COMMUNICATOR FOR WEB
SCOPES * (see below)	auth/admin	•	•	•
	auth/calendar			
	auth/drive	•		
	auth/drive.file	•		
	calendar/feeds	•	٠	•
	calendar/resource			
	m8/feeds	•	•	•
	mail.google.com	•		
APIs	Admin SDK	•	•	•
	Contacts API	•	•	•
	Google Calendar API	•	•	•
	Google Drive API	•		
	GMail API	•		

\* The full paths for all listed scopes are displayed here.

auth/admin - https://www.googleapis.com/auth/admin.directory.user.readonly
auth/calendar - https://www.googleapis.com/auth/calendar
auth/drive - https://www.googleapis.com/auth/drive
auth/drive.file - https://www.googleapis.com/auth/drive.file
calendar/feeds - https://www.google.com/calendar/feeds/
calendar/resource - https://apps-apis.google.com/a/feeds/calendar/resource/
m8/feeds - https://www.google.com/m8/feeds/
mail.google.com - https://mail.google.com/

## Configuring Avaya Messaging for use with OAuth 2.0

Once OAuth 2.0 has been configured, Avaya Messaging must be setup to use it. The following procedure is conducted on the Avaya Messaging Server.



33. Right-click on TSE IMAP Server and select New > TSE IMAP Server.

IMAP Server Name: Enter Google in this space. IMAP Server Address: Enter imap.gmail.com. IMAP Server Port: Set this value to 993. Voice Format: Leave this field unchanged.

#### Click **OK** when ready.

34. Click on Feature Group, and double-click a group to modify in the right-hand pane.

♦ ♦ 2 4 4 0 × 0 € 1			
Avaya Messaging     Avaya Messaging     Avaya Messaging     Avaya Messaging     Avaya Messaging     Difference     Difference     Difference     Difference     Difference     Reature Group     Reature	Group No. 23 1 24 2 24 3 25 4 25 5 24 6 25 7 25 8 26 9 26 9 26 9 26 10 26 10 26 11 27 12	Group Name Default Users Phantom Users Share Extension Guest User Queuing Users Imap TSE Maximum Imap TSE Medium Imap TSE Minimum Integrated Users Standard Users Gmail All ENS Staff	

) ×	
IMAP Server Name	Google
IMAP Server Addres	s imap.gmail.com
IMAP Server Port	993
Voice Format	WAV MS GSM 6.10 -

**35.** Open the **Synchronization Options** tab. Enter values in the following fields:

**IMAP Account**: Enter your company domain, followed by a forward slash then the **Email** address from step 19. For example, **yourdomain.com/avaya-secure-connection@avayacloud...** 

**Password** and **Confirm Password**: Type in the **Private Key password** for the **Client ID** received in step 12. **IMAP Server**: From the dropdown menu, select **Google**.

👬 Feature Group	? 💌		
Feature Group			
	Email	Status	Name 个
General   Storage Options   Notification Options   I Mailbox Options   Message Options Synchronization Options	e servname@newproject. iam.gserviceaccount.com	0	ServName
1: Default Users	New Public/Private key p	pair generated	
IMAP Account Calendar Mode None Account Password Max Connections 3 Confirm Password Max No Qf Logons 3 IMAP Server Send URL AT	The private key has been down only copy of this key. You are responsible for storing     Your private key's password is	nloaded to your m	nachine and serves as the
Synchronization Settings Sync priority Minimum	notasecret		
Override Local Directory Images With Remote directory images, except	k non-existi 💌		

**36.** Synchronization Settings: Enable all of the items that you want to have synchronized between servers. Calendar Mode: If calendar synchronization is required, select Synch with Mail Server Calendar from the dropdown list.

👬 Feature Group	? 💌
Feature Group	
⊕ ╳ 🖬 😰 📧 ∢ ▸ א	
	otification Options   Iransfer Options   Transfer Types   Synchronization Options   <u>D</u> ID Properties   Speech Options
🎁 1: Default Users	•
IMAP Account	Calendar Mode None  None
Account Password	Max Connections Sync with Mail Server Calendar
Confirm Password	Max No Of Logons
IMAP Server	▼ Send URL All ▼
- Synchronization Settings	Sync priority
Call History	Msgs per Sync Cycle 10
Custom folders	TSE Location
Over-ride Local Directory Images	s With Remote directory images, except non-existi 💌

**37.** Click **Save** 🔲 to preserve the changes.

**38.** Go to the **Mailbox Options** tab and enable **Change Location** to allow an event in your mail server calendar to automatically change the UC location of the user. If this feature is not required, leave it disabled.

e Group	
roup	
	ation Options   <u>I</u> ransfer Options   T <u>r</u> ans chronization Options   <u>D</u> ID Properties   Spee
Thereadle Share I all	
1: Default Users	
I. Doludit ovoro	
-Settings available for the user for ma	illus and a value
Change Location	Record All Incoming Calls
<ul> <li>Distribution Lists</li> </ul>	Record Conversation
Modify Public Distribution List	
Multiingual	View Geo Location Data
Settings activated by the Administra	tor
🔲 Allow Live Reply-Call Back	🥅 LanTalk
Allow Multiple TUI Access	Press Star to Login to Another Mailbox
Directory	F Shared Extension
Do not check Passwords	☐ Web Access
Ask for Password (Inband Login	) 🔽 WebClient Messaging
✓ Forced Tutorial	Disallow Embedded Login
	✓ Web Tutorial
🔲 Guest Mailbox	

**Note**: Repeating events in Google calendar, such as a weekly meeting, will only be synchronized with Avaya Messaging out to 7 days ahead. Previewing beyond 7 days in advance will not show the recurring event in the Avaya Messaging calendar.

- **39.** Click **Save** 🔛 to preserve the changes.
- 40. In AM Admin, open Mailbox Structure and double-click a client to modify.

(⇒ ⇒) 21   11   02   12   12				- 8 ×
Avaya Messaging Avaya Messaging Corporate-PBX FRB Music Fature Group Remote Site Routing Table Voice Menu Customize TUI Customize TUI Storage Fax Jobs Fax	Name Domain Controllers Sales Burroughs E.R. Clayton John Glanes David D'Groats John Perry Abner Derry Abner All ENS Staff	Number 1111 1912 2345 3811 4321 6122 911 9876	Feature Group 3:Share Extension 1:Default Users 2:Phantom Users 2:Phantom Users 1:Default Users 1:2:All ENS Staff 1:Default Users	Persor
> Image: TSE IMAP Server         > Image: TSE IMAP Server         > Image: TSE Im	< <u> </u>	Done		

41. Open the Synchronization Options tab. Set Storage Mode to Synchronization.

		Iransfer Options   <u>N</u> cations   <u>R</u> e-route C	1essage Options   <u>N</u> otifi CTIOptions   <u>S</u> peech O
2345:	David Innes	. –	
🔛 🔽 Use Featu	re Group settings for IMAP	IMAP Locked	
User Name	dinnes@gmail.com	IMAP Language	
User Passwor	d	Storage Mode	Synchronization 👻
Confirm Passw	vord	Voice Format	-
IMAP Server		] E-mail	davidi@erbmusic.com
- Last Synchr	onization Time	1	
Inbox		🔲 🔲 Update Me	ssage Status From
Contacts			
Calendar 🗌		1	

- 42. Enable the Use Feature Group settings for IMAP checkbox. For User Name, enter the Gmail address for this client.
  - For example, davidi@erbmusic.com janep@gmail.com name@yourcompany.com

Note: Desktop Capabilities must be set to Advanced for these options to be configured.

- **43.** Click **Save** 🔚 to preserve the changes.
- **44.** Your Avaya Messaging mailbox will now synchronize contacts and/ or calendar information with the Gmail account.

**Note:** To make sure that your mailboxes are associated with the right Feature Group check your Mailbox configuration window under the General tab.

- **45.** Repeat steps 40 through 43 for each client that requires OAuth 2.0 synchronization.
- **46.** On the Voice Server, open the **UC/UCCSE** folder.

ilbox				
4 🕖 🗙 I	🖬 😰 H 4 🕨 🕨			
	Options   <u>L</u> ocations   <u>R</u> e-rou ced   Mailbox Options   <u>I</u> rans			
9876	: John Carter			
Mailbox Numbe	r 9876			
Last Name	Carter	Feature Group	1: Default Users	•
First Name	John	Organizational Unit	Ĵ.	-
Gender	Male	- Account Code		
Current Del	fault Phone Address	Voicemail Passwo Password	rd	
9876		Confirm Password		
Application U	ser			
User Name	jcarter@erbmusic.com	Password Confirm Password Password		
1				

**47.** Edit the **CSE.exe.config** file using any text editor (e.g. Notepad).

Locate the tag **UseGMailAPI** and set its value to **True**.

CSE.exe.config - Notepad	- 🗆 🗙
<u>Eile Edit Format View Help</u>	
<setting name="MessagesFilterLastXInFolder" serializeas="String"> <value>500</value> </setting>	^
<setting name="MessagesFilterLastXDays" serializeas="String"> <value>-1</value> </setting>	
<setting name="MessagesFilterToleeOnly" serializeas="String"> <value>True</value></setting>	
<setting name="TcpConnectionsPerSecond" serializeas="String"> <value>40</value></setting>	
<setting name="TcpStreamProcessingThreads" serializeas="String"> <value>8</value></setting>	
<pre>//setting&gt;</pre>	
<setting name="UseGMailAPI" serializeas="String"> <value>True</value></setting>	
<td></td>	
<startup></startup>	
<supportedruntime sku=".NETFramework,Version=v4.0" vertion="v4.0"></supportedruntime>	

Go to **File > Save** to complete the change.

**48.** Stop and Start the **UC Content Synchronization Engine** and the **UC CSE PIM Synchronization Engine** services on the Voice Server, or restart the server.

**Caution**: If this is a High Availability system, restart this services **only on the Consolidated Server**.

The setup is complete.

# User Guide

This user guide helps you configure your message, contact and calendar synchronization between Avaya Messaging and Google Apps. While the installation and configuration related to these features are straight forward, please backup important data before configuring any synchronization.

## Message Synchronization

In order to consolidate all messages (e.g. voice, text, fax, etc.) in a single email account, synchronize your Gmail or Google Apps email with the UC server's Web Access mailbox. If your organization is using OAuth2 authorization, you will not have to enter any details beyond the email address.

**Note**: If the synchronization does not work even after entering the correct credentials, your server may not be configured properly for this feature. Please contact your system administrator.

**Warning**: If you have a custom filters configured on your Google account, it will not apply to messages that are synchronized from the voice server (e.g. voicemail, fax, etc.).

## Contact & Calendar Synchronization

When your administrator has enabled calendar and contact synchronization for you, everything will be occurring on the server side in the background so you do not have to configure anything on your own. You can use your mail server as you normally would and your calendar and/or contact entries will be populated on your Avaya Messaging mailbox as well. The following are typical behaviors that the synchronization will follow so that you can understand exactly how your calendar and contact entries are being handled by the servers.

4	SAVE	Discard		
Meeting				
4/4/2012	14:30	to 15:30	4/4/2012	Time zone
🗖 All day 🔲	Repeat			_

**Note**: When creating a calendar event from Google, you must ensure that the reminder time it set to **1 minute or greater**. Setting this value to 0 will cause synchronization issues. By default, the reminder time is 10 minutes.

**Note**: All your calendar events and contacts from your current mail server will be populated into your Avaya Messaging mailbox right after your administrator finishes the configuration.

Note: You should backup your calendar events and contacts periodically as a precaution.

**Note**: Repeating events in Google calendar, such as a weekly meeting, will only be synchronized with Avaya Messaging out to 7 days ahead. Previewing beyond 7 days in advance will not show the recurring event in Google's calendar.

## Contact Sync

When you create a contact entry through Gmail, the same entry will be synchronized into your Avaya Messaging contacts.

	John Clayton Sales , ERB Music My Contacts	Connected profiles
Work Work Mobile Phone	jclayton@erbmusic.com Add email 555-1212	Wife - Jane
Work	30 East Beaver Creek Drive Richmond Hill, Ont. Add address	

The contact information is automatically sent to the Avaya Messaging contact list. 

 Image: Contacts
 Contacts

 Image: Contacts
 Image: Contacts

 Image: Contact
 Image: Contacts

 Image: Contact
 Image: Contact

 Image: Contact
 <td

**Warning**: Keep in mind that deletions are also synchronized. If you delete an entry from Gmail, it will be deleted from Avaya Messaging, and vice versa.

## Calendar Sync

When you create a calendar entry from Google Calendar, the same entry will appear in Avaya Messaging. The time and date of the meeting is automatically sent to the Avaya Messaging mailbox. By default, the location for these events is marked as **Meeting**, but this can be changed through the Web Access **Calendar** icon.



## Manual Contact Importing

If synchronization is not an option for your site, you may manually copy contacts from one application to the other. Long lists of contacts can be difficult to transfer. To make this process easier, Web Access supports importing CSV (comma separated value) files that can be exported from Google Apps.

- 1. To export your contacts from Google Apps, log into your Google email account and open your Contacts list.
- 2. Click on More, then Export...

This opens the Export contacts window.



3. You can choose to export selected contact, specific groups of contacts (e.g. My Contacts), or all contacts.

#### Select All contacts.

4. For export format, choose Outlook CSV.

Click on **Export** when ready.

- When prompted, specify the location where the file will be saved. 5.
- 6. With the CSV file ready, open Web Access and click Contacts.

Click the **Import** button.

1.	Selected cont The group M All contacts (i Which export fr Google CSV f Outlook CSV	do you want to export? acts (0) y Contacts (21) 37)	r another application)
Contac Add Co		ort Speech Enable Contacts	° c 💼 ?
D	First Name-	Last Name	Company

- **7.** Click **Choose File** and select the CSV file exported from Google.
- 8. Click **Next** to proceed after the file has been selected.

» Import Contacts	
← ?	
Select the file co	ontaining the contacts you want to import:
Choose File No file	chosen
NOTE: The Co	ntact Importer accepts only files with comma-delimited fields.
Next	

Match the fields from the CSV file to the fields on the Web Access contact list. You will only have to match the information you require. Leave all the unnecessary fields as **(disregard this field)**.

Click **Import** when all of the required fields have been matched. The contacts will be imported from the CSV file into Web Access.

» Import Contacts		
← ?		
The first record containing		prresponding contact field:
Field1:John	First Name	•
Field2:Carter	Last Name	
Field3:123 Main Street	Business:Street	
Field4:Richmond Hill	Business:City	•
Field5:Ontario	Business:State/Province	•
Field6:9057079700	Business:Phone	•
[import]	(disregard this field) Title Suffix First Name Download Last Name Job Title Company Name Business: Phone Business: Phone Business: Fax Business: Fax Business: Mobile	

# Reconfiguring Synchronization Components for Gmail

Once the installation has been completed, verify that the system configuration files are set to use GMAIL. This should be done on all servers running CSE: The voice server in a single server environment, the Consolidated server under HA, and all remote CSE servers operating.

**Note**: The **CSE.exe.config** file is used with message synchronization, while the **CSE.PIM.exe.config** is used for contact and calendar synchronization.

- UC - 🗆 X 🗋 🚺 = 0 Home Share View v € 🕘 ▾ ↑ 🌗 ► This PC ► Local Disk (C:) ► UC ► ✓ C Search UC Q . Date modified Name Туре Size 🚖 Faurrites Licarean E Desktop Elle folder 2/12/2019 0:23 224 · Countingets Logs 2/15/2016 5:00 AM File Salider I Recent places Messages 11/22/2017 4/05 PMI File fulder 2/14/2019 8-46.484 Packages File failder This PC - Frangts 6/25/2010 1140 AM File fallder 🛓 Desittag 2/12/2019-8-41 AM 1 farmettalide File Scitte Descurrents Taports 5/5/2018 2:15 AM File folde 11/22/2017 A12 PM · Courrisonth Tesources Tile Autor Massie a socs 2/12/2019 546 484 File field E Pietharms Settlenice 2/12/2019 8-41 AM Madimus: Facanda 2/12/2019 B-FT AM File No. 🏭 Local Disk (C:) 1 SpCanfig 2/12/2019 8-46 AM File faild I SAME 2/12/2019 6-41 AM Title Falls SGLSorpt 2/12/2019 8-45 AM Title Sold L SING SYLDOTTE 6-48 AM File folds 100 2/12/2016 8-48 444 The Asian Tarry 6/25/2018 NOT PM Tile Spille UC-invariante 2012/2019 Balt AM Tile Talde 1 UCBANING MAK HE-STOCKER, AM File Scittle (CB) JUCCSE 2/12/2019 8:46 AM File folder 119 items 1 item selecte
- 1. Open the UC/UCCSE folder on the program installation drive.

2. Within the folder, open the CSE.exe.config file in a text editor such as NotePad.

			1		
€ (⊜ ▼ ↑ 📕 • :	This PC  Local Disk (C:)  UC  UCCSE	× ¢	Search UCCSE		Q
🚖 Faccrites	Name	Date modified	Туре	Size	
E Clesithep	S CSE Base dll	2/6/2019-6:34 PM	Application extens	28.43	
A Devenionds	S CECEGII	2/6/0019-6/34 PM	Application enters	13.48	
1 Recent places	Cit.080 ave	2/6/2019 6:34 PM	Application	13.828	
	CSE.080 ava.comfig	12/17/2814 3:17 PM	CONFIG FIRE	3.83	
This PC	S CSE EAPLAN	2/6/2019-6-34 PM	Application edens	13.13	
Clesiftrep	CIE.EMSL40	2/6/2019/6/34 PM	Application extens	121 825	
I Decumento	E Cit.au	2/6/2019 6:34 PM	Application	13.43	
a Coverileade	CSE.exe.config	1/17/2018 12:55 PM	CONFIG File	9 KB	
🙀 Millansier	📧 टाइ.इस्मे.मा	2/6/2019/634 PM	Application estars	105.43	
🚡 Pietharms	S CSEIMAR AN	2/6/2019/6-34 PM	Application enters	154 KB	
Madiesen:	CSELEMP AN	2/6/2019/6:34 PM	Application esters	11 828	
🏭 Local Disk (C:)	CSELPSS all	2/9/2019 6:34 PM	Application enters	11 88	
	S CIELOG #	2/6/2019-6-34 PM	Application extens	17.68	
	CSE MARPLAN	205/2019-634 PM	Application extens	11.63	
	CIENET all	2/6/2019-6-34 PM	Application ediens	10 83	
	Citt. Phil. ave	2/6/2019/4/34 PM	Application	14.825	
	CSE.Phil.aua.config	12/5/2817 11/13 AM	CONFIG File	0.10	
	CSE.Ph/P302702038.ava.comfig	12/5/2017 11:13 AM	CONFIG File	0.40	
	CSE.PhM1806251240.ave.comfig	10/21/2016 6:30 AM	CONVERS File	0.420	
	S CSESWCall	2/5/2019-634 PM	Application extens	31 KB	
	S CSESHIG AN	2/12/2519-6-34 FMA	Aggilication extens	449.63	

3. Scroll down to find the following lines (UseGMailAPI):

```
<setting name="UseGMailAPI" serializeAs="String">
<value>True</value>
</setting>
```



Verify that the **Value** is set to **True**. If the value is not True, change it and save the file.

$\leftarrow \rightarrow \land \uparrow \blacksquare$	This PC + Local Disk (C:) + UC + UCCSE	¥ ¢	; Search UCCSE	
🚖 Facoritas	Name	Date modified	Туре	Size
E Desitterp	Clif.Base.dll	2015-08-20-8-45 AM	Application where	61.62
👗 Cassonilanda	CSE.CFG.40	2019-08-20 8-45 AM	Application adams	13.43
Tecerit places	C12.080.4x4	2016-08-20 (6-46 AM	Application	13 83
	CSE.080.eee.config	3814-12-17 12-17	CONFIG File	3.43
This PC	CSE.EAPLAN	3019-08-30-845 AM	Application eiters	35.43
a Desittagi	(ii) CSEEMSLAN	2010-00-20-045 AM	Application enters	104.63
Excuments	E CE ave	2019-00-20 8-46 AM	Application	15.88
🐞 Downlinedic	CSE.ave.config	2016-05-22 2-32 PM	CONFIG File	7.82
📦 Milasic	🗄 CSEGAPLAN	2019-08-20 8-45 AM	Application enters	116.43
JE Pictures	CSEINNAP 48	2016-08-20 8-45 AM	Application extens	167.83
ifedimen:	CSELDAP 48	2019-08-20 645 AM	Application extens	12 83
🚢 Local Disk (C:)	CSELPSS-AN	2019-08-20-8-45 AM	Application estern	12 83
	CSELOG AN	20195-06-20-845 AM	Application extens	17.63
	CSEMAPLAR	2010-08-20-845 AM	Application editors	12.43
	CSENET AN	2019-08-20 845 AM	Application edens	62.43
	CEE PBM asso	2018-08-20 8-46 AM	Application	14.82
	CSE.PIM.exe.config	2019-05-21 4:33 PM	CONFIG File	5 KE
	CSESUC-40	MA (h-6 01-40-4010)	Application enters	20.48
	<ul> <li>CSE Sinuc all</li> </ul>	2019-08-20-646 AM	Application enters	454 83
	CEMBER 40	2016-08-30-8-45 AM	Application adams	11/2 88

4. Within the UCCSE folder, open the **CSE.PIM.exe.config** file in a text editor such as NotePad.

5. Scroll down to find the following lines (UseGMailAPI):

```
<setting name="UseGMailAPI" serializeAs="String">
<value>True</value>
</setting>
```

Verify that the **Value** is set to **True**. If the value is not True, change it and save the file.

## **Restart Services**

Before continuing, stop and restart the following services:

- UC Content Synchronization Engine
- UC CSE PIM Synchronization Engine

This will force Avaya Messaging to immediately update its systems. Otherwise, there will be a delay before the changes become active.

# 10

# EXCHANGE 2019/2016/2013 INTEGRATION: USING EWS

# In This Chapter:

- 106 Guidelines
- 107 Introduction
- 107 Visual Guide
- 107 Requirements
- 108 Server Configuration
- 108 Exchange Superuser Creation/Configuration
- 112 AM Admin Configuration
- 118 Contact and Calendar Sync
- 121 User Guide
- 121 Calendar Synchronization
- 121 Contact Synchronization
- 122 MS Exchange Performance Considerations

# Guidelines

Depending upon your site's requirements and software, you have the option to integrate Avaya Messaging with several email systems. None of these are required. Where appropriate, refer to the chapter that best suites your requirements.

CHAPTER	INTEGRATION	WHY YOU WANT IT
9	Google	Creates a secure connection through OAuth2 to your Gmail and Google Apps accounts.
10	Exchange using EWS	The simplest connection between your Exchange server and Avaya Messaging.
11	Exchange without EWS	A connection between Exchange and Avaya Messaging for legacy systems.
12	Exchange 2010	A connection between Exchange 2010 and Avaya Messaging.
13	Office 365 using Graph	Setup the latest high security integration procedures for maximum data integrity.
14	Office 365 using EWS	Quick connection between your O365 server and Avaya Messaging.

# Introduction

Avaya Messaging and an Exchange server are able to integrate through the IMAPCSE and Exchange Web Services (EWS), providing a truly unified messaging experience. Once the configuration is complete the servers communicate and synchronize all data among themselves, eliminating the need for you to constantly manage multiple locations.

Each user's Exchange credentials are stored within the Avaya Messaging mailbox, allowing the server to synchronize messages to and from the Exchange server. End users can manage their credentials through Web Access. Administrators may also manage credentials from the admin console.

The use of EWS for Exchange 2019 and 2016 is required since IMAP is no longer supported. When using Exchange 2013, the use of EWS is optional and follows the same procedures. This chapter may be applied to both versions.

## Visual Guide



When a voice server integrates with an email server, the data between the two is synchronized, allowing for accurate information regardless of the point of access. Receiving messages, and any actions performed by the users is synchronized between the two servers constantly, ensuring that your content is always up-to-date.

Administrators can also customize what will be synchronized. A full synch includes contact and calendar entries along with messages. If the system has telephone and message light integration, MWI (message waiting lights) will also remain accurate since the status of messages are synchronized between the servers.

## Requirements

Requirements	Details
License	IMAPCSE License
Software	Avaya Messaging version 10.5 or higher

# Server Configuration

Server configuration requires the creation of a superuser account from the active directory that has the necessary permissions within the Exchange console. Once the account has been made, it must be added to the voice server configuration, and the channel of communication between the two servers must be established.

Your Exchange server must also have Exchange Web Services (EWS) enabled in order for Avaya Messaging to communicate properly.

You must have a corporate Exchange server, either locally on virtually, configured and operating before proceeding.

**Caution**: Exchange 2019 and 2016 do not support non-EWS connections. Only EWS can be used. Exchange 2013 supports both EWS and IMAP.

# Exchange Superuser Creation/Configuration

Once the superuser account is ready on Active Directory, create a mailbox for that user in the Exchange environment.

1. As an administrator, create a new user on your network using Active Directory. Configure any Organizational Units or company policies as required. This user **MUST** have **Password never expires** enabled.

Member Of		Dial-in		ironment	Sessions
Remote contro	ol		Desktop Se	rvices Profile	COM+
General Add	ress	Account	Profile	Telephones	Organization
User logon name	e:				
ExchConnector			@youro	ompany.com	~
User logon name	e (pre-\	Windows 200	0):		
YOURCOMPAN	M		ExchCo	nnector	~
Unlock acco	unt				
Account options	8:	e password a	t peyt logo	n.	~
Account options	chang	e password a		n	^
Account options	chang	nge passwor		n	^
Account options	chang not cha never	nge passwor			^ 
Account options	chang not cha never sword u	nge passwor expires			× ×
Account options	chang not cha never sword u	nge passwor expires			×
Account options	chang not cha never sword u es	nge passwor expires using reversib	e encryptic	n	~
Account options	chang not cha never sword u es	nge passwor expires	e encryptic		× ×
Account options	chang not cha never sword u es	nge passwor expires using reversib	e encryptic	n	~
Open the Exchange admin center in a browser (e.g. https://IPaddressOfExchangeServer/ecp). Login with the Exchange admin credentials. Go to the recipients menu at the mailboxes tab. Click New . Select User mailbox.

recipients	mailboxes group	ps resources (	contacts shared migrati
permissions	<b>V</b>		
compliance management	+/ 亩 ዖ C		
organization	User mailbox	MAILBOX TYPE	EMAIL ADDRESS
organizatori	Linked mailbox	ther	Nurlinet: Inc. 17 Store Revenues inc.
protection	Stars Caller	(dawr	Nacional States (1993)
mail flow	mattern (Tancia)	10 mer	Service (1997) Berger Berger in
mail flow	Mahere Gaercia;	(Lines)	Part MARCONT CONTRACTOR AND A STREET AND A ST
mobile	Autors (Hiter	(Lines)	Burlder (1992) Brits Parsanon has
mobile	Autors (Dise)	(Line)	Rendered in the second second second
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hybrid	Briattania Califer	10 August	Rentered ( 1997) and Brancherington ( base

**3.** Enable **Existing user**. Click **browse** and select the user created in step 1. Provide a human friendly **Alias** to refer to this user.

			NAME	ORGANIZATIONAL UNIT
Alias:			-Halfmann and and an	pair (Theorem Vision Pro-
IXMWizard			invest the	perficted/families Accessible
			ExchConnector	performance/Integration
Existing user			Hard Const	perfitment/Service Accounts
ExchConnector X browse			(Hap-HELDERGER)	part Film of Chapter Filmeric Films
			1004-00121000012	gam (Criminal) (Transpare Primaroly) (United
New user	· · · ·		Phase PERSON N	gen (frie als (frigge House), frie
First name:	••		1124-1012-0010-01	gen (friendel († 1455) Herendel († 1474)
Initials:	•		/ha-#12100071	gan (Throad) (Thagan Throands) (Josh
		· .	(Hage PECCE UNITED	per Phinadel (Degree Personal (Deal)
Last name:			Hard Constant	part (Consult) (Desparationaries) (Deal)
		••	Nu-MICHINE	pare ("Anni ade")" pagane (Arnaeris) (", Anni
*Display name:		· · · ·	Bac (02100110)	yaar Filosoo da Titaayaa Himaxoo Filosoo gaar Filosoo da Titaayaa Himaxoo Filosoo
*Name:				per l'inche l'Argent internet i l'inde
Name.				
Organizational unit:				ok can
browse	2		•	
*User logon name:				
@ perf.local	Ŧ			
*New password:				
*Confirm password:				
Require password change on next logon				
More options				

When ready, click **Save**.

4. In the left-hand panel, select **permissions**. Under the **admin roles** tab, click **New** +.



5. Give the Role a name (a Description is optional). Beside **Roles**, click Add +.

- I	new role group	
	*Name: O365Permissions	
	Description:	
	Write scope:	
	Default Roles:	T
-	NAME	
	Members:	
	NAME	DISPLAY NAME
L	Sa	ve Cancel

6. Select ApplicationImpersonation and click add ->. Click OK.

	DISPLAY NAME	*	
	Address Lists	-	ApplicationImpersonation
	ApplicationImpersonation		Applicationimpersonation
	ArchiveApplication		This role enables applications to impersonate
	Audit Logs		users in an organization in order to perform tasks on behalf of the user.
	Compliance Admin		
	Data Loss Prevention		Default recipient scope
	Distribution Groups		Organization
	E-Mail Address Policies		
	Federated Sharing		Default configuration scope
	Information Rights Management		None
	Journaling		
	Legal Hold	*	
	1 selected of 55 total		
	add -> ApplicationImpersonation[remove];		
1			
			OK Cancel

7. Below Members, click Add +. Locate the account you just created, select it and click add ->. Click OK.



8. Returning to the **new role group** pane, click **Save**.

new role group		
*Name: 0365Permissions		
Description:		
Write scope: Default Roles:		¥
+ -		*
ApplicationImpers	onation	
Members:		
Hembers:		
NAME	DISPLAY NAME	*
ExchConnector	IXMWizard	
ExchConnector	IXMWizard	
ExchConnector	IXMWizard	

Confirm that the new role appears in the list.

Exchange admin cer	nter	
dashboard	admin roles user roles Outlook Web App policies	
recipients		
permissions	+ / 亩 閏 2 3	
compliance management	NAME	*
organization	Compliance Warsagement Review Recomment	
protection	O365Permissions	
mail flow	Bacignet Wanagement	

The new account has been created.

# AM Admin Configuration

For Avaya Messaging and Exchange to be able to synchronize data, Avaya Messaging must be able to communicate with the Exchange server using the correct credentials. The superuser account streamlines this process while still enforcing individual password security protocols on each mailbox.

#### Adding the CSE Endpoint for EWS

In order for the Avaya Messaging server to recognize the Exchange server, you must configure a CSE Endpoint entry in the Avaya Messaging Admin > TSE IMAP Server section to use the EWS server. A entry should already be present in Avaya Messaging Admin based upon the choice of email client you made during installation.

Note: TSE is the previous name for CSE services.

Double-click the server, or right-click and create a new one.

📀 Eile <u>A</u> ction <u>V</u> iew <u>W</u> indow <u>H</u> el	P		-
🗢 🔿 🙎 🧕 👔			
Avaya Messaging Avaya IP Office Malbox Templates TSE IMAP Server Second Server Market Server Market Server Market Server Market Server Market Server Market Server Market Server Market Server	Parameters MAP Server Name MAP Server Address MAP Server Port Voice Format	Value Data Office/Mail365 ews:111.222.222.111 993 MPEG-1 Audio Layer 3 (MP3)	

**IMAP Server Name**: This name is for your reference and does impact system performance.

**IMAP Server Address**: Enter the IP address of the <u>EWS server</u>. The address MUST be prefixed with **ews**: (all lower case, with a colon).

IMAP Server Port: Set this to the port number of the EWS server. The default is 993.

Voice Format: Select the voice format used when sending voice messages to external voice servers.

#### Feature Group Configuration

Once the TSE IMAP Server entry has been created, go to **Feature Group > Synchronization Options** and modify the Office 365 user mailboxes as follows:

**IMAP Account**: Enter the user/service account created in <u>step 3</u> above. Include the complete user@domain.com (e.g. **administrator@yourcompany.onmicrosoft.com**).

Account / Confirm Password: Enter the super user/service account password from step 3.

IMAP Server: Type in the name of the IMAP TSE Server created in the previous step (e.g. OfficeMail365).

**Calendar Mode**: If calendar synchronization is required, select **Sync with Mail Server Calendar** from the dropdown menu. Otherwise, select **None**.

Synchronization Settings: Set these options to specify which information will be synchronized between servers.

🖡 Feature Group			?
Eeature Group			
	tification ( Synchroni		fer Options   Transfer Types )ID Properties   Speech Options
1: Default Users			
IMAP Account administrator	@yourc	Calendar Mode	Sync with Mail S 💌
Account Password	_	Max Connection	is 5
Confirm Password	_	Max No Of Logo	ons 5
IMAP Server OfficeMail36	5 💌	Send URL	None
Synchronization Settings	Syr	nc priority	Maximum
🔽 Call History	Ms	gs per Sync Cycle	10
System folders	TS	E Location	
Custom folders		Update Message !	Status From
Contacts			

Save all changes.

## Individual Mailbox Configuration

With the superuser account, you do not have to enter the individual mailbox credentials for CSE synchronization.

Enable Use Feature Group settings for IMAP then enter the User Name in the format user@companydomain.com. Set the Storage Mode to Synchronization.

**Note**: The user must be an **Advanced** user to utilize synchronization.

Assign the mailbox to the **Feature Group** that is going to have the superuser account credentials.

Save all changes and move onto Feature Group Configuration.

- ⊕ 🔗 × 🖬 🕑 ዞ ◀ ▶	н 🗎 🕄 📼	
General Advanced Mailbox Option	s Transfer Options 1	lessage Options   Notif
Addre ses Synchronization Options	Locations   <u>R</u> e-route 0	
9876: John Carter		
V John Carter		
V		
Use Feature Group settings for IM	AP 🔲 IMAP Locked	1
User Name johnc@erbmusi	ic.c IMAP Language	English 💌
User Password	Storage Mode	Synchronization 🥣
Confirm Password	Voice Format	Default 💌
IMAP Server	👻 E-mail	johnc@erbmusic.c
- Last Synchronization Time		
Last Synchronization Time	Update Me	ssage Status From
	Update Me	
Inbox	Update Me	ssage Status From
Inbox Contacts	Update Me	
Inbox Contacts Calendar	Update Me	summary Vi
Inbox Contacts Calendar Mailbox	Update Me	
Inbox Contacts Calendar Mailbox		summary Vi
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Inbox Contacts Calendar Mailbox ailbox ↓ ♪ ♪ ♪ ♪ ♪ ♪ ♪ ♪ ↓ ↓ ♪ Synchronization Options ↓ Locations Br	H CIUPIONS Spee	Summary Vi
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Inbox Contacts Calendar Alibox ailbox Synchronization Options   Locations   Ere General   Advanced   Mailbox Options   I	H CIUPIONS Spee	Summary Vi
Inbox Contacts Calendar Alibox Calendar	H CIUPIONS Spee	Summary Vi
Inbox Contacts Calendar Alibox ailbox Synchronization Options   Locations   Ere General   Advanced   Mailbox Options   I	H CIUPIONS Spee	Summary Vi

Voicemail Password

Password -

Confirm Password

Password Password Password

Summary View >>>

Current Default Phone Address

Internal Extension:

9876 Application User User Name icarter@erbmusic.com

#### Certificate Configuration

In order to ensure that the communication between Avaya Messaging and the Exchange server is not interrupted by security measures, install the certificate from the Exchange server computer on the Avaya Messaging voice server. For a site using High Availability, install the certificate on the Consolidated Server, and on all Remote CSE servers.

The simplest way to achieve this is to access the OWA (Outlook Web App) web page for Exchange on the voice server.

**Note**: This procedure may vary depending on the way in which you have the domain servers configured. **The goal of this process is to add the Exchange server as a trusted PC on the Avaya Messaging server computer**, which can be accomplished manually by the system administrator.

- Open the Internet Explorer web browser, then navigate to your company's OWA web page (e.g. https://111.222.1.0/owa).
- 2. In the title bar, click the certificate error tab.

Click View certificates.

3.



4. Click Install Certificate to launch to certificate wizard.

**Caution**: For all certificates, always ensure that you are on the proper web page, and confirm the issuer of the certificate for security purposes before proceeding with the installation.

Certifi	cate Information
	certificate is not trusted. To enable trust, rtificate in the Trusted Root Certification tore.
Issued t	p: FredAWS-Ex2019
Issued b	y: FredAWS-Ex2019
Valid fro	m 2019-06-10 to 2024-06-10
	Install Certificate Issuer Statemen

5. Enable Current User and click Next.

871	
5ª	Certificate Import Wizard
	Welcome to the Certificate Import Wizard
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
	Store Location
	Current User
	O Local Machine
	To continue, dick Next.
	To continue, dick Next.
Ę	
	Next Cancel
	Next Cancel
	Certificate Import Wizard
	Certificate Import Wizard  ertificate Store Certificate stores are system areas where certificates are kept.  Windows can automatically select a certificate store, or you can specify a location for

Certificate store:

🔶 🌛 Certificate Import Wizard

6. Enable Automatically select the certificate store based on the type of certificate then click Next.

7. Confirm that the information is correct, then click **Finish**.

ou have specified the follo	
Certificate Store Selected Content	Automatically determined by the wizard Certificate



Browse...

Next Cancel

×

8. The following popup confirms the import was successful.

Click **OK**.

9. You will be able to confirm the status of the certificate through this window.

**Note:** Ensure that the domain server is also certified, not just the Exchange server.

The certificate configuration is now complete. Restart the servers to ensure that the services are properly initialized.

General Details	Certification Path	
Certification	ath	
FredAWS	Ş-Es2019	
		View Certificate
Certificate stat	大学	
	ertificate is not trusted because thorities store.	it is not in the Trusted Roo

# Contact and Calendar Sync

Once you have configured the IMAP CSE server with your mail server, you will be able to select the degree of synchronization from the Feature Group. Ensure that you verify all of the information so that users do not lose any calendar, contact or message data during synchronization.

**Warning**: As a precaution, **backup the calendar and/or contact events** of your users before proceeding with the contact and calendar synchronization.

#### Windows Configuration

The Superuser account must be configured as a local administrator on the voice server computer.

1. In Windows, right-click the Start menu and choose Computer Management.



2. Go to System Tools > Local Users and Groups > Groups. Double-click Administrators.

🗢 🏟 🙍 📅 🗙 🗐 🗟 🚺 🖬		
Computer Management (Local)	Name Maccess Control Assista	Description Members of this group can remotely guery authorization attributes and permissio
Task Scheduler     Task Scheduler     Garcer     Sched Folders     Sched Folders     Secold Users and Groups     Groups     Groups	A Distributed COM Users	Administrators have complete and unrestricted access to the computer/domain Backup Operators can override security restrictions for the sole purpose of backin Members of this group are allowed to connect to Certification Authorities in the e Members are authorized to perform cryptographic operations. Members are allowed to launch, activate and use Distributed COM objects on this
<ul> <li>N Performance</li> <li>Device Manager</li> <li>Storage</li> <li>Windows Server Backup</li> </ul>	Event Log Readers     Guests     Hyper-V Administrators     IIS_IUSRS	Members of this group can read event logs from local machine Guests have the same access as members of the Users group by default, except fo Members of this group have complete and unrestricted access to all features of H Built-in group used by Internet Information Services.
<ul> <li>Disk Management</li> <li>Services and Applications</li> </ul>	Network Configuratio Performance Log Users	

3. Ensure that the Superuser account created has the proper permissions on the Windows environment.

_					
Admi	nistrators				
Description:	Administrator to the compu		ete and unrestr	icted acces	SS
Members:					
Administra	and the second se				
SUPPOR	T\Domain Admin: T\Hauser	5			
SUPPOR	T\Domain Admin	\$	_		
SUPPOR	T\Domain Admin: T\Hauser	s <b></b>	_		
SUPPOR	T\Domain Admin: T\Hauser	s 	_		
SUPPOR	T\Domain Admin: T\Hauser		o a user's grou		

4. The UC CSE PIM Synchronization Engine service must login and run with the Superuser credentials.

le Action View Help	? 📻 🕨 🗉 🕪							
Computer Management (Local	O. Services							Actions
System Tools Image: A standard a s	UC CSE PIM Syncronization Engine	Name	Description	Status	Startup Type	Log On As	*	Services
E Event Viewer		Q. III. And address to a			Whenned	ission (Systems)		More Actions
Shared Folders	Stop the service Restart the service	Q iff, many lances		Battal	(Westwall)	Local Systems		UC CSE PIM Syncronization
Performance	in the service	Q. M. Ballymound (19): Depender		Suttel	Ballonada	Gardel Byrkkere		More Actions
Device Manager	Description:	Q. HC Realitymound Task Whenager		-	Ballorradio	12.014/01/01/01/01		More Actions
Storage 🗃 Disk Management	Provides content synchronization	UC Content Synchronization Engine	Provides content	Barrier!	Boot	Local System		
Services and Applications	functionality for PIM object	UC CSE PIM Syncronization Engine	Provides content	Started	Automatic	Local System		
Internet Information Sei		G UC CTIManager			Manual	Local System		
Services		Q M CHIMANIAN			Whenned	ission ( forthere)		
WMI Control		Q, M. Martanina		(Statistic	(Westwall)	Lacol System	н	
		Q ild (Eiddensin)	Benidie arnes it.	Sutui	matternatic-	Gauge Systems	0.000	
		Q id. Bilder Carrow			Traditionit	Gancal (Spekkern)		
		C. M. THERE IS A			(Warmad)	Gamph Burgers		
		C inf ( ) fritter annual that			(Tradition)	Local System.		
		Q 10 commentant from the		(bistist)	manurathi-	Gauge Constants	-	
	Extended / Standard /	Con anna a					100.0	

Open the **Computer Management** console and select **Services**.

Right-click the service and select Properties.
 Go to the Log On tab, and enable This Account.
 Enter the username and password for the superuser account in the spaces provided.

UC CSE PIM Syncronizati	on Engine Properties (Local Cor	nputer) 🔀
General Log On Reco	very Dependencies	
log on as:	<b>nt</b> nteract with desktop	_
This account:	superuser	Browse
Password:	•••••	
Confirm password:	••••	
Help me configure user a	account log on options.	
	OK Cancel	Apply

Click **Apply** and **OK** when finished.

6. Restart the service.

? ×

#### Avaya Messaging Configuration - Feature Group

Feature Group configuration requires changes on two tabs; **Synchronization Options** and **Mailbox Options**. You can define exactly what is going to be synchronized for the users from these two sections.

🍀 Feature Group

⊕ × ■ < < > ×

From the **Synchronization Options** tab, you can specify which messages are going to be synchronized between the servers.

Enable **Contacts** if you wish to enable contact synchronization between the two servers.

To enable calendar synchronization, select **Sync with Mail Server** from the **Calendar Mode** dropdown menu.

The other fields, such as Inbox Folder, are used for message synchronization between the servers. Refer to the message integration section for details.

General Storage Options Notification Options Transfer Options Transfer Types
Mailbox Options Message Options Synchronization Options DID Properties Speech Option
0.0
1: Default Users
· · · · · · · · · · · · · · · · · · ·
IMAP Account administrator@yourc Calendar Mode Sync with Mail S 💌
Account Password Accoun
Confirm Password XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
IMAP Server OfficeMail365 💌 Send URL None 💌
Sync priority
Call History Msgs per Sync Cycle 10
System folders TSE Location
Custom folders Update Message Status From
Contacts

From the **Mailbox Options** tab, enable **Change Location** to allow an event on the mail server calendar to automatically change the UC location of the user.

Group	
unquantum (	ion Options   Iransfer Options   Transfer Ty hronization Options   DID Properties   Speech Op
1: Default Users	
1. Delault Osers	
Settings available for the user for ma	
Change Location	Record All Incoming Calls
Distribution Lists	Record Conversation
Modify Public Distribution List	🔽 Wakeup Call
🥅 Multilingual	☐ View Geo Location Data
Settings activated by the Administrat	01
F Allow Live Reply-Call Back	🖵 LanTalk
C Allow Multiple TUI Access	Press Star to Login to Another Mailbox
✓ Directory	F Shared Extension
Do not check Passwords	T Web Access
🔽 Ask for Password (Inband Login)	VebClient Messaging
I Forced Tutorial	🗖 Disallow Embedded Login
Guest Mailbox	Veb Tutorial
Guest Mailbox	

By customizing these settings you can easily segregate calendar and contact synchronization along with message synchronization when enabling features for your users, allowing you to control exactly who has access to certain features.

# User Guide

Once calendar and contact synchronization has been enabled, all transactions occur on the server in the background, so you do not have to configure anything on your own. Use your mail server as you normally would, and any calendar or contact entries will now be mirrored in your Avaya Messaging mailbox as well.

The following is typical behavior for synchronization so that you can understand exactly how your calendar and contact entries are being handled by the servers.

**Note**: All of the calendar events and contacts from your mail server will be copied into your Avaya Messaging mailbox as soon as the administrator finishes configuring the systems.

Note: Backup your calendar events and contacts periodically as a precaution.

# Calendar Synchronization

When you create a calendar entry in Outlook, or most other email programs, the same entry will appear in your Avaya Messaging mailbox.

The time and date of the meeting is automatically sent to the Avaya Messaging mailbox. By default, the location for these events will be marked as **Meeting**. You may change this manually through Web Access, or in the case of Outlook, you may utilize the iLink Pro Desktop tool bar to assign a specific location to the event.

	August 19, 2019	9	Search	Calendar	<u>م</u>
Click her	e to enable Instant Search				
	19	Friday			
2 pm	Test Meeting; Meeting				
2					
3 00					
300					
5	Show tasks on: Due Date	Start Date	Due Date	Reminder Time	
Tasks					

Contacts

Click here to enable Instant Search

Test Contact

test@test.com

## Contact Synchronization

When you create a contact entry from Outlook, the entry will be copied into your Avaya Messaging mailbox.

Contact information is automatically sent to the Avaya Messaging mailbox.

Cont	fac	14								
Add	Cor	dact	٩,	import.	Speech Enable	e Contacta	0	c	?	1
10	D.	First Na	ame	Last Nam	Company	Default Ac	idress			

**Caution**: Deleting contacts is also synchronized. If you delete an entry from Outlook, it will also be deleted from Avaya Messaging, and vice versa.

Q - 3

123

a-c

d-f

g-i j-l m-o p-r s-u v-x yz

# Synchronization Limits

When using EWS with Exchange, message synchronization is one-way only, from Avaya Messaging to Exchange. Any messages created using Avaya Messaging will appear in Exchange, whereas messages created in Exchange will not appear in Avaya Messaging.

Message synchronization can place a significant burden on the voice servers which can lead to delays. Changes may take some time to be appear on the other side.

# MS Exchange Performance Considerations

Be aware that large numbers of items in folders can decrease the speed of operations in Exchange. This table shows the maximum number of files recommended per folder for optimum server performance.

Items in Folder	Exchange 2007	Exchange 2013	Exchange 2016
Messages	<20000	<100000	<100000
Contact and Calendar Entries	<5000	<10000	<10000

# 11

# EXCHANGE 2013 INTEGRATION NON-EWS

# In This Chapter:

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- 125 Visual Guide
- 125 Requirements
- 126 Server Configuration
- 126 Exchange 2013 superuser Creation/Configuration
- 133 Avaya Messaging Admin Configuration
- 139 Contact and Calendar Sync
- 142 User Guide
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- 146 Restart Services

# Guidelines

Depending upon your site's requirements and software, you have the option to integrate Avaya Messaging with several email systems. None of these are required. Where appropriate, refer to the chapter that best suites your requirements.

CHAPTER	INTEGRATION	WHY YOU WANT IT
9	Google	Creates a secure connection through OAuth2 to your Gmail and Google Apps accounts.
10	Exchange using EWS	The simplest connection between your Exchange server and Avaya Messaging.
11	Exchange without EWS	A connection between Exchange and Avaya Messaging for legacy systems.
12	Exchange 2010	A connection between Exchange 2010 and Avaya Messaging.
13	Office 365 using Graph	Setup the latest high security integration procedures for maximum data integrity.
14	Office 365 using EWS	Quick connection between your O365 server and Avaya Messaging.

# Introduction

Avaya Messaging and an Exchange server are able to integrate through the IMAPCSE services, providing a truly unified messaging experience. Once the configuration is complete the servers communicate and synchronize all data among themselves, eliminating the need for you to constantly manage multiple locations.

Each user's Exchange credentials are stored within the Avaya Messaging mailbox, allowing the server to synchronize messages to and from the Exchange server. End users can manage their credentials through Web Access. Administrators may also manage credentials from the admin console.

Exchange 2013 can be configured for either IMAP or EWS integration. This chapter covers the setup required to use IMAP.

Caution: Exchange 2019 and 2016 do not support non-EWS connections. Only EWS can be used.

# Visual Guide



When a voice server integrates with an email server, the data between the two is synchronized, allowing for accurate information regardless of the point of access. Receiving messages, and any actions performed by the users is synchronized between the two servers constantly, ensuring that your content is always up-to-date.

Administrators can also customize what will be synchronized. A full synch includes contact and calendar entries along with messages. If the system has telephone and message light integration, MWI (message waiting lights) will also remain accurate since the status of messages are synchronized between the servers.

## Requirements

Requirements	Details
License	IMAPCSE License
Software	Officelinx/IX Messaging version 9.0 - 10.8 Avaya Messaging version 11.0 or higher

# Server Configuration

Server configuration requires the creation of a superuser account from the active directory that has the necessary permissions within the Exchange console. Once the account has been made, it must be added to the voice server configuration, and the channel of communication between the two servers must be established.

Exchange server must also have IMAP enabled in order for Avaya Messaging to communicate properly. Once the superuser account is ready, enable IMAP for your Exchange server through the command shell.

# Exchange 2013 superuser Creation/Configuration

Once the superuser account is ready on Active Directory, create a mailbox for that user in the Exchange environment.

1. As an administrator, create a new user on your network using Active Directory. Configure any Organizational Units or company policies as required. This user **MUST** have **Password never expires** enabled.

Member Of	Dial-in	Env	ironment	Sessions
Remote control	Remote [	Desktop Se	ervices Profile	COM+
General Address	Account	Profile	Telephones	Organization
User logon name:				
ExchConnector		@youro	ompany.com	~
User logon name (pre-	Windows 200	0):		
YOURCOMPANY		ExchCo	nnector	
Unlock account		t payt logo	-	^
Account options:	ange password rexpires	-		^
Account options:	ange password rexpires	-		~
Account options:	ange password rexpires	e encryptic		×

Open the Exchange admin center in a browser (e.g. https://IPaddressOfExchangeServer/ecp). Login with the Exchange admin credentials. Go to the recipients menu at the mailboxes tab. Click New Select User mailbox.

recipients	mailboxes group	ps resources (	contacts shared migrati
permissions	<b>V</b>		
compliance management	+/ 亩 ዖ C	•••	
organization	User mailbox	MAILBOX TYPE	EMAIL ADDRESS
organizatori	Linked mailbox	ther	Nurlinet: Inc. 17 Store Revenues inc.
protection	Stars Caller	(dawr	Nacional States (1993)
mail flow	mattern (Tancia)	10 mer	Service (1997) Berger Berger in
mail flow	Mahere Gaercia;	(Lines)	Part MARCONT CONTRACTOR AND A STREET AND A ST
mobile	Autors (Hiter	(Lines)	Burlder (1992) Brits Parsanon has
mobile	Autors (Dise)	(Line)	Rendered in the second second second
public folders	Adam Periots	Vitane	Nu HANG TRACT BOARD AND AND A DECK
	Hallers (Pill)	(Lines-	Rectaul (1983) Statements inc
servers	Adam Song	(diser-	Rental Contemporation (Second
	Autor: Subtransivitett	(dissort)	Revisado, 1981 (1983) per Hammer da
hybrid	Briattania Califer	10 August	Rentered ( 1997) and Brancherington ( base

3. Enable **Existing user**. Click **browse** and select the user created in above. Provide a human friendly **Alias** to refer to this user.

			NAME	ORGANIZATIONAL UNIT
Alias:			-Hallmoot and and an	pair (Theorem Vision Pro-
IXMWizard			investigation	perficted/families Accessible
			ExchConnector	performance/Integration
Existing user			Hard Chart	perfitment/Service Accounts
ExchConnector X browse			(Hap-HELDERGER)	part Film of Chapter Filmani (Film)
			1004-00121000012	gam (Criminal) (Thingpan Primaroly) (Unity
New user	· · · ·		Phase PERSON N	gen (frie als (frigge House), frie
First name:	••		1124-1012-0010-01	gen (friendel († 1455) Herendel († 1474)
Initials:	•		/ha-#12100071	gan (Trocad) (Tragan (Trouvely) (Leith
		· .	(Hage PECCE UNITED	per Phinadel (Degree Personal (Deal)
Last name:			Hard Constant	part (Consult) (Desparationaries) (Deal)
		••	Nu-MICHINE	pare ("Anni ade")" pagane (Arnaeris) (", Anni
*Display name:		· · · ·	Bac (02100110)	yaar Filosoo da Titaayaa Himaxoo Filosoo gaar Filosoo da Titaayaa Himaxoo Filosoo
*Name:				per l'inche l'Argent internet i l'inde
Name.				
Organizational unit:				ok can
browse	2		•	
*User logon name:				
@ perf.local	Ŧ			
*New password:				
*Confirm password:				
Require password change on next logon				
More options				

When ready, click **Save**.

4. On the **mailbox features** tab, ensure that **IMAP** and **MAPI** are both **Enabled**.

User Mailbox - Windows Int	ernet Explorer		_02
Super User			Help
general mailbox usage	View details		~
contact information organization	Email Connectivity Outlook Web App: Enabled Disable   View details		
email address mailbox features member of	IMAP: Enabled Disable		
MailTip mailbox delegation	POP3: Enabled Disable		
	MAPI: Enabled Disable Litigation hold: Disabled		
	Enable		
	Archiving: Disabled Enable		
	Mail Flow Delivery Options		~
	[	save canc	
			100% -

5. At the Command Prompt, run the following command lines to attach the necessary permissions to the Superuser account. Include the alias recorded earlier as a part of the command:

**Get-Mailbox -OrganizationalUnit** UnitName -ResultSize Unlimited | Add-MailboxPermission -User ExchConnector -AccessRights FullAccess -InheritanceType All

**Get-Mailbox -OrganizationalUnit** UnitName -ResultSize Unlimited | Add-ADPermission -User ExchConnector - ExtendedRights "Send As" -InheritanceType All

**6.** To verify the correct setup for the Superuser account, open any other account and go to the **mailbox delegation** tab.

Ensure that the alias for the Superuser account is included beneath the listing for Full Access.

	iternet Explorer	_ [] ×
Test Two		Help
general mailbox usage	owner.	^
contact information organization email address	DISPLAY NAME	
mailbox features member of		
MailTip		
• mailbox delegation	Full Access The Full Access permission allows a delegate to open this user's mailbox and behave as the mailbox owner.	
	Exchange Servers	

7. From the Exchange 2013 Admin Center, go to Servers and open Exchange 2013.

Enterprise Office 365					Administrator 🔻
Exchange admin cer	nter				
recipients	servers databas	ies datal	base availability gro	ups virtual di	rectories certificates
permissions	1 3 0 0				
compliance management	NAME		SERVER ROLES	VERSION	
organization	EXCHANGE2013		Mailbox, Client Access	Version 15.0 (	EXCHANGE2013
protection					Mailbox, Client Access
mail flow					Version 15.0 (Build 516.32) Standard Trial Edition Unlicensed
mobile					Enter Product Key
public folders					
unified messaging					
servers					
hybrid					

 Choose IMAP4. Click More Options, and scroll down to find Maximum connections from a single user. Set this value to 2000.

Exchange Server - Windows In	iternet Explorer		
EXCHANGE2013			Help
general	- gran antonia di egi - 230	_	
databases and database availability groups	(All available IPv4) 993		^
POP3			
► IMAP4			
DNS lookups	Time-out settings Authenticated time-out (seconds):		
transport limits	1800	×	
transport logs	Unauthenticated time-out (seconds):		
Outlook Anywhere	60	1	
	Connection limits		
	Maximum connections:		
	2147483647		
	Maximum connections from a single IP address:		
	2147483647		
	Maximum connections from a single user:		
	2000		
	Maximum command size (bytes):		
	10240		~
		save	cancel

#### 9. Open the Windows Server Manager MMC to view the system Services.

Set both of the IMAP4 services to use Automatic Startup.

If these services are still running, shut them down and restart them for the changes to take affect. Otherwise, Restart both services.

File Action View Help				4		
Server Manager (EXCHANGE2013)	Services					
Roles     Features	Name 🔺	Description	Status	Startup Type	Log On As	
Configuration     Configuration     Configuration     Configuration     Configuration     Windows Firewall with Adva     Serveet     Windows Firewall with Adva     Serveet     Windows Firewall with Adva     Serveet     Serveet     Serveet     Serveet     Serveet     Serveet     Storage	Microsoft .NET Framework NGEN v2.0 Microsoft .NET framework NGEN v2.0 Microsoft .NET Framework NGEN v4.0 Microsoft .NET Framework NGEN v4.0 Microsoft Exchange Actue Directory T Microsoft Exchange Chaignostics Microsoft Exchange EdgeSync Microsoft Exchange EdgeSync Microsoft Exchange EdgeSync Microsoft Exchange EdgeSync	Microsoft Microsoft Microsoft Provides A The Micros Agent that Replicates This servic Manages E	Started Started Started Started Started Started	Disabled Disabled Automatic (D Automatic (D Automatic Automatic Automatic Automatic Automatic	Local System Local System Local System Local System Local System Local System Local System Local System Local System	
	Microsoft Exchange IMAP4     Microsoft Exchange IMAP4 Backend	Provides In Provides In	Started Started	Automatic Automatic	Local System Network S	
Ī	Microsoft Exchange Information Store	Manages t	Started	Automatic	Local System	
	Microsoft Exchange Mailbox Assistants	Performs b	Started	Automatic	Local System	
	Microsoft Exchange Mailbox Replication	Processes	Started	Automatic	Local System	
	Microsoft Exchange Mailbox Transport	This servic	Started	Automatic	Local System	
	Microsoft Exchange Mailbox Transport	This servic	Started	Automatic	Local System	
	Microsoft Exchange Monitoring	Allows appl		Manual	Local System	

10. The UC CSE PIM Synchronization Engine service must login and run with the Superuser credentials.

Open the **Computer Management** console and select **Services**.

le <u>A</u> ction <u>V</u> iew <u>H</u> elp	2 🖬 🕨 🖬 🕪								
Computer Management (Local	O Services							Actions	_
System Tools	UC CSE PIM Syncronization Engine	Name	Description	Status	Startup Type	Log On As		Services	
Task Scheduler     Tevent Viewer		Q.W. Sandanita			(Whenned)	line of / forthern		More Actions	
▷ 10 Event Viewer ▷ 10 Event Viewer ▷ 10 Event Viewer ▷ 10 Event Viewer	Stop the service Restart the service	Q HI manuel become		Battel	(minerical)	Lund forthern			
Performance	Nestari the service	Q 10 Ballymand The Departure		Sofiel	Rotomatic	Garial Systems		UC CSE PIM Syncronizatio	on
🚔 Device Manager		Q. M. Endinground Take Wheneyer			Delterratio	CONTRACTOR AND		More Actions	
🔄 Storage	Description: Provides content synchronization	Q. H. Baummer Laure Devices		Burbel	matternatio	Gamphel (Spreisers)			
Disk Management	functionality for PIM object	UC Content Synchronization Engine	Provides content		Boot	Local System			
Services and Applications		UC CSE PIM Syncronization Engine	Provides content	Started	Automatic	Local System			
Internet Information Sei		G UC CTIManager			Manual	Local System			
Services		Q all of the assesses			"Hiteman	issender (figsetteren)			
MMI Control		Q III Parlieruse		Barbali	(Thermose)	Lucal System.			
		Q if talkening	Provide accessive	Sund	Automatic-	Gauld Synkhole			
		Q in the second concerns			(Freedinger)	Gaussial (Spatheen)			
		Q all metasses			Witemaal	Control (Continents)			
		Q. III Lifeth Commentation			(Destinat)	Local Doctory			
		C. M. Langerman Feel, Tanana and		(harked)	manually.	County ( Burgares)			
		Öra amaras					-		

**11.** Stop the **UC CSE PIM Synchronization Engine** service.

Right-click the service and select Properties.
 Go to the Log On tab, and enable This Account.
 Enter the domainname\username and password for the superuser account in the spaces provided.

UC CSE PIM Syncronizati	on Engine Properties (Local Cor	nputer) 🗾 💌
General Log On Reco	very Dependencies	
log on as:		
Allow service to in	nt nteract with desktop	
This account:	DomainName\ExchConnec	Browse
Password:	•••••	
Confirm password:	•••••	
Help me configure user a	account log on options.	
	OK Cancel	Apply

Click **Apply** and **OK** when finished.

**13.** Restart the service.

The new account has been created.

? X

<u>O</u>K <u>C</u>ancel

TSE IMAP Server

IMAP Server Name Google

IMAP Server Port

Voice Format

IMAP Server Address imap.gmail.com

993 WAV MS GSM 6.10 👻

4×

# Avaya Messaging Admin Configuration

For Avaya Messaging and Exchange to be able to synchronize data, Avaya Messaging must be able to communicate with the Exchange server using the correct credentials. The superuser account streamlines this process while still enforcing individual password security protocols on each mailbox.

## Adding the CSE Endpoint

In order for the Avaya Messaging server to recognize the Exchange server, you must add a new CSE Endpoint entry in the Avaya Messaging Admin > TSE IMAP Server section.

Note: CSE was formerly known as TSE.

**IMAP Server Name**: This name is for your reference and does impact system performance.

IMAP Server Address: Enter the server address of the Exchange server.

**IMAP Server Port**: The port number of the Exchange server. By default, IMAP uses port 993.

**Voice Format**: From the dropdown menu, select the voice format used when sending voice messages to external voice servers.

#### Individual Mailbox Configuration

With the superuser account, you do not have to fully enter the individual mailbox credentials for IMAPCSE synchronization.

Enable **Use Feature Group settings for IMAP** then enter the **User Name** (this will be the alias for the Exchange account that the current mailbox will be synchronized with).

Under Storage Mode, select Synchronization.

**Note:** The user must be an **Advanced** user to employ synchronization.

Assign the mailbox to the **Feature Group** that is going to have the superuser account credentials.

Save all changes and move onto Feature Group Configuration.

	essage Options   <u>N</u> otifica TI Options   <u>S</u> peech Opti
ons   <u>R</u> e-route C	TI Options   Speech Opti
	English
	Synchronization
	Default -
	johnc@erbmusic.cc
C-mail	ponne@eronnusic.cc
Update Mes	sage Status From
	8
8 8 <b>8</b>	
	ch Options   Language Opt
FI Options   <u>S</u> peer	ch Options   Language Opt Iptions   Notification   Addre
FI Options   <u>S</u> peer	
FI Options   <u>S</u> peer	
FI Options   <u>S</u> peer	
FI Options   <u>S</u> peer ptions   <u>M</u> essage C	Iptions   <u>N</u> otification   A <u>d</u> dre
Feature Group	ptions   <u>N</u> otification   Addre
Feature Group	ptions   <u>N</u> otification   Addre
Feature Group	ptions   <u>N</u> otification   Addre
Feature Group  Organizational Uni Account Code  Voicemail Passw	ptions Notification Addre
Feature Group  Feature Group  Organizational Uni  Account Code  Voicemail Password  Password  Feature Group  Code  Code Code	ptions Notification Addre
Feature Group  Organizational Uni Account Code  Voicemail Passw	ptions Notification Addre
Feature Group Feature Group Organizational Uni Account Code Voicemail Password Confirm	ptions Notification Addre
Feature Group Feature Group Organizational Uni Account Code Voicemail Password Confirm	ptions   Notification   Addre
Feature Group Feature Group Organizational Uni Account Code Voicemail Passw Password Confirm Cansim	ptions Notification Addre
	IMAP Locked     IMAP Lock

#### Feature Group Configuration

The Feature Group plays a key role in IMAPCSE synchronization by providing the necessary credentials. From the **Synchronization Options** tab, configure the settings as follows:

- IMAP Account: Enter the user/service account created in <u>step 3</u> above. Include the complete user@domain.com (e.g. administrator@yourcompany.onmicrosoft.com).
- Account / Confirm Password: Enter the super user/service account password from step 3.
- **IMAP Server**: Type in the name of the **IMAP TSE Server** created in the previous step (e.g. **OfficeMail365**).
- **Calendar Mode**: If calendar synchronization is required, select **Sync with Mail Server Calendar** from the dropdown menu. Otherwise, select **None**.
- **Synchronization Settings**: Set these options to specify which information will be synchronized between servers.

Save all changes and proceed to Registry Settings.

Feature Group ature Group			2
Ceneral Storage Options     Mailbox Options Message Option     1: Default Us			r Options   Transfer Types ) Properties   Speech Options
Account Password		Calendar Mode Max Connections Max No Of Logon Send URL	Sync with Mail S 💌 5 s 5 None 💌
Synchronization Settings Control Inbox folder Call History System folders Custom folders	Syr Ms	nc priority gs per Sync Cycle E Location Update Message St	

 Test the connection to verify the work this far. Launch the IMAP Tester utility from Start > Avaya Messaging. Double-click on the Superuser account to open the IMAP Settings window.

Image: Second secon	Edit View Tools & Tests He													
VI: Default Users [MAP://         1         1         erbmusic local/superuser/johnc 255 123 234 0.N.N         143         Ready         0         0         UNNOWN         Unknown(-1)           2/2: Phantom Users [MAP:0]         1         1         erbmusic local/superuser/johnc 255 123 234 0.N.N         143         Ready         0         0         UNNOWN         Unknown(-1)           3/3: Share Extension [MAP:0]         4/4: Guest User [IMAP:0]/Tota         5         5         5         5         5         5         6         5         5         5         5         6         5         5         5         5         6         5         <	g 🖬 X Þ B   5   ?	T,	T. DNS		1 69	9	All 🐴 🖀 🖻 🖉 🗎 🔪	, 🕲 🔍 🕹 🚽						
2/2: Phantom Users [IMAP:0]           3/3: Shore Extension [IMAP:0]           5/5: Queuing Users [IMAP:0]           5/5: Store Stamburg Users [IMAP:0]           5/6: Imap TSE Mainum [IMAP           7/7: Imap TSE Medium [IMAP:           8/8: Imap TSE Medium [IMAP           9/8: Integrated Users [IMAP		ID	Mbx	Name	Comp	FG	Username	Server/SSL/BES	Port	Status	Total	Unseen	Language	Voice Format
	2/2: Phantom Users [IMAP:0/ 3/3: Share Extension [IMAP:0 4/4: Guest User [IMAP:0/Tota 5/5: Queuing Users [IMAP:0/ 6/6: Imap TSE Maximum [IMA- 7/7: Imap TSE Medium [IMAP- 8/8: Imap TSE Minimum [IMAP- 9/9: Integrated Users [IMAP	1	1000		1	1	erbm usic.local/superuser/johnc	255.123.234.0 <i>M</i> M	143	Ready	0	0	UNKNOWN	Unknown(-1)

2. Click Verify to run the test.

	1000	: [0/0]	
Username	erbmusic.local\superuser\	johnc	
Password	******		
Storage mode	IMAP	•	9/24/2013 💌
IMAP Server	1982 1980 1970		
IMAP Port	143	TLS/	SSL DNS
Language	Unknown		*
Result			
<b>.</b>			

? ×

•

3. If successful, the result will include the entry for OK LOGIN completed.

		1000: [0/0]		
Username	erbmusic.local\superu	ser\iohnc		
Password				
Storage mode	MAD			1/2013 -
	INC.	1	· 3/2	W2013 -
IMAP Server	190.10015-013			
IMAP Port	143		TLS/SSL	DNS
Language	Unknown		Ψ	
Besult				
14:04:15.833 14:04:15.835	Connecting * OK The Microsoft E: ? CAPABILITY * CAPABILITY IMAP4 21 ocin support locally	- IMAP4rev1 AUTH=	PLAIN STARTTLS	UIDPLUS C
14:04:15.837		1		
14:04:15:938 14:04:16:151 14:04:16:153	? OK LOGIN complete ? SELECT INBOX * 5 EXISTS* 0 RECEN		Answered \Flagge	d \Deleted \I
14:04:15:938 14:04:16:151 14:04:16:153	? SELECT INBOX		Answered \Flagge	d \Deleted \
14:04:15.838 14:04:16.151 14:04:16.153 14:04:16.165	? SELECT INBOX		Answered \Flagger	d \Deleted \

#### Registry Settings

In order for Avaya Messaging to manage communications with the Exchange server, you must manually add a registry value on the Avaya Messaging server. Run the registry editor by typing **regedit** from the Run command.

Browse to HKEY\_LOCAL\_MACHINE\SOFTWARE\Generic\UMS\IMAPTSE\Cache. Create a new DWORD Value entry in this location.



Name the entry **DefaultExchangeVersion** and assign it a value of 8.



Type the name of a program, folder, document, or Internet resource, and Windows will open it for you

OK Cancel Browse..

Open: regedit

The new registry entry will appear in the Registry.

Proceed with Certificate Configuration.

INST_CHECK	•	Name	Туре	Data	
😑 🧰 UMS		(Default)	REG_SZ	(value not set)	
🗀 DBWatcher		CPUMax	REG_DWORD	0×00000000 (0)	
- 📄 FeaturesInstalled		ab LogFileName	REG_SZ	C:\UC\LOGS\IMAPTS	
E 📄 IMAPTSE		LogFilter	REG_DWORD	0xffffffff (42949672	
- 🔄 Cache		LogLevel	REG_DWORD	0×00000003 (3)	
Eeam		Primary	REG_DWORD	0×00000001 (1)	
License		ProcessCert	REG_DWORD	0×00000000 (0)	
Speech		TSEHPP	REG_DWORD	0x00000001 (1)	
		TSEHPPTHRD	REG_DWORD	0x00000001 (1)	
		TSEHPPTIME	REG_DWORD	0x00001388 (5000)	
VoiceServerInstall		DefaultExchangeVersion	REG_DWORD	0×00000008 (8)	
UMSLicense		1			

#### Certificate Configuration

In order to ensure that the communication between Avaya Messaging and the Exchange server is not interrupted by security measures, install the certificate from the Exchange server computer on the Avaya Messaging voice server. For a site using High Availability, install the certificate on the Consolidated Server, and on all Remote CSE servers.

The simplest way to achieve this is to access the OWA (Outlook Web App) web page for Exchange on the voice server.

**Note**: This procedure may vary depending on the way in which you have the domain servers configured. **The goal of this process is to add the Exchange server as a trusted PC on the Avaya Messaging server computer**, which can be accomplished manually by the system administrator.

- Open the Internet Explorer web browser, then navigate to your company's OWA web page (e.g. https://111.222.1.0/owa).
- 2. In the title bar, click the certificate error tab.

Click View certificates.

3.



4. Click Install Certificate to launch to certificate wizard.

**Caution**: For all certificates, always ensure that you are on the proper web page, and confirm the issuer of the certificate for security purposes before proceeding with the installation.

	ertificate Info	ormation	
install th		te is not trusted. To in the Trusted Root	
Authorit	ties store.		
Issu	ued to: FredA	WS-Ex2019	
Issu	ued by: FredA	WS-Ex2019	
Vali	id from 2019-	06-10 <b>to</b> 2024-06-10	

5. Enable Current User and click Next.

	F Certificate Import Wizard
	Welcome to the Certificate Import Wizard
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
	Store Location
	O Local Machine
	en consider aller (EA)
	Next Cancel
	Next Cancel
<u>+</u>	Ertificate Import Wizard
<del>.</del>	
<u> </u>	Certificate Import Wizard
←	Certificate Import Wizard Certificate Store Certificate stores are system areas where certificates are kept. Windows can automatically select a certificate store, or you can specify a location for the certificate.
<del>(</del> -	Certificate Import Wizard Certificate Store Certificate stores are system areas where certificates are kept. Windows can automatically select a certificate store, or you can specify a location for the certificate.    O    Automatically select the certificate store based on the type of certificate
÷	Certificate Import Wizard Certificate stores are system areas where certificates are kept.  Windows can automatically select a certificate store, or you can specify a location for the certificate.  Automatically select the certificate store based on the type of certificate Certificate in the following store Certificate store:

7. Confirm that the information is correct, then click **Finish**.

6. Enable Automatically select the certificate store based on the type of certificate then click Next.

he certificate will be import		
ou have specified the follo Certificate Store Selected Content	wing securitys: Automatically determined by the wizard Certificate	

🔶 😺 Certificate Import Wizard



8. The following popup confirms the import was successful.

Click **OK**.

×

9. You will be able to confirm the status of the certificate through this window.

**Note**: Ensure that the domain server is also certified, not just the Exchange server.

The certificate configuration is now complete. Restart the servers to ensure that the services are properly initialized.

Details	Certification Path	
fication pa		
		View Certificate
 ate statu	71.	
	rtificate is not trusted beca thorities store.	ause it is not in the Trusted R

# Contact and Calendar Sync

Once you have configured the IMAP CSE server with your mail server, you will be able to select the degree of synchronization from the Feature Group. Ensure that you verify all of the information so that users do not lose any calendar, contact or message data during synchronization.

**Warning**: As a precaution, **backup the calendar and/or contact events** of your users before proceeding with the contact and calendar synchronization.

**Note**: If you did not install the Exchange MAPI component during the initial Avaya Messaging installation, you must do so manually now by running the **ExchangeMapiCdo.msi** file from **MSExchange** folder on Avaya Messaging installation DVD. This is a required component for contact and calendar synchronization.

#### Windows Configuration

The Superuser account must be configured as a local administrator on the voice server computer. It must also be set to run the **UC TSE Cache Manager** service.

1. In Windows, right-click the Start menu and choose Computer Management.



2. Go to System Tools > Local Users and Groups > Groups. Double-click Administrators.

🗢 🄿 🖄 📰 🗙 🖾 🗟 🗾		
<ul> <li>Computer Management (Local)</li> <li> <sup>®</sup> System Tools     </li> </ul>	Name	Description Members of this group can remotely query authorization attributes and permissio
> 🕑 Task Scheduler > 🔝 Event Viewer	Administrators	Administrators have complete and unrestricted access to the computer/domain
<ul> <li>         Shared Folders     </li> <li>         Solution     </li> <li>         Local Users and Groups     </li> <li>         Groups     </li> <li>         Or efformance     </li> <li>         Device Manager     </li> <li>         Storage     </li> <li>         Windows Server Backup     </li> <li>         Tokk Management     </li> <li>         Services and Applications     </li> </ul>	Backup Operators     Control Control Control     Control Control Control     Control Control     Control Control     Contro     Control     Control     Control     Contr	Members are allowed to launch, activate and use Distributed COM objects on this Members of this group can read event logs from local machine Guests have the same access as members of the Users group by default, except fo Members of this group have complete and unrestricted access to all features of H Built-in group used by Internet Information Services. Members in this group can have some administrative privileges to manage confi.

3. Ensure that the Superuser account created has the proper permissions on the Windows environment.

eneral					
🁧 🛄					
Description:		rs have complete uter/domain	e and unrestric	ted acce	ess
Members:					
Administra					
SUPPOR	I \Domain Admir	IS			
SUPPOR					
SUPPOR	T\Hauser		_		
SUPPOR	T\Hauser		_		
SUPPOR	T\Hauser		_		
SUPPOR	T\Hauser	Changes to a	a user's group tive until the n		

 From Windows Server Manager > Services, double-click on the UC TSE Cache Manager service in the right-hand pane.

On the **Log On** tab, enable the **This account** button and enter the credentials for the superuser account in the spaces provided.

The typical format will be **domain\super\_user\_name**.

ver Manager	Services						
Roles	Name 🔶	Description	Status	Startup Type	Log On As		
Features Diagnostics	UC Assist Service		Started	Manual	Local System	UC TSE Cache Manager Properties (CONSOLIDATED)	
Configuration	UC Background File Organizer		Started	Automatic	Support\Hauser	General Log On Recovery Dependencies	
Task Scheduler	UC Background Task Manager		Started	Automatic	Support\Hauser		
Windows Firewall with Adva	UC Business Layer Service		Started	Automatic	Local System	L g on as:	
Services	UC Gateway	Provides a	Started	Automatic	Local System	Local System account	
WMI Control	UC IMAPServer			Disabled	Support\Hauser		
Local Users and Groups	UC LDAPConnector			Disabled	Local System	Allow service to interact with desktop	
Users	UC LicenseXML Service		Started	Automatic	Support\Hauser	This account: support\superuser     Bit	ows
Groups	UC POP3Server			Disabled	Local System		
Storage	G UC Remote Printer		Started	Automatic	Local System	Password:	
	UC Service Recovery Manager		Started	Automatic	Local System		
	G UC SMSConnector			Disabled	Local System	Confirm password:	
	🐝 UC TSE Cache Manager		Started	Automatic	support\superuser	Help me configure user account log on options.	
	UC TSE.Net Contacts/Calenda	Synchroniz		Manual	Local System	Help the conlique user account log on options.	
	UC TSE.Net Service	Synchroniz		Manual	Local System		
	UC Unified Messaging System		Started	Automatic	Support\Hauser		
	UC VPIMServer		Started	Automatic	Support\Hauser		
	C Web Access	Provides a	Started	Automatic	Local System		
	🔅 UPnP Device Host	Allows UPn		Disabled	Local Service		
	User Profile Service	This servic	Started	Automatic	Local System		
	😳 Virtual Disk	Provides m		Manual	Local System		

#### Avaya Messaging Configuration - Feature Group

Feature Group configuration requires changes on two tabs; **Synchronization Options** and **Mailbox Option**. You can define exactly what is going to be synchronized for the users from these two sections.

From the **Synchronization Options** tab, you can specify which messages are going to be synchronized between the servers.

Enable **Contacts** if you wish to enable contact synchronization between the two servers.

To enable calendar synchronization, select **Mail Server** from the **Calendar Mode** dropdown menu.

The other fields, such as Inbox Folder, are used for message synchronization between the servers. Refer to the message integration section for details.

From the **Mailbox Options** tab, enable **Change Location** to allow an event on the mail server calendar to automatically change the UC location of the user.

📆 Feature Group	? 💌
Feature Group	
	tion Options I_ransfer Options   Transfer Types   hronization Options   DID Properties   Speech Options
🎁 1: Default Users	
IMAP Settings	Mail Server
IMAP Account	
Account Password	Max Connections 3
Confirm Password	Max No Of Logons 3
IMAP Server	Send URL     None
Message Sync Source Settings	
Account	Password *****
Message Sync Source	Confirm Password
Sy chronization Settings	
je inboxioider	Sync priority Medium
Call History System folders	Msgs per Sync Cycle 10
Custom folders	
Contacts	TSE Location
Feature Group	-
📲 Feature Group Feature Group	- - -
Feature Group ⊕ X 🖬 😰 📧 ♦ ► ►	
Feature Group       Image: Construction of the second	ion Options   Iransfer Options   Transfer Types   hronization Options   DP Properties   Speech Options
Feature Group       Image: Construction of the second	tion Options   Iransfer Options   Transfer Types
Feature Group	tion Options   Iransfer Options   Transfer Types   hronization Options   <u>D</u> ID Properties   Speech Options
Feature Group	tion Options   Iransfer Options   Transfer Types   hronization Options   <u>D</u> ID Properties   Speech Options   ilbox configuration
Feature Group Constant of the second	ion Options   Iransfer Options   Transfer Types   hronization Options   DID Properties   Speech Options   ilbox configuration Record All Incoming Calls
Feature Group            ⊕ ➤ ➡ ⊇ [4] (4 ▶ ▶)          General       Storage Options         Mailbox Options       Motifical         Mailbox Options       Message Options         No.       1: Default Users        Settings available for the user for mail           Change Location          Distribution Lists	ion Options   Iransfer Options   Transfer Types hronization Options   DID Properties   Sgeech Options   ilbox configuration ☐ Record All Incoming Calls ☑ Record Conversation
Feature Group            ⊕ ➤ ➡ ⊇ [4 ◀ ▶ ▶]          General       Storage Options       Notifical         Mailbox Options       Message Options       Sync            ↓ ■          ⊕ ■ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡	tion Options   Iransfer Options   Transfer Types hronization Options   <u>0</u> ID Properties   Sgeech Options   ilbox configuration ☐ Record All Incoming Calls ☑ Record Conversation ☑ Wakeup Call
Feature Group            ⊕ ➤ ➡ ⊇ [4] (4 ▶ ▶)          General       Storage Options         Mailbox Options       Motifical         Mailbox Options       Message Options         No.       1: Default Users        Settings available for the user for mail           Change Location          Distribution Lists	tion Options   Iransfer Options   Transfer Types hronization Options   DID Properties   Sgeech Options   ilbox configuration ☐ Record All Incoming Calls ☑ Record Conversation
Feature Group            ⊕ ➤ ➡ ⊇ [4 ◀ ▶ ▶]          General       Storage Options       Notifical         Mailbox Options       Message Options       Sync            ↓ ■          ⊕ ■ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡	ion Options   Iransfer Options   Transfer Types   hronization Options   DID Properties   Speech Options   ilbox configuration Record All Incoming Calls Record Conversation Wakeup Call View Geo Location Data
Peature Group            ⊕ ➤ ➡ ⊇ ► ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	ion Options   Iransfer Options   Transfer Types   hronization Options   DID Properties   Speech Options   ilbox configuration Record All Incoming Calls Record Conversation Wakeup Call View Geo Location Data
Feature Group         Image: Control of the state of	ion Options   Iransfer Options   Transfer Types   hronization Options   <u>D</u> ID Properties   Speech Options   ilbox configuration Record All Incoming Calls Record Conversation Wakeup Call View Geo Location Data or
Peature Group            ⊕ ➤ ➡ ⊇ ► ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	tion Options   Iransfer Options   Transfer Types hronization Options   DID Properties   Sgeech Options   ilbox configuration □ Record All Incoming Calls □ Record Conversation □ Wakeup Call □ View Geo Location Data or □ LanTalk
Feature Group         Image: Storage Options       Notifical         General       Storage Options       Notifical         Mailtox Options       Message Options       Sync         Image: Storage Options       Notifical       Message Options       Sync         Image: Storage Options       Message Options       Sync       Sync         Image: Storage Options       Message Options       Notifical       Sync         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Location       Image: Change Location         Image: Change Location       Image: Change Location       Image: Change Locat	tion Options   Iransfer Options   Transfer Types hronization Options   DID Properties   Speech Options   ilbox configuration ☐ Record All Incoming Calls ☐ Record Conversation ☐ Welkeup Call ☐ View Geo Location Data or ☐ LanTalk ☐ Press Star to Login to Another Mailbox
Peture Group            ⊕ ➤ ➡ ⊇ ▲ ↓ ★         General       Storage Options       Notifical         Mailbox Options       Message Options       Sync            ↓ ■ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡	tion Options   Iransfer Options   Transfer Types hronization Options   <u>D</u> ID Properties   Sgeech Options   ilbox configuration
Peture Group            ⊕ ➤ ➡ ⊇ ▲ ↓ ★         General       Storage Options       Notifical         Mailbox Options       Message Options       Sync            ↓ ■ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡	tion Options   Iransfer Options   Transfer Types hronization Options   <u>D</u> ID Properties   Sgeech Options   ilbox configuration
Peture Group	tion Options   Iransfer Options   Transfer Types hronization Options   DD Properties   Sgeech Options     De configuration   F Record All Incoming Calls   ⊽ Record Conversation   ⊽ Wakeup Call    View Geo Location Data       Fress Star to Login to Another Mailbox    Shared Extension    Web Access   ⊽ WebClient Messaging

By customizing these settings you can easily segregate calendar and contact synchronization along with message synchronization when enabling features for your users, allowing you to control exactly who has access to certain features.

# User Guide

Once calendar and contact synchronization has been enabled, all transactions occur on the server in the background, so you do not have to configure anything on your own. Use your mail server as you normally would, and any calendar or contact entries will now be mirrored in your Avaya Messaging mailbox as well.

The following is typical behavior for synchronization so that you can understand exactly how your calendar and contact entries are being handled by the servers.

**Note**: All of the calendar events and contacts from your mail server will be copied into your Avaya Messaging mailbox as soon as the administrator finishes configuring the systems.

Note: Backup your calendar events and contacts periodically as a precaution.

# Calendar Synchronization

When you create a calendar entry in Outlook, or most other email programs, the same entry will appear in your Avaya Messaging mailbox.

The time and date of the meeting is automatically sent to the Avaya Messaging mailbox. By default, the location for these events will be marked as **Meeting**. You may change this manually through Web Access, or in the case of Outlook, you may utilize the iLink Pro Desktop tool bar to assign a specific location to the event.

lick ber	e to enable Instant Search				
	19	Friday			
2 pm	Test Meeting; Meeting				
300					
	Show tasks on: Due Date	Start Date	Due Date	Reminder Time	
<b>Tasks</b>	snow tasks on: Due Date	start Date	Due Date	Reminuer time	

Contacts

Click here to enable Instant Searc

Test Contact

test@test.con

# Contact Synchronization

When you create a contact entry from Outlook, the entry will be copied into your Avaya Messaging mailbox.

Contact information is automatically sent to the Avaya Messaging mailbox.

Add Contact	0	hunnet	Speech Enable	Contarts	01	C		2	11
	-				-		-		
III IN Day	Manage 1	art Marri	e Company	Dofail Adv	denier 1				
			e company	Denarat Mar	1622				

**Caution**: Deleting contacts is also synchronized. If you delete an entry from Outlook, it will also be deleted from Avaya Messaging, and vice versa.

act, Test

123

a-c

d-f

g-i j-l m-o p-r s-u v-x yz

# MS Exchange Performance Considerations

Microsoft (http://support.microsoft.com/kb/905803) advises that a large numbers of items in folders can decrease the speed of operations in Exchange. This table shows the maximum number of files recommended per folder for optimum server performance.

ltems in Folder	Exchange 2003	Exchange 2007	Exchange 2003		
Messages	<5000 combined	<20000	<100000		
Contact and Calendar Entries	-Sooo combined	<5000	<10000		

# Reconfiguring Synchronization Components for IMAP

Once the installation has been completed, verify that the system configuration files are set to use IMAP. This should be done on all servers running CSE: The voice server in a single server environment, the Consolidated server under HA, and all remote CSE servers operating.

**Note**: The **CSE.exe.config** file is used with message synchronization, while the **CSE.PIM.exe.config** is used for contact and calendar synchronization.

- UC - 🗆 X 🗋 🚺 = 0 Home Share View v (€) (=) ▼ ↑ ↓ This PC ↓ Local Disk (C:) ↓ UC ↓ ✓ C Search UC Q . Date modified Name Туре Size 🚖 Faureitas Licarean E Desktop Elle folder 2/12/2016 0:23 444 · Countingets Logs 2/15/2016 5:00 AM File Salider I Recent places Messages 11/22/2017 4/05 PMI File fulder 2/14/2019 8-46.484 Packages File failder This PC - Frangts 6/25/2010 1140 AM File fallder 🛓 Desittag 2/12/2019 8-41 AM 1 farmettalide File Scitte Descurrents Taports 3/5/2018.2:15 AM File folde 11/22/2017 A12 PM · Courrisonth Tesources Tile Autor Massie: a socs 2/12/2019 546 484 File field E Pietharms Settlenice 2/12/2019 8-41 AM Madimus: Facanda 2/12/2019 B-FT AM Filefi 🏭 Local Disk (C:) 1 SpCanfig 2/12/2019 8-46 AM File faild I SAME 2/12/2019 6-41 644 Title Falls SGLSorpt 2/12/2019 8-45 AM Title Sold L SING SYLDOTTE 6-48 AM File folds 100 2/12/2016 8-48 444 The Asian Tarry 6/25/2018 NOT PM Tile Spille UC-invariante 2012/2019 Balt AM Tile Talde 1 UCBANING MAK HE-S STOCKED, LAN File Scittle KOB. JUCCSE 2/12/2019 8:46 AM File folder 119 items 1 item selecte
- 1. Open the UC/UCCSE folder on the program installation drive.

2. Within the folder, open the CSE.exe.config file in a text editor such as NotePad.

		21 - 224	1		-
€ 🕘 ד ↑ 🌗 ד	This PC  Local Disk (C:) UC  UCCSE	v ¢	Search UCCSE		Q
🚖 Favoritas	Name	Date modified	Туре	Size	
E Casilitage	SE CSE Base dil	2/6/2019-634 PM	Application extens	39.43	
a Dewniteads	S CECESII	2/6/0019-6-34 PM	Application enters	13.40	
1 Recent places	CSE.080 ave	2/6/2019 6:34 PM	Application	13.62	
	CSE.080 ana.comfig	10/10/0814 3:17 PM	CONFIG File	3 88	
This PC	CIE EAPLAN	2/6/2019-6.54 PM	Application extern	12 12	
Chesiktrap	CSE.EMSL40	2/6/2019/634 PM	Application extens	101.63	
I Descurrente	RT CILANE	2/16/20118-6-34 PMA	Application	15.48	
a Crewniewde	CSE.exe.config	1/17/2018 12:55 PM	CONFIG File	9 KB	
Mitanie:	SECREGARIAN	26/2019年3月9月	Application extens	105.43	
🚡 Pietharms	SE CSEIMAR dit	2/6/0019-6-34 PM	Application whens	154.48	
Middanne.	ST CSELEWP AN	2/6/2019-6:34 PM	Application extens	11.82	
🏭 Local Disk (C:)	CSELF55.48	2/6/2019-634 PM	Application enters	11 88	
	S CSELOG #	2/6/2019-6-34 PM	Aggination where	17168	
	SEMAPLAN	2/6/2019-634.9%	Application extens	11 835	
	S CSENET AI	2/6/2019-6-34 PM	Application enters	10.63	
	Cit. PM and	2/6/2019/6/34 PM	Application	14.825	
	CSE.PBM.asse.config	12/5/2817 11:13 AM	COMPIS File	0.10	
	CSE/PM/080212838.ava.comfig	10/5/0017 11:13 AM	COMPIS File	0.40	
	CSE.PHM1806251540.exe.comfig	10/21/2016-0.30 AM	CONFIS File	0.62	
	S CSESWCall	2/6/2019 634 PM	Application enters	31 KB	
	SE SHAC AN	2/6/2019-6-34 PM	Application extens	445 62	
3. Scroll down to find the following lines (UseEWSIMAP):

```
<setting name="UseEWSIMAP" serializeAs="String">
<value>True</value>
</setting>
```



Verify that the **Value** is set to **True**. If the value is not True, change it and save the file.

$\leftarrow \rightarrow \land \uparrow $	This PC  ► Local Disk (C:)  ► UC  ► UCCSE	× ¢	Search UCCSE	
🚖 Faussilias	Name	Date modified	Туре	Size
Chesitterp	CSE Base dB	2019-08-20-845 AM	Application where	61 KB
📕 Dawerlinedia	E CHECKS AN	20103-08-30 8-45 AM	Application extens	13.40
1 Recent places	CSE.080.exe	2019-08-20-9-4E-AM	Application	13 88
	CSE.090 and config	3014-12-17 12-17	CIDN/FIG File	3 83
This PC	CSEEAPLAN	2019-06-20-545 AM	Application extens	25.42
a Desittop	[ii] CSEEWSLAN	2016-08-20-845 AM	Application estens	104.63
I Daniamenta	CIE.exe	2019-00-20 8-46 AM	Application	15.83
👗 Downiinadis	CiE.exe.config	2018-05-22 2.32 PM	COMING File	7.82
🚽 foffansie	E CSEGARIAN	2019-08-20-8-45 AM	Application whens	110.43
E Pathares	CIE MARP 48	2018-08-30 8-45 AM	Application extens	1107 103
· Wellerre	CSELDAP all	2019-08-20-846 AM	Application extens	12.83
🚢 Local Disk (C:)	CSELPSS at	2018-08-20-845 AM	Application estern	12 83
	CIELOG dl	2019-06-20-845 AM	Application eiters	17.63
	CSE.MAPLAR	2010-08-22-845 AM	Application estens	12 KB
	CSENET AN	2019-08-20 8-45 AM	Application estens	62.83
	CSE Philaea	2018-08-30 8-46 AM	Application	34.82
	CSE.PIM.exe.config	2019-05-21 4:33 PM	CONFIG File	5 KE
	CSE.SAC.48	2019-08-20 8-45 AM	Application estens	20.48
	[ii] CSE SHAC all	2019-08-20-8-40 AM	Application extens	454 83
	CSE WHAP AN	2019-08-20-8-45 AM	Application extens	1112 82
	Gaugle Agis Admin Directory directory x.	2018-05-13 8:06 AM	Application extens	202.40

4. Within the UCCSE folder, open the **CSE.PIM.exe.config** file in a text editor such as NotePad.

5. Scroll down to find the following lines (UseEWSIMAP):

```
<setting name="UseEWSIMAP" serializeAs="String">
<value>True</value>
</setting>
```

Verify that the **Value** is set to **True**. If the value is not True, change it and save the file.

## **Restart Services**

Before continuing, stop and restart the following services:

- UC Content Synchronization Engine
- UC CSE PIM Synchronization Engine

This will force Avaya Messaging to immediately update its systems. Otherwise, there will be a delay before the changes become active.

# 12

# **EXCHANGE 2010 INTEGRATION**

# In This Chapter:

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- 149 Visual Guide
- 149 Requirements
- 150 Server Configuration
- 150 Creating a superuser from Active Directory
- 152 Exchange 2010 superuser Creation/Configuration
- 156 Exchange 2010 Shell Configuration
- 159 Avaya Messaging Admin Configuration
- 164 Contact and Calendar Sync
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- 167 MS Exchange Performance Considerations

## Guidelines

Depending upon your site's requirements and software, you have the option to integrate Avaya Messaging with several email systems. None of these are required. Where appropriate, refer to the chapter that best suites your requirements.

CHAPTER	INTEGRATION	WHY YOU WANT IT
9	Google	Creates a secure connection through OAuth2 to your Gmail and Google Apps accounts.
10	Exchange using EWS	The simplest connection between your Exchange server and Avaya Messaging.
11	Exchange without EWS	A connection between Exchange and Avaya Messaging for legacy systems.
12	Exchange 2010	A connection between Exchange 2010 and Avaya Messaging.
13	Office 365 using Graph	Setup the latest high security integration procedures for maximum data integrity.
14	Office 365 using EWS	Quick connection between your O365 server and Avaya Messaging.

## Introduction

Avaya Messaging and an Exchange server are able to integrate through the IMAPCSE services, providing a truly unified messaging experience. Once the configuration is complete the servers communicate and synchronize all data among themselves, eliminating the need for you to constantly manage multiple locations.

Each user's Exchange credentials are stored within the Avaya Messaging mailbox, allowing the server to synchronize messages to and from the Exchange server. End users can manage their credentials through Web Access. Administrators may also manage credentials from the admin console.

## Visual Guide



When a voice server integrates with an email server, the data between the two is synchronized, allowing for accurate information regardless of the point of access. Receiving messages, and any actions performed by the users is synchronized between the two servers constantly, ensuring that your content is always up-to-date.

Administrators can also customize what will be synchronized. A full synch includes contact and calendar entries along with messages. If the system has telephone and message light integration, MWI (message waiting lights) will also remain accurate since the status of messages are synchronized between the servers.

## Requirements

Requirements	Details
License	IMAPCSE License
Software	Officelinx/IX Messaging version 8.5 - 10.8 Avaya Messaging version 11.0 or higher

# Server Configuration

Server configuration requires the creation of a superuser account from the active directory that has the necessary permissions within the Exchange console. Once the account has been made, it must be added to the voice server configuration, and the channel of communication between the two servers must be established.

Exchange server must also have IMAP enabled in order for Avaya Messaging to communicate properly. Once the superuser account is ready, enable IMAP for your Exchange server through the command shell.

## Creating a superuser from Active Directory

A new user account must be created before it can be setup as a superuser with the necessary access privileges.

 From the active directory, create a new user. The user name can be anything. For this guide, we will be using "super\_user" as the user name and "perf.local" as the domain within which Exchange 2010 is installed.

**Note:** Change the domain and user name to match your network's requirements.

2. Ensure that Password never expires is enabled.

Since this password is applied to the **Feature Group**, an expired password means that all mailbox accounts associated with that Feature Group will not be synchronized until the password is reset.

3. Confirm the information then click **Finish** to add the user.



**4.** After the user is created, ensure that it is a member of a group with the necessary access.

The correct group to join may vary from system to system, but the key is to ensure that this user has full administrative access to the Exchange server.

Proceed to the Exchange 2010 configuration after the superuser account is ready.

imaptse85 Properties	<u>? ×</u>					
Dial-in Environment	Sessions					
Remote control Remote Desktop Services Profile						
Personal Virtual Desktop COM+ UNIX Attributes						
General Address Account Profile Telephones Organization Member O						
Member of:						
Name Active Directory Domain Servic	es Folder					
Domain Users your_domain.com/Users						
Add     Remove       Primary group:     Domain Users       Set Primary Group     There is no need to change Primary group unless applications.						
OK Cancel	Apply Help					

## Exchange 2010 superuser Creation/Configuration

Once the superuser account is ready on Active Directory, create a mailbox for that user in the Exchange 2010 environment.

1. Create a new **User Mailbox** mailbox from the Exchange 2010 Management Console.



- 2. When prompted, choose Existing User.
- 3. Click on the Add button.

In the popup window, select the superuser account that was previously in the Active Directory.

Click **OK** to add that account to the list of new mailboxes.

4. Click **Next** to continue.



**5.** Select the correct database and change any other settings that are required by your system configuration.

6. Confirm the information then click **New** to create the

mailbox.

Introduction           User Type	Mailbox Settings Enter the alias for the mailbox user, and then select the mailbox local	tion and policy settin
Mailbox Settings	Alias:	
New Mailbox	super_user	
Completion	Mailbox database:	
		Browse
	Managed folder mailbox policy:	
		Browse
	Exchange ActiveSync mailbox policy:	
	Excitange ActiveSync malbox policy.	Browse
	Managed custom folders are a premium feature of messaging red Mailboxes with policies that include managed custom folders req enterprise client access license (CAL).	cords management. juire an Exchange

- Image: Sector Sector
- **7.** The superuser account has been created.

Click Finish to exit the wizard.

New Mai	Ilbox Completion The ward completed successfully. Click Finish to close this wizard. Elacored time 000.001	
Mailbox Settings New Mailbox	Summary: 1 item(s). 1 succeeded, 0 failed.	
Completion	Super_user 🕜 Complet	ed 🕿
	Exchange Management Shell command completed: Enable Mailbox Identity you, domain com/MAP TEST USERS/super_user / 'super_user' -Database' Exch2013/First Storage Group/Mailbox Database' Elapsed Time: 00:00:01	Alies
	Select Ctrl+C to copy the contents of this page.	
Help	< <u>B</u> ack Finish C	ancel

8. In order for a superuser account to properly manage all messages, you must allow a higher number of connections than there are by default.

Open the **IMAP4 Properties** from the Client Access section.

🔀 Exchange Management Console							
Eile Action ⊻iew Help ← → 1 € 10 😤 🖬							
Microsoft Exchange	L. Client Access						
Malibox Clerk Access Unified Messaging W & Recipient Configuration	Name V	Role Hub Transport, Client Acc	Version Version 8.1 (Build 240.6)	Outlook Anywhere Enabled False			
	Protocol Name	cchange ActiveSync   Offline Addres	ss Book Distribution POP3 an	id IMAP4			

 From the Connection tab, set Maximum connections from a single user to 1000.



10. From the Retrieval Settings tab, set Message MIME format to Text.

Click **OK** to save your changes.

Now that the superuser account is ready, prepare the Exchange 2010 server for integration and apply the correct administrative rights to the superuser account.



**11.** The **UC CSE PIM Synchronization Engine** service must login and run with the Superuser credentials.

Open the **Computer Management** console and select **Services**.

Eile Action View Help								
Þ 🤿 📶 🔚 🖬 🗟 🖌	2 🗊 🕨 🗉 🕪							
Computer Management (Local	O Services							Actions
System Tools     Pask Scheduler	UC CSE PIM Syncronization Engine	Name	Description	Status	Startup Type	Log On As	*	Services
Event Viewer	Stop the service	Q III Ashafania			Wenned	issess#/figebbares		More Actions
<ul> <li>Shared Folders</li> <li>Performance</li> </ul>	Restart the service	Q. M. Teach Service Q. M. Realization The Teaching		Statut .	(Westwall)	Land Toresen		UC CSE PIM Syncronization
Device Manager		Q. H. Background Task Warages			Advertable	CONSTRUCTION AL.		More Actions
😫 Storage	Description:	Q H Burner Lager Berner		(Institut)	Hattematic	Gauge Burners		
📓 Disk Management	Provides content synchronization functionality for PIM object	🔍 UC Content Synchronization Engine	Provides content		Boot	Local System		
Services and Applications	rancedonality for Fair object	🝓 UC CSE PIM Syncronization Engine				Local System		
Internet Information Sei		G UC CTIManager			Manual	Local System		
Services		C att a the assessment			"Westerned	is an odd if they bear an		
WMI Control		Q III mension		Statisti	(Thermose)	Lucal System.	H	
		Q if (Littlering)	Provider accession	Sutui	matternatio-	Local Tyrekers	0.000	
		Q int Brokent and			(Treasure)	(Louise) (Speckerer)		
		Q, M. INTERACTOR			Witemaal	Gauge Contents		
		Q all street and and			(Tradition)	Local Systems		
		Q. M. Lawrence Feb. Territory		(harked)	matternality.	George Hardware		
		a commente					Ŧ	

- **12.** Stop the **UC CSE PIM Synchronization Engine** service.
- Right-click the service and select Properties.
   Go to the Log On tab, and enable This Account.
   Enter the username and password for the superuser account in the spaces provided.

UC CSE PIM Syncronizati	UC CSE PIM Syncronization Engine Properties (Local Computer)						
General Log On Reco	very Dependencies						
	g on as: Local System account ∭ Allow service to interact with desktop						
This account:	superuser	Browse					
Password:	•••••						
Confirm password:	••••						
Help me configure user a	account log on options.						
	OK Cancel	Apply					

Click **Apply** and **OK** when finished.

**14.** Restart the service.

## Exchange 2010 Shell Configuration

Since only simple actions are available through the GUI, continue the configuration through the Exchange Management Shell.



**Note**: <> represents a single space in the command.

## Configuring the IMAP server

All IMAP server settings may be viewed by typing the command:

#### **Get-imapsettings**

For integration with the IMAPCSE, you must execute this command to change the way in which logins are handled by IMAP.

#### Set-imapsettings<>-logintype<>PlaintextLogin

By default, the IMAP server daemon is disabled in Exchange 2010, so you must turn it on manually. You must configure the server so that the IMAP services are always started automatically for server restarts.

Set-service<>msExchangelMAP4<>-startuptype<>automatic

## Start the IMAP Service

#### Start-service<>msExchangeIMAP4

At this stage, the IMAP service will be running, and it will start each time the computer restarts.

To test this, open a command prompt (Windows prompt not Exchange Shell) and enter **telnet**<>serverIP<>143. You should see the banner reply. You may also verify the procedure by checking the status of the service.

Microsoft Exchange IMAP4 Provides Internet Mes... Started Automatic Local System

## IMAP Enabling All Existing Mailboxes in a Store

If the mailboxes within your Exchange server do not have IMAP enabled, you can use the following commands to enable the feature for the mailboxes. You may confirm the status of the feature by opening the mailbox properties, then going to the **Mailbox Features** tab as shown here.

**Note**: All mailbox accounts that require IMAPCSE synchronization must have IMAP enabled under Exchange.

## IMAP Enabling All Users

#### Get-mailbox<>|<>Set-CASMailbox<>-ImapEnabled:\$true

This command gets each mailbox and pipes it into the **Set-CASMailbox** command sequentially.

### IMAP Enabling a Single User

Use this command to individually enable IMAP on each user.

#### Set-CASMailbox<>>%mailbox%<>-ImapEnabled:\$true

The %mailbox% variable represents the mailbox account name for which you want to enable IMAP.

## Configuring Permissions for the superuser Account

The following commands will give the superuser account permission to logon to all user's mailboxes. There are two separate commands needed; type the first, hit enter, and then type the second.

In both cases, the **%superuser%** variable represents the domain and superuser account you have created in the previous steps. For example, if the superuser's user name is **SUPER\_USER**, and the domain is **COMAPNY.COM**, enter **COMPANY\SUPER\_USER** in place of **%superuser%**.

#### Command 1

Get-Mailbox<>|<>Add-ADPermission<>-User<>'%superuser%'<>-ExtendedRights<>'Send-as'<>-InheritanceType<>All

### Command 2

#### Get-Mailbox<>|<>Add-MailboxPermission<>-User '%superuser%'<>-AccessRights<>'FullAccess'<>-InheritanceType<>All

This is the last configuration step required on the Exchange 2010 server and you are ready to move on to the Avaya Messaging configuration.

**Note:** If you add new mailbox accounts to the Exchange server after this point, you must enable those accounts for IMAP manually as well. To do this, use the following commands.

f000001 Properties				Į
Account	Member Of	E-Ma	ail Addresses	
General User Informa	tion Address a	nd Phone	Organization	
Mailbox Settings	Mail Flow Settings	M	ailbox Features	
Properties 💽 Enable	e 🕓 <u>D</u> isable			
Feature	Status			
📰 Outlook Web Access	Enabled			
Exchange ActiveSync	Enabled			
🛅 Unified Messaging	Disabled			
🕞 MAPI	Enabled			
LE POP3	Enabled			
🔎 IMAP4	Enabled			
Description				
No item selected.				
		11	1	
OK	Cancel	Apply	Help	

## IMAP Enable a New Mailbox

#### Set-CASMailbox<>>%mailbox%<>-ImapEnabled:\$true

## Run a Modified Version of Command 2 Without the Pipeswitch

add-mailboxpermission<>-identity%mailbox%<>-User '%superuser%'<>-AccessRights<>'FullAccess'<>-InheritanceType<>All

You can confirm the access rights for the superuser account by opening the Manage Full Access Permission panel. The superuser account name should be listed.

<ul> <li>Manage Full Access</li> <li>Permission</li> <li>Completion</li> </ul>	Manage Full Access Permission This viscant helps you manage Full Access permission for the selected mailbox. You can us this mailbox prove Full Access to a user or groups or renove existing Full Access permission tiom a user or groups. When you grant Full Access permission to a user, that user can open this mailbox and access all of its contents. Select the users or groups for which you want to grant or remove Full Access permission: Select the users or groups for which you want to grant or remove Full Access permission: Select the users or groups for which you want to grant or remove Full Access permission: Security Principal
--	--

#### A More Secure Solution

Command 1 and 2 (above) provide full access for the superuser to the entire store drive. Instead, you can use these commands to limit access to just the MSExchange stores:

Get-MailboxDatabase | Add-ADPermission -User '%superuser%' -AccessRights ExtendedRight -ExtendedRights Receive-As, ms-Exch-Store-Admin

**Note:** If a new mailbox database is created for Microsoft Exchange, you must re-enter this command so that the new file is given the correct user access rights.

## Avaya Messaging Admin Configuration

For Avaya Messaging and Exchange to be able to synchronize data, Avaya Messaging must be able to communicate with the Exchange server using the correct credentials. The superuser account streamlines this process while still enforcing individual password security protocols on each mailbox.

## Adding the CSE Endpoint

In order for the Avaya Messaging server to recognize the Exchange server, you must add a new CSE Endpoint entry in the Avaya Messaging Admin > TSE IMAP Server section.

#### Note: CSE was formerly known as TSE.

**IMAP Server Name**: This name is for your reference and does impact system performance.

IMAP Server Address: Enter the server address of the Exchange server.

**IMAP Server Port**: The port number of the Exchange server. By default, IMAP uses port 993.

- **Voice Format**: From the dropdown menu, select the voice format used when sending voice messages to external voice servers.
- **IMAP Server Domain**: Enter the Domain address of the IMAP server. Since it is possible to define the IMAP Server Address using an IP address, the Domain address entered here is used to verify the Reply to address of a mailbox using IMAP CSE synchronization, preventing typical message looping scenarios.

## Individual Mailbox Configuration

With the superuser account, you do not have to fully enter the individual mailbox credentials for IMAPCSE synchronization.

Enable **Use Feature Group settings for IMAP** then enter the **User Name** (this will be the alias for the Exchange account that the current mailbox will be synchronized with) and leave the **User Password** and **IMAP Server** fields empty.

**Note**: The user must be an **Advanced** user to employ synchronization.

🧟 Mailbox		? 💌
Mailbox		
<u>≫⊕⊗×∎ ◙ к∢⊳</u> ы	🗎 🖻 💼	
General Advanced Mailbox Options		
Synchronization Options Locations Re-route C	TI Options   <u>S</u> peer	ch Options   Language Options
🚑 9876: John Carter		
Use Feature Group settings for IMAP	IMAP Locked	
User Name	IMAP Language	English
User Password	Storage Mode	Synchronization 👻
Confirm Password	Voice Format	Default
IMAP Server	E-mail	9876@erbmusic.com
Last Synchronization Time	[	
Inbox	🔲 Update Mes	sage Status From
Contacts		
Calendar	1	
1		
		Summary View >>>

TSE IMAP Server	×
$+ \times$	
IMAP Server Name	Exch2013
IMAP Server Address	your_domain.com
IMAP Server Port	993
Voice Format	Wave MS GSM 6.1 💌
IMAP Server Domain	
	<u>D</u> K <u>C</u> ancel

Assign the mailbox to the **Feature Group** that is going to have the superuser account credentials.

Save all changes and move onto Feature Group Configuration.

🦉 Mailbox				? ×
Mailbox				
% ⊕ 🕖 ×				
<u>G</u> eneral <u>A</u> dvan	Options   <u>L</u> ocations   <u>R</u> e-rout ced   Mailbox Options   Iransfe <b>5: John Carter</b>			
Mailbox Numbe		- Feature Group	1: Default Users	• =
First Name	John	Organizational Unit		-
Gender	Male	Account Code		
Current De	fault Phone Address	Voicemail Passwo Password	ord	
9876		Confirm Password		
Application L				
User Name	jcarter@erbmusic.com	Password Confirm Password		_
			Summa	ry View >>>

## Feature Group Configuration

The Feature Group plays a key role in IMAPCSE synchronization by providing the necessary credentials. From the **Synchronization Options** tab, configure the settings as follows:

**IMAP Account**: Enter the account name for the superuser. The typical format will be **domain/super\_user\_name**.

Account Password: Enter the password of the superuser account.

Confirm Password: Re-enter the password.

**IMAP Server**: Select the CSE Endpoint created in the previous steps.

Save all changes and proceed to Registry Settings.

eature Group				? <mark>-</mark> ×
ture Group				
X 🖬 😰 📧	I ► ► ■			
General Storage Op	tions Notification I	Options I Iransfer O	ntions	Transfer Types
			Properties	Speech Option
🞁 1: Defau	t l leare			
🔰 T. Delau	il Osels			
- IMAP Settings				
IMAP Account	PERF/super user	Calendar Mode	None	-
Account Password		Max Connections	3	
Account Password	******	Max Connections		
Confirm Password	******	Max No Of Logons	3	
IMAP Server	Exchange 👻	Send URL	None	-
Message Sync Source	Settings			
Account		Password	NEREERE	
Message Sync Source	•	Confirm Password	REFERENCE	
			,	
Synchronization Settin				
Inbox folder	:	Sync priority M	edium	-
Call History		Msgs per Sync Cycle 10	)	
System folders				
Je Custoin toider		TSE Location		
Contacts				

OK Cancel Browse...

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you

Open: regedit

? X

•

## **Registry Settings**

In order for Avaya Messaging to manage communications with the Exchange server, you must manually add a registry value on the Avaya Messaging server. Run the registry editor by typing **regedit** from the Run command.

Browse to HKEY\_LOCAL\_MACHINE\SOFTWARE\Generic\UMS\IMAPTSE\Cache. Create a new DWORD Value entry in this location.



Name the entry **DefaultExchangeVersion** and assign it a value of 8.



The new registry entry will appear in the Registry.

Proceed with Certificate Configuration.

Edit View Favorites Help	 		
INST_CHECK      MS     MS     DBWatcher     FeaturesInstalled     E-IMAPTSE     Cache     Eeam     License     Speech     Unifst     Unifst	Name ()(Orfault) )(Orfault)	Type REG_SZ REG_DWORD REG_SZ REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD	Data           (value not set)           0:00000000 (0)           C:UCL/CGS/IMAPTS           0:00000003 (3)           0:00000001 (1)           0:00000001 (1)           0:00000001 (1)           0:0000001 (1)
UnifiedUtil 	BETSEHPPTIME	REG_DWORD REG_DWORD REG_DWORD	0x00000001 (1) 0x00001388 (5000) 0x00000008 (8)

The security certificate was issued by a company you have not chosen to trust. View the certificate to determine whethe you want to trust the certifying authority.

The name on the security certificate is invalid or does not match the name of the site.

View Certificate

? X

OK

The security certificate date is valid.

Do you want to proceed? Yes

General Details Certification Path

Certificate Information

This certificate cannot be verified up to a trusted certification authority.

Issued to: Exch.your\_domain.com
Issued by: them.main

Valid from 12/9/2019 to 12/9/4000

Install Certificate...

A

Certificate

## Certificate Configuration

In order to ensure that the communication between Avaya Messaging and the Exchange server is not interrupted by security measures, install the certificate from the Exchange server computer on the Avaya Messaging server.

The simplest way to achieve this is to access the OWA (Outlook Web Access) web page of the Exchange server.

**Note**: This procedure may vary depending on the way in which you have the domain servers configured. **The goal of this process is to add the Exchange server as a trusted PC on the Avaya Messaging server computer**, which can be accomplished manually by the system administrator.

 Open the Internet Explorer web browser, then navigate to the OWA page (e.g. https://exchange\_2010/owa).
 Information you exchange with this site cannot be viewed or changed by others. However, there is a problem with the site's changed by others. However, there is a problem with the site's

You will see the following security warning popup.

Click on View Certificate.

2. Click on Install Certificate to launch to certificate wizard.

**Caution**: For all certificates, always ensure that you are on the proper web page, and confirm the issuer of the certificate for security purposes before proceeding with the installation.

3. Click Next.



4.	Enable Automatically select the certificate store based or	ו the	×
	type of certificate then click Next.	← 🔑 Certificate Import Wizard	
		Certificate Store Certificate stores are system areas where certificates are kept.	
		Windows can automatically select a certificate store, or you can specify a location the certificate.	1 for
		Automatically select the certificate store based on the type of certificate     Place all certificates in the following store	
		Certificate store: Browse.	
		Net	Cancel
5.	Confirm that the information is correct, then click <b>Finish</b> .		×
		← 😺 Certificate Import Wizard	
		Completing the Certificate Import Wizard	
		The certificate will be imported after you dick Finish. You have specified the following settings:	
		Certificate Specine differences of the normal sectings: Certificate Store Selected Automatically determined by the wizard Content Certificate	
		Finish	Cancel
6.	The following popup confirms the import was successful.	Certificate Import Wizard	×
	Click <b>OK</b> .	The import was su	iccessful.
7.	You will be able to confirm the status of the certificate throug	zh this window	ОК
# •		General Details Certification Path	×
	<b>ote</b> : Ensure that the domain server is also certified, not just t xchange server.		
		View Certifi	icate
		Certificate status: This CA Root certificate is not trusted because it is not in the Tru Certification Authorities store.	isted Root
		L	OK
8.	Depending on the security settings on the system, you may	Security Warning	X
	also see the following warning popup.	You are about to install a certificate from a certification authority (CA) claiming to represent: them.main	
	Click <b>Yes</b> to accept the certificate in this case.	Windows cannot validate that the certificate is actually from "temp.main". You should confirm its origin contacting "temp.main". The following number will assist you in this process: Thumbprint (snat):	by
	e certificate configuration is now complete. Restart the	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Ins certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this rist	stalling a k.
ser	vers to ensure that the services are properly initialized.	Do you want to install this certificate?	
		Yes	

## Contact and Calendar Sync

Once you have configured the IMAP CSE server with your mail server, you will be able to select the degree of synchronization from the Feature Group. Ensure that you verify all of the information so that users do not lose any calendar, contact or message data during synchronization.

**Warning**: As a precaution, **backup the calendar and/or contact events** of your users before proceeding with the contact and calendar synchronization.

**Note**: If you did not install the Exchange MAPI component during the initial Avaya Messaging installation, you must do so manually now by running the **ExchangeMapiCdo.msi** file from **MSExchange** folder on Avaya Messaging installation DVD. This is a required component for contact and calendar synchronization.

## Feature Group

Feature Group configuration requires changes on two tabs; **Synchronization Options** and **Mailbox Option**. You can define exactly what is going to be synchronized for the users from these two sections.

From the **Synchronization Options** tab, you can specify which messages are going to be synchronized between the servers.

Enable **Contacts** if you wish to enable contact synchronization between the two servers.

To enable calendar synchronization, select **Mail Server** from the **Calendar Mode** dropdown menu.

The other fields, such as Inbox Folder, are used for message synchronization between the servers. Refer to the message integration section for details.

From the **Mailbox Options** tab, enable **Change Location** to allow an event on the mail server calendar to automatically change the UC location of the user.

🧊 Feature Group		? <b>×</b>
Feature Group		
⊕ X 🖬 😰 K K → M		
General Storage Options Notificatio		
Mailbox Options Message Options Synchr	onization Uptions DID Pr	operties   Speech Uptions
🎁 1: Default Users		
IMAP Settings	-	
IMAP Account	Calendar Mode	Mail Server 💌
Account Password	Max Connections	3
Confirm Password	Max No Of Logons	3
IMAP Server	<ul> <li>Send URL</li> </ul>	None 💌
Message Sync Source Settings		
Account	Password	KREEKEE
Message Sync Source	Confirm Password	RECEIPTION
Synchronization Settings		
🔽 Inbox folder	Sync priority	dium 💌
Call History System folders	Msgs per Sync Cycle 10	
Custom folders	TEFLeastion	
Contacts	TSE Location	-
Over-ride Local Directory Images With All rer	mote directory images, inclu	ding non-existing
👬 Feature Group		
🕻 Feature Group Feature Group		8 💌
		? <mark>- × -</mark>
Feature Group		tions Transfer Types
Feature Group		tions Transfer Types
Feature Group		tions Transfer Types
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Feature Group The Amage of Am	onization Options   <u>D</u> ID Pr	tions Transfer Types
Feature Group ⊕ ★	onization Options   <u>D</u> ID Pr	tions   Transfer Types operties   Speech Options
Feature Group	onization Options   DID Pr ox configuration Record All Incoming Cal	tions   Transfer Types operties   Speech Options
Feature Group	onization Options   DID Pr ox configuration □ Record All Incoming Cal ▼ Record Conversation	tions   Transfer Types operties   Speech Options
Feature Group	onization Options   DID Pr ox configuration Record All Incoming Cal	tions   Transfer Types   operties   Sgeech Options   Is
Feature Group	onization Options   <u>D</u> ID Pr ox configuration ─ Record All Incoming Cal ▼ Record Conversation ▼ Wakeup Call ─ View Geo Location Date	tions   Transfer Types   operties   Sgeech Options   Is
Feature Group            ⊕ ➤ ➡ ⊇ ▲ ▲ ▶ ▶          General       Storage Options       Notificatio         Malbox Options       Message Options       Synchr            ↓ ■ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡ ➡	onization Options   DID Pr ox configuration Record All Incoming Cal Record All Incoming Cal Record Conversation Wakeup Call View Geo Location Date	tions   Transfer Types   operties   Sgeech Options   Is
Feature Group	onization Options   DID Pr ox configuration	tions   Transfer Types   operties   Sgeech Options   ls
Feature Group            ⊕ X □ 2         ↓ X □	onization Options   DID Pr ox configuration	tions   Transfer Types   operties   Sgeech Options   ls
Feature Group            ⊕ X □ 2         ↓ X □	onization Options   DID Pr ox configuration Record All Incoming Cal Record Conversation Wakeup Call View Geo Location Data Lan Talk Press Star to Login to Ar Shared Extension	tions   Transfer Types   operties   Sgeech Options   ls
Peature Group	onization Options   DID Pr ox configuration Record All Incoming Cal Record Conversation Wakeup Call View Geo Location Data LanTalk Press Star to Login to Ar Shared Extension Web Access	tions   Transfer Types   operties   Sgeech Options   ls
Peature Group	onization Options   DID Pr ox configuration Record All Incoming Cal Record Conversation Wakeup Call View Geo Location Date LanTalk Press Star to Login to Ar Shared Extension Web Access WebClient Messaging	tions   Transfer Types   operties   Sgreech Options   Is
Feature Group	onization Options DID Pr ox configuration Record All Incoming Cal View Geo Location Data View Geo Location Data Lan Talk Press Star to Login to Ar Shared Extension Web Access WebClient Messaging Disallow Embedded Log	tions   Transfer Types   operties   Sgreech Options   Is
Feature Group	onization Options   DID Pr ox configuration Record All Incoming Cal Record Conversation Wakeup Call View Geo Location Date LanTalk Press Star to Login to Ar Shared Extension Web Access WebClient Messaging	tions   Transfer Types   operties   Speech Options   Is

By customizing these settings you can easily segregate calendar and contact synchronization along with message synchronization when enabling features for your users, allowing you to control exactly who has access to certain features.

## User Guide

Once calendar and contact synchronization has been enabled, all transactions occur on the server in the background, so you do not have to configure anything on your own. Use your mail server as you normally would, and any calendar or contact entries will now be mirrored in your Avaya Messaging mailbox as well.

The following is typical behavior for synchronization so that you can understand exactly how your calendar and contact entries are being handled by the servers.

**Note**: All of the calendar events and contacts from your mail server will be copied into your Avaya Messaging mailbox as soon as the administrator finishes configuring the systems.

Note: Backup your calendar events and contacts periodically as a precaution.

## Calendar Synchronization

When you create a calendar entry in Outlook, or most other email programs, the same entry will appear in your Avaya Messaging mailbox.

The time and date of the meeting is automatically sent to the Avaya Messaging mailbox. By default, the location for these events will be marked as **Meeting**. You may change this manually through Web Access, or in the case of Outlook, you may utilize the iLink Pro Desktop tool bar to assign a specific location to the event.

August 19, 2019	9	Search	Calendar	۲
e to enable Instant Search				
19	Friday	r		
Test Meeting; Meeting				
Show tasks on: Due Date	Start Date	Due Date	Reminder Time	
	e to enable Instant Search 19	e to enable Instant Search 19 Friday Test Meeting: Meeting	t o enable Instant Search  19 Friday  Test Meeting: Meeting	e to enable Instant Search  19 Friday  Test Meeting: Meeting

Contacts

Click here to enable Instant Searc

Test Contact

test@test.com

## Contact Synchronization

When you create a contact entry from Outlook, the entry will be copied into your Avaya Messaging mailbox.

Contact information is automatically sent to the Avaya Messaging mailbox.



**Caution**: Deleting contacts is also synchronized. If you delete an entry from Outlook, it will also be deleted from Avaya Messaging, and vice versa.

Contact, Test

123

a-c

d-f

g-i j-l m-o p-r s-u v-x yz

# MS Exchange Performance Considerations

Microsoft (http://support.microsoft.com/kb/905803) advises that a large numbers of items in folders can decrease the speed of operations in Exchange. This table shows the maximum number of files recommended per folder for optimum server performance.

Items in Folder	Exchange 2003	Exchange 2007	Exchange 2003
Messages	<5000 combined	<20000	<100000
Contact and Calendar Entries		<5000	<10000

Exchange 2010 Integration

# 13

# OFFICE 365 INTEGRATION WITH MICROSOFT GRAPH

# In This Chapter:

- 170 Guidelines
- 170 Introduction
- 170 Pre-requisites
- 171 Connecting Through Microsoft Graph
- 180 User Configurations
- 182 Reconfiguring Synchronization Components for Graph
- 184 Note After Upgrading or Updating
- 184 Restart Services

# Guidelines

Depending upon your site's requirements and software, you have the option to integrate Avaya Messaging with several email systems. None of these are required. Where appropriate, refer to the chapter that best suites your requirements.

CHAPTER	INTEGRATION	WHY YOU WANT IT
9	Google	Creates a secure connection through OAuth2 to your Gmail and Google Apps accounts.
10	Exchange using EWS	The simplest connection between your Exchange server and Avaya Messaging.
11	Exchange without EWS	A connection between Exchange and Avaya Messaging for legacy systems.
12	Exchange 2010	A connection between Exchange 2010 and Avaya Messaging.
13	Office 365 using Graph	Setup the latest high security integration procedures for maximum data integrity.
14	Office 365 using EWS	Quick connection between your O365 server and Avaya Messaging.

# Introduction

This configuration note describes the implementation of unified messaging between Office 365 and Avaya's Avaya Messaging using Microsoft Graph as an alternative for Microsoft's Exchange Web Services.

**Warning**: The instructions found in this guide cannot be guaranteed to work for all installations since each site is unique. Some problems may arise even if you follow these instructions precisely. Therefore, use this document as a reference for your own configuration, making the changes appropriate to your site's specific requirements.

**Note**: This document describes the standard configuration for the integration of Avaya Messaging with Microsoft Office 365. For a high security connection, such as for sites requiring JITC compliance, please contact your vendor to purchase Professional Services support.

# Pre-requisites

The following preliminary steps must be completed before the integration can begin:

- The Office 365 domain has been setup and deployed (requires Mid-size Business and Enterprise plan minimum, E1 or E3).
- You must have administrative access to the Office 365 domain.
- Avaya Messaging Server installed and running (refer to Avaya's documentation web site).

# Connecting Through Microsoft Graph

As an option, Avaya Messaging can be connected to Office 365 using Microsoft Graph. This adds an additional layer of security to your communication traffic flows.

**Warning**: This section contains advanced concepts and programming steps that could adversely affect operations if handled incorrectly. Read through these instruction thoroughly before proceeding. If you are not confident to follow these instructions adequately, do not continue.

 Open a web browser and go to the Office 365 site at <u>https://www.office.com</u>. Click Sign in and login using your Office 365 administrator account credentials. Click Next when ready.

Microsoft		
Sign in		
kat_barnes@erbmusic.	com	
No account? Create one!		
Can't access your account?		
	Back	Next

2. On the Office365 home page, click Admin.

P My Content	Good morning			
Admin	Quick access			
	All C Recently opened	8 Shared	☆ Favorites	+

3. In the left-hand panel (Show All), under Admin centers, select Azure Active Directory. The Azure dashboard will appear.



4. Open Azure Active Directory and select App registrations.

Azure Active Directory admin	center
«	Dashboard >
🖾 Dashboard	TRAR Solutions   C
E All services	Azure Active Directory
* FAVORITES	
Azure Active Directory	<ol> <li>Overview</li> </ol>
🚨 Users	Preview features
III Enterprise applications	🗙 Diagnose and solve problems
	Manage
	🚨 Users
	A Groups
	External Identities
	2 Roles and administrators
	Administrative units
	Enterprise applications
	Devices
	App registrations

5. Click New registration.



6. Provide a name for the registration. Enable **Accounts in this organizational directory only**. A redirect URI is not required. Click **Register**.

	Esna Technologies Inc App registrations > Register an application
Register a	application
* Name	
The user-facir	display name for this application (this can be changed later).
Office365 C	nnection
Supported	account types
Who can use	nis application or access this API?
<ul> <li>Accounts</li> </ul>	n this organizational directory only (ERB Music only - Single tenant)
Accounts	n any organizational directory (Any Azure AD directory - Multitenant)
Accounts	n any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, >
Help me choo	e
Redirect L	RI (optional)
	e authentication response to this URI after successfully authenticating the user. Providing this now is optional and it is but a value is required for most authentication scenarios.
j	

7. Record the value for **Application (client) ID**. This will become part of the username when configuring Feature Group access within Avaya Messaging.



8. To configure the permissions for the application, click API permissions > Add a permission.



9. Under Microsft APIs, select Microsoft Graph.



#### **10.** Choose Application permissions.

Request API permissions	>
C All APIs Microsoft Graph <a href="https://graph.microsoft.com/">https://graph.microsoft.com/</a> Docs ♂	
What type of permissions does your application require?	
Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.

- **11.** Under **Application Permissions**, enable:
  - Calendars.ReadWrite
  - Contacts.ReadWrite
  - Mail.Read
  - Mail.ReadWrite
  - Mail.Send
    - Click Add permissions.

All APIs	
ficrosoft Graph ttps://graph.microsoft.com/ Docs 🔀	
/hat type of permissions does your application require?	
Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
elect permissions	expand a
Type to search	
PERMISSION	ADMIN CONSENT REQUIRED
<ul> <li>Account fueriese</li> </ul>	
#dministrativalinit	
▼ Calendars	
Calendars.Read Read calendars in all mailboxes 👩	Ves
Calendars.ReadWrite Read and write calendars in all mailboxes 👩	Yes
= Calls	
▼ Contacts (1)	
Contacts.Read Read contacts in all mailboxes	Yes
Contacts.ReadWrite Read and write contacts in all mailboxes ()	Yes
* SelegatedPermissionEcent	
▼ Mail (3)	
Mail.Read Read mail in all mailboxes 👔	Yes
☐ Mail.ReadBasic Read basic mail in all mailboxes <b>⊕</b>	Yes
□ Mail.ReadBasic.All Read basic mail in all mailboxes ⊕	Yes
Mail.ReadWrite Read and write mail in all mailboxes 🕦	Yes
Mail.Send Send mail as any user 👔	Yes
· mentar	

**Note**: The permissions that are required are based upon each site's requirements. For example, if Calendar or Contact synchronization is not necessary, then those permissions can be left out.

**12.** While logged in with an account with Global Admin/Privileged Role Administrators, enable Grant admin consent for your company.

Add a permission	<ul> <li>Grant ad</li> </ul>	min consent for		
API / Permissions n	Туре	Description	Admin consent req	Status
✓ Microsoft Graph (6)				
Calendars.ReadWri	Application	Read and write calendars in	Yes	Not granted for TMA So,
Contacts.ReadWrit	Application	Read and write contacts in	Yes	🛕 Not granted for TMA So,
Mail.Read	Application	Read mail in all mailboxes	Yes	Not granted for TMA So
Mail.ReadWrite	Application	Read and write mail in all m	Yes	▲ Not granted for TMA So.
Mail.Send	Application	Send mail as any user	Yes	A Not granted for TMA So

**13.** Ensure that all of the Status indicators are green for the permissions you just added. If not, delete them and start again.

Calendars.ReadWri	Application	Read and write calendars in	Yes	Granted for TM
Contacts.ReadWrit	Application	Read and write contacts in	Yes	Granted for TMA
Mail.Read	Application	Read mail in all mailboxes	Yes	Sranted for TMA
Mail.ReadWrite	Application	Read and write mail in all m	Yes	Sranted for TMA
Mail.Send	Application	Send mail as any user	Yes	Granted for TMA

#### 14. Open Certificates & secrets and select New client secret.

Ma	nage	Application r	anistration cartificator is	arrate and fadara	tad cradantials can l	be found in the tabs below.
	Branding & properties		egisti otion certificates, s	creis and redera	teo creoentiais can i	be round in the tabs below.
Э	Authentication	Certificates (0)	Client secrets (0)	Federated o	redentials (0)	
۲.	Certificates & secrets					
111	Token configuration	A secret string that password.	it the application uses	to prove its ider	ntity when request	ing a token. Also can be referred to as application
÷	API permissions	+ New client s	ecret			
۵	Expose an API	Description		ires	Value ①	Secret ID
114	App roles				Value	JUICID
24	Owners	No client secrets h	have been created for t	his application.		
۵.	Roles and administrators					

15. Give the Secret a meaningful description. Choose when the Secret should expire. When ready, click Add.

Add a client secret		×
Description	CSE	
Expires	Recommended: 6 months	~
	Recommended: 6 months	
	3 months	
	12 months	
	18 months	
	24 months	
	Custom	

Important: Once a Secret expires, synchronization will no longer function until a new Secret is created.

**16.** Record the **Value** associated with the Secret. This is the password required when configuring the Feature Group in Avaya Messaging.

Certificates (0)	Client secrets (1)	Federated	d credentials (0)			
A secret string that password.	at the application uses t	to prove its i	dentity when requesting a token	. Also can be referred to as applica	tion	
+ New client s	ecret			_		
Description	Exp	ires	Value 🛈	Secret ID		
CSE	5/3	1/2024	idU*************	Westill War (198) also	D	١

17. In Avaya Messaging Admin, add a new TSE IMAP server, and include the Office 365 server information.

IMAP Server Name: Enter a name for this connection (e.g. OfficeMail365).

IMAP Server Address: Type in ews:outlook.office365.com.

IMAP Server Port: Set to 993 to enable SSL connectivity.

Voice Format: Select MPEG-1 Audio Layer 3 (MP3) for client playback.

Click **OK** when ready.



- Go to the Feature Group > Synchronization Options tab. Under IMAP Settings, configure:
  - **IMAP Account**: Enter your corporate Office 365 domain name, a forward slash, then the **Application (client) ID** recorded in step 7.

(e.g. yourcompany.com/ab12cde3-45f6-789a-bc0d-1234ef567890).

• Account / Confirm Password: Enter the Client Secret Value recorded in step 16.

(e.g. :]Ab=c1dEfGhijKlmno?pQRS2tUv3WX4)

- IMAP Server: From the dropdown menu, select the correct Office365 server. For example: OfficeMail365.
- Synchronization Settings: Enable all of the items that you want to have synchronized between servers.
- **Calendar Mode**: If calendar synchronization is required, select **Sync with Mail Server Calendar** from the dropdown menu. Otherwise, select **None**.

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( ) N			
ptions <u>N</u> otification (	Options   Iransfer Op	ptions   Transfe	r Ty
age Options Synchron	ization Options	roperties Speech	Op
ilt Users			
softwaretestingvietna	Calendar Mode	Sync with Mail S	•
******************	Max Connections	100	_
****************	Max No Of Logons	25	_
OfficeMail365 💌	Send URL	Fax	•
e Settings			
	Password	******	_
e 💌	Confirm Password	NNNNNNN	
ngs			
	Sync priority	Medium	•
	Msgs per Sync Cycle	10	
	TSE Location		
	ptions Notification ( age Options Synchron	ptions Notification Options Iransfer Op age Options Synchronization Options OID P III Users softwaretestingvietn: Calendar Mode second Stream Max Connections Max No Of Logons OfficeMail365 Send URL e Settings Password se Confirm Password ngs Sync priority Msgs per Sync Cycle	ptions Notification Options Iransfer Options Transfer age Options Synchronization Options OID Properties Speech alt Users softwaretestingvieth: Calendar Mode Sync with Mail S softwaretestingvieth: Calendar Mode Sync with Mail S softwaretestingvieth: Max Connections 100 soccesses OfficeMail365 Second Max No Of Logons 25 OfficeMail365 Second Research second Second S

**Note**: The settings for the Office 365 connection through Graph can only be made to Feature Groups. These settings cannot be made at the mailbox level.

The configuration is complete.

# User Configurations

1. Open Mailbox > Advanced and enter your Office365 Account under Domain Account Name.

🕀 🌒 🗙 🔚 🚺 🕨 🖣	► H 🗎 💼	-8	
ynchronization Options   Locati		otions   <u>S</u> peecl	
eneral Advanced Mailbox Op	tions   Iransfer Uption:	s   <u>M</u> essage Up	tions   <u>N</u> otification   A <u>d</u> dre
50	in this sector.		
5	an i support		
Personal Operator		Q. 00	🔽 Web Client User
Operator Phone Number			
D.I.D Trunk			
Customize TUI		· ···	
Voice Menu	Í		
Collect Geo Location Data			
Domain Account Name	uc16@softwaretestin	gvietnam.cc	Distribution Lists
Desktop Capabilities	Advanced	•	Folders
Date Format	MANYMMDD	•	Directory Listing
PBX Node		•	Workgroup
Web Access Inactivity Timeout	0		
	3		
- 2. On the Synchronization Options tab:
  - Enable Use Feature Group settings for IMAP
  - **User Name**: Enter you Office365 account.
  - **Storage Mode**: Set this to **Synchronization**.
  - Voice Format: Choose Default.
  - **E-mail**: Enter you Office365 email address.

	H H F	H 🗎	8 3		
			IMAP Locked		•
Password			Storage Mode	Synchronization	•
m Password			Voice Format	Default	•
Server		Ŧ	E-mail	uc16@softwaretes	stingvi
		M	Update Mes	ssage Status From	***
	vanced   M ion Options se Feature ( Name Password m Password 'Server t Synchroniz	vanced   Mailbox Options   ion Options   Locations   se Feature Group settings for Name uc16@software Password   'Server   t Synchronization Time	vanced   Mailbox Options   Iransfer O ion Options   Locations   Be-route C se Feature Group settings for IMAP Name   uc16@softwaretestingvi Password   Server Server Server Server	vanced   Majbox Options   Iransfer Options   Message ( ion Options   Locations   Beroute CTI Options   Special se Feature Group settings for IMAP   IMAP Locked Name uc16@softwaretestingvi IMAP Language Password Storage Mode m Password Voice Format 'Server E-mail t Synchronization Time	vanced   Mailbox Options   Iransfer Options   Message Options   Notification ion Options   Locations   Be-route CTI Options   Speech Options   Land se Feature Group settings for IMAP   IMAP Locked Name uc16@softwaretestingvi IMAP Language Password Storage Mode Synchronization Im Password Voice Format Default 'Server

#### Reconfiguring Synchronization Components for Graph

Once the installation has been completed, modify the system configuration files to use EWS instead of IMAP. This should be done on all servers running CSE: The voice server in a single server environment, the Consolidated server under HA, and all remote CSE servers operating.

**Note**: The **CSE.exe.config** file is used with message synchronization, while the **CSE.PIM.exe.config** is used for contact and calendar synchronization.

1. Open the UC/UCCSE folder on the program installation drive.

	Name	Date modified	Туре
🖈 Quick access			
🔲 Desktop 🛛 🖈	LDAP	4/15/2022 12:50 AM	File folder
🕹 Downloads 🛛 🖈	Licenses	4/15/2022 12:50 AM	File folder
	Logs	6/7/2022 3:18 PM	File folder
	Messages	4/15/2022 12:50 AM	File folder
Pictures 🖈	Prompts	4/15/2022 12:55 AM	File folder
1-71289	RemoteAdmin	4/15/2022 12:50 AM	File folder
1-71289	Resources	4/15/2022 12:58 AM	File folder
CSE	SelfService	4/15/2022 12:50 AM	File folder
CSE.PIM	SMS	4/15/2022 12:50 AM	File folder
CSELFIN	SNMP	4/15/2022 12:57 AM	File folder
🞐 This PC	SRM	4/18/2022 9:40 AM	File folder
DVD Drive (E:) VMwai	SSO SSO	6/7/2022 3:08 PM	File folder
DVD Drive (E:) Viviwal	Sybase	4/15/2022 12:55 AM	File folder
Local Disk (D:)	Temp	5/23/2022 6:11 PM	File folder
Cert	L UC	4/15/2022 12:56 AM	File folder
Download	UCCSE	4/22/2022 9:40 PM	File folder
Mitel	UCFSP	4/15/2022 12:47 AM	File folder
	UCLicense	4/15/2022 12:57 AM	File folder
sxs_2022	UCOAuth2	4/15/2022 12:50 AM	File folder
Sybase	UCReportService	4/15/2022 12:57 AM	File folder
UC	UCSSL	4/15/2022 12:50 AM	File folder

2. Within the folder, open the **CSE.exe.config** file in a text editor such as NotePad.

CSE.Base	2/4/2022 2:54 PM	DLL File
CSE.CFG	2/4/2022 2:54 PM	DLL File
CSE,DBO	1/28/2021 3:34 PM	Application
CSE.DBO.exe	12/17/2014 12:17 PM	CONFIG File
CSE.EAPI	2/4/2022 2:54 PM	DLL File
CSE.EWSI	2/4/2022 2:54 PM	DLL File
CSE	2/4/2022 2:54 PM	Application
CSE.exe	5/31/2022.10:57 AM	CONFIG File

3. Scroll down to find the following lines (UseEWSGraph):

```
<setting name="UseEWSGraph" serializeAs="String">
<value>False</value>
</setting>
```



Verify that the **Value** is set to **True**. If the value is not True, change it and save the file.

<setting name="UseEWSGraph" serializeAs="String">

<value>**True**</value>

</setting>

4. Within the UCCSE folder, open the **CSE.PIM.exe.config** file in a text editor such as NotePad.

) CSE.PIM.exe	5/30/2022 6:26 PM	CONFIG File
CSE.PIM	2/4/2022 2:54 PM	Application
CSE.NET	2/4/2022 2:54 PM	DLL File
CSE.MSGR	2/4/2022 2:54 PM	DLL File
CSEIMAPI	2/4/2022 2:34 PM	DLL FIIE

5. Scroll down to find the following lines (UseEWSGraph):



Verify that the **Value** is set to **True**. If the value is not True, change it and save the file.

<setting name="UseEWSGraph" serializeas="String"></setting>
<value><b>True</b></value>

**IMPORTANT**: If your network is setup behind a proxy server, make sure that Avaya Messaging resolves correctly and can reach these addresses: **outlook.office365.com**, **login.windows.net** (for authentication), **login.microsoftonline.com** (for authentication), and **graph.microsoft.com** (for getting API).

#### **Restart Services**

Before continuing, stop and restart the following services:

- UC Content Synchronization Engine
- UC CSE PIM Synchronization Engine

This will force Avaya Messaging to immediately update its systems. Otherwise, there will be a delay before the changes become active.

#### Note After Upgrading or Updating

Whenever Avaya Messaging is updated from an earlier version, it is important to check the settings configured above. During the update, these values will be overwritten with the default program settings.

Repeat the steps given above to configure the software for use with MS Graph.

## 14

## AVAYA MESSAGING TO OFFICE 365 INTEGRATION WITH EWS

## In This Chapter:

- 186 Guidelines
- 186 Introduction
- 186 Pre-requisites
- 187 Office 365 Configuration
- 187 Web Interface Configuration
- 194 Avaya Avaya Messaging Server
- 194 Server Configuration
- 196 Connecting Through EWS Using OAuth 2.0
- 204 Verify Configuration Setting

#### Guidelines

Depending upon your site's requirements and software, you have the option to integrate Avaya Messaging with several email systems. None of these are required. Where appropriate, refer to the chapter that best suites your requirements.

CHAPTER	INTEGRATION	WHY YOU WANT IT
9	Google	Creates a secure connection through OAuth2 to your Gmail and Google Apps accounts.
10	Exchange using EWS	The simplest connection between your Exchange server and Avaya Messaging.
11	Exchange without EWS	A connection between Exchange and Avaya Messaging for legacy systems.
12	Exchange 2010	A connection between Exchange 2010 and Avaya Messaging.
13	Office 365 using Graph	Setup the latest high security integration procedures for maximum data integrity.
14	Office 365 using EWS	Quick connection between your O365 server and Avaya Messaging.

#### Introduction

This configuration note describes the implementation of unified messaging between Office 365 and Avaya's Avaya Messaging.

**Warning**: The instructions found in this guide cannot be guaranteed to work for all installations since each site is unique. Some problems may arise even if you follow these instructions precisely. Therefore, use this document as a reference for your own configuration, making the changes appropriate to your site's specific requirements.

**Note**: This document describes the standard configuration for the integration of Avaya Messaging with Microsoft Office 365. For a high security connection, such as for sites requiring JITC compliance, please contact your vendor to purchase Professional Services support.

#### Pre-requisites

The following preliminary steps must be completed before the integration can begin:

- The Office 365 domain has been setup and deployed (requires Midsize Business and Enterprise plan minimum, E1 or E3).
- Avaya Messaging Server installed and running (refer to Avaya's documentation web site), either in a single server configuration, or in a High Availability environment (1 Consolidated server, 1 Primary server, 1+ Secondary servers).

## Office 365 Configuration

#### Web Interface Configuration

1. Log into the Office 365 Administration interface through a web browser at https://login.microsoftonline.com/ or similar as setup by your administrator.

#### Click Admin.

e 365	Ser .	O Search				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
d aftern	oon						Install Office \vee
+ new ∨ ⊂C		OneDrive	Word	Excel	PowerPoint	OneNote	SharePoint
			Power	A			
	⊢ new∨ C	nd afternoon 	new – Outlook OneDrive	new – Outlook OneDrive Word	new V Outlook OneDrive Word Excel	new V Outlook OneDrive Word Excel PowerPoint	new – Outlook OneDrive Word Excel PowerPoint OneNote

2. Under User Management, select Add User.

	Microsoft 365 admin cen	ter		
≡			$  ho $ Search users, groups, settings or tasks $ +$ Add card $   \mathcal{J} $ Dark mode	多 What's new?
ඛ	Home		Essentials	
8	Users	$\sim$		
RR	Groups	$\sim$	User management	
	Billing	$\sim$	User management	
Þ	Setup		Add, edit, and remove user accounts, and reset passwords.	
0	Customize navigation			
	Show all			
			Add user Edit user Reset password Delete user	

3. Enter a first and last name, display name, the **username** and **password** for the superuser (service) account.

#### Click Next.

Set up the basics			
To get started, fill out some basic informatic	on ab	out who you're adding as a user.	
First name		Last name	
Super		User	
Display name *			
Super User			
Username *			
administrator	@	yourcompany.onmicrosoft.com	$\sim$
Password settings			
Auto-generate password			
Let me create the password			
Password *			
			Strong
Require this user to change their passw     Send password in email upon completion		when they first sign in	
Next			

4. Set the user's geographic location on the dropdown list. Under Assign a Product License, select Office 365 E3.

When ready, click **Next**.

Select I Cana	ocation * da V
Licenses	5 (4)
Ass	ign user a product license
	<b>Dynamics 365 P1 Trial for Information Workers</b> 9999 of 10000 licenses available
	Microsoft PowerApps Plan 2 Trial 9999 of 10000 licenses available
	Microsoft Teams Commercial Cloud (User Initiated) Unlimited licenses available
> <	Office 365 E3 3 of 25 licenses available
$\smile$	ate user without product license (not recommended)
	y may have limited or no access to Office 365 until you assign a product nse.
Apps (2	

**Note**: A license must be available on your system for you add this user. If all licenses are already in use, delete one, or purchase additional licenses for this user.

5. Make no changes here, and click **Next**.

Optional settings	
You can choose what role you'd like to assign for this user, and information.	fill in additional profile
Roles (User: no administration access)	~
Profile info	~
Back Next	

6. Review the user settings. If everything is correct, click **Finish adding**. If some elements need to change, click the Edit link beneath the incorrect item.

You're almost done - review and finish adding
Assigned Settings
Review all the info and settings for this user before you finish adding them.
Display and username
Super User
administrator@yourcompany.onmicrosoft.com
Edit
Password
Type: Custom password
Edit
Product licenses
Office 365 E3
Edit
Roles (default)
User (no admin center access)
Edit
Back Finish adding

7. The user has been created. Click **Close**.

nis new c	iser will now appear in your list of active users.
Jser deta	ils
isplay na	ame: Super User
sername	: administrator@yourcompany.onmicrosoft.com
assword:	******** Show
Save	these user settings as a template?
User	templates allow you to quickly add similar users in the future by saving a set
	ared settings such as domain, password, product licenses, and roles.
Revie	ew settings for this user template or view all your user templates
Nam	e your template *
Ex:	FTE Senior Engineer, New York
Add	a description (recommended)
Ex:	Template for full-time senior engineers in New York office
C	ave as template
0	

8. In the left-hand panel (Show All), under Admin centers, select All Admin Centers. From the list of applications, click Exchange.



9. Select **Permissions** in the left-hand pane. Click **New** -.

Exchange admin cer	nter
dashboard	admin roles user roles Outlook Web App policie
recipients	
permissions	(+) ∕ 前 № 2 3
compliance management	NAME
organization	Regard advanting of a station Compliance Wan against 6
protection	Class Compliance Management

**10.** Give the Role a name (a Description is optional). Beside **Roles**, click **Add** +.

	new role group	
	*Name: O365Permissions	
	Description:	
	Write scope: Default Roles:	<b></b>
	▶ <b>+</b> —	A
<b></b> >	Members:	
	NAME	DISPLAY NAME
	Sa	ve Cancel

**11.** Select **ApplicationImpersonation** and click **add** ->. Click **OK**.

DISPLAY NAME	•	
 Address Lists	-	ApplicationImpersonation
ApplicationImpersonation		Applicationimpersonation
 ArchiveApplication		This role enables applications to impersonate
 Audit Logs		users in an organization in order to perform tasks on behalf of the user.
 Compliance Admin		
 Data Loss Prevention		Default recipient scope
 Distribution Groups		Organization
 E-Mail Address Policies		
 Federated Sharing		Default configuration scope
 Information Rights Management		None
 Journaling		
 Lenal Hold	•	
 1 selected of 55 total		
add -> ApplicationImpersonation[remove];		
		OK Cancel

12. Below Members, click Add +. Locate the account you just created, select it and click add ->. Click OK.

- F	admin				×
	NAME		*	DISPLAY NAME	
	ExchConnector			IXMWizard	
			0 selecter	d of 1 total	
	add ->	ExchConnector [remove];			
					OK Cancel

**13.** Returning to the **new role group** pane, click **Save**.

- I	new role group	
	*Name: O365Permissions	
	Description:	
	Write scope:	τ
	Roles: + - NAME	A
	<ul> <li>ApplicationImpersonation</li> </ul>	
	Members:	
		ISPLAY NAME
	ExchConnector E	XMWizard
	Save	Cancel

**14.** Confirm that the new role appears in the list.

Exchange admin cen	iter	
dashboard	admin roles user roles Outlook Web App policies	
permissions	+ / 亩 凾 ዖ 3	
compliance management	NAME	*
organization	Compliance Wanagement	
protection	O365Permissions	
mail flow	Receipter Warragement	

The new account has been created.

#### Avaya Avaya Messaging Server

#### Server Configuration

1. In Avaya Messaging Admin, add a new TSE IMAP server, and include the Office 365 server information.

IMAP Server Name: Enter a name for this connection (e.g. OfficeMail365).

IMAP Server Address: Type in ews:outlook.office365.com.

IMAP Server Port: Set to 993 to enable SSL connectivity.

Voice Format: Select MPEG-1 Audio Layer 3 (MP3) for client playback.

Click **OK** when ready.

TSE IMAP Server		? ×
4 ×		
IMAP Server Name	OfficeMail365	
IMAP Server Address	ews:outlook.office365.com	
IMAP Server Port	993	
Voice Format	MPEG-1 Audio Layer 📃 💌	
	<u> </u>	
		_

 Once the TSE IMAP Server entry has been created, go to Feature Group > Synchronization Options and modify the Office 365 user mailboxes as follows:

**IMAP Account**: Enter the user/service account created in <u>step 3</u> above. Include the complete user@domain.com (e.g. **administrator@yourcompany.onmicrosoft.com**).

Account / Confirm Password: Enter the super user/service account password from step 3.

IMAP Server: Type in the name of the IMAP TSE Server created in the previous step (e.g. OfficeMail365).

**Calendar Mode**: If calendar synchronization is required, select **Sync with Mail Server Calendar** from the dropdown menu. Otherwise, select **None**.

**Synchronization Settings**: Set these options to specify which information will be synchronized between servers.

<mark>浸 Feature Group</mark> Eeature Group ⊕ X 🔛 🕅 14 4	N N I		? 2
Eeneral Storage Options Mailbox Options Message Q	ptions Synchroniz		Dptions Transfer Types Properties Speech Options
Account Password	Iministrator@yourc	Calendar Mode Max Connections Max No Of Logons Send URL	Sync with Mail S 💌 5 5 None 💌
Synchronization Setti Imbox folder Call History System folders Custom folders Contacts	Syn Msg TSE	ic priority M gs per Sync Cycle 10 E Location Update Message Sta	

3. Ensure that individual mailboxes are configured under Mailbox > Synchronization Options with their User Name (e.g. test1@here.yourdomain.com), and that Use Feature Group settings for IMAP is enabled Set Storage Mode to Synchronization.

			ransfer Options	dessage Options   Add ch Options   Language C
1	🥵 1: John	Smith		
	Use Feature G	roup settings for IMAP	IMAP Looked	
	User Name	test1@here.yourdomain.	IMAP Language	English
	User Password		Storage Mode	Synchronization
	Confirm Password		Voice Format	Default 💌
	IMAP Server	•	E-mail	1@127.0.0.1
	- Last Synchroniza	ation Time		
	Inbox		🔲 Update Mes	
	Contacts			
	Calendar		ļ	

#### Connecting Through EWS Using OAuth 2.0

As an option, Avaya Messaging can be connected to Office 365 using Exchange Web Services. This can add an additional layer of security to your communication traffic flows. This section is not required.

**Warning**: This section contains advanced concepts and programming steps that could adversely affect operations if handled incorrectly. Read through these instruction thoroughly before proceeding. If you are not confident to follow these instructions adequately, do not continue.

**Note**: You must have corporate Office 365 and EWS accounts for this configuration.

**Important**: These instructions require a certificate for securing the connections. It is **Strongly** advised that you purchase a certificate from an **Certification Authority (CA)** instead of using self-signed certificates. Both a Public Key and a Private Key certificate file are required.

 Open a web browser and go to the Office 365 site at <u>https://www.office.com</u>. Click Sign in and login using your Office 365 administrator account credentials.



2. Click Admin.



3. In the left-hand panel, open **Admin centers** (Show all) and select **Azure Active Directory**. The Azure dashboard will appear.



4. Click Azure Active Directory > App registrations.

Azure Active Directory admin	center
«	Dashboard > ERB Music
🔲 Dashboard	ERB Music
All services     All services	,○ Search (Ctrl+/)
Azure Active Directory	<ol> <li>Overview</li> </ol>
🛓 Users	🌱 Getting started
Enterprise applications	Preview features
	🗙 Diagnose and solve problems
	Manage
	🚨 Users
	A Groups
	External Identities
	& Roles and administrators
	🙇 Administrative units
	Enterprise applications
	Devices
	App registrations

5. Click New registration.



6. Provide a name for the registration. Enable **Accounts in this organizational directory only**. No redirect URI is required. Click **Register**.

Register an	application
* Name	
The user-facing c	isplay name for this application (this can be changed later).
Office365 Conr	ection
Supported a	ccount types
	application or access this API?
►	nis organizational directory only (ERB Music only - Single tenant)
Accounts in a	ny organizational directory (Any Azure AD directory - Multitenant)
O Accounts in a	ny organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbo
Help me choose.	
Redirect URI	(optional)
	uthentication response to this URI after successfully authenticating the user. Providing this now is optional and it car t a value is required for most authentication scenarios.
changed later, bu	

7. To configure the permissions for the application, click **API permissions > Add a permission**.

,O Search (Ctrl+/)	API permissions	
Overview	Applications are authorized to call APIs when they are granted permissions by users/admins as part of	f
📣 Quickstart	the consent process. The list of configured permissions should include all the permissions the application needs.	
Manage	+ Add a permission	
🚾 Branding	API / PERMISSION TYPE DESCRIPTION ADMIN CO STATUS	
Authentication	These are the permissions that this application requests statically. You may also request user consent	
💡 Certificates & secrets	able permissions dynamically through code. See best practices for requesting permissions	
> API permissions		
Expose an API		

8. Under Select an API, go to the APIs my organization uses tab.

Request API p	ermissions		
elect an API			
Microsoft APIs APIs	my organization uses My APIs		
Apps in your directory th	at expose APIs are shown below		
Apps in your directory th			
		Application (client) ID	
♀ Start typing an API n		Application (client) ID	

9. Find and select Office 365 Exchange Online.

Request API permissions	×
Select an API	
Microsoft APIs APIs my organization uses My APIs	
Apps in your directory that expose APIs are shown below	
ho office	
Name	Application (client) ID
Office 365 Enterprise Insights	f9d02341-e7aa-456d-926d-4a0ca599fbee
Office 365 Exchange Online	00000002-0000-0ff1-ce00-000000000000
Office 365 Information Protection	2f3f02c9-5679-4a5c-a605-0de55b07d135
Office 365 Management APIs	c5393580-f805-4401-95e8-94b7a6ef2fc2

#### **10.** Click **Application permissions**.

C All APIs Office 365 Exchange Online https://ps.outlook.com What type of permissions does your application require?	
Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.

11. Enable full\_access\_as\_app. Click Add permissions.

Type to search Permission	Admin Concont Rog
Permission	Admin Consent Req
▶ ☑ full_access_as_app Use Exchange Web Services with full access to all mailboxes ①	Yes
> Calendars	
> Contacts	
> Mailbox	
> MailboxSettings	
> Mail	
> Place	
> Tasks	
> User	

12. Wait 2-5 minutes for the updates to propagate through the system, then click Grant admin consent for....



**13.** If the configuration was a success, a pop-up will appear in the upper right corner of the window.



 From the Office 365 dashboard, open Azure Active Directory > App registrations. Click the application just created.

Azure Active Directory admi	in center	tip _ @ ? ©
\$	Company Inc App representation of the second	gistrations
Dashboard	Your Company Inc App Azure Active Directory	p registrations
All services		+ New registration 🌐 Endpoints 🤌 Troubleshooting 🛛 🛇 Got feedback?
Azure Active Directory	<ol> <li>Overview</li> </ol>	Start typing a name or Application ID to filter these results
L Users	🚀 Getting started	C107ex13 43feet)43-5d87-46e6 11/20/2019 -
Enterprise applications	🗙 Diagnose and solve problems	ort Office363 Connection 90533396-2254-4861, 11/21/2019 O Current
	Manage	🐲 Sultan text for doc ver Bittabe0-3b12-4d91 11/21/2019 🧔 Current
	🚨 Users	en Enrichumfeit 2/70688c-2(18-48a2-a., 12/2/2019 O Current
	A Groups	S Test 32#a4260-3ec9-450-a., 12/4/2019 -
	Organizational relationships	R REER Todebf36-afbb-4b1d 12/4/2019 -
	Roles and administrators	<ul> <li>InvFsab-Texts feotose-teto-ka01 12/5/2019 Ocurrent</li> </ul>
	Enterprise applications	🗤 EquincixCalendarSync 1e481889-850c-8c8c-5., 12/6/2019 🥥 Current
	Devices	Office38555reph attrative35424-4756-a. 12:4/2019 Ocurrent
	> 📖 App registrations	Office365 Connection 12a34bc5-67de-890f-1 12/10/2019
	(a) Identity Governance	

15. Copy the Application (client) ID.

	Celete (Celete) Endpoints	
R Overview	Display name Office365 Connection	Supported account types My organization only
Quickstart	Application (client) ID 12a34bc5-67de-890f-12a3-4b56c7de89f0	Redirect URIs Add a Redirect URI
Manage	Directory (tenant) ID 9fedc876-54ba-3fed-cbaf-e210dc9b8af	Application ID URI Add an Application ID URI
🔤 Branding	Object ID	Managed application in local directory
Authentication	abc1de2f-a345-6789-bcd0-12345e6f78ab	Office365 Connection

**16.** You will have received 2 certificate files from the Certifying Authority: one is a Public Key, the other is a Private key.

Rename the **Private** key. Change the extension to **.p12**. Replace the name of the file with the **Application (client) ID** value recorded in step 15.

#### For example: 0a987b654cd32.pfx ----> 12a34bc5-67de-890f-12a3-4b56c7de89f0.p12

Copy this file into both the **UC/UCCSE** and the **UC/IMAPTSE** folders on the IX Messaging voice server. For a site using High Availability, copy the file to the same folders on the Consolidated Server, and on all Remote CSE servers.

Rename the **Public** key. Change the extension to .cer .

```
For example: 2a345678bc906d78.pfx ----> 2a345678bc906d78.cer
```

#### 17. Click Certificates & secrets in the left-hand pane. Select Upload certificate.

office365 Connection - Co	ertificates & secrets			\$ ×
	receiving tokens at a wel	cations to identify themselve b addressable location (usin commend using a certificate	g an HTTPS scheme). For a	higher
	Certificates			
Manage		as secrets to prove the appl	ication's identity when requ	uesting a
🚍 Branding	token. Also can be referr	ed to as public keys.		
Authentication	→ Upload certificate			
Certificates & secrets	No certificates have been	n added for this application		
-> API permissions	Thumbprint	Start Date	Expires	
🙆 Expose an API	•			
<ul> <li>Owners</li> <li>Roles and administrators (Previ</li> <li>Manifest</li> </ul>	Client secrets A secret string that the a Also can be referred to a	pplication uses to prove its s application password.	identity when requesting a	token.
Support + Troubleshooting	+ New client secret			
7 Troubleshooting	Description	Expires	Value	
New support request	No client secrets have be	een created for this applicat	ion.	

#### **18.** Click Browse and select the **Public** certificate file on your drive. It is the one with the **.cer** extension. Click **Add**.

Upload certi	ficate
Upload a certi	ficate (public key) with one of the following file types: .cer, .pem, .crt
2a345678bc90	06d78.cer
Add	Cancel

**19.** Open UC Admin on the Voice Server. Go to the **Feature Group > Synchronization Options** tab. Under **IMAP Settings**, configure:

**IMAP Account**: Enter your corporate Office 365 domain, a forward slash, then the **Application (client) ID**. (e.g. **yourcompanydomain.com/12a34bc5-67de-890f-12a3-4b56c7de89f0**).

**Account / Confirm Password**: Type in the password used to secure the .p12 certificate file. **IMAP Server**: Enter the name of your IMAP server.

Avaya Messaging Grice PBX Grice PBX Real Music Restrue Group Remote Site Routing Table Site Rende Voice Menu Site Customize TUI Print Server Print Server Print Server Print Server Print Server Speaker's Corner TSE IMAP Server Site Server Voice Server Configuration	Group Name Default Users ure Group Aeneral Storage Op ablow Options Messag <b>1: Defaul</b> IMAP Settings IMAP Account Account Password Confirm Password	tions <u>N</u> otification		Dptions   T_fansf Properties   Speec   None   100   25
	IMAP Server Message Sync Source Account Message Sync Source Synchronization Settin ↓ Inbox folder ↓ Call History ↓ System folders ↓ Custom folders ↓ Custom folders ↓ Custom folders	domain.com/12a34	Send URL Password Confirm Password Sync priority Msgs per Sync Cycle 1 TSE Location	None

When ready, click **Save**.

**20.** In UC Admin, open **Mailbox Structure**. Open a person's mailbox that will use this configuration. Go to the Synchronization Options tab.

Enable **Use Feature Group settings for IMAP**. Type in the **User Name** for this account. For **Storage Mode**, select **Synchronization**.

M	ailbox				
33					
	General Advanced Synchronization Option			Message Options   ch Options   Langu	A <u>d</u> dresse age Optio
	🧟 1: John	Smith			
	🗩 🔽 Use Feature I	Group settings for IMAP	IMAP Locked		
	User Name	jsmith@yourcompany.c	IMAP Language	English	-
	User Password		Storage Mode	Synchronization	-
	Confirm Password	1	Voice Format	Default	•
	IMAP Server	-	E-mail	1@127.0.0.1	
	Last Synchronic	zation Time		ssage Status From	
	Contacts		D update Me.	augo a tatus From	
	Calendar				
	Calendar				

When ready, click **Save**.

The configuration is complete.

#### Verify Configuration Setting

Once the installation has been completed, verify that the system is configured to use EWS instead of IMAP.

1. On a **Single Server** Installation, open the **UC/UCCSE** folder on the program installation drive. For **HA** installations, this file is found on the **Consolidated** server in the same folder.

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	1 UCBusinen/Fast	2/12/2019 8-41 444	File Sublin	
	UCCSE	2/12/2019 8:46 AM	File folder	

2. Within the folder, open the CSE.exe.config file in a text editor such as NotePad.

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👉 Faurritan	Name	Date modified	Туре	Size	
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2 Decumento	RI CILese	2/6/02/19 6:54 PM	Application	15.63	
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3. Scroll down to find the following lines:

```
<setting name="UseEWSIMAP" serializeAs="String">
<value>False</value>
</setting>
```

	CSE.exe.config - Notepad	x
File	Edit Format View Help	
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	(secting new (value) (value) frue(value)	
	<pre><setting name="UseEWSIMAP" serializeas="String"></setting></pre>	
<		>

Verify that the **Value** is set to **False**. If the value is not False, retype the text and save the file to change it to the correct value.

Avaya Messaging to Office 365 Integration with EWS

# 15

## IBM DOMINO INTEGRATION

## In This Chapter:

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- 208 Requirements
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- 209 Setting up IMAP CSE Synchronization
- 210 Avaya Messaging Configuration: Single User
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#### Introduction

Avaya Messaging and a IBM Domino server are able to integrate through the IMAPCSE services, providing a truly unified messaging experience. Once the configuration is complete the servers communicate and synchronize all data among themselves, eliminating the need for you to constantly manage multiple locations.

The use of the administrator account from IBM Domino allows you to streamline the sign on process while still maintaining individual password security protocols on each mailbox. The Domino administrator account credentials are entered through the Avaya Messaging Admin console.

#### Visual Guide



Data is synchronized between the UC Server and the Mail Server. Message status and deletions are synchronized almost instantly between the two, creating a single message store for easier management by both the administrators and end users.



Since status is synchronized, message lights on integrated telephone systems will also be accurate no matter where the message is read or received.

In a typical situation, voice messages will be synchronized from the Voice Server to the eMail Server, and email messages will be synchronized from the eMail Server to the Voice Server.

When a voice server integrates with an email server, the data between the two is synchronized, allowing for accurate information regardless of the point of access. Receiving messages, and any actions performed by the users is synchronized between the two servers constantly, ensuring that your content is always up-to-date.

Administrators can also customize what will be synchronized. A full synch includes contact and calendar entries along with messages. If the system has telephone and message light integration, MWI (message waiting lights) will also remain accurate since the status of messages are synchronized between the servers.

#### Requirements

Requirements	Details
License	IMAPCSE License
Software	Officelinx/IX Messaging version 8.5 - 10.9 Avaya Messaging version 11.0 or higher

#### Server Configuration

IBM Domino configuration is largely divided into two parts. First is the configuration of both the Domino server and the Avaya Messaging server to synchronize messages between the mailboxes on both systems. Second is configuring UC forms for IBM Notes so that end users will have the ability to record and playback voice messages from their IBM Notes client. While specific variables regarding settings will differ from site to site, this guide provides a general guideline for integrating IBM Domino with Avaya Messaging.

#### Setting up IMAP CSE Synchronization

To configure IBM Notes for Avaya Messaging users:

- 1. Access the IBM Notes Administrator.
- 2. Under the Domain/People directory, double click **User** and enter a nickname, a user name and an Internet password.
- On the IBM Domino Console, run the following command: Load Convert -m mail\username.nsf \* ucmail.ntf.

**Note:** In the above command, **username** is the IBM mail file, and **ucmail.ntf** is the template into which the forms were installed.

**Note:** Once the forms have been installed and distributed to the users, their inbox will need to be closed and reopened in order for the templates to be refreshed. This needs to be done every time the Master Template is updated.

The following procedure is optional.

To prevent the IBM Window from scrolling while logging in / out in IMAP:

- 1. On the IBM Notes Server, open the **notes.ini** file.
- 2. Set the Log\_Session=1 to 0.
- 3. Click Save, then click Close.

#### Avaya Messaging Configuration: Single User

Note: Configuring Avaya Messaging for use with Superuser credentials is no longer supported.

With this option, Avaya Messaging connects to the IBM Domino server on a mailbox-by-mailbox basis, using each individual client's account credentials for each connection.

It is necessary to establish IMAP CSE connections *before* setting up Unified Messaging.

To begin the setup of your unified messaging you need to create a CSE IMAP connection. The purpose of this connection is to tell the voicemail what IP address it is supposed to connect to in order to connect to your IBM Domino server.

#### To create CSE IMAP connections

1. Login to Avaya Messaging Admin. The following screen appears.

- Locate TSE IMAP Server in the left-hand pane. Right-click and select New > TSE IMAP Server. The following screen appears.
- 3. Complete the following fields:
  - In the IMAP Server Name text field, enter a descriptive name of the server.
  - In the IMAP Server Address text field, enter the Domino server's IP address.

**Note**: If you are using an **SSL** connection, you should use the **server's domain name** (**DNS**) instead of the IP address so that the certificate can be authenticated properly. SSL connections should **always use port 993**.

- Accept the default value in the **IMAP Server Port** field or enter the server port field provided to you by your network Admin.
- Select the Voice Format that your servers will use to handle voice messages.
- In the **IMAP Server Domain** field, enter the domain name of the mail server to avoid looping messages during synchronization. This server address will be cross referenced with the Reply To address of each mailbox.



Note: CSE was formerly known as TSE.

#### Setting Up Unified Messaging (UM)

Mailbox integration is a configuration where each individual user on your Domino server is given their own mailbox on the Avaya Messaging system.

1. Obtain the list of the users you are going to integrate.

**Hint**: Contact your system administrator to verify that the usernames and passwords are correct before proceeding.

- 2. On the voice server machine, open Avaya Messaging Admin.
- 3. Open the Mailbox properties.
- 4. On the **Addresses** tab, verify that the **Reply To** email address is the address of the user's IBM Domino account. Click **Save**.
- 5. Click on the Advanced tab.
- From the Desktop Capabilities dropdown list, select Messaging & Collab.
- 7. Click the Save Mailbox toolbar button.

**Warning**: The following steps must be completed in the specified order.

- 8. Click on the Synchronization Options tab.
- In the User Name field, enter the details of the user's IBM Domino email account. Change all forward slashes / to pipes |, such as: Firstname Lastname | Organizationname

**Note**: Organizationname may include the domain and other information. Separate all fields by a pipe instead of a slash. **any body|ERB|Music|Sales** 

 Basics

 First name:
 any

 Middle name:
 Last name:

 Last name:
 body

 User name:
 any body/ERB/Music/Sales

 any body

**10.** From the **Storage Mode** dropdown list, select **IMAP**.

- **11.** Enter the mailbox Internet password in the **User Password** and **Confirm Password** fields.
- 12. For IMAP Server, select the Domino server.
- 13. Disable the Use Feature Group setting for IMAP checkbox.
- 14. In the IMAP Language field, choose the language of the mailbox. You must make a choice in this field.
- **15.** Do not use the Message Status feature. Make sure that the **Update Message Status From** checkbox is **not** checked.
- 16. Click on the Save Mailbox toolbar button.
- 17. On the voice server machine, open IMAP Tester.

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	Lindi	10010@cibildalc.com
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Contacts		

- 18. Click on IMAP Synchronization Settings.
- **19.** Click on the **Performance/Tuning** tab.
- **20.** Disable the **High Performance Pack** checkbox.
- **21.** Click **Apply** to save the changes. Exit the utility.
- **22.** Restart the UC TSE Cache Manager service.

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CPU Max usage	Ĵ		
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High Performance Pack			
🗖 Enabled	HPP Threads	13	
Н	PP Delay (ms) 5	000	
Socket options			
Timeout 20000	В	uffer Size 8192	
gging Performance/Tuning	Database Others R	ecommendation	
	Apply		

#### Installing UC Forms for IBM Notes

This section describes the installation and configuration of UC forms for IBM clients. UC forms components are packaged in the **UCMail.ntf** IBM template database, which can be found on the installation DVD. The UCMail template contains the following:

- UC Player subform that can be used to extend other forms with an audio player/recorder.
- A subform to indicate the location of iLink Pro Desktop installation file.
- Modified versions of Memo, Reply, and Reply with History forms with UC Player subform added to each.

There are two methods for installing UC forms onto the server:

- A Use a provided template as the basis for all UC users.
- **B** Copy design elements from a provided templates into another, and modify standard forms to include the UC Player subform. This method allows you to add UC player to existing custom templates.

Regardless of which method is used, the design is made available to the IBM Notes client through a manual design refresh initiated by the client, or by running the designer task on the server. Once the design elements are propagated to the target database, each user is provided with an install button within IBM Notes that allows the installation of binary components on the client PC.

#### Using the Provided Template as Design (Method A)

- 1. Insert the Avaya Messaging Installation DVD.
- Copy the ucmail.ntf from the DVD (located inside IBM folder) and paste it into the Domino Data folder (e.g. C:\Program Files\IBM\IBM\Domino\Data).
- **3.** When you open Domino Administrator, you will notice UC Mail in the list of available templates. Select the template then open it in the **Domino Designer**.

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Domain							
People & Groups   Files   Server.	Messagii	ng Replication Configur	ation				
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gtrhome		DPI (Domino Portal Inte		C:\Program Files\IBM		958,48	
i helo		Homepage (8.5)		C:\Program Files\IBIv		458,75	Full Text Index
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		Notebook (8)	notebook8.ntf	C:\Program Files\IBM		1,437,6	Cluster
		Notes Log (8) ()	log.nsf	C:\Program Files\IBM	. ,	1,843,20	Delete
		Offline Services	doladmin.nsf	C:\Program Files\IBM		774.14	Analyze
		Personal Address Book		C:\Program Files\IBM		4.980.73	•
		Personal Journal (8)	journal6.ntf	C:\Program Files\IBM		4,980,7	Find Note
		Reports for LotusServer		C:\Program Files\IBM	. ,	995,32	Create Event
	Ě	RSS Feed Generator		C:\Program Files\IBM		1,216,5	Manage Views
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 Expand Shared Elements > Subforms in the left pane of the Designer window. From the main pane locate UCPlayer and double click to open.

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 The fields associated with the UC Player subform appear. Open the UCIBMSRV variable and enter the Avaya Messaging server's domain name or IP address. This is where end users download the iLink Pro Desktop application. When ready, Save and Close the subform. This will update the design element signer.



Hint: Use the UCIBMVer field to manage version control with UC form.

6. From the Forms section, double click on Memo. Save and close the Memo form to update the design element signer.



7. Repeat the process for **Reply** form. Open the form then Save and close to update the design element signer.



8. Repeat the process for **Reply with history** form. Open the form then Save and close to update the design element signer.

🖗 Applications 👔 🕳 🗎 🗙	🚳 ucmail.ntf - Design - Pages 🗙 📳 Reply With History - Form 🗙 💶 🗆
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9. Repeat the process for any other forms you wish to add the UC Player to, and then exit Domino Designer.

#### ECL Configuration

IBM Domino uses an **Execution Control List** (ECL) to set up workstation data security. An ECL limits the actions of formulae, scripts, forms and other objects run on a workstation. For example, an ECL can prevent another person's code from running on a PC and damaging or erasing data.

Domino administrators have the power to allow users to modify their ECLs or to control all changes to their ECLs across an organization. In order to limit workstation access, an ECL will look for a database, template and item signature before opening on the workstation. The ECL will then check this signature against its settings to determine what level of access can be granted.

Groupware forms are subject to an ECL check as well, since they contain scripts and COM objects. Thus, on the first installation of Groupware forms within an organization, you are advised to:

- Modify the Administrative ECL on the Domino Server.
- Propagate the changes to all clients.
- 1. Open Domino Administrator. Locate the People & Groups tab. From Actions menu, select Edit Administration ECL.

Clip Domino Directories     Via domain1's Directory	1	Add Person	Edit Person	Person 🐌 Co	py to Pi 🔶
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Amail-In Databases _Reso		domina	, administrator		
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2. From the Workstation Security: Execution Control List window, click on the Add button.

Workstation Security: Execution Control List	2 🛛
	Allow user to modify: C Workstation security C Java applet security C Java Cript security Allow: Access to current database Access to grwinoment variables Access to grwinoment variables Access to external grograms Access to external grograms Access to external grograms Access to external access Access to
Add Rename Remoye	Ability to modify other databases     Ability to export data     Access to Network     Ability to export data from property broker     Ability to write to property broker     Access to Workstation Security ECL     OK Cancel

3. In the **People, Servers, or Groups** field, enter the name of the person/server/group to be added to the ECL. This should be the person that performed the installation, most likely the Domino Administrator.

Once you have selected a user, click **OK**.

Add User	<u>?</u> ×
People, Servers, Groups	
OK	Cancel
4. Now select the user or object added in the previous step (Administrator in this example). Enable Allow user to modify, then select the Workstation security radio button. Enable all checkboxes under Allow then click OK.



5. Repeat for both the Java applet security and JavaScript security radio buttons.



6. For each mailbox database that will include UC forms, configure them to inherit the design from the UCMail template. This can be done using the load convert command, or manually through mailbox database properties.



Now that the forms are ready, you must append the new design. From Status > Server Tasks, click Start... in the list
of tasks on the right pane.

Status Analysis Monitoring Statistics Performance Server: Lotus Server8 Releare 8 5 on Windows/2003 5.2 Intel Pentium					∽Tools
🔅 Server Tasks	45	Tasks 🔺	Activity	CPU Utilization 🗘	🗸 🖑 Task
🔏 Notes Users	1	Admin Process	Idle	0%	
💫 Database Users	(4)	Admin Process	ldle	0%	Tell
💫 Internet Users	٨	Admin Process	Idle	0%	Start
Server Console	٨	Admin Process	Idle	0%	
V 🖾 Schedules		Admin Process	Idle	0%	Stop
in Programs	-	Agent Manager	Idle	0%	Restart
🖓 Agents	0	Agent Manager	Executive '1': Idle	0%	🕨 🔒 User
🚳 Mail Routing		Calendar Connector	Idle	0%	
🚳 Replication	٨	Database Server	Shutdown Monitor	0%	) Ports
彦 DDM	۲	Database Server	Process Monitor	0%	

8. Select Designer from the list then click **Start Task**. The design will be updated for all Users. Users can now take advantage of the forms packaged with iLink Pro Desktop in IBM Notes.

**Note:** Once the design elements have been propagated to the client database, the forms are almost complete. A few additional components must be installed to fully enable forms on the client.

Start New Task	? ×
Start new server tasks	Done
Compactor Converter DECS Server	
Designer DIIDP Server Directory Cataloger Directory Lint Domain Indexer DOMWS Convert AddIn	
Select advanced options	<u>S</u> tart Task
The Designer server task maintains and design of all databases to reflect chang	

#### Adding UC Forms to Existing Design (Method B)

- 1. This procedure is similar to Method A, but you will be importing the UC form into an existing database template so that you can utilize UC form within an existing custom form design. Please refer to the details within Method A to familiarize with yourself with the procedure before proceeding.
- **2.** Insert the Installation DVD.
- Copy the ucmail.ntf from the DVD and paste into the Domino Data folder (e.g. C:\Program Files\IBM\IBM\Domino\Data).
- 4. Navigate to File > Database > Open. Select the ucmail.ntf file from Step 3 and open it in Domino Designer.
- 5. Open the copied template. This template should contain the UC forms. As a rule, all users in an organization will inherit design elements from a single template. Should it be necessary to provide UC functionality to a *select* group of users, it is recommended that a copy of the default template be created and all UC elements placed there. Design elements for UC user databases can then be inherited from the created template.
- 6. Edit the UCIBMSRV variable to point to your Web Access for iLink Pro Desktop download.
- 7. Copy the **UCPlayer** subform and paste it into the target template. If the **UCPlayer** subform is already present in the target template (upgrade scenario), then remove it prior to upgrading.
- 8. Open the Memo form in the target template and select Create > Resource > Insert Subform.
- 9. Click OK. The UCPlayer subform will be inserted into the Message form.



- 10. Click Save and close the form.
- **11.** Repeat Steps 7-10 for each form that is to include the **UCPlayer** subform.
- **12.** Create three copies of the modified Memo form and give them the following names: **TelNTVoice**, **TelNTFax**, and **TelNTText**.
- 13. Follow the procedures on ECL Configuration on page 216 to complete the process.

## User Guide

### Installing UC Forms in IBM Notes

To use UC forms within IBM Notes, you must install iLink Pro Desktop. Obtain iPD from IBM Notes.

Installing UC Bar and iLink Pro Desktop

Note: Subforms must be inserted in all areas which require voice message playback function.

- 1. Run IBM Notes.
- **2.** Open the mail database.
- 3. Create or open a document that uses a form with the UC Player subform (e.g. **Memo**).
- 4. In the Actions pane click on the Install UC bar button.

记 New Memo - IBM Lotus Notes		_ 8 ×
	Help	
Open 🦆 🕒 🚰 Home 🗙 涻 New Memo >		
💥 🗗 🖻 🖻 • 🔒 🗧 😂 🚺	🔽 🗹 b i 2 역 静臣臣室冒臣 🗄 😫 💈 🕼 🔹 Search Al Mail	٩
Send Send and File Save As Draft Address	Delivery Options Follow Up 👻 Tools 👻	r 🥥
🗖 High importance 🗖 Return receipt 🗖 Sign	Encrypt	
High importance Return receipt Sign	Encoppt	
Administrator		

5. IBM Notes will open a web page to download the iLink Pro Desktop software. iPD must be installed for UC forms to work.

😡 No page to display - IBM Lotus Notes	_ 8 ×
Elle Edit View Greate Actions Tools Window Help	
Open 🐌 💿 😤 Home 🗙 🔺 New Memo 🗙 🖶 No page to display 🗙	
	💽 🐨 Search Yahoo!
🗢 Back - 🏟 Forward - 🕴 🎯 🚱 http://user.company.com/uc/webclient/download/ucclientmanager.exe	🔽 🕸 🖶 Print -

- 6. Download the installation package then install the application.
- 7. Once iLink Pro Desktop is installed, the button will change to **Show UC bar**. Click on this button to open the UC form.

🛞 New Memo -	· IBM Lotus Notes		_ 8 ×
<u>Eile E</u> dit <u>V</u> iew	<u>Create</u> <u>Actions</u> <u>T</u> ext Tools <u>W</u> in	dow Help	
Open 🦆 🕻	🖹 😚 Home 🛛 🖄 New Memo	x .	
1 % 🕁 🛍	🔄 🕙 🗸 🔚 😓 🥹 Default Sa	ns Senf 🔽 b i 2 4 14 🗄 🗄 🗄 🗉 🗉 🖬 🕼 💷 🔹 🛙 🗴 Search Y	'ahoo! 🔍
Send Sen	d and File Save As Draft Addr	ess Delivery Options Follow Up 🔹 Tools 👻	VC bar 🔶 🧕
🗖 High imp	ortance 🔲 Return receipt 🔲 Sig	jn 🗖 Encrypt	
	Administrator	To	
	10/07/2019 05:01 PM	cc	
		bcc	
		Subject	

**Note**: You may have to restart IBM Notes or reopen a form in order to see the new button. You must also be **logged into iLink Pro Desktop** to use the UC forms.

8. You will now have access to Record and Playback actions through the form.



#### Verifying the IBM Notes client ECL setup

- 1. Open IBM Notes.
- Select File > Security > User Security > What Others Do > Using Workstation. The User Security dialog box appears.

User Security	2 🛛
<ul> <li>Security Basics</li> <li>Your Identity</li> <li>Identity of Others</li> <li>What Others Do</li> <li>Using Workstation</li> </ul>	What can be done by a running Program. Agent. Macro, or Command Notes may run 'code' (agents, commands, etc.) wherever you can a Notes database. Code may be signed to identify its creator. Based on the name found in the signature, you can restrict what code can do. Select a name in your Execution Control List to see or set the permissions assigned to the name. -Default: permissions apply when code is signed by someone not in this list. -No Signature: permissions apply when the code creator is unknown.
Using Applets Using JavaScript	When code is signed by:       Allow access to:         Default:       If is system         No Signature:       If is system         Signature:       If is system         Domino Under Communications Service:/Lob       Ic unrent Notes database         Domino Under Communications Service:/Lob       Ic unrent Notes database         Lotus Note: Trajbale Development/Lotus Note: Company       Ic unrent Notes database         Sametime Development/Lotus Note: Company       Allow ability to:         Sametime Development/Lotus Note: Company       Read often Notes databases         Image: Sametime Development/Lotus Note: Company       Read often Notes databases         Image: Sametime Development/Lotus Note: Company       Read often Notes databases         Image: Sametime Development/Lotus Note: Company       Read often Notes databases         Image: Sametime Development/Lotus Note: Company       Read often Notes databases         Image: Sametime Development/Lotus Note: Sametime Development/Lotus Notes Company       Image: Sametime Development/Lotus Notes Company         Image: Sametime Development/Lotus Note: Sametime Development/Lotus Notes Company       Image: Sametime Development/Lotus Notes Company         Image: Sametime Development/Lotus Note: Sametime Development/Lotus Notes Company       Image: Sametime Development/Lotus Notes Company         Image: Sametime Development/Lotus Notes Company       Read often Notes databases

3. The ECL should contain all of the entries that were defined in the Administration ECL.

## Using UC Forms in IBM Notes

#### Composing a Voice Message

- **1.** Create a new message.
- 2. Fill out the To, Subject and any other fields as you would normally do.
- **3.** Use the UC bar provided to record a message.



- Click for to begin recording the voice message with your microphone.
- Click a to begin recording the voice message with your phone.
- Click to pause recording or playback.
- Click to stop recording or playback.
- Click b to playback recorded message.

Note: Some actions may not be available depending on site settings.

4. When you finish recording a message, you will see an attachment automatically created as shown. Click Send to transmit your message.

Send Ser	d and File Save As Draft Ad	ress) Delivery Options) Follow Up 🔹 Tools 💌	🅅 Hide UC bar 👔
<b>J</b>			00:00/00:-01
	woice[20191008T085214]		- H 🛛 🛠 🕺 🖬
🗖 High imp	ortance 🔲 Return receipt 🔲 :		@
	Administrator 10/07/2019 05:01 PM	Io	
	10007/2013 03:011 14	cc	
		Subject	

#### Listening to a Voice Message

•

•

1. Open a voice message from IBM Notes. UC forms will detect voice messages and provide options for message playback.

To "Jane Porter" <janep@erbmusic.com> cc</janep@erbmusic.com>	
bec Subject Outer Matteria	
Subject System Notification	
	Subject System Notification

- Click 🧖 to begin playing the voice message on your phone.
- Click to pause playback. Click to stop playback.

Note: Some actions may not be available depending on site settings.

2. If you choose to play the message on your phone, you will be given an option to choose which number to listen from. The list depends on your current UC location and the extensions defined through iLink Pro Desktop. When you select a number to listen from, UC server will dial that number, then playback the message once the call is answered.

J	00.00/00.04
2000 To "Jane Porter" (janep	
+1 (905) 7777777 M cc	
bcc	
Subject System Notification	
Main.txt VoiceMessage[ID=385.000000 G=40 C=1 A=CA6D5AB6-C5EB-43CA-A2D7-76C7362E1975	R=0 F=168].WAV

### Configuring UC Mailbox to Synchronize with IBM Notes

#### **Note**: If you do not have access to Web Access, this configuration can be performed by your administrator.

- 1. Log into Web Access.
- 2. Click on the Account icon.
- 3. If the Locked checkbox is selected, deselect this checkbox.
- Provide the following information:
   User Name: Enter your mail server user name.

Synchronization Options		
Locked		
User Name	username@yourcompany.co	
Password	•••••	
Confirm Password	•••••	
Voice Format:	(None) 💌	

**Note:** The user name you enter in this field will be the same user name for the email account as it exists on the mail server.

#### Password: Enter the password for your mail account.

**Note:** The password you enter in this field will be the same password for the email account as it exists on the mail server.

#### Confirm Password: Confirm the above password.

**Voice Format**: From the dropdown menu, select the voice format which will be used for voice messages. You should leave this field as default in most cases.

5. Click on Save and Close button at the top.

# 16

## FIND ME FOLLOW ME ON CTI INTEGRATION

## In This Chapter:

- 226 Introduction
- 226 Visual Guide
- 226 Requirements
- 227 User Guide
- 227 Find me Follow me with CTI Integration

## Introduction

Find me Follow me allows calls to be forwarded to one or more addresses until the user is found. The addresses can be internal or external numbers. They can be dialed sequentially, or simultaneously.

This document is intended for technicians who have some familiarity with the Avaya Messaging and want a deeper understanding of what is expected of the functions and how to set up users.

The Find Me Follow Me features for DID and direct calls are only available for some PBX's.

Refer to the Technical Operating Guidelines for details on PBX's.

Note: The Hunt Group field should be left bank.

👸 Feature Group
Feature Group
General Storage Options Notification Options Iransfer Options Transfer Types Mailbox Options Message Options Synchronization Options DID Properties Speech Options
1: Default Users
DID Calls
When receiving DID Calls, honour the following Settings:
Play Prompt: Transfer to 🔲 Call Queuing
Play PreTransfer Sound Caller ID Popup
Call Screening Call Forwarding
Camp On
Re-route Options for DID & Internal calls Using CTI
C No re-routing
Forward calls to UC - Location options
Forward calls to default address
Hunt Group

#### Visual Guide



If the user has configured Find Me Follow Me for their mailbox, Avaya Messaging will try to locate the user through a broadcast rather than through a single phone number or device. Whenever a call comes in, Avaya Messaging will try to locate the user through multiple devices simultaneously (or as configured). Once the user accepts the call on one device, Avaya Messaging will connect the caller with the user and terminate the other calls.

#### Requirements

Requirements	Details
License	
Software	Officelinx/IX Messaging version 8.5 - 10.8 Avaya Messaging version 11.0 or higher

## User Guide

This guide goes over the configuration of Find me Follow using Web Access. If you have access to the admin console, this process can be completed from there as well.

### Find me Follow me with CTI Integration

Note: Before users can launch Web Access, two items must be set in Avaya Messaging Admin:
1) Enable Web Access User under Mailbox > Advanced, and
2) Select Web Access under Feature Group > Mailbox Options.
If you do not have access to the Avaya Messaging Admin console, please contact your System Administrator.

#### When you log into Web Access, the Main page will appear. Click Locations.



The locations page shows all the locations created for the user. From this page, the user can create a new location or edit an existing location. Click on the location to be configured, then open the **Find Me Rules** tab.



The Find Me Rules page displays all of the options available for that location. It is important to note that this section will configure how the Auto attendant will behave for incoming calls. However, it is necessary to set the current location as well as availability. Refer to page 128 of the Client Applications Guide for further details on these settings.

#### Addresses

Addresses are an important part of the find me follow me feature, and are necessary when configuring the locations where the program will call the user. Addresses in this context refer to internal and external phone numbers where calls will be directed based on the rules and configuration selected.

It is important to first define the addresses or numbers where the user can be reached for various locations in order to configure the find me follow me features.

Addresses can be added, edited and deleted on the **Addresses** page of Web Access. Addresses can be internal (such as a desk phone extension) or external (such as a cell phone or phone number off site).

Addresses	c ?			
Phone	Email Fax Bee	eper SMS (	Other	
Default	Number	Type VID	Trusted	
0	1(905)7079700	External	Yes	×
	2345	Internal	Yes	

To set your current location using Web Access, click on the **Current Location** icon.

Enable **Override my locations calendar and set my current location**. Set your location and availability from the dropdown menus.

» Chan	ge Current Location		
Save	c ?		
⊚ Us	ently: In Office : Available e my locations calendar erride my locations calendar and set my current location		
Curre	ent Location		
In Off	ice Number: 9876 >>		
Avail	Availability at Current Location		
Unav	ailable 🖸 🔲 Override Availability Filters		
l will	I will be at this location:		
💿 Un	till change my location		
© Un hou	til the next scheduled activity or the end or the beginning of working urs		
	Year Month Day Time		
© Till			
	then I will be back to my next scheduled activity or to the default activity		

In order for outside calls to be dialed by the voice server, configure outcalling through **Windows Control Panel > Phone and Modem Options** and make sure the local area code is selected.

If the call will be forwarded to a long distance number, enable Long Distance under Feature Group > Notification Options > Outcalling Options for the group containing the member.

👸 Feature Group	? 💌
Feature Group	
Mailbox Options   Message Options   Synchronization O General   Storage Options Notification Options	ptions   <u>D</u> ID Properties   Speech Options   ]  <u>I</u> ransfer Options   T <u>r</u> ansfer Types
🎁 1: Default Users	
Message Light	Message Light Type
Message Light Activation	T All
🔽 ON For All Msgs	T Fax
CFF For All Msgs	Voice
GFF When No New Msg	V VOICE
No of ON Retries 1 time(s)	
(inic(3)	
No of OFF Retries 1 time(s)	
ON Between Retries 15 minute(s)	0. F 0.C
OFF Between Retries 15 minute(s)	Outcalling Options
	I Beeper
ON Code	🔽 Outcall
OFF Code	Long Distance
Channels	🔽 E-mail

#### Configuring Find me Follow me features

There are several pre-defined options for the Auto attendant to automatically find a user by forwarding calls to a range of numbers, either internal or external. Click on the Find me rules tab and select a rule and option:

#### Only call me at the first number assigned to this location

Select the option **Only call me at the first number assigned to this location** and then click on the **General** tab to go back to the list of numbers assigned to the location.



Using the up and down arrows ★ ◆, select the number you want calls to be forwarded to and move it to the top of the list.

New Location + Save and Close			
General Location Greeting	Availability Filters	Find Me Rules	Assign Calls
<ul> <li>Local location (within sam</li> <li>Default availability: Available</li> <li>Assign numbers for this locat</li> </ul>	Ţ		
🤣 🗹 Internal: 2345	Edit	* *	
🤗 🗹 External: 1(905)7079700	Edit	* *	
Add			

Click on the Save and Close button

The Auto Attendant will call only the number on top of the list of numbers assigned to that specific location. If there is no answer at that extension, the Auto attendant will play the location greeting configured. We can expect this behavior when calls are made to a DID or through the Auto attendant.

**Note**: In order for this feature to work, the user must be set up to be in that location and Available. If the user is Unavailable the find me follow me feature will be disabled and the Auto attendant will play the location greeting.

#### Call me at each of the numbers assigned to this location sequentially

This rule gives the user 2 options: Automatically find me and Ask the caller to find me.

#### Automatically find me:

On the **Find Me Rules** tab, select the appropriate options and then go to the General tab to arrange the sequence of calls:

General Rule to Find Me
Only call me at the first number assigned to this location
<ul> <li>Call me at each of the numbers assigned to this location sequentially</li> </ul>
Call me at all the numbers assigned to this location at the same time
Note: Call queuing is going to be automatically disabled in those locations where find me rules are
active.
Find Me Options
<ul> <li>Automatically find me</li> </ul>
Ask the caller to find me
Exception List: New Rule
Exception Elst.

On the **General** tab, add the addresses to the Numbers assigned to this location column and using the up/down arrows select the sequence in which you want to be found (from top to bottom).

General Location Greeting	Availability Filters	Find Me Rules	Assign Calls
Local location (within san	ne time zone)		
Default availability: Available	Ŧ		
Assign numbers for this locat	tion		
🍕 🗹 Internal: 2345	Edit	* *	
🧇 🗹 External: 1(905)7079700	Edit	* *	
Add			

**Note:** In order for this feature to work, it is necessary to have at least 2 addresses in this column, otherwise there is no sequence and the find me feature will not be in effect

#### Click on the Save and Close button

When a call is transferred by the Auto attendant or when a call is made to a DID that rings the extension directly, the Auto attendant will dial all the addresses in the list of numbers assigned to the location sequentially from top to bottom until the call is answered, if there is no answer in any of the numbers the call will be forwarded to the user's voicemail.

If the default internal address of that mailbox is in the list of numbers assigned to the location, calls made to a DID will always ring that extension first regardless of where it is in the list, and then the Auto attendant will dial the rest of the numbers in sequence from top to bottom (bypassing the default internal extension)

**Note:** In order for this feature to work, the user must be set up to be in that location and Available. If the user is Unavailable the find me follow me feature will be disabled and the Auto attendant will play the location greeting. Also, if the phone is in DND, the unavailable greeting will automatically play and the find me feature will not come in effect.

#### Ask the caller to find me:

This feature will play the unavailable prompt and then give the caller the option to locate the user or just leave a message.

On the **Find Me Rules** tab, select the appropriate options and then go to the General tab to arrange the sequence of calls:



On the **General** tab, add the addresses to the Numbers assigned to this location column and using the up/down arrows select the sequence in which you want to be found (from top to bottom).

General Location Greeting	Availability Filters	Find Me Rules	Assign Calls		
Local location (within same)	ne time zone)				
Default availability: Available	Default availability: Available				
Assign numbers for this location					
🌾 🗹 Internal: 2345	Edit	* *			
🤣 🗷 External: 1(905)7079700	Edit	* *			
Add					

**Note**: In order for this feature to work, it is necessary to have at least 2 addresses in this column, otherwise there is no sequence and the find me feature will not be in effect

#### Click on the Save and Close button

When a call is transferred by the Auto attendant or when a call is made to a DID that rings the extension directly, the Auto attendant will automatically dial the first address in the list of numbers assigned to the location, if there is no answer it will play a "no answer" and give the caller the option to locate the user or to leave a message. If the caller selects to locate the user the Auto attendant will dial the next number in the list, if there is no answer in any of the numbers the call will be forwarded to the user's voicemail.

If the default internal address of that mailbox is in the list of numbers assigned to the location, calls made to a DID will always ring that extension first regardless of where it is in the list, and then the Auto attendant will dial the rest of the numbers in sequence from top to bottom (bypassing the default internal extension)

**Note:** In order for this feature to work, the user must be set up to be in that location and Available. If the user is Unavailable the find me follow me feature will be disabled and the Auto attendant will play the location greeting. Also, if the phone is in DND, the unavailable greeting will automatically play and the find me feature will not be in effect.

# Call me at all the numbers assigned to this location at the same time

When using this Find me rule, the Auto attendant will try to find the user at all of the numbers assigned to the location at the same time, either automatically or by giving the caller the option to locate the user. The caller will also be given the option to leave a message.

When this feature is selected it is necessary to specify the channels used for the broadcast in **Company Properties > C.O./Channel Assignment**.



#### Automatically find me:

On the Find me rules tab, select the **Call me at all the numbers assigned to this location at the same time** and the **Automatically find me** options, and then go to the **General** tab to choose the numbers the Auto attendant will dial:

General Rule to Find Me
Only call me at the first number assigned to this location
Call me at each of the numbers assigned to this location sequentially
Call me at all the numbers assigned to this location at the same time
Note: Call queuing is going to be automatically disabled in those locations where find me rules are
active.
Find Me Options
Automatically find me
Ask the caller to find me
Exception List: New Rule

On the **General** tab, in the right-hand column add the numbers that the Auto attendant will dial when trying to find the user.

General Location Greeting	Availability Filters	Find Me Rules	Assign Calls		
Local location (within same)	Local location (within same time zone)				
Default availability: Available	Default availability: Available •				
Assign numbers for this location					
🏀 🗹 Internal: 2345	Edit	* *			
🗹 External: 1(905)7079700	Edit	* *			
Add					

#### Click on the Save and Close button

When a call is transferred by the Auto attendant or when a call is made to a DID that rings the extension directly, the Auto attendant will automatically dial all the addresses in the list of numbers assigned to the location simultaneously. If the call is answered and accepted in one of those numbers the calls made to the other numbers in the list will be dropped. If there is no answer in any of the numbers the call will be transferred to voicemail.

When a call is made to a DID and the default internal extension is in the list of numbers assigned to the location, that internal extension will always ring first and if there is no answer then the Auto attendant will automatically dial the rest of

the numbers in the list simultaneously.

**Note**: In order for this feature to work, the user must be set up to be in that location and Available. If the user is Unavailable the find me follow me feature will be disabled and the Auto attendant will play the location greeting. Also, if the phone is in DND, the unavailable greeting will automatically play and the find me feature will not come in effect.

#### Ask the caller to find me:

On the Find me rules tab, select the **Call me at all the numbers assigned to this location at the same time** and **Ask the caller to find me** options, and then go to the **General** tab to choose the numbers the Auto attendant will dial:

General	Location Greeting	Availability Filters	Find Me Rules	Assign Calls	
Only ca	Rule to Find Me all me at the first numb e at each of the numb			ally	
	Call me at all the numbers assigned to this location at the same time     Note: Call queuing is going to be automatically disabled in those locations where find me rules are				
Autom	e <b>Options</b> atically find me e caller to find me				
Excepti	on List: New Rule				

On the **General** tab, in the right hand column add the numbers that the Auto attendant will dial when trying to find the user:

General Location Gre	eeting Availability F	ilters Find Me Ru	les Assign Calls			
Local location (with	<ul> <li>Local location (within same time zone)</li> </ul>					
Default availability:	Available 🔻					
Assign numbers for th	Assign numbers for this location					
🎨 🗹 Internal: 2345	Edit	* *				
🗷 External: 1(905)70	79700 Edit	* *				
Add						

Click on the Save and Close button.

When a call is transferred by the Auto attendant, the first number in the list will be dialed, and if there is no answer the caller will be given the option to locate the user or leave a message. If the caller decides to locate the user, the Auto attendant will dial the rest of the numbers in the list simultaneously until one of the numbers answers and accepts the call. If the call is answered and accepted in one of the rest of the numbers, the calls made to the other addresses in the list will be dropped. If there is no answer in any of the numbers the call will be transferred to voicemail.

When a call is made to a DID we should expect the same behavior as above as long as the default internal extension is not on the list of numbers assigned to the location. If the default internal extension is in the list of numbers assigned to the location, that internal extension will always ring first (regardless of the order in the list) and if there is no answer in the internal extension, the caller will be given the option to locate the user or leave a message.

# **17** MULTIPLE TIME ZONE SUPPORT

## In This Chapter:

- 236 Introduction
- 236 Visual Guide
- 236 Requirements
- 237 Server Configuration

## Introduction

Avaya's Avaya Messaging has built in mail capabilities, including Unified Messaging integrated to multiple mail environments. Since many of our customers have implemented the Avaya's Avaya Messaging as a centralized messaging platform, it is desirable to offer users who access Avaya's mail components to be presented their messages in their time zone.

The following document outlines the steps to configure the UC Server to use this functionality.

#### Visual Guide



zone from the Avaya Messaging server, the server is able to honor the time zone of the user and display the date and time of the message dynamically.

When you configure the multiple time zone support feature for your users, they will be able to access their messages anywhere around the world and see the messages in relation to local time rather than the server's time. This will reduce any confusion over when the message was received and offer the users a care-free user experience.

#### Requirements

Requirements	Details
License	
Software	Officelinx/IX Messaging version 8.5 - 10.8 Avaya Messaging version 11.0 or higher

**Important**: In an HA installation, all servers must have the same time zone set under Windows Date / Time settings. If the servers are configured for different time zones, the timestamps will not play correctly.

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## Server Configuration

With Avaya Messaging installed on the server, you will need to edit the **EEAM.INI** file, located in the WINDOWS folder of your system.

#### General Settings

- Go to Start > RUN, and type EEAM.INI in the space provided. Click OK. NotePad will open and display the contents of the file.
- Open:
   Description

   OK
   Cancel

   Bile
   Eddt

   Eddt
   Format

   Wew
   Help

   [[General
   Settings]

   Database=5
   Build=4.12

   TMM=7
   Timt=7

   Timt=7
   Timt=7

   Timt=11
   Path=C:\UC\

   Reorg O
   Event Handler=65674

   Last Clean File Date=4/17/2019
   3:00:06 AM

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you

- Add the following line to the EEAM.INI file:
   Honor Timezone for Message = 1
- **3.** Save the file, and close the editor. RESTART the PC for the change to take effect.

Your system is now ready to manage multiple time zones.

**Caution**: In order to specify your time zone, you will need to edit your Location Calendar. Each time you access your mailbox, either through the phone, the web or any other component, your CURRENT time zone will be determined by your active location calendar. Make sure this is specified.

**Note**: If the user does not have access to Web Access to specify their location calendar, an Administrator will need to set this using Avaya Messaging Admin.

#### The Time Zone feature supports:

- All Messages presented via any device will be in the user's local time.
- Call History will be presented in the user's local time.
- Calendar events made using Outlook will be retained in the user's local time as defined by their Location Calendar. For example, if the user's PC where Outlook is running is set for Eastern time, but the Location Calendar is defined as Pacific, then any appointment created by the client from Outlook will be offset from Eastern time to Pacific, as specified by the user's Location Calendar.

#### The Time Zone feature does NOT support the following:

- Notification schedules any schedule defined must be defined in the Server's time. For this reason, Web Access will now show the server's time in a window to assist the user.
- Future message delivery message delivery must be defined in the Server's time.
- Wakeup Call All events must be defined in the Server's time.
- Any other function where time and date are entered by the user.

Multiple Time Zone Support

# 18

# REMOTE ADMINISTRATION

## In This Chapter:

- 240 Introduction
- 240 Visual Guide
- 240 Requirements
- 241 Installing Remote Admin
- 242 Connecting to Remote Admin

### Introduction

**Remote Admin** allows system administrators or support personnel to remotely access Avaya Messaging Admin from their own workstation, eliminating the need to be in front of the server in order to perform administrative functions.

### Visual Guide



#### Requirements

Requirements	Details
Software	Microsoft Windows Server 2012 and 2016 Microsoft Windows 7, 8, and 10.
Network	Workstations where remote admin is installed must be in the same network domain as the Avaya Messaging voice server

**Warning**: Utilizing remote admin means that more than one person may be managing the database. If two or more people make changes to the same entry, the first change may be overwritten without notification.

Note: The maximum number of people that can connect using Remote Admin is 5.

## Installing Remote Admin

Important: Avaya Messaging must be installed and operating normally on the voice server before proceeding.

**Important**: Remote Admin must be installed on **the same subnet** as the Avaya Messaging voice server, or the Consolidated Server on a High Availability installation.

Remote admin must be installed on each workstation where it will be used.

- On the voice server, or on the Consolidated server in a High availability environment, locate the Avaya Messaging installation directory (this is C:\UC by default). Share the UC folder with the Windows user(s) who will be running Avaya Messaging Admin remotely.
- 2. On a remote workstation, login and verify that this user has access to the UC folder on the server. Go to \\ComputerName\UC and attempt open the folder (change ComputerName to the name of the server on your system). If you can open the folder, then the share was a success and you can continue with the installation.
- 3. Copy the \UC\RemoteAdmin\RemoteAdmin.exe file from the server to the remote machine.
- 4. Launch (double-click) the program and the Remote Administration Installation Wizard will start.

Click **Next** to begin the installation.

5. When prompted, enter the computer name for the Avaya Messaging voice server, or the Consolidated Server. Click **Next**.

₿		Remote Administration Se	etup 🗕 🗖 🗙
	Database Server cont Please enter the Co	figuration mputer Name of Database Server.	AVAYA (nga\$ <sup>e</sup> The Power of We <sup>-</sup>
	Server Name	your_server_name	
Wise I	Installation Wizard®	< Back	Next > Cancel



6. The program is ready. Click **Next** to begin installing the program.

<b>₩</b>	Remote Adm	inistration Setup	_ 🗆 X
Ready to Install t Click Next to be		Q	AVAYA
Click the Bac the wizard.	k button to reenter the install	ation information or click	Cancel to exit
Wise Installation Wize	ard (R)	< Back N	ext > Cancel

7. Remote Administrator will be installed on the system.

8. When finished, the wizard will report that the installation was successful.

Click **Finish** to complete the installation.





Remote admin is now ready to be used. A shortcut will be placed on your Windows desktop to access the program.



## Connecting to Remote Admin

To connect to Avaya Messaging Admin remotely, you will need the login credentials.

- 1. Run the Avaya Messaging Admin shortcut from the desktop. The login screen appears.
- 2. Enter the User Name and Password in the appropriate fields. Click OK.

**Caution**: The computer launching Remote Admin must be a member of the same domain as the Avaya Messaging server in order to make the connection.

3. You will be remotely connected to the Avaya Messaging Admin of the remote server.

User Name	Administrator		
Password			
UM Server Nar	ne		

# 19

# **REMOTE PRINTER**

## In This Chapter:

- 244 Introduction244 Remote Printer Host Installation and Setup
- 246 Avaya Messaging Voice Server Remote Printer Setup

### Introduction

The Avaya Messaging Remote Printer feature allows system administrators to remove printing functions from the voice server and move them to another computer. This reduces the demand on the voice server CPU allowing for greater speed and efficiency in processing voice data.

Remote Printer also permits the use of existing licenses for software that is not installed on the voice server. For example, MSOffice and Adobe Acrobat must be installed on the voice server if faxes are to be sent in any of their supported formats (doc, docx, pdf). Using Remote Printer to redirect this traffic to a machine that already has the necessary software installed removes the need for additional licenses to be consumed by the voice server.

Remote Printer is included on the DVD with the standard release of Avaya Messaging. It is installed by default as part of Avaya Messaging Admin. The Remote Printer program must be installed on the host, and the settings on the voice server must be changed to point to the host machine.

## Remote Printer Host Installation and Setup

**Note**: Avaya Messaging must be installed and properly configured on the voice server before proceeding with the Remote Printer host installation. Refer to the Server Installation Guide and Server Configuration Guide for more information.

The following instructions must be performed on the computer that is to act as the remote printer host.

- Run the UCPrint.msi program. This can be found on the Avaya Messaging DVD at: D:\UC\UCPrint (change "D:\" to the correct location of your DVD drive). Double-click this file to start the installation. The process takes a few seconds, and runs silently in the background.
- 2. After a few moments, go to **Start>Administrative Tools>Services** and verify that the **UC Remote Printer** service is installed and running. This service should be configured to start automatically.

🍇 Services						
Eile Action Yiew Help						
🍇 Services (Local)						
UC Remote Printer	Name 🛆	Description	Status	Startup Type	Log On As	
	TCP/IP NetBIOS He	Enables su	Started	Automatic	Local Service	
Stop the service Restart the service	🦓 Telephony	Provides T	Started	Manual	Local System	
Restart the service	🆓 Telnet	Enables a r		Disabled	Local System	
	🖏 Terminal Services	Allows mult	Started	Manual	Local System	
	🆏 Themes	Provides u	Started	Automatic	Local System	
	UC Remote Printer		Started	Automatic	qc\Admini	
	WUC TAPI Client	Provides c	Started	Automatic	Local System	
	🖏 Uninterruptible Pow	-		Manual	Local Service	
	🦓 Universal Plug and	Provides s		Manual	Local Service	
	🎇 VNC Server		Started	Automatic	Local System	
		Manages a		Manual	Local System	
	🏶 WebClient	Enables Wi	Started	Automatic	Local Service	
	🍓 Windows Audio	Manages a	Started	Automatic	Local System	•
Extended / Standard /						

**Note**: The **Log On As** account should be the same as that used during the installation of MS Office or Adobe Acrobat Reader.

3. Go to Start>Run and type regedit in the text entry box. Click OK.

4. On the left pane, navigate to either:

HKEY\_LOCAL\_MACHINE>SOFTWARE>Generic>EFSP (for 32-bit operating systems), or HKEY\_LOCAL\_MACHINE>SOFTWARE>Wow6432Node>Generic>EFSP (for 64-bit operating systems).



32-bit Operating System Path

5. In the right pane, double-click UMSTServer and enter the IP Address of the Avaya Messaging server for the value data. Click **OK** and close the regedit screen.

Edit String	<b>×</b>
Value <u>n</u> ame:	
UMSTServer	
Value data:	
192.168.0.1	
	OK Cancel

The client side configuration is complete. Proceed with the setup of the Avaya Messaging voice server.

## Avaya Messaging Voice Server Remote Printer Setup

The following instructions are performed on the Avaya Messaging voice server.

**Note**: These instructions assume that Avaya Messaging has already been installed and configured on the voice server. For details on the installation and setup of Avaya Messaging, please refer to the Server Installation Guide and the Server Configuration Guide for details.

- 1. Go to **Start>Administrative Tools>IIS Manager**. Verify that **FTP** is installed and running. This should already be setup as part of the Avaya Messaging installation.
- 2. Open Avaya Messaging Admin and click Print Server.
- Right-click on Print Server and choose Add.



4. Fill in the required fields.



🔝 UC Admin

Click **OK** when finished.

5. In the right pane, double-click the local print server and disable the **Available** checkbox.

Click OK when finished.



6. Go to Start>Adnministrative Tools>Services and disable the UC Remote Printer service.

- 🗆 🗵

 Go to Start>Administrative Tools>Services. Stop then start the following services: UC Unified Messaging System Tasks Service and UC VPIMServer.

🖏 Services		
Eile <u>A</u> ction <u>V</u> iew <u>H</u> elp		
	▶ ■ II IÞ	
🔅 Services (Local)		
UC Unified Messaging System Tasks	Name 🔺	Description
Service	Q UC TSE.Net Service	Synchroniz
	QLUC TTS Service	
Stop the service Restart the service	🔍 UC Unified Messaging System Tasks Service	
Restart the service	🖏 UC VPIMServer	
	🖏 UC Web Access	Provides a
	🔍 UPnP Device Host	Allows UPn
	🖏 User Profile Service	This servic
	🖾 Virtual Disk	 Provides m
Extended Standard		

8. On the computer acting as the remote printer host, stop then start the UC Remote Printer Service.

The setup of the Remote Printer feature is now complete.

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# AVAYA MESSAGING FAXING

# In This Chapter:

250	Introduction
250	Requirements
251	Fax via Windows Fax Services (Windows 7)
251	Configuration
255	Sending Fax from an Application
256	Fax via Windows Fax Services (Windows XP)
256	Configuration
257	Sending Fax from an Application
260	Viewing the Status of a Fax
260	Receiving and Viewing a Fax
260	Canceling a Fax Job
261	Automatically Send Retry
261	Automatically Canceling a Fax
262	Email to Fax
262	Administrator Setup
263	Sending a Fax
263	Fax Activation
264	Sending a Fax through Fax Gadget
266	Fax Jobs

### Introduction

While most business interactions occur digitally, faxing still remains a required feature for many people. This is especially true when thee are technical limitations or legal requirements involved. Rather than having to purchase a fax machine to handle this traffic, UC users can conveniently send faxes from their computer desktop digitally through the Avaya Messaging server with the proper license and feature set enabled.

#### Requirements

The fax may be sent out from your computer through these methods:

• Windows Fax Services: Send virtually any item as a fax as long as the software you are using to view the document or image supports printing. You can send any content as a fax by printing it through the fax services integrated with Avaya Messaging. However, this method requires some advanced configuration.

Refer to Fax via Windows Fax Services (Windows 7) on page 251 or Fax via Windows Fax Services (Windows XP) on page 256 for more information.

• **Email Client**: The advantage of this method is being able to send a fax from anywhere there is access to email client. No additional configuration is required. Whether it is a web-based or a dedicated client, you can send a fax through the Avaya Messaging server as long as there is access to email. However, you can only send files types that are supported by the server. If the server does not recognize a certain type of file (i.e. docx, pdf), the fax request will fail.

Refer to Email to Fax on page 262 for more information.

• **Fax Gadget**: This method is similar to the email client but has been streamlined for use with the Web Access interface, either accessed directly or through client applications such as UC Web Gadget.

Refer to Sending a Fax through Fax Gadget on page 264 for more information.

## Fax via Windows Fax Services (Windows 7)

#### Configuration

Please follow these steps to configure your client machine with the Windows Fax services.

**Warning**: This configuration must take place **before** installing iLink Pro Desktop. If iPD has already been installed, remove it, enable fax services, then reinstall the application.

**Warning**: Only TIFF and TXT formats are supported by default. To send a fax in any other format, the computer must have the necessary program installed to support that file type (i.e. MicroSoft Office for doc and docx files, Acrobat Reader 9 (available on the Avaya Messaging DVD) or earlier for pdf, etc.). Ensure that this software is installed and working (run at least once) before attempting to send a fax using that format.

1. Launch the **Programs and Features** application within **Control Panel**.

**Note**: Change your viewing style to icons to view the list of applications instead of categories.

😋 🔵 🗢 📴 🕨 Control Panel 🕨 A	Il Control Panel Items 🕨 👻 🔹	Search Control Panel
Adjust your computer's setti	ngs	View by: Small icons 🔻
🏲 Action Center	🍘 Administrative Tools	📷 AutoPlay
🐌 Backup and Restore	💶 Color Management	Credential Manager
😬 Date and Time	👦 Default Programs	📑 Desktop Gadgets
🚔 Device Manager	n Devices and Printers	🛄 Display
🕒 Ease of Access Center	F Folder Options	💦 Fonts
🔠 Getting Started	🔞 HomeGroup	🚑 Indexing Options
🔂 Internet Options	🕮 Keyboard	🖾 Location and Other Sensors
Mouse	🕎 Network and Sharing Center	📟 Notification Area Icons
🐻 Parental Controls	Performance Information and Tools	Personalization
🛄 Phone and Modem	Power Options	🛐 Programs and Features
🌮 Recovery	🔗 Region and Language	🐻 RemoteApp and Desktop Connections
📢 Sound	Speech Recognition	🔞 Sync Center
J🖳 System	🛄 Taskbar and Start Menu	📧 Troubleshooting
🍇 User Accounts	💐 Windows Anytime Upgrade	📑 Windows CardSpace
Windows Defender	💣 Windows Firewall	🖑 Windows Update

2. Click on the Turn Windows features on or off link on the left-hand pane.

Control Panel Home View installed updates Turn Windows features on or off	To unin	tall or change a stall a program, sele , or Repair.		d then click	c Uninstall,
	Organize 🔹	,			9EE 👻 🔞
	Name	Publisher	Installed On	Size	Version

- -

OK Cancel

Cancel

×

0

3. From the feature window, enable the following features.

#### **Print and Document Services**

- Internet Printing Client
- Windows Fax and Scan

Click **OK** when you're done.

**Note:** If these services are already installed on your computer, skip to step 6.

- 4. Windows will start to add the selected components. This process may take a while.
- 5. If you are asked to restart your computer, click **Restart Now** to reboot.
- 6. Once the computer has restarted, install iLink Pro Desktop. Refer to the **Client Applications Guide** for more information.
- When iLink Pro Desktop has been installed, go to Start > Programs and launch Windows Fax and Scan.
- 8. Go to Tools > Fax Settings...



Windows Features

Turn Windows features on or off

Print and Document Services
 Internet Printing Client
 LPD Print Service

LPR Port Monitor

Scan Management
 Windows Fax and Scar

Microsoft Windows

Microsoft Windows

changes

To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

> Please wait while Windows makes changes to features. This might take several minutes.

You must restart your computer to apply these

Before restarting, save any open files and close all programs.

Restart Now Restart Later


**9.** From the General tab, confirm that the Device name is **EEFSP**. If it is not, click on **Select fax device...** and choose it from the list.

You must also make sure that **Allow this device to send faxes** is **enabled**. **Allow the device to receive fax calls** should be **disabled** since faxes are received through the Avaya Messaging server. Only enable this checkbox if you have a specific reason to do so.

Click **OK** to save your changes.

**10.** Open **Tools > Fax Accounts...** 

**11.** Click the **Add...** button.

**12.** Select the **Connect to a fax modem** option.

Fax Settings 🛛 💌
General Tracking Advanced Security
Choose the fax modern that you want to use to send and receive faxes.
Device name: EEFSP Line 0
Select fax <u>d</u> evice
Send/receive options
Allow the device to send faxes
Allow the device to receive fax calls
Manually answer
Automatically answer after 1 ings
Mare options
OK Cancel Apply



Account Name / Serve	Status	<u>A</u> dd
		Remov
		Set as De

	×
🅞 🚎 Fax Setup	
Choose a fax modem or server To send and receive faxes, you need to connect to a fax modem or server.	
Connect to a fax modem I have a modern that is built in or connected to my computer.	
Connect to a fax server on my network Make sure you know the server name, for example: \\mycompanyfax	¢
	Cancel

Cancel

**13.** Give the connection a name. You may leave it at the default value, or change it according to your preference.

In most cases this item should be the only device configured on your computer. If not, please ensure that **Use by default for sending faxes** radio button is enabled before continuing.

14. Choose the Answer automatically (recommended) option.

Click **Next** when ready.

🚱 🚌 Fax Setup
Choose a modem name
Type a name that will help you identify this modem when sending a fax.
Name: Fax Modern
● ∐se by default for sending faxes
Do not use by default for sending faxes
Next Cancel
🚱 🚎 Fax Setup
Choose how to receive faxes

Your computer is ready to send faxes but you still need to choose how to answer incoming phone calls before you can receive faxes. After choosing an option, you can create a new fax.

Answer automatically (recommended) Windows will answer incoming fax calls after five rings.

I'll choose whether to answer incoming fax calls. I'll choose later; I want to create a fax now You or an administrator may change the fax receive settings later.

🖲 Notify me

**15.** If you are prompted regarding your Firewall, click to **Allow access** at the bottom of the window.

Your computer is now ready to send fax messages.

**Note**: Keep in mind that **you must be logged into iLink Pro Desktop** to send faxes.



# Sending Fax from an Application

Once your computer is configured for faxing, you can send faxes from any application that can print using the Windows printing tool. To send a fax, select **Print** from the application of your choice (e.g. Microsoft Office Word, Adobe Acrobat). The Print windows appears.

Select Fax as the print device, then click Print.

**Note**: You must be logged into iLink Pro Desktop in order to send a fax.



A new window will open to define the destination and any other components required for the fax.

The document being sent as a fax will appear as an attachment.

Ensure that you enter the correct fax number on the **To:** field.

Set the **Dialing rule** to **UC Location**.

All other fields, such as **Cover Page**, **Subject** and **Body** are optional fields which you can utilize to customize your fax message.

When you are ready to send the fax, click the **Send** button.

The Fax status window will appear to notify you of the fax's status. Once transmission has completed successfully, you will be notified here.

If the fax fails for any reason, the details will be shown here. Consult with your system administrator if you are having trouble sending faxes.

**Note**: You can track of all your outgoing faxes from the **Windows Fax and Scan** application available on the **Start** menu.





# Fax via Windows Fax Services (Windows XP)

## Configuration

Please follow the below steps to configure your client machine for use with Windows Fax services.

**Warning**: This configuration must take place **before** installing iLink Pro Desktop. If iPD has already been installed, remove it, enable fax services, then reinstall the application.

**Warning**: Only TIFF and TXT formats are supported by default. To send a fax in any other format, the computer must have the necessary program installed to support that file type (i.e. MicroSoft Office for doc and docx files, Acrobat Reader 9 (available on the Avaya Messaging DVD) or earlier for pdf, etc.). Ensure that this software is installed and working (run at least once) before attempting to send a fax using that format.

- 1. Go to Start > Settings > Control Panel. Double-click Add/Remove Programs.
- 2. Select Add/Remove Windows Components.



3. Enable Fax Services. Click Next.



Note: You may be asked to provide a Windows installation disc depending on the computer settings.

4. Once the process is complete, you will have the ability to send faxes from your desktop.

? ×

+

Properties

Print to file

1

Collate

Number of copies

# Sending Fax from an Application

- 1. Open the document or image that will be sent as a fax.
- 2. Print the item. This is normally under the **File > Print** menu.
- 3. When the print dialogue appears, select fax as the print device.

Click OK.

4. The Send Fax Wizard screen appears:



Printe

Name: Status: Type: Where:

Commeni Page ranç ( All

C Current p C Pages:

Fax

Idle Windows NT Fax Driver MSFAX:

Enter page numbers and/or page ranges separated by commas. For example, 1,3,5–12

- Click Next. The Recipient Information screen appears:
- 6. Specify the following:
  - In the **To** field, enter the name of the intended recipient.

**Hint**: Click the **Address Book** button to select a recipient from your personal address book.

- From the Location dropdown list, select the location (country) of the intended recipient.
- In the **Fax number** fields, specify the fax area code and number for the intended recipient.
- Enable **Use dialing rules** if you want specific dialing rules to apply. Select the dialing rules from the accompanying dropdown list.

<u>T</u> o:	John C	Carter	Address Book
Location:	Canada	(1)	~
<u>Fax number:</u> (	905	7079700	
✓ Use dialing	rules	SPb (Home)	Dialing rules
	ld the reci	ents, type each recipient's informat pient to the list below. Fax number	Add
necipierit ric			

**Note**: To create a new set of dialing rules, click on the **Dialing rules** button.

7. Click on the Add button to add the recipient whose information you have just specified.

Note: You can add as many recipients as you wish.

- Click Next when you have added all desired recipients. The Preparing the Cover Page screen appears:
- From the Cover page template dropdown list, select the cover page template you want to use.
- **10.** In the **Subject line** field, enter subject text for the fax cover page.
- **11.** In the **Note** box, enter message text for the fax cover page.

#### Send Fax Wizard



- 12. Click Next. The Schedule screen appears:
- 13. Select one of the When do you want to send this fax? radio buttons:

Now - send the fax immediately

When discount rates apply - send the fax the next time discount phone rates apply

- **Specific time in the next 24 hours** send the fax at a specific time in the next 24 hours. If you select this radio button, you must then specify a time of day from the accompanying spin-box
- 14. Select one of the following What is the fax priority? radio buttons:

High - high priority for sending faxNormal - normal priority for sending faxLow - low priority for sending fax

iend Fax Wizard		X
Schedule Specify when you want your fax to be sent, Higher priority faxes will be sent first.	and set priority.	Sp
When do you want to send this fax?		
When discount rates apply		
O Specific time in the next 24 hours:	14:55:23	
What is the fax priority?		
O <u>H</u> igh		
<ul> <li>Normal</li> </ul>		
OLow		
	< Back Next >	Cancel

- **15.** Click **Next**. The following screen appears:
- **16.** If you want to preview your fax, click on the **Preview Fax** button. Otherwise, click **Finish**.

**Hint**: To confirm that your fax was sent successfully, check the Sent Items folder of your Fax Console application.

end Fax Wizard			
		he Send Fax Wizard ly created a fax as follows: is	
	Recipient name John Carter	Fax number +1 (905) 7079700	
	Cover page template Subject: Time to send: Preview Fax To send your fax, clic	Test message Now	
	(	< <u>B</u> ack Finish	Cancel

## Viewing the Status of a Fax

- Select Start > All Programs > Accessories >
  - Communications > Fax > Fax Console.
- 2. In the left hand pane, click to expand Fax. The following list describes the folders under Fax:
  - The **Incoming** folder contains faxes that are currently being received.
  - The Inbox folder contains faxes that have been received.
  - The **Outbox** folder contains faxes that are scheduled to be sent.
  - The Sent Items folder contains faxes that have been successfully sent.
- 3. In the left hand pane, highlight a folder.
- 4. In the right hand pane right click on the fax you want and select Properties.
- 5. On the General tab, check the status of the fax under Status.

**Note:** If an item is in the Outbox folder, then the fax attempt has failed. Until all retries have been exhausted, Status will read **Pending**. If all retries have been exhausted, Status will read **Failed**.

## Receiving and Viewing a Fax

- Select Start > All Programs > Accessories > Communications > Fax > Fax Console. The Fax Console detects
  incoming faxes and stores them in your inbox.
- 2. To view a fax click Inbox, then double click on the fax you want to view.

## Canceling a Fax Job

You can cancel any fax you have set up to be sent at a future time.

- 1. If Fax is not open, select Start > All Programs > Accessories > Communications > Fax > Fax Console. The Fax Console appears.
- 2. To cancel a fax click Outbox, then right click on the fax you want to cancel.
- **3.** Click **Delete** to cancel the fax.
- 4. Click Yes.



#### Automatically Send Retry

You can set up Fax so that it continues trying to send your fax if the receiving fax machine is busy.

Note: Fax is automatically set up to retry three (3) times at 10-minute intervals.

- 1. Select Start > Control Panel. The Control Panel appears.
- If your Control Panel is in Category View, click Printers and Other Hardware. Click View installed printers or fax printers. The Printers and Faxes screen appears.
   OR

If your Control Panel is in Classic View, double-click the Printers and Faxes icon. The Printers and Faxes screen appears.

- 3. Right click **Fax** and select **Properties**. The Fax Properties dialogue box opens.
- 4. Click the Devices tab, then Properties. The Modem dialogue box opens.
- 5. Specify the number of retries and the amount of time between retries.
- 6. Click OK.

#### Automatically Canceling a Fax

If your PC tried to send a fax and failed to connect to a fax machine, you can automatically cancel a failed fax.

- 1. Select **Start > Control Panel**. The Control Panel appears.
- If your Control Panel is in Category View, click Printers and Other Hardware. Click View installed printers or fax printers. The Printers and Faxes screen appears. OR,

If your Control Panel is in **Classic** View, double-click the **Printers and Faxes** icon. The **Printers and Faxes** screen appears.

- 3. Right click Fax and select Properties. The Fax Properties dialogue box opens.
- 4. Click the Devices tab, then click Properties. The Modem dialogue box opens.
- 5. Click the Cleanup tab.
- 6. Click to check Automatically delete failed faxes after and specify the number of days.
- **7.** Click **OK**.

# Email to Fax

**Note**: The example shown in this guide uses Gmail. However, this process can be repeated with virtually any email client including web based email, MS Office 365, and MS Exchange.

Email to Fax requires no user-end configuration. The only requirement is that the fax email is sent to the correct domain using the correct format.

#### Administrator Setup

**Warning**: Only TIFF and TXT formats are supported by default. To send a fax in any other format, the computer must have the necessary program installed to support that file type (i.e. MicroSoft Office for doc and docx files, Acrobat Reader 9 (available on the Avaya Messaging DVD) or earlier for pdf, etc.). Ensure that this software is installed and working (run at least once) before attempting to send a fax using that format.

- The network administrator must setup an MX Record that points **vpim**.*yourcompany*.com to the Avaya Messaging voice server (or the Consolidated Server in an HA environment).
- **Send URL** must be configured and activated on the voice server (see the Security Enhancements chapter in Avaya's Server Configuration Guide).
- SMTP port 25 needs to be opened on any firewall or security services.
- An active email account and client are also required.
- Under Avaya Messaging Admin>Configuration>VPIM/SMTP, set Use email verification for outbound faxing to True.

Parameters   Advanced   Advanced   Custom Interface Settings   Device Management   Dar Synchronization   DAP Synchronization   Dap Synchronization   Dag   POP3 Server   Remote Site Setting   Reports   User Manager   Devint Suttings   De	🦻 Eile Action Yiew Language Wir 📁 🐟 🖄 🙆 💀	ndow <u>H</u> elp	
Telephony Settings	Configuration Advanced Advanced Custom Interface Settings Device Management Device Management Settings Global Parameters Global Parameters Global Parameters Custom Interface Setting ELDAP Synchronization Logs POP3 Server Remote Site Setting Reorg Reports Luser Manager	<ul> <li>Fax format for SMTP Forwarding</li> <li>Fax gateway authorization</li> <li>Fax gateway default company</li> <li>Fax gateway domain</li> <li>Forwarding allowed</li> <li>HTML Content</li> <li>HTML Filter</li> <li>IP Address</li> <li>Maximum of the SMTP tasks</li> <li>Smarthost</li> <li>SMS length limit</li> <li>SMTP Enabled</li> <li>SMTP Port</li> <li>The maximum number of incoming connections</li> </ul>	Value Data PDF True 1 True False 20 20 20 160 True 25 50 2
TNEF Extension A	VPIM/SMTP	The number of delivery attempts	10 Automatic

# Sending a Fax

Create a new email message. In the **To...** field, type **fax=** followed by the number of the destination fax machine at(@) your company's server. For example, **fax=1234567890@companydomain.com**.

The Subject line and the email message body will be included with the fax as a cover page.

Include the main body of the fax as an attachment to the email.

**Note**: Only **TIFF** and **TXT** formats are supported by default. However, if the server has the appropriate programs installed, other formats can be used (**PDF** requires Acrobat 9 (available on the Avaya Messaging DVD), **DOC** / **DOCX** need MS Office).

Mail	Send	Saved	Discard	Draft autosaved	at 3:07 PM (0	minutes ago	)	ø
Contacts	Jella	Saved	Discard					6
Tasks	<u>To:</u>	fax=1234567890	)@companyd	domain.com				
Compose mail	1	Add Cc   Add Bc	c					
Inbox	Subject:		-					
Buzz 🥩	1 A A A A A A A A A A A A A A A A A A A	Attach a file	insert: Invitat	ion				
Starred 😭	в			<u>∞  </u> ≡ <b>⊡</b>			< Plain Text	Charle Carelline
Sent Mail		₫ ƒ. т. т	8 <del>8</del> 9	999 (= 1= 10	20 M III	= = 4	< Plain Text	Check Spelling <b>*</b>
Drafts (1)	Fax title	page.						
[Gmail]/Outbox	1.000							
[Imap]/Draft								
[Imap]/Drafts								
[Imap]/Outbox								
[Imap]/Sent (1)								
[Imap]/Trash (1)								
Calls								
Calls/Incoming (34)								
Calls/Outgoing clientfolder (1)								
Deleted Items								
Junk E-mail								
OutlookFolder								
OutlookFolder/fahad	Send	Saved	Discard	Draft autosaved	at 3:07 PM (0	minutes ago	)	

Send the email when you're ready.

The message will be accepted by your server and processed into an outgoing fax job.

#### Fax Activation

To prevent spam, once you have clicked the **Send** button, the Avaya Messaging Server will send you an email to confirm that the fax message is to be sent.

This email includes a link which you must click on to authorize the server to send the fax message. Click on the link.

Postmaster to me	
Please click on the link to activat	e your fax request
the Demonstration and Co	METRONAL CONTRACTOR CONTRACTOR
	A
Subject: Subject Received: 20190518150901	Ť
Request ID: 23	
If you are unable to click on the a	bove link, please copy and paste the following URL to a web browse
	., ., .,
Reply -> Forward	
Prepry Protward	

The system will respond with a message verifying that the fax has been queued for sending. The message status can now be tracked in the fax status report folders.



🗸 Send a Message

Fax Jol

X

Send a Fax

Messages

Greetings

Mark Certified - Request read receipt

Save and Close Discard ?

Add CC | Add BCC

 $\checkmark$ 

Messaging

# Sending a Fax through Fax Gadget

The Fax Gadget appears. This can be accessed through Web Access directly, or through a link from other web applications such as Avaya iLink Pro.

To send a fax, click **Send a Fax**.

**Note:** Send a Fax will only available if you have a fax board installed on the server to handle fax routing. Otherwise, faxes can be sent by clicking **Send a Message** and setting the outgoing address to **FAX:** followed by the fax number (e.g. fax:9057079700).

Compose new message

Main Message Attachments

To Las

Subject

Send Later Save and Close Discard ?

Importance Normal Sensitivity Normal

.

Compose new message

e Attachments

Attach File

Send Later

File

Compose new message

Send Later

Description
 Test Message.tif

New Text

New Voice

Attachments

On the **To** field, enter the fax destination number.

It is best to provide all numbers including both country and area code (e.g. 1-123-765-4321).

When you enter the full fax number on this field, the Fax Gadget will automatically add the Fax: qualifier to indicate that this is a fax message.

Click on the **Attachments** tab to add content to this fax message. Any attachments to the fax must be in the **PDF** or **TIFF** formats unless the UC server has been specifically setup to support other file types.

Click the Add button to open the menu shown here.

Select **File** from the menu and click **Choose File...** to browse for the file to be sent as the fax content.

Once the file has been chosen, click **Upload**.

The selected file will now be added as fax content.

Click **Send** to transmit the fax immediately.

Choose File No file chosen		
	Upload	Close
	[ ] pressed	
		×
Discard <b>?</b>		
	Length/Siz	e
	47.4 KB	

The fax message you've sent will now be listed under **Fax Jobs**. You will be able to easily check on the status of the fax to ensure that it has been sent out.

If the status doesn't change to **Sent** within a reasonable amount of time, or if the fax message fails repeatedly, please contact your system administrator for help regarding the matter.

Home »Fax Jobs	
1(905)7079170:9057079170	Created Date: 2019 Jul 26, 8:44
Sending	
1(905)7079170:9057079170	Created Date: 2019 Jun 11, 10:42
Sent: 019 Jun 11, 10:44	
1(416)5551234: 4165551234	Created Date: 2019 May 15, 8:25
Pending (Busy: 5)	
1(416)5551234:4165551234	Created Date: 2019 May 14, 16:38
Failed (No answer)	

# Fax Jobs

Whenever a fax message is sent or received by the UC server, an entry will appear in **Admin > Fax Jobs** so that the administrator can easily view and manage faxing. All fax jobs will appear in one of three folders and will be moved accordingly.

- **Outgoing**: This folder contains the details of all faxes that are currently being sent that have neither finished nor failed.
- **Completed**: This folder contains the details of all faxes that have been successfully sent.
- **Failed**: This folder contains the details of all faxes that could not be sent. The system has stopped trying to send the fax.

Ele Action View Language	Window Help	>				
🇯 📫 🙎 🔐 🚺	Number	Sender	Destination	Status	Created	Completed
🗄 🚱 Avaya IP Office	125	6032: Billy Bond	5003: 5003	Sent	2019-July-31 4:48 PM	2019-July-31 4:49 PM
🖂 🎜 Default	123	6032: Billy Bond	5003: 5003	Sent	2019-July-31 4:36 PM	2019-July-31 4:36 PM
Maibox Structure	121	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 3:51 PM	2019-July-31 3:52 PM
Feature Group	118	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 2:27 PM	2019-July-31 2:27 PM
🐻 Remote Site	117	IX Messaging Serv		Sent	2019-July-31 2:15 PM	2019-July-31 2:17 PM
Routing Table	116	IX Messaging Serv		Sent	2019-July-31 2:12 PM	2019-July-31 2:14 PM
E Voice Menu	115	6032; Billy Bond	5003: <5003>	Sent	2019-July-31 2:00 PM	2019-July-31 2:02 PM
i Customize TUI	113	6035	5003: pagenumberfix	Sent	2019-July-31 2:00 PM	2019-July-31 1:58 PM
Co. Print Server	114	6035	5003: pagenumberfix	Sent	2019-July-31 1:46 PM	2019-July-31 1:48 PM
E 🐼 Fax Jobs	113	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 1:40 PM	2019-July-31 1:42 PM
Outgoing	102	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 11:59 AM	2019-July-31 12:00 PM
🗈 📁 Completed	101	6032: Billy Bond	5003: iames	Sent	2019-July-31 11:47 AM	2019-July-31 11:48 AM
🕑 🂭 Failed	100	6032; Billy Bond	5003: <5003>	Sent	2019-July-31 11:01 AM	2019-July-31 11:02 AM
H G Storage	95	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 10:33 AM	2019-July-31 10:33 AM
TSE IMAP Server	94	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 10:23 AM	2019-July-31 10:24 AM
Voice Server	93	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 10:21 AM	2019-July-31 10:22 AM
E MEGATRON - (Active)	93	6032: Billy Bond	5003: <5003>	Sent	2019-July-31 10:03 AM	2019-July-31 10:03 AM
Advanced	74	6032: Billy Bond	5003: xxx	Sent	2019-July-30 4:03 PM	2019-July-30 4:05 PM
Configuration	71	6032: Billy Bond	5003: test	Sent	2019-July-30 3:27 PM	2019-July-30 3:29 PM
	68	6032: Billy Bond 6032: Billy Bond	5003; test 5003; tacob	Sent		
	65		5003: jacob	Sent	2019-July-30 2:37 PM	2019-July-30 2:39 PM
		6032: Billy Bond	5003: dave		2019-July-30 2:11 PM	2019-July-30 2:12 PM
	64	6032: Billy Bond		Sent	2019-July-30 2:09 PM	2019-July-30 2:10 PM
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6032: Billy Bond	(905)7095618: 9057095618	Sent	2019-July-28 5:53 PM	2019-July-28 5:55 PM
	54	6032: Billy Bond	5003: 5003	Sent	2019-July-28 5:50 PM	2019-July-28 5:50 PM
	49	6032: Billy Bond	5003: 5003	Sent	2019-July-28 4:31 PM	2019-July-28 4:31 PM
	48	6032: Billy Bond	5003: 5003	Sent	2019-July-28 4:05 PM	2019-July-28 4:07 PM
	43	6032: Billy Bond	5003: 5003	Sent	2019-July-28 3:06 PM	2019-July-28 3:07 PM
	36	6032: Billy Bond	5003: 5003	Sent	2019-July-28 1:38 PM	2019-July-28 1:40 PM
	35	6032: Billy Bond	5003: 5003	Sent	2019-July-28 1:27 PM	2019-July-28 1:31 PM
	34	6032: Billy Bond	5003: 5003	Sent	2019-July-28 12:38 PM	2019-July-28 12:39 PM
	33	6032: Billy Bond	5003: 5003	Sent	2019-July-28 12:35 PM	2019-July-28 12:36 PM
	32	6032: Billy Bond	5003: 5003	Sent	2019-July-28 10:58 AM	2019-July-28 11:00 AM
	30	6032	5003: <5003>	Sent	2019-July-28 10:32 AM	2019-July-28 10:32 AM

Each of these folders contains the following information for each fax message:

Number: This field displays the job number assigned to the fax.

Sender: This field displays the individual who sent the fax.

Destination: This field displays the Mailbox number to which the fax is directed.

**Status**: This field displays the current status of the fax (Initial / Pending / Sending / Sent / Canceled / Failed-Busy / Failed-No Answer / Failed-Other / Failed).

Created: This field displays date and time the fax was sent.

**Completed**: This field displays date and time the transmission of the fax was completed.

# 21 DIALOGIC SR140 FAX INTEGRATION

# In This Chapter:

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- 269 License Manager
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- 277 Avaya Messaging Configuration
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- 285 Single DID for Fax and Voice

# Introduction

Avaya Messaging permits high volume fax users to integrate their Dialogic SR140 fax software with the voice server platform.

# Pre-Requisites

Install the Avaya Messaging program onto the computer that will act as the **Voice Server**. Ensure that the **Hardware Fax Drivers** option is installed at the **Features Selection** screen during program installation. This will ensure that the necessary program elements are included with Avaya Messaging.

Please select whic	h features you would like to	install.
	Messaging Server Unified Communication Se UC Administrator Web Applications Text to Speech Service Nuance Speech Recogn	Feature Description: Unified Messaging Server This feature will be installed on the local hard
	IMAP_TSE Hardware Fax Driver	This feature requires 10MB on your hard driv I has 6 of 7 subfeatures selected. The subfeatures require 519MB on your hard driv
< III		

# Configuration

Once both the Dialogic SR140 and the Avaya Messaging voice server have both been installed, the fax software must be configured to communicate with the UC platform.

The following procedures must be performed on each computer that is running the SR140 software.

#### License Manager

1. Open the **Brooktrout License Manager** program.

	Sta	rt				
	Administrative Tools	Eas Service Manager	Prine Management	Brooktrout License Manager	Brooktrout Configuration	UCLas
R		4	<b>N</b>	F	ASR	

2. Enable the SR140 license by clicking on the Activate button.



**Note**: The procedure shown here uses the Activation Wizard and an Internet connection. If you have a license file, select **Install** and point the program to the file provided by your vendor.

3. Click Next.



4. Make sure that Automatically is selected as the Activation Method, then click Next.

	License Activation Wizard
·III· Dialogic.	Activation Method How would you like to activate your license?
	Automatically (this computer is connected to the Internet)     Using the interactive web method     Create a request for email or fax
	Tips: If this computer is connected to the Internet, this is an automatic process. Otherwise you can activate your license using another computer by accessing an activation web ate or by sending the activation information using email or fax. Please note: If an SR140 Demo license exists on this machine. It should be removed prior to intailing a permanent: SR140 Dicense. You may remove any SR140 license from the main screen of the Brooktrout License Manager. Please note also that only one Demo license may be used at a time. Select Next to continue
	Select Next to continue.

5. Currently, no License Keys are installed. Click Add.

	License Activation Wizard
•III• Dialogic.	License Keys Please enter all purchased License Keys
	Add Edit Delete
	Help < Back Next > Cancel

6. Enter the SR140 license key number that came with the fax software package. Click **OK** when ready.

Please enter License Key
Please enter License Key
123456-7890
OK Cancel

7. The new license key has been successfully added to the system. Click Next.

	License Activation Wizard
• <b>!!</b> • Dialogic.	License Keys Please enter all purchased License Keys
	Add Edt Delete
	Select Next to continue.  Help < Back Next > Cancel
	Toh Zand Mar 2 Gauge

8. Click **Next** to continue to the **Product Registration** pages.

	License Activation Wizard
•13• Dialogic.	Product Registration This system's activation information has been gathered to verify that the License Key is legitimate and has not been activated on more systems than allowed by the End User License Agreement.
	Please register your product to enable us to better support you. Protecting your information is very important to Dialogic Corporation.
	To view our privacy policy, see
	Select Next to continue.
	Help < Back Next > Cancel

9. Enter the details of the site administrator. All fields are required for registration. Click **Next** when ready.



**10.** Enter all of the required information into the fields provided. This is the site where the software is installed. Click **Next** to continue.

	License Activation Wizard			
·III· Dialogic.	Installation Address and Application Information Company Name* E.R.B. Music			
	Street Address*         Street Address 2           70 West Beaver Creek         Suite 101			
	City* State/Province Richmond Hill Ontario			
	Country* Zip/Postal Code Canada [L4B 3K1			
	Fax / Messaging Application and Version* Avaya IX Messaging 10.8			
	* marks required fields			
	Select Next to continue.			
Help < Back Next > Cancel				

**11.** The program will connect to the Dialogic servers to upload the registration details. This requires a working Internet connection, and must be completed successfully before the license will be activated.

When it has finished, click **Next** to continue.

	License Activation Wizard
·III· Dialogic.	Please wait while your request is processed.
	<b>\$</b>
	Help < Back Next > Cancel

**12.** The new license has been added to the Wizard. Click **Next**.

	License Activation Wizard	x	
·II Dialogic.	Request Status The status of the license activation request		
	License Key         Status           123456-7890         License Activation successful.	Descriptior	
8.	C III	>	
Help < Back Next > Cancel			

**13.** Click **Next** to complete the activation Wizard.



14. The added license appears in the **Brooktrout License Manager**.

8		Br	rooktrout Licen	se Manager			_ 🗆 X
License Utilities Help							
Activate Install Remove	? Help						
Description	Product	Version	Status	Issued	Expires	Node ID	Serial #
SR140-DEV-60-R3-1YR (eDeli	SR140	3.0	Valid	18-Sep-2019	18-Sep-2020	012A3B4CDEF	987654-3-2109876

# Configuration Manager

1. Open the **Brooktrout Configuration Manager** program.



2. At Configuration Tool - Preferences, change Boston Host Service Start Mode to Automatic and click OK.

BTCall Configuration File:	C:\Program Files (x86)\Brooktr
Call Control Configuration File:	C:\Program Files (x86)\Brooktr
INF File:	C:\Program Files (x86)\Brooktr
Firmware File Location:	C:\Program Files (x86)\Brooktr
Log File Location:	C:\Program Files (x86)\Brooktrout\b
Boston Host Service Start Mode:	Automatic 💌

3. When the Configuration Wizard starts, choose Advanced Mode.



4. Enable the option for **SIP**. Click **OK** to continue.

Configure IP Stack
IP Enabled module(s) have been detected in your system. Would you like to configure a Brooktrout IP stack to run on this module(s)?
C None (◦ [SIP] ○ H323
C Both (SIP and H323)
OK Cancel

1. Select BTCall Parameters (All boards).

Enter the path to the appropriate file in the space beside **Country Telephony Parameter File**. By default, this will be: C:\Program Files\Brooktrout\config\BT\_CPARM.cfg

Modify the path according to the location where your administrator has installed the program.

Select your **Country** from the dropdown list.

/BT
- B
- 
ldvan

2. In the left-hand window, select SIP under IP Call Control Modules. Go to the T.38 Parameters tab.

For Fax Transporting Protocol, the recommended value is T.38 only.

۵	Brooktrout Configuration Tool - Advanced	d Mode
File View Options Help		
Image: Apply         Image: Apply	License Help	
Brooktrout (Boston Host Service - Stopped)     Driver Parameters (All boards)	General Information   IP Parameters T.38 Parameters	RTP Parameters
BTCall Parameters (All boards)     G- Call Control Parameters	Fax Transporting Protocol:	T.38 only
Module 0x41: SR140	Generate CED tone over RTP:	Yes
IP Call Control Modules     SIP	Maximum Bit Rate, bps:	33600
31	Media Passthrough Timeout Inbound, msec:	1000
	Media Passthrough Timeout Outbound, msec:	4000
	Media Renegotiate Delay Inbound, msec:	1000
	Media Renegotiate Delay Outbound, msec:	-1
	T30 Fast Notify:	No
	UDPTL Redundancy Depth Control:	<u>5</u> 0 j 5
	UDPTL Redundancy Depth Image:	2 0 <u> </u>
		Show Advanced

3. Move to the IP Parameters tab.

For **Primary Gateway**, enter the **IP address** and **port number** to be used for all outbound fax traffic.

۵ ا	Brooktrout Configuration Tool - Advanc	ed Mode	- <b>D</b> X
File View Options Help			
Image: Apply       Image: Apply       Image: Apply	icense Help		
Brooktrout (Boston Host Service - Stopped)     Driver Parameters (All boards)	exit         Save         Apply         License         Help           Hoat Service - Stopped res (Al boards)         General Information         IP Parameters         T.38 Parameters         RTP Parameters         I           ser (Al boards)         Maximum SIP Sessions:         256         Image: Compared and Com		
BTCall Parameters (All boards)     EI-Call Control Parameters	Maximum SIP Sessions:	256	<u> </u>
Module 0x41: SR140	Primary Gateway:	192.168.0.0	: 5070
IP Call Control Modules     SIP	Additional SIP Gateway #2:		:0
SIF .	Additional SIP Gateway #3:		:0
	Additional SIP Gateway #4:		:0
	Primary Proxy Server:		:0
	Additional Proxy Server #2:		:0
	Additional Proxy Server #3:		:0
	Additional Proxy Server #4:		:0
	Primary Registrar Server URL:		:0
	Additional Registrar Server #2:		:0
	Additional Registrar Server #3:		:0
	Additional Registrar Server #4:		:0
	From Value:	"ETBTFax" <sip:etbtfax@192.168.3.56></sip:etbtfax@192.168.3.56>	
	Contact IPv4 Address:	sr140@192.168.0.0:5070	0 

- 4. For Contact IPv4 Address, enter sr140@ followed by the IP address and port used for inbound faxing. This must be a different port than the one used for the Avaya Messaging voice server (5060).
- 5. Click **Save** to confirm the changes.
- **6.** Click **Apply** to restart all affected services.

۵ ا	Brooktrout Configuration Tool - Advanced Mode
File View Options Help	
Home Back Next Save Apply	Ecense Help
Brooktrout (Boston Host Service - Stopped)     Driver Parameters (All boards)	General Information IP Parameters T.38 Parameters RTP Parameters
- BTCall Parameters (All boards)	Maximum SIP Sessions:
E- Call Control Parameters	Primary Gateway: 192.168.0.0 : 5070

The configuration of the SR140 software is complete.

# Avaya Messaging Configuration

The voice server must be configured to send faxes to the SR140, and to prepare to receive them across the same channel. A setting for incoming, and another for outgoing faxes must be configured on the server using Avaya Messaging Admin.

- 1. Go to Start > All Programs > Avaya Messaging > Avaya Messaging Admin, or click the Avaya Messaging Admin icon on the server desktop. Enter the username and password at the prompt.
- 2. Open Configuration and click on Fax Settings.



 In the right-hand pane, locate the entry for Fax Board Type. Double-click to open its settings. From the dropdown menu, choose Brooktrout SR140. Click OK.

<i>i</i>	i -	Edit String		? X
	Value Name Fax Board Type Value Data Brooktrout SF140 None Brooktrout Shared Brooktrout Shared Dialogic Dialogic Shared Diva Fax Card Eicon		<u>0</u> K	<u>C</u> ancel

 Double-click on Outbound Fax Board Type. Choose Brooktrout SR140 from the dropdown menu. Click OK.



**Hint**: If faxes will only be **received** through the SR140 software, the Outbound Fax Board Type can be set to another value if required.

5. Under Voice Server, select your voice server. Double-click Soft Fax Channels and change its value data from **0** to the number of channels you have. Click **OK** when finished.

🧐 File Action View Window He	elp					
🗢 🄿 🙎 🗟 😹 👔						
<ul> <li>Avaya Messaging</li> <li>Avaya - IP Office</li> <li>Mailbox Templates</li> <li>TSE IMAP Server</li> <li>Voice Server</li> <li>WiN-12345</li> <li>Advanced</li> <li>Configuration</li> <li>Advanced</li> <li>Custom Interface Settings</li> <li>Device Management Settings</li> <li>Device Management Settings</li> <li>Device Management Settings</li> <li>Fax Settings</li> <li>Global Parameters</li> <li>HTTP</li> <li>IMAP Server</li> <li>Logs</li> <li>POP3 Server</li> <li>Remote Site Setting</li> <li>Reorg</li> <li>Remote Site Settings</li> <li>User Manager</li> <li>Telephony Settings</li> <li>VPIM/SMTP</li> </ul>	Parameters Advanced Advanced Advanced Advanced Parameters Description Parameters Paramet	Soft Fax Channels Value Data 3 0	QK	?	X	

6. Double-click **Start Fax Channel Number** and change its value data to **1**. Click **OK** when finished.

Image: Process of the second seco	on View Window Help			
<ul> <li>Avaya - IP Office</li> <li>Advanced</li> <li>Mailbox Templates</li> <li>Name</li> <li>WIN-12345</li> <li>Voice Server</li> <li>WIN-12345</li> <li>Voice Server</li> <li>WIN-12345</li> <li>Voice Channels</li> <li>Advanced</li> <li>Voice Channels</li> <li>Advanced</li> <li>Voice Channels</li> <li>Advanced</li> <li>Voice Channels</li> <li>Soft Fax Channels</li> <li>Description</li> <li>Fax Settings</li> <li>Start Fax Channel IP</li> <li>IMAP Server</li> <li>IMAP Server</li> <li>LDAP Synchronization</li> <li>Logs</li> <li>POP3 Server</li> <li>Voice Veice Value Name</li> <li>Voice Veirostation</li> </ul>				
23 Fax Settings     Clobal Parameters     Global Parameters     Global Parameters     HTTP     HTTP     IMAP Server     LoAP Synchronization     Logs     POP3 Server     Woice Verification     Value Data     Voice Verification     Value Data	Proffice     Prameters     Value Data     Poffice     RAdvanced     Templates     Name     WIN-12345     Primary     True     Advanced     Winverse     Work     Channels     Advanced     Work     Channels     Storn Interface Settings     storn Interface     Settings     Kachanels     Soft Fax     Channels     Soft     Soft			
Remote Site Setting     Reorg     Reports     User Manager     Vier Manager     Vier Manager     Vier Manager     Vier Manager     Vier Manager	Settings Staff Eax Channel Num 0 Ibal Parameters Laternal IP AP Server AP Synchronization P3 Server P3 Server mote Stetsting rg ponts er Manager ephony Settings	ŌK	? ×	

7. Open Configuration > Advanced. Set Disable Fax Detection to False for all entries shown.

File Action View Window He	cip			
🗢 🔿 🙋 🗟 🗟				
<ul> <li>Avaya Messaging</li> <li>Avaya - IP Office</li> <li>Mailbox Templates</li> <li>TSE IMAP Server</li> <li>TSE IMAP Server</li> <li>Custom Interface Settings</li> <li>Device Management Settings</li> <li>Device Management Settings</li> <li>Global Parameters</li> <li>HTTP</li> <li>IMAP Server</li> <li>LDAP Synchronization</li> <li>Logs</li> <li>POP3 Server</li> <li>Reports</li> <li>Reports</li> <li>Ver Manager</li> <li>Reports</li> <li>Ver Manager</li> <li>Ver Manager</li> <li>Ver Manager</li> <li>Ver Manager</li> <li>Reports</li> <li>Ver Manager</li> <li>Ver Manager</li> <li>Ver Manager</li> <li>Ver Manager</li> <li>VerMAnager</li> <li>VerM/SMTP</li> </ul>	Parameters Authentication Key Depth Data Study Consolidated Server Name Backup Consolidated Server Name Backust of Callerld Consolidated Server Path Disable Fax Detection 1 Disable Fax Detection 2 Disable Sanding Undeliverable Message Disable Supervisor Menu Chrorce DoD/JITC password policy Extended Absence Greeting Type Extended Absence Greeting Type Fixed Extension Format Callerld on Message Subject Fixed Extension Format Callerld on Message Subject GDPR compliance HA Synchronization Filter Mode (Id let time Immit (in minutes) for MMC Admin Logg URL Logo URL Logo URL Cop Current On In Record		QK	
	Mailbox Numeric Password Change Mass Recall Installed Maximum Number Of Logon Sessions	False False		

8. Go to Configuration > Fax Settings.

Double-click **Dialing Suffix** and set the **Value Data** field match your **Outside Line Access Code**. Click **OK**. Double-click **Fax Board Type** and set the **Value Data** field to **Brooktrout SR140**. Click **OK**. Double-click **Fax Mail Installed** and set the **Value Data** field to **True**. Click **OK**.



9. Restart the voice server.

10. Once the server is online, open UC Admin and under Voice Server, verify that the Fax Enabled field is set to True.

😥 File Action View Window H	lelp		-
🗢 🔿 🙎 🗟 📓			
Avaya Messaging Avaya - IP Office Mailbox Templates Templates Voice Server Configuration	Parameters Advanced Advanced Description Primary Voice Channels ASR Channels Soft Fax Channels Soft Fax Channels Start Channel Number Start Channel Number Start Fax Channel Num External IP TCP/IP Port Path Resiliency Channels Voice Verification Chan	0 C:\UC\ 0	

 Setup one mailbox to be used as the default destination for incoming fax traffic. In UC Admin, double-click your company to open the properties window. On the **General** tab, locate Fax Extension and specify which mailbox to send faxes into. When ready, click Save.



12. Inbound faxes require routing calls through port 5070 to Avaya Messaging since Brooktrout listens on that port. This requires a DID for each mailbox configured for fax. Add the fax DID number in the Addresses tab of the mailbox. This can be an internal number for the fax DID. For example, for DID 705 213 4567, add the fax extension 4567 which can be dialed from outside and will be routed through port 5070 and will be received into that mailbox. If not properly configured, the fax will be sent to the default system mailbox.

			1
		TI Options   <u>S</u> peech Opti ptions   <u>M</u> essage Options	
🥌 11200: Tes	st DL		
● All ← Defaults ←	Only Phone Numbe	er 💌	
Туре	Address	Description	
✓ E-mail	test@abc.com		
E-mail Fax - Internal Extension	wrong@abc.co 4567	om	
✓ Internal Extension	4567		
✓ Reply to	11200@127.0		
VPIM	11200@127.0		

# Monitoring Channel Activity

#### Setup

To monitor the traffic through the fax software, the configuration file on the Avaya Messaging Voice Server must be setup to point to the correct file locations.

1. On the computer where Avaya Messaging is installed, use a text editor (i.e. Windows NotePad) to open the configuration file. By default, this will be:

#### C:\UC\ETBTFax\Config\ETBTFaxService.ini

Modify the path according to the location where your administrator has installed the program.

ETBTFaxService - Notepad	x
<u>Eile Edit Format V</u> iew <u>H</u> elp	
[SR140] Config = "btcall.cfg"	^
[General] Debug = True	
[Advanced] Remote DB =	
[Web Server] Http Port = 30070	
	$\sim$
٢	►

 Modify the Config entry to include the full path to the btcall.cfg file. By default, this will be: "C:\Program Files\Brooktrout\config\btcall.cfg"

Be sure to enclose the path within double quotation marks "". Modify the path according to the location where your administrator has installed the program.

Enter the **HTTP Port** number that will be used to monitor fax channel activity.

3. When all changes have been made, click **File > Save**.

#### Monitoring via Browser

To monitor activity on a fax server, open a browser and navigate to: http://localhost:30070

Change **localhost** to the IP address of the fax server if you want to monitor from a different computer. Change the **port number** (30070 in this example) to the value entered in step 2 above.

# Fax Detect and Deflect

If an SR 140 is installed and configured on your system, a single telephone number can be setup to receive both voice and fax telephone calls.

During the auto attendant playback, and also during the personal message playback, the system monitors the call for the presence of a fax signal.

If no signal is detected, it is handled as a standard voice call.

If a fax carrier signal is detected, the call is routed to the fax number configured in the recipient's mailbox.

# Configuring Avaya Messaging

- **1.** Open UC Admin and login.
- 2. Go to Configuration > Advanced.



- 3. In the right-hand panel, double-click **Disable Fax Detection** and set the value to **False**. Click **OK**.
- 4. Repeat for Disable Fax Detection 1 and Disable Fax Detection 2.

Edit String	?	Х
Value Name		
Disable Fax Detection	 	
, Value Data		
Value Data		
True		
True		

5. Open a user mailbox and go to the Addresses tab.

😹 Mailbox				?	×
Mailbox					
% + <b>/ ×</b> ∎	3 ( <u>)</u>	н 🗎 🖻 🚍			
	Dptions   Locations   ced   Mailbox Options				
2810	)2: David Inn	es			
(€ All ⊂ D	efaults C Only Phor	ne Number 🔍 🔻			
Type External E: ✓ Internal Ex	Address de 1(905)5551212 ten 78102	Description Remote			
	Add >>	> <u>R</u> emove	<u>E</u> dit		
				Summary Vi	iew >>>

Phone Number
 E-mail / VPIM
 Beeper
 Fax
 SMS Phone
 SMS E-mail

7. Provide a human readable description for the fax connection. **Type**: Select one of the following options from the dropdown list.

**Fax - External Extension**: Enter the Country, the Area/City Code, and the fax number that will receive fax calls.

**Fax - Internal Extension**: Enter the internal company extension (6 digit maximum) that will receive fax calls.

Select the **Node** if more than one are present.

6. Click Add and select Fax from the list of options.

When ready, click OK.

8. Click **Save** to complete the configuration.

**Note:** If no fax number is configured for the mailbox, the fax is routed to the extension specified under **Company > General > Fax Extension**.

	▼ ▶ ₩ € ♥ /2	
Passwords/Security		<u>C.O./Channel Assignm</u>
Admin Broadcast Mess General Advance		Iptions <u>S</u> peech Options Integrated
Company Number Company Name	1 Default	Customize TUI
	<u>.</u>	Customize TUI Voice Menu
Company Name Domain Name / IP	Default	
Company Name Domain Name / IP Address	Default	Voice Menu
Company Name Domain Name / IP Address Phone Number	Default 127.0.0.1	Voice Menu



# Single DID for Fax and Voice

It is possible to use a single DID number for both voice and inbound fax traffic. While the voice mailbox greeting is being played, the system continues to listen for a fax signal. If one is detected, the system stops playing the greeting and begins the handshaking procedure necessary to receive the fax. A greeting must be a minimum of 6 seconds long to allow enough time for the detection of the fax tone.

This section covers the process to setup a single DID number to handle both voice and inbound fax traffic.

Avaya Aura Session Manager is required for this installation. ASM must be setup and running before proceeding further.

#### Overview

To use a single DID number for voice and fax, add to your existing voice messaging integration via the Avaya Aura Session Manager. Refer to the existing Aura Session Manager – Avaya Messaging configuration guide for complete details.

In this example, the voice messaging service number has been configured as 78000. Aura extensions are already configured to use 78000 for voice messaging.

This configuration shows one Aura extension / mailbox user (71802) with voice messaging coverage to 78000. With voice messaging working, enable single number faxing for this user. Refer to the previous sections for the installing and configuring the SR140 fax service on Avaya Messaging.

We will configure the unique prefix 52 for the SR140 service on the Avaya Messaging server, and then assign a unique fax internal extension number (52002) to the mailbox user. Communication Manager must be configured to use the prefix 52 to take the SIP route to Session Manager. Fax internal extensions are configured through Avaya Messaging Admin only so that the fax service can deliver the message to the correct mailbox. These extensions do not need to be configured on CM.

#### Session Manager Configuration

This section covers configuring the Avaya Messaging server SR140 as a SIP entity of Session Manager. We will assign port **5070** as a SIP route prefix for the SR140 SIP entity. In this example, prefix **52** (length = 5) is used.

#### Avaya Messaging Configuration

Here we use the Avaya Messaging Admin to give each user a unique fax internal extension starting with **52**. In this example, the user's primary extension is **78102**, and their fax internal extension is **52002**.

#### Communication Manager Configuration

Using Communication Manager, configure prefix 52 to take the SIP route to Session Manager. The same SIP route can be employed for both voice and fax messaging.

Additional user mailboxes, such as 78103 and 78104, will have fax internal extensions configured as 52003, 52004, etc.

#### A Sample Use Case

An incoming fax is routed to extension 78102 and the user doesn't answer the call and it goes to voicemail.

The Caller hits the Send button on the fax machine as soon as call is answered. The Avaya Messaging server detects the fax tone and initiates a call transfer (SIP REFER) to user 78102's internal fax extension (52002) via Session Manager.

Session Manager routes the call to CM, and CM routes it back to SM based on prefix 52 and then onto the Avaya Messaging SR140 service. The SIP call transfer is completed. The SR140 connects to the call, processes the fax job and deposits the fax image into mailbox 78102 (based on fax internal extension 52002).

## Configuring Session Manager

#### 1. Add SR140 as SIP Entity

Login to the Session Manager Web UI and open **Element > Routing > SIP Entities > Add new SIP entity**. Configure the following items.

SIP Entity Details		Commit Cancel
General	• Name:	AM1234-faxing
	* FQDN or IP Address:	Second Seco
		Other
	Notes:	Concerned and
	Adaptation:	
	Location:	DC3
	Time Zone:	America/New York
	* SIP Timer B/F (in seconds):	4
	Minimum TLS Version:	Use Global Setting 🗸
	Credential name:	
	Securable:	
	Call Detail Recording:	none 🗸
	CommProfile Type Preference:	
Loop Detection		
	Loop Detection Mode:	On 🗸
	Loop Count Threshold:	5
	Loop Detection Interval (in msec):	200
Monitoring		
	SIP Link Monitoring:	Use Session Manager Configuration 🖂
	CRLF Keep Alive Monitoring:	Use Session Manager Configuration
	Supports Call Admission Control:	
	Shared Bandwidth Manager:	

Name: Enter the Messaging server name.

**FQDN or IP Address**: Type the **IP Address** or the **Fully Qualified Domain Name** of the Messaging server. When using FQDN, make sure that Session Manager resolves to the correct IP address.

Type: Choose Other from the list.

Location: Select your location from the dropdown list.

	Overrid	le Port & Transport with D	NS SRV:				
Add Remove							
1 Item 🤤							Filter: Enal
Name Name		5IP Entity 1	Protocol Port	SIP Entity 2	Port	Connection Policy	Deny New Service
SM4_AM1234-faxong		RSM4	TCP U \$5070	AM1234-faxing	* 5070	trusted 😺	

**Entity Links**: Use port **5070** and the **TCP** protocol to route to the Avaya Messaging server SR140 faxboard.

Note: This entity must be different from the entity used for Avaya Messaging's voice calling.

#### 2. Check Connection between SM and AM SR140

The Dialogic / Brooktrout SR140 configuration on the Avaya Messaging server must be configured before proceeding. Refer to the previous sections of this chapter for details.

Open the Session Manager UI and go to **Element > Session manager > System status > SIP Entity monitoring**. Verify that the connection is **UP**.



**Hint**: If the connection fails, check that the **Dialogic / Brooktrout** configuration is correct, then restart the **Dialogic Corporation Boston Host service** on the Avaya Messaging server.

This is the Brooktrout configuration tool for Session Manager (SIP Asset IP address 192.168.98.76) and the Avaya Messaging server (192.168.12.34) connection.

le View Options Help ☆ → ↓ ↓ ↔ ome Back Next Save Apply	E ? Ucense Help		
Brooktrout (Boston Host Service - Running)	General Information IP Parameters T.38 Parameters RTP Para	meters	
<ul> <li>Driver Parameters (All boards)</li> <li>BTCall Parameters (All boards)</li> </ul>	Maximum SIP Sessions:	256	
Call Control Parameters     Module 0x41: SR140	Primary Gateway:	192.168.98.76	: 5070
- IP Call Control Modules - SIP	Additional SIP Gateway #2:		: 0
- SIP	Additional SIP Gateway #3		: 0
	Additional SIP Gateway #4:		:[0
	Primary Proxy Server:		:[0
	Additional Proxy Server #2:		:[0
	Additional Proxy Server #3:		:0
	Additional Proxy Server #4:		:0
	Primary Registrar Server URL:		:0
	Additional Registrar Server #2:		:0
	Additional Registrar Server #3:		:[0
	Additional Registrar Server #4:		:0
	From Value:	"ETBTFax* <sip.etbtfax@192.168.12.34></sip.etbtfax@192.168.12.34>	
	Contact IPv4 Address:	sr140@192.168.12.34:5070	
	Usemame:	· .	
	Session Name:	pr140	
	Session Description:		
	Description URI:		
	Email Address:		

Primary Gateway: Enter the IP address of the Session Manager server. Use Port 5070.

From Value: Input the string "ETBTFax"<sip:etbtfax@192.168.12.34>.

**Contact IPv4 Address**: Enter **sr140@** followed by the IP address and port (5070) used for inbound faxing. For example: **sr140@192.168.12.34:5070**.

**Username**: Place a dash - in this field.

Session Name: Type sr140 here.

Click **Save** to confirm the changes. Click **Apply** and restart the **Dialogic Corporation Boston Host service**. The configuration of the SR140 software is complete.

#### 3. Dial Pattern

Add a new dial pattern for fax calling.

	al						
		* Pattern: 52 * Hin: 5 * Hax: 5 Emergency Call: 5 STP Denain: -41.L- 50 Notes:					
Add	ating Locations and Ro Remove	uting Policies					
	Remove	uting Policies					Fiter: Enable
Add 4 Items	Remove s	Uting Policies	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Filter: Enable Routing Policy Notes
Add 4 items	Remove s			Rank	Routing Policy Disabled		Routing Policy
Add 4 Items	Remove s 😴 Driginating Location Name 🛪	Originating Location Notes	Name	- Contract		Destination	Routing Policy
Add 4 Items 0	Remove s 😴 Driginating Location Name 🛪	Originating Location Notes (Network Nonsyl) (Second after for (NotOC), with Off assumance (NPA III) no mean Official PL Second and the Not (Notoestandaucud of III) for National Act of the Second and The OC). Official PL Second at the Second Act of the Second act of the Second act of the OC).	Name AM1234-faxing AM1234-faxing AM1234-faxing	- Contract	D	Destination AM1234-faxing	Routing Policy
Add 4 items 0	Remove	Originating Location Notes	Name AM1234-faxing AM1234-faxing AM1234-faxing	- Contract		Destination AM1234-faxing AM1234-faxing	Routing Policy

Add a value for **Pattern** ID that has not been previously used by SMGR. In this example, **52** is used. Enter the minimum and maximum lengths.

Originating Location and Routing Policies: Add the SR 140 fax messaging server entity for routing Policies.
## Avaya Messaging Server Configuration

## 1. Create a Mailbox for the Fax Extension

Launch Avaya Messaging Admin and open the user's mailbox at the Addresses tab.

Click **Add** and select **Fax**.

Enter a **Description** to identify this address.

For **Type**, choose **Fax-Internal extension** and enter the fax extension **Number**. This number must be different than the mailbox extension, and must begin with the prefix associated with the SR140 SIP entity.

In this example, prefix 52 was configured, the mailbox user's primary extension is 78102, and the fax internal extension is 52002.



Note: The Fax number must begin with the prefix created in the **Dial Pattern**.

**Note**: Each mailbox must have a unique fax extension. In this example, mailboxes 78103 and 78104 have the fax internal extension numbers 52003 and 52004 respectively.

## Communication Manager Configuration

### 1. Create Signaling Group

Using CM administrator, enter the command: **add signaling-group <number>**. Replace **<number>** with the value that will identify this group. It must be a unique number not used by any other group.

For example, add signaling-group 4.

£					-		×
change signaling-group 4					Page	1 of	3
	SIGNALING	GROUP					
Group Number: 4 Gr	oup Type:	sip					
IMS Enabled? <u>n</u> Transpor Q-SIP? n	t Method:	tls					
IP Video? y Priori Peer Detection Enabled? y Pee			Enforc	e SIPS		or SRTP	
Prepend '+' to Outgoing Calling			ng/Conne	cted Pi	ablic N	lumbers	? y
Remove '+' from Incoming Called/	calling/A	TET CTHR/					
		TEL CTHG	Dartezoan	57			
			end Node				
Alert Incoming SIP Crisis Calls?		Far-		Name:	SM4		
Alert Incoming SIP Crisis Calls? Near-end Node Name: <u>procr</u>		Far- Far-er	end Node	Name: Port:	SM4 5061		
		Far- Far-er	-end Node nd Listen	Name: Port:	SM4 5061		
Alert Incoming SIP Crisis Calls? Near-end Node Name: <u>procr</u> Near-end Listen Port: <u>5061</u>		Far- Far-er ar-end 1	-end Node nd Listen	Name: Port: egion:	SM4 5061 1	ceeded	? <u>n</u>
Alert Incoming SIP Crisis Calls? Near-end Node Name: <u>procr</u> Near-end Listen Port: <u>5061</u> Far-end Domain: <u>aaml.com</u>	<u>n</u> 	Far- Far-er ar-end 1	end Node ad Listen Network R ass If IP	Name: Port: egion: Thres!	SM4 5061 1 nold Ex	ceeded	
Alert Incoming SIP Crisis Calls? Near-end Node Name: <u>procr</u> Near-end Listen Port: <u>5061</u> Far-end Domain: <u>aaml.com</u> Incoming Dialog Loopbacks: <u>elimi</u> DTMF over IP: <u>rtp-paylo</u>	n F	Far-er Far-er ar-end M Bypa	end Node ad Listen Network R ass If IP	Name: Port: egion: Thresh 3389 (	SM4 5061 1 hold Ex	Noise	? n
Alert Incoming SIP Crisis Calls? Near-end Node Name: <u>procr</u> Near-end Listen Port: <u>5061</u> Far-end Domain: <u>aaml.com</u> Incoming Dialog Loopbacks: <u>elimi</u>	n F	Far-er Far-er ar-end M Bypa	end Node d Listen Network R Ass If IP RFC rect IP-I	Name: Port: egion: Thresh 3389 ( P Audio	SM4 5061 1 nold Ex Comfort	Noise	? ? ?
Alert Incoming SIP Crisis Calls? Near-end Node Name: <u>procr</u> Near-end Listen Port: <u>5061</u> Far-end Domain: <u>aaml.com</u> Incoming Dialog Loopbacks: <u>elimi</u> DTMF over IP: <u>rtp-paylo</u>	n F	Far-er Far-er ar-end M Bypa	end Node d Listen Network R Ass If IP RFC rect IP-I	Name: Port: egion: Thresh 3389 ( P Audio P Audio	SM4 5061 1 hold Ex Comfort conne b Hairg	Noise ections pinning	? ?? ?

## 2. Configure Trunk Group

Using CM administrator, enter the command: **add trunk-group <number>**. Replace **<number>** with the value that will identify this group.

**Signaling Group**: Enter the value for signaling-group created above.

8					-	31		×
change trunk-g	group 4				Page	1	of	4 ^
		TRUNK GROUP						
Group Number:		Group Type:		CDR				
Group Name:			1	TN: 1	1	AC:	*004	
Direction:		Outgoing Display?						
Dial Access?			Night	Service:				-
Queue Length:	0							
Service Type:	tie	Auth Code?	n					
			Member As	granent	Method		uto	
				Signaling	Group	: 4		
			Nu	INCE OF M	ember	- 5	0	
						-		
								~

## 3. Define Route Pattern

Using CM administrator, enter the command: **change route-pattern <number>**. Replace **<number>** with the value that will identify this pattern.

**Grp No**: Enter the trunk-group number created above.

₽°	- 0	$\times$
change route-pattern 4 Pag	e lof	4 ^
Pattern Number: 4 Pattern Name: AAM1234		
SCCAN? <u>n</u> Secure SIP? <u>n</u> Used for SIP stations? <u>n</u>		
Grp FRL NPA Pfx Hop Toll No. Inserted	DCS/	IXC
No Mrk Lmt List Del Digits	QSIG	;
Dgts	Intw	7
1.4 0	n	user
2:0	<u>n</u>	user
3:	<u>n</u>	user
4:		user
5:		user
6:	<u><u>n</u></u>	user
BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM Sub Nu	mbering	LAR
0 1 2 M 4 W Request Dgts Fo	rmat	
1: yyyyn n rest le	v0-pvt	none
2: <u>y y y y n n</u> <u>rest</u> <u>le</u>	v0-pvt	none
3: <u>y y y y n n</u> <u>rest</u>		none
4: <u>y y y y n n</u> <u>rest</u>		none
5: <u>y y y y y n n</u> <u>rest</u>		none
6: yyyyyn n rest		none

4. Add the Fax Prefix to the Dial Plan

Using CM administrator, enter the command: change dialplan analysis.

**Dialed String**: Add the prefix configured in SMGR for fax extensions.

change dialplan analysis		Page 12 of 13	2 ^
	DIAL PLAN ANALYSIS TABL	E	
	Location: all	Percent Full: 18	
Dialed Total Call String Length Type 52 5 ext 	Dialed Total Call String Length Type	Dialed Total Call String Length Type	
Real and a second s			

### 5. Change aar Analysis

Using CM administrator, enter the command: change aar analysis.

**Route Pattern**: Use the same route pattern number configured for the Avaya Messaging server voice call that routes to SM. In this example, route pattern **4** is used for both the fax number and the call pilot number.

æ						-		×
change aar analysis 5	2				Pag	e	2 of	2 /
	AAR DI	GIT ANALY	SIS TAB	LE				
		Location:	all		Percent	Fu	11: 2	
Dialed	Total	Route	Call	Node	ANI			
String	Min Max	Pattern	Type	Num	Regd			
52	5 5	4	lev0		n			
					n			
					n			
								-

### 6. Extension for Mailbox Number

Using CM administrator, enter the command: **change station <mailbox number on messaging server>**. Replace **<mailbox number on messaging server>** with the user's voice extension (**78102**).

Coverage Path 1: Set the coverage path that uses the hunt group configured for the voice mail number.

B			-		>	×
change station 78102		I	Page	1 01	£ 5	1^
		STATION				
Extension: 78102		Lock Messages? n		BC	C: M	
Type: 9650		Becarity coue.		TI	N: 1	
Port: S042896		Coverage Path 1: 79		COR	: 1	
Name: H.323		Coverage Dath 31		COS	5: 1	
Unicode Name? n		Hunt-to Station:		Tests	s? <u>y</u>	
STATION OPTIONS						
		Time of Day Lock Table	::			
Loss Group:	19	Personalized Ringing Pattern	1: 1			
		Message Lamp Ext: 78	3102			
Speakerphone:	2-way	Mute Button Enabled	i? y			
Display Language:	english	Button Modules	s: 0			
Survivable GK Node Name:			_			
Survivable COR:	internal	Media Complex Ext	::			
Survivable Trunk Dest?	<u>v</u>	IP SoftPhone	:? <u>y</u>			
		IP Video Softphone	2? V			
	Short	/Prefixed Registration Allowed		fault		
		Customizable Labels	3? <u>y</u>			
						v

The configuration is complete.

# 22

# DIALOGIC SR140 SECURE FAX

# In This Chapter:

294	Introduction
294	Pre-Requisites
295	Configuration
295	License Manager

- 300 Configuration Manager
- 315 Avaya Messaging Configuration

## Introduction

Avaya Messaging can be setup to securely send and receive faxes through the Dialogic SR140 fax software. The transmissions use Transport Layer Security (TLS) to encode the data. This method complies with JITC requirements for secure communications.

Sites receiving secure faxes must also be setup to use the TLS protocol. Incoming faxes must also be secured using TLS protocols.

## Pre-Requisites

Install the Avaya Messaging program onto the computer that will act as the **Voice Server**. Ensure that the **Hardware Fax Driver** option is enabled at the **Features Selection** screen during program installation. This will ensure that the necessary program elements are included with Avaya Messaging.

Select Features Please select which features you would like to	install.
Unified Messaging Server     Unified Communication S-     UC Administrator     Web Applications     Text to Speech Service     Nuance Speech Recogn     MAP_TSE     Hardware Fax Driver	Feature Description: Unified Messaging Server This feature will be installed on the local hard drive. This feature requires 10MB on your hard drive. It has 6 of 7 subfeatures selected. The subfeatures require 519MB on your hard drive.
< III >	

For High Availability (HA) installations, the SR140 can be installed on the Primary or any of the Secondary servers.

**Important!** Secure Fax using the SR140 fax software requires 2 licenses from Dialogic; the standard fax license, and a secure fax license.

## Configuration

Once the Dialogic SR140 and the Avaya Messaging voice server are both operating, the fax software must be configured to communicate with the UC platform.

## License Manager

1. Open the Brooktrout License Manager program.



2. Enable the SR140 license by clicking the Activate button.

Ð	Brooktrout License Manager	_ <b>_</b> ×
License L	Utilities Help	
Notivate	X         Y           Install         Remove         Help	
Descriptio	on	
	te an SR140 license press the <activate> icon or select <license-activate license=""> from the m</license-activate></activate>	ienu.
	te an sk Høj license press the KACtivate> Icon of select KLICense-Activate license> from the m he Help for additional information on activating SR140 licenses.	ienu.

**Note:** The procedure shown here uses the **Activation Wizard** and an Internet connection. If you have a license file, select **Install** and point the program to the file provided by your vendor.

3. Click Next.



4. Enable Automatically... as the Activation Method, then click Next.

	License Activation Wizard	X
·III· Dialogic.	Activation Method How would you like to activate your license?	
	Judinaucely and computer is computer is computer in the method     C Using the interactive web method     C Create a request for email or fax	
	Tips: If this computer is connected to the Internet, this is an automatic process. Otherwise you can activate your license using another computer by accessing an activation web site or by sending the activation information using email or fax. Please note: If an SR140 Demo license exists on this machine, it should be removed prior to installing a permanent SR140 Dicense. You may remove any SR140 license from the main screen of the Brockforut License Manager. Please note also that only one Demo license may be used at a time. Select Next to continue	
	Help < <u>Back</u> <u>Next</u> > <u>Cancel</u>	

5. Currently, no License Keys are installed. Click Add.

	License Activation Wizard
• <b>!}!</b> • Dialogic.	License Keys Please enter all purchased License Keys
	Add Edit Delete
	Help < Back Next > Cancel

6. Enter the SR140 **standard** license key number that came with the fax software package. Click **OK** when ready.

Please enter License Key	x
Please enter License Key	
123456-7890	
OK Cancel	_

7. The new license key has been successfully added to the system. Click Add.

	License Activation Wizard	x
-III- Dialogic.	License Keys Please enter all purchased License Keys           123456-7890	
	Help < Back Next > Cancel	

8. Enter the SR140 secure fax license key number. Click OK.

Please enter License Key
Please enter License Key
987654-3210
OK Cancel

9. Both license keys have been successfully added to the system. Click **Next**.

	License Activation Wizard
•t <b>i</b> t• Dialogic.	License Keys Please enter all purchased License Keys 123456-7890 987654-3210
	Select Next to continue.

**10.** Click **Next** to continue to the **Product Registration** pages.



**11.** Enter the details of the site administrator. All fields are required for registration. Click **Next**.

	License Activation Wizard	x
• <b>¦</b> ₽ Dialogic.	Product Owner's Information Please enter the name and email address of th person responsible for the day-to-day running the installation.	
	First Name*         Last Name*           Neil         [Kendrick           Email Address*         Phone Number*           neilk@erbmusic.com         [19057079700	
	* marks required fields	
	Select Next to continue.	
	Help < Back Next >	<u>C</u> ancel

**12.** Enter the details for the location where the software is installed. Click **Next** to continue.

	License Activation Wizard	X
·III· Dialogic.	Installation Address and Application Information Company Name* E.R.B. Music	
	Street Address* Street Address 70 West Beaver Creek Suite 101	2
	City* State/Province Richmond Hill Ontario	•
	Country* Zip/Postal Coo Canada L4B 3K1	le
	Fax / Messaging Application and Version* Avaya IX Messaging 10.8	
	* marks required fields	
	Select Next to continue.	
	Help < Back Next >	Cancel

**13.** The program will connect to the Dialogic servers to upload the registration details. This requires a working Internet connection, and must be completed before the license will be activated.

When it has finished, click **Next** to continue.

	License Activation Wizard
·II: Dialogic.	Please wait while your request is processed.
	<u> </u>
	Help < Back Next > Cancel

14. The new licenses have been activated on the system. Click Next.

	License Activa	ation Wizard	x
·III· Dialogic.	Request Status The status of the lic	ense activation request	
	License Key	Status	Description
	123456-7890 987654-3210	License Activation successful. License Activation successful.	
	<	III	>
	Help	< Back Next >	Cancel
	Heip	< Dack Next >	

**15.** Click **Finish** to complete the Wizard.

	License Activation Wizard
·IJI· Dialogic.	
	Congratulations. License key 123456-7890 has been successfully activated. Because you activated automatically, you do not need to install licenses.
	Select Finish to Exit the Wizard.
	Help < Back Einish Cancel

**16.** The added licenses appear in the **Brooktrout License Manager**.

8	Broo	ktrout License Manager			_ 🗆 🗙
License Utilities Help					
Activate Install Remove Help					
Description Product	Version Sta	itus Issued	Expires	Node ID	Serial #
SR140-DEV-1YR-Feature-Secur SR140	1.0 Va	id 13-Oct-2019	13-Oct-2020	012A3B4CDEF	123456-7-8901234
SR140-DEV-60-R3-1YR (eDeliv SR140	3.0 Va	id 18-Sep-2019	18-Sep-2020	012A3B4CDEF	987654-3-2109876

## Configuration Manager

1. Open the **Brooktrout Configuration Manager** program.



2. At Configuration Tool - Preferences, change Boston Host Service Start Mode to Automatic and click OK.

Brooktrout Configur	ation Tool - Preferences 🛛 💌
BTCall Configuration File:	C:\Program Files (x86)\Brooktr
Call Control Configuration File:	C:\Program Files (x86)\Brooktr
INF File:	C:\Program Files (x86)\Brooktr
Firmware File Location:	C:\Program Files (x86)\Brooktr 🔁
Log File Location:	C:\Program Files (x86)\Brooktrout\b
Boston Host Service Start Mode:	Automatic
	ок

**Hint**: This screen will only appear the first time you run the program. Thereafter, this screen will be skipped.

3. When the Configuration Wizard starts, choose Advanced Mode.



4. Enable the stack option for **SIP**, then click **OK** to continue.

Configure IP Stack
IP Enabled module(s) have been detected in your system. Would you like to configure a Brooktrout IP stack to run on this module(s)?
C None C [SIP] C H323
C Both (SIP and H323)
OK Cancel

Hint: This screen will only appear the first time you run the program. Thereafter, this screen will be skipped.

5. In the left-hand panel, click SIP beneath IP Call Control Modules. Go to the IP Parameters tab and specify the following for your site.

Home Back Next Save Apply	License Help	
Brooktrout (Boston Host Service - Running)     Driver Parameters (All boards)	General Information IP Parameters T.38 Param	neters RTP Parameters
- BTCall Parameters (All boards)	Maximum SIP Sessions:	256
Call Control Parameters Module 0x41: SR140	Primary Gateway:	192.168.100.101 : 5
- IP Call Control Modules - SIP	Additional SIP Gateway #2:	
Sir	Additional SIP Gateway #3:	D]:
	Additional SIP Gateway #4:	: 0
	Primary Proxy Server:	:]0
	Additional Proxy Server #2:	:]0
	Additional Proxy Server #3:	: 0
	Additional Proxy Server #4:	:]0
	Primary Registrar Server URL:	:]0
	Additional Registrar Server #2:	:]0
	Additional Registrar Server #3:	:]0
	Additional Registrar Server #4:	: 0
	From Value:	"ETBTFax" <sip:etbtfax@192.168.0.1></sip:etbtfax@192.168.0.1>
	Contact IPv4 Address:	sr140@192.168.0.1:5061
	Usemame:	-
	Session Name:	sr140
	Session Description:	
	Description URI:	
	Email Address:	
	Phone Number:	

**Primary Gateway**: Enter the IP address of the Avaya Aura Communication Manager server. This was initially configured on the device. Add the port value that the CM uses for faxing in the second field.

From Value: In this field, (including the quotes) type "ETBTFax" <sip:etbtfax@ followed by the IP address of the Avaya Messaging voice server. For example: "ETBTFax" <sip:etbtfax@192.168.0.1> .

**Contact IPv4 Address**: Add **sr140** followed by the IP address and the port used by the Avaya Messaging voice server. For example: **sr140@192.168.0.1:5061**.

Session Name: Enter sr140 in this field.

When ready, click Show Advanced>>.

6. Specify the following for your site.

	Brooktrout Configuration Tool - Advance	ed Mode 📃 🗖 🗙		
File View Options Help				
Image: Apply       Image: Apply       Image: Apply	Eicense Help			
Brooktrout (Boston Host Service - Running)	General Information IP Parameters T.38 Parameter	rs RTP Parameters		
Driver Parameters (All boards)     BTCall Parameters (All boards)	IP Preference For SIP:	IPv4 only		
Call Control Parameters Module 0x41: SR140	IPv4 Interface For SIP:			
IP Call Control Modules	IPv6 Interface For SIP:			
SIP	IPv4 Interface Port:	5061		
	IPv6 Interface Port:	5061		
	Redirect As Calling Party:	0 0 - 1		
	T1 Timeout Retransmission:	500		
	Maximum INVITE Retransmissions:	7 1 255		
	Redirect As Called Party:	0 0 1		
	TCP Enable:	TRUE		
	User-Agent:	Brktsip/6.8.0B5 (Dialogic)		
	RFC 3325 Identity:	0 0 2		
	Transport Protocol:	TLS		
	Response code for Call Not Answered:	486 400 J 699		
	Response code for Unsupported Media:	488 400 699		
	Response code to reject T.38 renegotiation:	488 400 <u> </u>		
	100 TRYING Enable:	TRUE		
	RFC 6913 Enable:	FALSE		
	SIP OPTIONS UP Interval:	120 60 3600		
	SIP OPTIONS DOWN Interval:	60 30 3600		
	SIP over TLS Enable:	TRUE		
	TLS config filename:	siptls.cfg		
	SIP over TLS port:	5061		
	Block UDP port:	FALSE		
	Block TCP port:	TRUE		
	Secure RTP Enable:	TRUE		
	Secure RTP config filename:	srtp.cfg		
	FIPS Enable:	FALSE		
		Hide Advanced <<		
		`		

IP Preference for SIP: Select IPv4 only from the dropdown list.
IPv4 Interface Port: Enter the port used for faxing.
IPv6 Interface Port: Enter the port used for faxing.
TCP Enable: Set this to TRUE.
Transport Protocol: Choose TLS from the dropdown list.
SIP over TLS Enable: Set this to TRUE.
SIP over TLS Port: Enter the port used for faxing.
Block UDP port: Set this to FALSE.
Block TCP port: Set this to TRUE.
Secure RTP Enable: Set this to TRUE.
FIPS Enable: Set this to FALSE.

7. Go to the **T.38 Parameters** tab and specify the following for your site.

🎝 E	Brooktrout Configuration Tool - Advanced	i Mode 📃 🗖 🗙		
File View Options Help				
Image: Constraint of the state     Image: Constraint of the state       Home     Back     Next     Save     Apply	ن ۲ License Help			
Brooktrout (Boston Host Service - Running)     Driver Parameters (All boards)	General Information IP Parameters T.38 Parameters	RTP Parameters		
BTCall Parameters (All boards)     GI- Call Control Parameters	Fax Transporting Protocol:	G.711 pass-through only		
Module 0x41: SR140	Generate CED tone over RTP:	Yes 💌		
IP Call Control Modules     SIP	Maximum Bit Rate, bps:	33600 💌		
···· SIP	Media Passthrough Timeout Inbound, msec:	1000		
	Media Passthrough Timeout Outbound, msec:	4000		
	Media Renegotiate Delay Inbound, msec:	1000		
	Media Renegotiate Delay Outbound, msec:	-1		
	T30 Fast Notify:	No		
	UDPTL Redundancy Depth Control:	<u>5</u> 0 j 5		
	UDPTL Redundancy Depth Image:	2 0 <u> </u>		
		Show Advanced >>		

**Fax Transport Protocol**: Select **G.711 pass-through only** from the dropdown list.

8. Click Save, then Apply.

<i>\$</i>	Brooktrout Configuration Tool - Advanced Mode							
File View Options H	elp							
Home Back Next	Save Apply	C ?						
		Consol Information ] ID Dacameters T 38 Parameters ] DTP Parameters ]						

 On the Avaya Messaging voice server, go to the installation drive and locate the folder \Program Files (x86)\Brooktrout\config .

12 (k + 1			config																																					
File Home Shar	e V	iew				$\checkmark$																																		
) 💮 - 🕇 👢 🕨	This	PC 🕨 Local Disk (C:) 🕨 Program Fil	es (x86) 🔸 Brooktrout 🔸 config	~ C	Search config	p																																		
Favorites	^	Name	Date modified	Туре	Size																																			
Desktop		ibmpcps.tnt	11/1//2017 8:24	FN1 File	9 КВ																																			
Downloads		ibmpcps.fz8	11/17/2017 8:23	FZ8 File	11 KB																																			
Recent places		immediatedial.lec	11/17/2017 8:41	LEC File	1 KB																																			
The recent places		itu_argentina.r2	11/17/2017 8:41	R2 File	1 KB																																			
	=	itu_brazil.r2	11/17/2017 8:41	R2 File	1 KB																																			
No. This PC		itu_china.r2	11/17/2017 8:41	R2 File	1 KB																																			
La Desktop				itu_egypt.r2	11/17/2017 8:41	R2 File	1 KB																																	
Documents																																				itu_honduras.r2	11/17/2017 8:41	R2 File	1 KB	
👃 Downloads																							itu_korea.r2	11/17/2017 8:41	R2 File	1 KB														
Nusic 🕌		itu mexico r2	11/17/2017 8:41	R2 File	1 KB																																			
🛓 Pictures		siptls.cfg	12/5/2017 1:43 PM	CFG File	3 KB																																			
📕 Videos		srtp.cfg	10/26/2017 1:37	CFG File	1 KB																																			
🤩 Local Disk (C:)		us600.qslac	11/17/2017 8:41	QSLAC File	1 KB																																			
New Volume (E:)	V	winkstart.lec	11/17/2017 8:41	LEC File	1 KB																																			
2 items																																								

 In the folder, open the SRTP.cfg file using a text editor such as NotePad. Remove the # (uncomment) at the start of the following lines, and verify their values are as shown.

	srtp.cfg - Notepad	_ 🗆 🗙
<u>File E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp		
#### parameters for SRTP		^
<pre>srtp_accept = true</pre>		
<pre>srtp_enforce = true</pre>		
<pre>srtp_crypto_suite = AES_CM_128_HM</pre>	AC_SHA1_80	
<pre>#srtp_master_key_len = 128</pre>		
<pre>#srtp_salting_key_len = 112</pre>		
<pre>#srtp_num_keys = 1</pre>		
<pre>#srtp_mki_len = 1</pre>		
<pre>#srtp_lifetime = 48</pre>		
<pre>#srtcp_lifetime = 31</pre>		
<pre>#srtp_kdr = 0</pre>		
<pre>#srtp_window_size = 64 #srtp_upencrypted_flag = false</pre>		
<pre>srtp_upencrypted_tlag = talse srtcp_unencrypted_flag = true</pre>		
<pre>srtcp_unencrypted_tiag = true #srtp_unautnenticated_tiag = tals</pre>		
#srcp_unauchencicaceu_riag = rais	.e	
		~

srtp\_accept = true
srtp\_enforce = true
srtp\_crypto\_suite = AES\_CM\_128\_HMAC\_SHA1\_80
srtcp\_unencrypted\_flag = true

Save the file when finished.

- **11.** Open the SIPTLS.cfg file.
  - Remove the **#** (uncomment) at the start of the following lines, and verify their values are as shown.



**sip\_tls\_method =** : Leave this field at its default value.

**local\_rsa\_private\_key\_filename =** : Enter the path to the location of your private key file.

**local\_rsa\_cert\_filename =** : Enter the path to the location of your server certificate file.

**ca\_cert\_number =** : Put the number of the cert you are using here. Add as many as are required.

**ca\_cert\_filename =** : Put the name of the certificate file you are using here. Add as many as are required.

- (optional) **chain\_cert\_number =**: Put the number of the cert you are using here. Add as many as are required. This is only required if you are using Intermediate certificates.
- (optional) **chain\_cert\_filname =** : Put the name of the certificate file you are using here. Add as many as are required. This is only required if you are using Intermediate certificates.

#### client\_cert\_required = false

allow\_self\_signed\_certs = false

**12.** When finished, restart the **UC BTFaxServer** and the **Dialogic Corporation Boston Host Service** services on the computer, or reboot the server.

## Avaya Aura Communication Manager Configuration

The certificate files must be copied to the AACM server.

1. Login to the AACM server using administrator credentials. Go to Administration > Server (Maintenance).

Αναγα	Licensing Server (Maintenance) System Management Interface © 2001-2017 Avaya Inc. All Rights Reserved. © 2001-2017 Avaya Inc. All Rights Reserved. Coveriant Except where expressly stated otherwise, the Product is protected by copyright and other laws respecting proprietary rights. Unauthorized reproduction, transfer, and or use can be a criminal, as well as a civil, offense under the applicable law. Initrd-party Components Certain software programs or portions thereof included in the Product may contain software distributed under third party agreements ("Third Party Components"), which may contain terms that expand or limit rights to use certain portions of the Product ("Third Party Terms"). Information identifying Third Party Components and the Third Party Terms that apply to them are available on Avaya's web site at: Ittp://support.avaya.com/Copyright. Avaya, the Avaya Logo, and Avaya Aura are registered trademarks of Avaya Inc. Linux <sup>®</sup> is the registered trademark of Linus Torvalds in the			
L	Licensing			
	Syst	stem Management Interface		
	© 20	001-2017 Avaya Inc. All Rights Reserved.		
		<u>Copyright</u>		
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Unauthorized	d reproduction, transfer, an	nd or use can be a criminal, as well as a civil, offense under the applicable law.		
		Third-party Components_		
Party Components"),	, which may contain terms	s that expand or limit rights to use certain portions of the Product ("Third Party Terms"). nts and the Third Party Terms that apply to them are available on Avaya's web site at:		
		<u>Trademarks</u>		
		tered trademarks of Avaya Inc. Linux <sup>®</sup> is the registered trademark of Linus Torvalds in the Il non-Avaya trademarks are the property of their respective owners.		

2. Go to Miscellaneous > Download Files. Enable the File(s) to download from the machine I'm using to connect to the server radio button.

avaya		Avaya Aura <sup>®</sup> Communication Manager (C System Management Interface (S
Help Log Off	Administration	
Administration / Server (Maintenance	)	
Download IPSI Firmware	<ul> <li>Download Files</li> </ul>	
Download Status	The Download Files SMI page lets you download files to the server.	
Activate IPSI Upgrade		
Activation Status		
ata Backup/Restore	File(s) to download from the machine I'm using to connect to the server	
Backup Now		
Backup History	Choose File No file chosen	
Schedule Backup	Choose File No file chosen	
Backup Logs		
View/Restore Data	Choose File No file chosen	
Restore History	Choose File No file chosen	
ecurity		
Administrator Accounts		
Login Account Policy	File(s) to download from the LAN using URL	
Login Reports		
Server Access		
Server Log Files		
Firewall Install Boot Certificate		
Install Root Certificate Trusted Certificates		
Server/Application Certificates		
Server/Application Certificates	Proxy Server (e.g proxy.domain:3152)	
Certificate Alarms Certificate Signing Request	(eig plotytomanio102)	
SSH Kevs		
Web Access Mask	Download Help	
liscellaneous		
File Supporting		
Download Files		
CM Phone Message File	-	

**3.** Click **Choose File** and find the certificate file. Select the file and click **Open** to add it to the list. Repeat for each certificate file (CA, Intermediate, Server, etc.).

← → · ↑ ▲ > ™int + 1	Recommentation >	5 ~	Search Documentation	Q
Organize 🔻 New folder				•
Thu PC	^	Name	Date	Туре
Desittap		()) emission in	HAR DESIGNATE A LOCAL MARK	1.000
		erdefeult ange	7/20/2017 2:45 PM	A3P1
		Erre Reportation 10758; Dec Links gifteet	\$2920003 #355 AM	Capity
Concentration of the local division of the l		SecureFax_Certificate.pfx	11/12/2017 10:26 AM	Perso
A Relation		For Rent Longing	3/27/2014 12:50 PM	JPG (
Pathanen		For Rent jag	4/23/2013 10:08 AM	(#G1
Videou		Furflast, prog	2/21/2814 10/25 AM	Phus:
5. 05-IC3		Cut to Lunch jpg	4/23/2013 Yod9 AM	.IPS1
Diff All Drive (D)		C) web.config	BREATH 12-44 PM	CON
No. and an succession		Care Colonger Small Addresses (Dec 2011-	12/20/2014 1.22 PM	Marr
		Zarray Week Site Druff galaxy	6/36/3016 \ (38 PM	Gen
		Zarray Samoon Securitizate	10/13/2016-3105-PM	PATI
📥 Documentation	~	<		>
File name: Sec	cureFax_Certificate.pfx	~	All Files	~

When finished, click the **Download** button to copy the files to the server.

- 4. In the left-hand column, select **Security > Trusted Certificates**.
  - Click **Add** and attach each of the CA and Intermediate certificates downloaded in step 3.

AVAYA					ommunication Manager (CM) System Management Interface (SMI)
Help Log Off	Administration				
Administration / Server (Maintenance)					
Download IPSI Firmware	Trusted Certificates				
Download Status					
Activate IPSI Upgrade Activation Status	This page provides management	of the trusted security certifi	cates present on this server.		
Data Backup/Restore	Trusted Repositories				
Backup Now					
Backup History	A = Authentication, Authorizati	on and Accounting Services (	e.g. LDAP)		
Schedule Backup Backup Logs	C = Communication Manager				
View/Restore Data	W = Web Server				
Restore History	R = Remote Logging				
Security	Select File	Issued To	Issued By	Expiration Date	Trusted By
Administrator Accounts					
Login Account Policy	SecureFax_Certificate.ort	SystemManager CA	SystemManager CA	Sun Mar 29 2026	с
Login Reports	<ul> <li>CA_Certificate.ort</li> </ul>	System Manager CA	System Manager CA	Mon Sep 28 2026	CWR
Server Access					
Server Log Files Firewall					
Firewall	Display Add Remove	Copy Help			
Trusted Certificates					
Server/Application Certificates					
Certificate Alarms					
Certificate Signing Request					
SSH Keys					
Web Access Mask					
Miscellaneous					
File Synchronization Download Files					
CM Phone Message File					

**5.** In the left-hand column, click **Server/Application Certificates**. Click **Add** and attach the server certificate downloaded in step 3.

ΑνΑγΑ		Avaya Aura <sup>®</sup> Communication Manager (CM) System Management Interface (SMI
Help Log Off	Administration	
Administration / Server (Maintenance)		
Download IPSI Firmware  Download Status Activate IPSI Upgrade Activato Status Data Bckcup/Kestore Backup Now Backup History Schedule Backup	Server/Application Certificates This page provides management of the server/application certificates present on this server. Certificate Repositories A = Authentication, Authorization and Accounting Services (e.g. LDAP) C = Communication Manager	
Backup Logs View/Restore Data Restore History Security Administrator Accounts Login Account Policy Login Reports Server Access Server Log Files	W = Web Server         R = Remote Logging         Select File       Issued To         Image: Server.crt       yoursever.asom.local         System Manager CA       Mon Sep 28 2026	<u>n</u>
Server top rins Filewall Instal Root Certificate Server/Application Certificates Server/Application Certificates Server/Application Certificates Server/Application Certificates Server/Application Certificates Server/Application Certificates Server/Application Certificates Tele Synchronization Downlade Files Of Moneo Kussens Ela Y	Display Add Remove Copy Help	

6. Close the **Communication Manager** console.

## Avaya Aura System Manager Setup

1. Login to the System Manager using an administrator account. Under **Elements**, select **Communication Manager**.



2. Go to Network > IP Codec Sets.

Communication	lome / Element	s / Communication Manager	
Manager <ul> <li>Call Center</li> </ul>	Search	e	Hel
▶ Coverage			
Element Cut-	Feature N	lanagement	
Through			
▶ Endpoints	Sub Pages		
▶ Groups	Action	Description	Help
Network	Call Center	A Call Center is a way of organizing people and equipment to achieve particular business goals. Call centers work by organizing staff(called agents) with specific functions or expertise into hunt groups.	Help for Call Cente Objects
Automatic Alternate Routing Analysis	Coverage	The Call Coverage feature routes incoming calls to alternate telephone numbers.	Help for Coverage Objects
Automatic Alternate Routing Digit Conversion	Element Cut- Through	Element Cut-Through allows you to launch the Cut-Through for the selected element.	Help for Element Cut- Through
Automatic Route	Endpoints	System Manager allows you to create and manage endpoints using the Manage Endpoints option. You can also view, edit, and delete endpoints.	Help for Endpoints
Selection Analysis Automatic Route	Groups	Communication Manager allows logical grouping of endpoints for providing certain call processing features. An endpoint can be member of any group on the system e.g., Hunt Group, Pick Up Group, etc. System Manager allows you to create, edit, remove and view groups and also allows to add or remove endpoints from the group.	Help for Groups
Selection Digit Conversion Automatic Route	Network	Communication Manager network refers to multiple interconnected servers and all of the equipment, including data networking devices controlled by those servers. Such equipment may be geographically dispersed among a variety of sites, and the equipment at each site may be segregated into distinct logical groupings, referred to as network regions.	Help for Network Objects
Selection Toll Data Modules	Parameters	System parameters are your system's parameters that Avaya sets during the time of installation. You can modify the system parameters according to your organizational needs.	Help for System Parameter
IP Codec Sets IP Interfaces	System	Systems includes a logical grouping of certain Communication Manager objects like Class of Service, Class of Restriction, Dialplan Parameters, Uniform Dialplan. You can perform basic administration of these objects through this menu.	Help for System Informatio

3. Add / Edit an audio codec set.

ange ip-code	c-set 1						
nter <u>R</u> efre		ear <u>F</u> ield <u>H</u> elp	Edit Prev	Page Next Page	More Actions *		
<b>b:</b>							
cl	hange ip-codec	∹set 1			Page	1 of	
		IP	MEDIA P	ARAMETERS			
	Codec Set:	1					
			_				
	Audio	Silence	Frames	Packet			
	Codec	Suppression	2	Size(ms)			
	1: G.711MU 2:	n	2	20			
	3:						
	4:						
	5:						
	6:						
	7:						
	Media Encr	yption		Encrypted SRTC	P: enforce-unenc	-srtcp	
	1: 1-srtp-aesc	m128-hmac80					
	2:						
	3:						
	4:						
	5:						

Audio Codec: Set this to G.711MU.

Silence Suppression: Choose n.

Frames Per Pkt: Enter a value of 2.

Media Encryption: Select 1-srtp-aescm128-hmac80 from the dropdown list.

4. Go to IP Network Regions in the left-hand column. Click New to create an entry.

ommunication 🔹 🖣	Home /	Elements /	Communicatio	n Manager / Network	/ IP Network Regions		
lanager	Searc	h			$\bigcirc$		Hel
Call Center					<u> </u>		
	📤 Sta						
Element Cut-	IP N	letwor	k Regions	5			
Through							
Endpoints	Se	lect devi	ce(s) from	Communication	Manager List 🛽 🖢 —		
Groups							
Network			L,				Sh <u>o</u> w I
Automatic	IP N	letwork I	RegionList				
Alternate Routing		ew / Ed		<u>E</u> ave			
Analysis			Show 15 V				Filter: Enabl
Automatic							
Alternate Routing		Details	Region	Location	Name	Controlled by this CM Server	System
Digit Conversion		▶ Show	3				server1
Automatic Route		▶ Show	2				server1
Selection Analysis		► Show	1				server1
		▶ Show	7				server1
Automatic Route		► Show	4				server1
Selection Digit		► Show	5				server1
Conversion		▶ Show	6				server1
Automatic Route		► Show	8				server1
Selection Toll		► Show	9				server1
Data Modules		▶ Show	10				server1
IP Codec Sets		► Show	11				server1
		► Show	12				server1
IP Interfaces		▶ Show	13				server1
IP Network Maps		▶ Show	14				server1
IP Network		► Show	15				server1
Regions		t : All, None					age 1 of 134 🕨

5. Enter an available **Network Region** qualifier (a number between 1-250), then click **Add**.

elect	a CM from the fo	llowing list					Add( <u>+</u> ) Canc
1 Ite	m I 🍣						Filter: Enable
	Element Name	FQDN/IP Address	Last Sync Time	Sync Type	Sync Status	Location	Software Version
۲	server1	192.168.0.1	December 10, 2019 11:00:01 PM -05:00	Incremental	Completed	admin	R017x.01.0.532.0
Selec	t:None						
En	ter Qualifier	100					
							Add(+) Canc

6. Enter the following parameters.

change ip-network-region 100 Enter Refresh Cancel Clear Field Help Edit Prev Page Next Page More Act Info: Enter number between 0-63	ions *
change ip-network-region 100 IP NETWORK REGION	Page 1 of 20
Region: 100 NR Group: 100	
Location: Authoritative Domain:	
Name: A Meaningful Name Stub Network Region: n	
MEDIA PARAMETERS ntra-region IP-IP Direct Audio:	yes
Codec Set: 1 nter-region IP-IP Direct Audio:	yes
UDP Port Min: 2048 IP Audio Hairpinning?	n
UDP Port Max: 8001	
DIFFSERV/TOS PARAMETERS	
Call Control PHB Value: 46	
Audio PHB Value: 46	
Video PHB Value: 26	

**Name**: Enter a meaningful, human readable name.

**Codec Set**: Set this to the codec set number configured in step 3.

UDP Port Min: Enter 2048 here.

UDP Port Max: Enter 8001 here.

Click the **ENTER** button when finished.

7. Open Node Names in the left-hand column. Click New.

Communication	I Home /	Elements / Commu	unication Manager / Network / Noc	le Names	
lanager	Search				Help
Call Center	Jearch			5	
Coverage	Node	e Names			
Element Cut-					
Through	Sel	ect device(s)	from Communication Man	ager List	
Endpoints		cer defice(s)			
Groups					Show Lis
		<b>4</b>			Sh <u>o</u> w Lis
" Network	Node	e Namus List			
Automatic	/ Edi	it O <u>N</u> ew			
Alternate Routing	8 Item		•		Filter: Enable
Analysis	o item			75.4.11	
Automatic		Туре	Name	IP Address	System
Alternate Routing		IP IP	sm10 procr6	192.168.0.10	server1
Digit Conversion		IP	procre	192.168.0.15	server1
Automatic Route		IP	default	0.0.0.0	server1
Selection Analysis		IP	aes20	192.168.0.20	server1
Automatic Route		IP	aam21	192.168.0.21	server1
Selection Digit	0	IP	Perf	192.168.0.51	server1
Conversion	0	IP	OL60	192.168.0.60	server1
Automatic Route	Select	: None			
Selection Toll					
Data Modules					
IP Codec Sets					
IP Interfaces					
IP Network Maps					
IP Network					

8. Select **IP** from the qualifier dropdown list, then click **Add**.

Select	t a CM from the fo	llowing list					Add( <u>+</u> ) <u>C</u> an
1 Ite	m 🛛 🍣						Filter: Enabl
	Element Name	FQDN/IP Address	Last Sync Time	Sync Type	Sync Status	Location	Software Versio
۲	server1	192.168.1.26	December 10, 2019 11:00:01 PM -05:00	Incremental	Completed	admin	R017x.01.0.532
Selec	t : None						
* En	ter Qualifier	ip					
							Add(+) Can

**9.** In a blank space on the page, name the node, then enter the **IP address** of the Avaya Messaging voice server. When ready, click the **ENTER** button.

change node-names ip	r Eield Help Edit Prev Page Next Page More Actions *
change node-nam	
	IP NODE NAMES
Name	IP Address
OL60	192.168.3.60
Perf	192.168.3.51
aam21	192.168.0.21
aes20	192.168.0.20
default	0.0.0.0
procr	192.168.0.15
procr6	
sm10	192.168.0.10
Avaya Messaging	192.168.3.99

**10.** Open **Signaling Groups** in the left-hand column. Select an existing group (typically group 1) to edit, or create a new group. If creating a new group, when prompted for a Qualifier, enter **NEXT**. Enter the required values.

add signaling-group next									
Enter Refresh Cancel Clear Field	Help Edit Prev Page	e <u>N</u> ext Page More	e Actions 👻						
Info: Enter number between 1-2000,	or blank								
add signaling-group next Page 1 of 2									
SIGNALING GROUP									
Group Number: 2	Group Type:	sip							
IMS Enabled? n	Transport Method:	tls							
Q-SIP? n									
IP Video? n		Enforce	SIPS URI for SRTP?	n					
Peer Detection Enabled?	y	Peer Se	erver: Others						
Prepend '+' to Outgoing (	Calling/Alerting/Diverting	/Connected Public N	lumbers?	TSC Supplementary Serv					
Remove '+' from Incoming	Called/Calling/Alerting/	Diverting/Connected	Numbers?	V					
Alert Incoming SIP Crisis C	alls? n								
Near-end Node Name:	procr	Far-end Node I	Name: OL60						
Near-end Listen Port:	5061	Far-end Listen Po	rt: 5061						
	F	ar-end Network Reg	ion: 100						
			100						
Far-end Domain:									

**Group Type**: Choose **SIP** from the dropdown list.

Transport Method: Select tls from the dropdown list.

Enforce SIPS URI for SRTP: Set this value to n.

Near-end Node Name: Enter the value procr in this field.

Far-end Node Name: Enter the Node Name from in step 9.

**Near-end Listen Port**: Enter the port number used for faxing.

Far-end Listen Port: Enter the port number used for faxing.

**Far-end Network Region**: Enter the network region used as the qualifier in step 5. When ready, click the **ENTER** button.

**11.** Open **Trunk Groups** in the left-hand column. Select an existing group (typically group 1) to edit, or create a new group. If creating a new group, when prompted for a Qualifier, enter **NEXT**.

add trunk-group next	Clear Field Help Edit		kt Page More Action	IS Y						
add trunk-grou	add trunk-group next Page 1 of 21 TRUNK GROUP									
Group Number: Group Name: Direction: Dial Access? Queue Length: Service Type:	OUTSIDE CALL	Group Type: COR: going Display? Auth Code?	sip 1 TN: 1 Night Service: Member Assignment Signaling Number of	Group: 2						

 $\ensuremath{\text{TAC}}$  (Trunk Access Code): Enter any unique number. Any four digits, or # and \*

**Group Type**: Select **SIP** from the dropdown list.

**Signaling Group**: Enter the number of the signaling group from step 10.

Service Type: Select tie from the dropdown list.

Number of Members: Type in 255 for this value.

#### When ready, click the **ENTER** button.

**12.** Open **Route Pattern** in the left-hand column. Click **New** to create a group. Give it the number of the Trunk Group specified above (step 11), then click **Add**.

-	Automatic Route	Sele	ct device fro	om Communica	ition Manager	List						
	Selection Digit											
	Conversion								Add( <u>+</u> ) Cancel			
	Automatic Route Selection Toll	Select a CM from the following list										
	Data Modules	1 It	1 Item 🐉 Filter									
	IP Codec Sets		Element Name FQDN/IP Address		Last Sync Time	Sync Type	Sync Status	Location	Software Version			
	IP Interfaces	۲	server1	192.168.0.1	December 11, 2019 11:00:01 PM -05:00	Incremental	Completed	admin	R017x.01.0.532.0			
	IP Network Maps	Sele	ect : None									
	IP Network	* E	nter Qualifier	2								
	Regions								Add(+) Cancel			
	Node Names								Aud(+) Calicel			
	Route Pattern	*Req	uired									

**13.** Enter the values required.

change route-patt											
Enter Refresh	<u>C</u> ance	Clea	ar <u>F</u> ield	<u>H</u> elp	E <u>d</u> it	Prev	Page <u>N</u> ext Page	More A	ctions 👻		
Info:											
cha	nge rou	te-pat	tern 2						Page	1 of	3
			Pa	ttern 1	Number			CII	ter a name		
	SCCAN?	n	Secure	SIP?	n	Used	for SIP statio	ns? n			
	Grp FR	L NPA					1			DCS/	IXC
'	No		Mrk Lr	nt List		-				QSIG	
	_				Dg	ts				Intw	
1:	2	_			0	_				n	user
2:										n	user
3:										n	user
4:		_								n	user
5:										n	user
6:										n	user
	DCC V		TCC C	TEC	IT	DOTE	Service/Feature	DADM Cub	Numbering		
	0 1 2			kequest		BUIE	Service/Feature	PARM SUD	Dats Form		
1:							1			_	
2:	у у	У	у у	n		rest			lev0-p		none
3:	у у	У	у у	n		rest					none
3:	у у	У	у у	n		rest					none
4:	у у	У	у у	n		rest					none
	у у	У	у у	n		rest					none
6:	у у	У	у у	n	n	rest					none

**Grp No** : Enter the trunk group number configured in step 10.

No. Del Dgts: Usually, set this value to 0.

**Pattern Name**: Give the route pattern a human readable name.

Numbering Format: Select lev0-pvt from the dropdown list.

When ready, click the **ENTER** button.

14. Open Automatic Alternate Routing Analysis in the left-hand column. Click New and enter the hunt group number for your system. Or select an existing extension and choose Edit. Click Add.

▶ Coverage	Select device fro	om Communica	ation Manager	List					
Element Cut-									
Through									
▶ Endpoints							Add( <u>+</u> ) Canc		
▶ Groups	Select a CM from the follo	owing list							
Network	Network 1 Item 🛛 🥹								
Automatic	Element Name	FQDN/IP Address	Last Sync Time	Sync Type	Sync Status	Location	Software Version		
Alternate Routing	erver1	192.168.0.1	December 11, 2019 11:00:01 PM -05:00	Incremental	Completed	admin	R017x.01.0.532.0		
Analysis	Select : None		1100101111 00100						
Automatic	* Enter Qualifier	1234							
Alternate Routing	Enter Location	1234							
Digit Conversion	Enter Location								
Automatic Route							Add(+) Canc		
Selection Analysis									
Automatic Route	*Required								

#### **15.** Modify a Dialed String entry.

change aar analysis 0 Enter Refresh Cancel Clear Field Help Edit Prev Page Next Page More Actions * Info: Select suggested values from dropdown											
change aar analysis 0 Page 1 of 2 AAR DIGIT ANALYSIS TABLE											
	Location: all										
Dialed	Tot	al	Route	Call	Node	ANI					
String	Min	Мах	Pattern	Туре	Num	Reqd					
022	7	7	22	aar		n					
2	7	7	2000	aar		n					
3	7	7	2000	aar		n					
4	7	7	2000	aar		n					
5	7	7	2000	aar		n					
6	7	7	2000	aar		n					
7	5	5	1	aar		n					
776	5	5	12	lev0		n					
77770	5	5	22	lev0		n					

**Min / Max**: Set these values to the longest or shortest number that can be entered. **Route Pattern**: Enter the number of the Route Pattern created in step 12.

**Call Type**: Select **lev0** from the dropdown list.

When ready, click the **ENTER** button.

## Avaya Messaging Configuration

The voice server must be configured to send faxes to the SR140, and to prepare to receive them across the same channel. A setting for incoming, and another for outgoing faxes must be configured on the server using Avaya Messaging Admin.

- 1. Go to Start > All Programs > Avaya Messaging > Avaya Messaging Admin, or click the Avaya Messaging Admin icon on the server desktop. Enter the username and password at the prompt.
- 2. Open Configuration and click on Fax Settings.



 In the right-hand pane, locate the entry for Fax Board Type. Double-click to open its settings. From the dropdown menu, choose Brooktrout SR140. Click OK.

<i>🐲</i>	Edit String		?	x
Value Name Fax Board Type Value Data Brooktrout SR140 None Brooktrout Brooktrout Shared		<u>0</u> K	<u>C</u> a	ncel
Brooktrout SR140 Dialogic Dialogic Shared Diva Fax Card Eicon	v			

 Double-click on Outbound Fax Board Type. Choose Brooktrout SR140 from the dropdown menu. Click OK.

<i>i</i>	Edit Stri	ng	? X
Value Name			
Outbound Fax	Board Type		
Value Data			
Brooktrout SF	140 🔽		
None			1
Brooktrout SF	140	<u>o</u> K	<u>C</u> ancel

**Hint**: If faxes will only be **received** through the SR140 software, the Outbound Fax Board Type can be set to another value if required.

Dialogic SR140 Secure Fax

# 23

## WEB ACCESS

## In This Chapter:

- 318 Introduction
- 318 Getting Started
- Logging In
- 319 Navigation

## Introduction

Business today requires flexibility and mobility. Company personnel find it increasingly necessary to go where the customers are. Advances in technology allow people to work from home or other locations away from the office. The Avaya Messaging Web Access is an Internet browser based application that gives users on a UC system the ability to manage all aspects of their communication and schedule from any Internet enabled computer. The Mobile Web Access works with mobile devices as well.

Email, fax and voice messages can be accessed and dealt with. Users can also update their current location. Personal calendars are also available for viewing and modification. Wherever you may need to travel, Web Access will be there to help keep you in touch.

## Getting Started

**Note**: Use Google Chrome for best results. Other web browsers may not be fully supported or provide access to all features.

To launch Web Access, open a web browser and navigate to the corporate UC server site. Click the Web Access icon to start the program.



These links provide multiple authentication methods to access Web Access, some of which may be disabled by your

administrator. Select the credentials to use and login.



Note: This screen does not appear if you login without having logged out from a previous session.

## Logging In

Refer to page 95 of the Client Applications Guide for complete details on signing on to Web Access.

## Navigation

Web Access consists of five major sections: Messaging, Location, People, Notification and Settings.

Through these menus, you have access to all of your messages (voice, fax, and email), and can respond to, delete and mange them. You also have complete access to manage your UC presence, location, schedule and contacts.



For more details on Web Access, please refer to page 95 of the Client Applications Guide.

# 24

# PASSWORD RESET

Accessing an account requires a password. The voicemail and application passwords can be reset through any web browser from the UC Server web page.

- 1. Using any web browser, enter the URL for the voice server (i.e. user.yourcompany.com). Select Reset Password.
- 2. Enter an email address and select the password to reset: reset Voicemail Password or Application Password.



3. Enter the security code in the space provided, Click **Send a Request** when ready.



4. The specified email address will receive a message with a link. Click on the link to enter the details of the new password.



5. Enter a new password in the spaces provided, then click **Reset Password**.



6. The account password will be changed to the new value.



# 25

# WEB UM MONITOR

## Introduction

The Web UM Monitor is a suite of tools to watch the performance of the system for the purposes of troubleshooting.

## Getting Started

**Note**: Use Google Chrome for best results. Other web browsers may not be fully supported or provide access to all features.

1. To launch Web UM Monitor, open a web browser and navigate to the corporate UC server site. Click the UM Monitor icon to start the utility.



2. Enter the administrator username and password for the voice server.

📴 UC Administrator Login					
<u>U</u> ser name:	administrator				
Password:					
<u>Save password:</u>					
Login	Cancel				

3. From the dropdown menu, select the voice server you want to monitor.



4. Click **Connect** to begin monitoring the voice server.

Hint: When finished, click **Disconnect** to stop monitoring that voice server.
## The Channels Tab

The Channels Tab is the starting point for the program. In this panel is displayed the current status of each channel working on the voice server.

About   License   Log out administrate					
	Connec	ted to voice server: VC	-NEW_YORK	Disconnect	
Ch	annels	View status	View trace	Send Command	
				Enter command here	
rom chan	nel: 1 🗛	pply		Click here to see all commands	
Channel	Data		Time	Enter	
1	1 Idle		2019/10/2711:45:49.687		
2	2 Idle		2019/10/2711:45:49.721	Calls	
3	3 Idle		2019/10/2711:45:49.760	Total calls today 0	
4	4 Idle		2019/10/2711:45:49.789	Total transfers today 0	
5	5 Idle		2019/10/2711:45:49.831	Tetelesseeteeles	
6	6 Idle		2019/10/2711:45:49.866	Total messages today 0	
7	7 Idle		2019/10/2711:45:49.891	Reset	
8	8 Idle		2019/10/2711:45:49.921		
9	9 Idle		2019/10/2711:45:49.951		
10	10 Idle		2019/10/2711:45:49.982		

**Hint**: To view only a range of channels, enter the starting channel number in the box and click **Apply**. Only the channels from there up to the last will be shown.

## The View Status Tab

This pane shows the commands that are being sent and received through all of the voice server channels.



Select either All channels or a specific channel to monitor from the dropdown list.

Use **Clear** to remove all status entries from the display. New status entries will begin to fill the screen.

Enable **Stop scrolling** to freeze the window. New entries will continue to be added to the bottom of the list, but the pane will not move until you manually begin scrolling.

## The View Trace Tab

The View Trace tab allows you to get a clearer idea of what each channel is doing.

AVAYA	About	License Log out admi	nistrator
Connected to voice server: VC-N	EW_YORK	Disconnect	
Channels View status	View trace	Send Command	
		Enter command here	
Show: All channel:  Clear  Stop scrolling		<u>Click here to see all com</u>	<u>mands</u>
			Enter
		Calls	
		Total calls today	0
		Total transfers today	0
		Total messages today	0
			Reset

Select either All channels or a specific channel to monitor from the dropdown list.

Use **Clear** to remove all status entries from the display. New status entries will begin to fill the screen.

Enable **Stop scrolling** to freeze the window. New entries will continue to be added to the bottom of the list, but the pane will not move until you manually begin scrolling.

## Sending Commands

Use Send Commands to issue commands directly to the voice server. Enter the command into the space provided and click the **Enter** button.



You can also view all available commands and their format by clicking the link.

#### Command list

- MailboxNo xxx (xxx is the MailboxNo) --- popup the MailboxID, Company ID information
- MailboxID xxx (xxx is the MbxID) --- popup the MailboxNo, Company ID information
- Delete MwiTasks --- Delete Message light tasks
- Flush log --- Flush all voice server logs to the harddisk from cache.
- ReadParms --- Read all the PBX, global parameters, menus, featuregroups from database into cache.
- ReadCompanies --- Read All Companies from database into cache
- ReadGroups --- Read All FeatureGroups from database into cache
- Drop xxx (xxx is channel number) --- Drop the channel
- Stop xxx (xxx is channel number) --- Disable the channel
- Start xxx (xxx is channel number) --- Enable the channel
  Lampon xxx (xxx is mailbox no) --- turn on message light for the mailbox in company 1.
- lampon xxx@yyy (xxx is mailbox number, yyy is company id) --- turn on message light for the mailbox in specific company regardless of the unread or read message count in the inbox
- lampon all --- turn on message lights for all the mailboxes regardless of the unread or read message count in the inbox
- Lampoff xxx (xxx is mailbox no) --- turn off message light for the mailbox in company 1 regardless of the unread or read message count in the inbox
- lampoff xxx@yyy (xxx is mailbox no, yyy is company id) --- turn off message light for the mailbox in specific company
  regardless of the unread or read message count in the inbox
- lampoff all --- turn off message lights for all the mailboxes regardless of the unread or read message count in the inbox
- Clear SlowStates -- Clear performance counter for slowest states.
- Clear SlowTasks -- Clear performance counter for slowest Tasks.
- Clear SlowBkGround -- Clear performance counter for slowest BackGround logic.
- Task -- List all the tasks and the numeric number.
- Refresh -- turn On or Off message lights for all the mailboxes based on feature group settings and message count and type
  in the inbox

## Display License Details

This menu displays the details of the license for the selected voice server.

ature	Value
erial No	12345
Product ID	98765
PBXs	3
Companies	22
anguages	3
Voice Ports	16
/erification Ports	16
Outfax Ports	1
Softfax Ports	1
Mailboxes	500
JM Users	10
UC Users	300
eFax Users	10
Mobility Users	300
Veb Clients	0
ASR Languages	2
Resilience Ports	0
TSE Connections	4
- axServer.Print Ser	4
FaxServer.Fax Desk	0
ASR Provider	2
ASR Names	101
ASR Ports	2
TTS Provider	8
	•

## 26 INTEGRATION WITH AVAYA CPaaS

## In This Chapter:

332	Introduction
333	Avaya CPaaS Configuration
336	Avaya Messaging Voice Server Configuration
338	Avaya Messaging User Configuration
339	One-to-one
339	Personal number
341	Direct number
343	Any-to-many
343	Mailbox
344	Keyword
346	Addressing SMS Messages

## Introduction

Avaya CPaaS is a robust development platform — create what you need and integrate it seamlessly with Avaya Messaging and go!

Integrating with an Avaya Messaging system, either on a single server or high availability installation, gives you the ability to receive SMS messages through a number purchased on Avaya CPaaS, anywhere in the world. Messages are delivered directly to your Avaya Messaging mailbox.

## Pre-requisites

- Officelinx/IX Messaging/Messaging 10.5 or later.
- An Internet connection.
- An Avaya CPaaS account and telephone number.

## Avaya CPaaS Configuration

An account with Avaya must be setup, and a number with support for SMS messaging must be purchased from Avaya CPaaS.

1. Open an Internet browser and go to <u>accounts.avayacloud.com</u>. Enter your Avaya account credentials and click **Log In**.

Access everything from one account
Sign In to continue to <b>CPaaS</b>
somebody@yourcompany.com
Sign In
G+ Forgot password?

If you do not already have one, you can create a new account now. Enter your email address in the space provided, click **Yes, sign me up!** and follow the prompts to create a new account.

Access everything from one account					
Please enter your work email address to get started with CPaaS					
somebody@yourcompany.com					
No account found. Did you want to create one with this address?					
Yes, sign me up!					

2. New accounts are given a few dollars to get started. If necessary, click **Add Funds** and add cash to your account balance. Numbers typically cost from \$1 to \$3 / month, depending upon the country and if it is local or toll free.



3. With your account properly funded, select **Numbers** and click **Buy a Phone Number**.



4. Choose between Local or TollFree numbers.

Select the **country** that will host the number. You can also enter the area / city code to narrow the search. Leave the search field empty to view all numbers available in the selected country. When ready, click **Search** and the list of available numbers will appear.

Local TollFree					
(+1) Canada	Search for a ph	one number	Search		
Phone Number	Features	Price	Billing Plan	Actions	
+1 289-210-1392	Ç 🗩 🛤	\$1.00 Monthly	\$0.01 Per Minute	Buy	
+1 289-205-2189	Inbound SMS Sup	\$1.00 Monthly	\$0.01 Per Minute	Buy	
+1 289-274-4161		\$1.00 Monthly	\$0.01 Per Minute	Buy	
+1 289-201-0056	<b>(</b> 🗩 🖻	\$1.00 Monthly	\$0.01 Per Minute	Buy	
+1 289-274-4165		\$1.00 Monthly	\$0.01 Per Minute	Buy	

5. Locate the number you want. For the number to work with Avaya Messaging, the number must support SMS Messaging. In the Features column, look for numbers that have a blue picon indicating that the number can be used with incoming SMS messages. Number with gray picons do NOT have that feature available. When you have located a suitable number, click **Buy** to add the number to your account.

Avaya Messaging Feature Description Guide

6. From the Avaya CPaaS Dashboard, record the Account SID and the Auth Token values.



Continue with the configuration of Avaya Messaging.

## Avaya Messaging Voice Server Configuration

The configuration of Avaya Messaging is done using the Avaya Messaging Admin program on the Voice Server. In a High Availability environment, the configuration is done on the <u>Consolidated Server</u> only.

1. On the Avaya Messaging Voice Server, or the HA Consolidated Server, open Avaya Messaging Admin and login.



2. Go to Configuration > Advanced and scroll down to the SMS options.

UC Admin			
-	elp		
🗢 🏟 🖄 🙆 📓			
Stavya Messaging       > ♣ Avaya · IP Office       > ➡ Mikox Templates       > ➡ Mikox Templates       > ➡ Voice Server       > ➡ Voice Server       > ➡ Officingurtion       > ➡ Configuration       > ➡ Outom Interface Settings       > ➡ Dealer Info       > ➡ Device Management       > ➡ Device Management Settings       > ☐ Fax Settings	Parameters	Value Data 2 7 False True https://www.csoft.co.uk,https://www2.csoft.co.uk True 160 Connection Software	
© Global Parameters ↑ HTTP IMAP Server ↓ DDAP Synchronization ↓ Cogs	SMS Reply-To phone number SMS site SMS site Time Zone Time Zone Time Zone Time Cut	http://esna.csoft.co.uk False (UTC-05:00) Eastern Time (US & Canada) D	
Cogs Server POP3 Server Remote Site Setting Secorg Reports	Trim Digit Trim From End of File TTS Mode M M Monitor URL	True 400 Realspeak 4.0 http://localhost/ummon	
G User Manager Stelephony Settings Stelephony Se	UMST Server Address UMST Server Port UMST Server Port Unique Mailbox Address Unresolved From Address Format	127.0.01 13777 0	

3. Make the following configuration changes. For each entry, double-click the item and modify the details where necessary.



- **SMS Provider**: From the dropdown menu, select **Avaya**. Most of the other fields should be filled in automatically.
- SMS Account Username: Enter the Account SID of your Avaya CPaaS account.
- SMS Account PIN: Enter the Auth Token of your Avaya CPaaS account.

## Avaya Messaging User Configuration

The Avaya CPaaS telephone number must be associated with a user's mailbox to ensure that the SMS messages are delivered correctly. There are four methods that you can use. Some require changing the user mailbox through Avaya Messaging Admin, others need an INI file to route incoming messages, and two require the sender to include additional addressing details in the body of the message.

Pick the one that best matches your needs.

#### One-to-one:

• Personal number / Direct number: Each user has their own dedicated Avaya CPaaS telephone number.

#### Any-to-many

• Mailbox / Keyword: Your company has one or more Avaya CPaaS telephone numbers, each supporting many users.

METHOD	MODIFY MAILBOX	INI FILE ENTRY	SENDER ADDRESSING
Personal number	<b>Ø</b>		
Direct number		<b>Ø</b>	
Mailbox			<b>Ø</b>
Keyword		<b></b>	<b>Ø</b>

#### One-to-one

Use one of these methods if each user has exclusive use of a Avaya CPaaS telephone number.



#### Personal number

Associating the number with the mailbox is done by modifying the user profile in Avaya Messaging Admin. No INI file entry or additional Sender Addressing is required.

1. In Avaya Messaging Admin, open the PBX and go to the Company menu. Select Mailbox Structure.



2. Double-click a user and open the **Addresses** tab.

		Mailbox		? X
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All C Defaul     Type	lts Only F	Phone Number	]	
✓ Reply to	. 1000 arthurp@erbmu 1000@127.0.0 1000@127.0.0	.1		
	<u>A</u> dd>	>> <u>R</u> emove	Edit	
		-		Summary View >:

3. Click Add and choose SMS Phone.

( <u>A00</u> >>)	Phone Number
	E-mail / VPIM
	Beeper
	Fax
	SMS Phone
	SMS E-mail

4. Enter the required information and click **OK** when ready.

Address				
Description	Avaya Cloud Numb			
Country	United Kingdom (44)			
Area/City Code	20			
Number	30026798			
Set as Default				

- **Description**: Give this address a label.
- **Country**: From the dropdown menu, select the country that this number applies to.
- **Area/City Code**: Enter the city or area code for this number.
- **Number**: Enter the Avaya CPaaS telephone number here.
- Set as Default: This field should be disabled.

5. The new address has been added to the user. Click **Save**.

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Type	Address Description	
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Internal Extensi		
Reply to	1000@127.0.0.1	
SMS Phone	44(20)30026798 Avaya Clou	ud Number
	1000@127.0.0.1 Bob	
	Add>>>> Remove	<u>E</u> dit

All incoming SMS messages sent to the Avaya CPaaS telephone number will be directed to this user's mailbox.

#### Direct number

Associating the number with the mailbox is done through the INI file.

No additional Sender Addressing or changes to the user profile are required.

- 1. Open a text editing software program such as Windows Notepad and create/modify the INI file.
- 2. Each person using **Direct number** must have an entry in the INI file, and each entry contains four elements.

[Application1] Number= 1(905)707-9700 Mailbox= 9876 Company= 1	
[Application2] Number= 1(905)707-9170 Mailbox= 9877 Company= 1	

- **[ApplicationX]**: This is an incrementing label, ApplicationX, where X is a unique identifier for each user (i.e. [Application1], [Application2], etc.). There are no spaces in this title, and it must be enclosed in square brackets.
- **Number=** : Specify the Avaya CPaaS telephone number for the recipient. This is where the sender addresses the message.

Caution: The number in an incoming message must match this value exactly or the message cannot be delivered.

- Mailbox= : Enter the mailbox for the recipient. The incoming SMS message will be delivered here.
- **Company=** : For sites that have multiple tenants / companies, enter the company number for this user here. This value must match the company numbers defined on the Avaya Messaging voice server. In most cases, where there is only a single company using the server, set this value to **1**.

3. Once all users have been added, save the file with the name: http2smsconnector.ini Save it on the Avaya Messaging Voice Server installation drive in the UC/SMS folder.



4. Stop and re-Start the UC SMSConnector service on the Voice Server, or reboot the server. This service should also be configured to start automatically.

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<ul> <li>Shared Folders</li> <li>M Performance</li> </ul>		🔅 UC Service Recovery Manag		Running	Automatic	Le	UC SMSCo
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Storage		UC SMSConnector		Contract (1)	Automatic	L¢	
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**Note**: You can combine both **Direct number** and **Keyword** entries in the same INI file. Only the information in each entry will change.

[Keyword1] Value= ASKJohnC,JohnC Mailbox= 9876 Company= 1 [Application1] Number= 1(905)707-9700 Mailbox= 9876 Company= 1

All incoming SMS messages sent to the Avaya CPaaS telephone number will be directed to the user's mailbox defined in the INI file.

#### Any-to-many

Use one of these methods if your company has one or more Avaya CPaaS telephone numbers with many people using each one.



#### Mailbox

The sender must begin the message with **##** followed by the mailbox number of the recipient. This mailbox must be followed by <code>[Space]</code> or <code>[Enter]</code>.

Associating the number with the mailbox is done explicitly by the sender within the body of the message. No INI file entry or changes to the user profile are required.



All incoming SMS messages sent to the Avaya CPaaS telephone number will be directed to the user's mailbox based upon the value that the sender includes within the body of message.

#### Keyword

A unique Keyword is used to identify the recipient of the message.

Associating the number with the mailbox requires both addressing within the body of the message and an entry in the INI file.

No changes to the user profile are required.

- 1. Open a text editing software program such as Windows Notepad and create/modify the INI file.
- 2. Each person using **Keyword** must have an entry in the INI file, and each entry contains four elements.

[Keyword1] Value= ASKJOHNC,JOHNC Mailbox= 9876 Company= 1 [Keyword2] Value= ASKALF,ALANF Mailbox= 9877 Company= 1

- **[KeywordX]**: This is an incrementing label, KeywordX, where X is a unique identifier for each user (i.e. [Keyword1], [Keyword2], etc.). There are no spaces in this title, and it must be enclosed in square brackets.
- Value= : Specify the unique keyword that identifies the recipient. Multiple keywords can be included if they are separated by a comma. This keyword must be included in the body of the message as the first item, followed by Space or Enter.

**Caution**: Keyword values **are case sensitive**. The keyword in an incoming message must match this value exactly or the message cannot be delivered.

- Mailbox= : Enter the mailbox for the recipient. The incoming SMS message will be delivered here.
- **Company=** : For sites that have multiple tenants / companies, enter the company number for this user here. This value must match the company numbers defined on the Avaya Messaging Voice Server. In most cases, where there is only a single company configured, set this value to **1**.



 Once all users have been added, save the file with the name: http2smsconnector.ini Save it on the Avaya Messaging Voice Server installation drive in the UC/SMS folder.



 Stop and re-Start the UC SMSConnector service on the Voice Server, or reboot the server. This service should also be configured to start automatically.

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▷ 10 Shared Folders ▷ 10 Performance		UC Service Recovery Manag		Running	Automatic	Le	UC SMSCo
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All incoming SMS messages sent to the Avaya CPaaS telephone number will be directed to the user's mailbox using both the addressing within the body of the message and the entry within the INI file.

**Note**: You can combine both **Keyword** and **Direct number** entries in the same INI file. Only the information in each entry will change.

[Keyword1] Value= ASKJohnC,JohnC Mailbox= 9876 Company= 1 [Application1] Number= 1(905)707-9700 Mailbox= 9876 Company= 1

## Addressing SMS Messages

Once the Avaya CPaaS telephone number has been purchased and Avaya Messaging configured to use it, messages sent to that number will be received in the recipient's inbox.

Contacts wishing to send a message to the user address it to the Avaya CPaaS telephone number. Additional addressing by the sender may be required.

#### Personal number

The sender only needs to provide the number (e.g. 442030026798) to address the message.



The Voice Server spots the telephone number and uses the Avaya Messaging Admin Addresses tab to direct the message to the correct mailbox.

#### Direct number

Enter the recipient's Avaya CPaaS telephone number (e.g. 1(905)707-9700) exactly as it is configured in the INI file.



The Voice Server spots the telephone number and uses the INI file to direct the message to the correct mailbox.

#### Mailbox

The sender must include the recipient's mailbox number in the body of the message. The number must be preceded by **##** (e.g. **##9876**).



The **##** marker tells the server that the number that follows is the extension of the recipient and the message is delivered accordingly.

#### Keyword

The sender must include the keyword exactly as it is configured for that user in the INI file (e.g. **ASKJohnC**). The keyword is case sensitive.



The Voice Server spots the keyword and uses the INI file to direct the message to the correct mailbox.

Integration with Avaya CPaaS

# 27

## ONAVAYA AUTHENTICATION

## In This Chapter:

- 352 Introduction
- 352 Creating an Account with OnAvaya
- 353 Logging In Through OnAvaya

## Introduction

Logging in to an application using **Avaya credentials** provides a web-based authentication solution (**OnAvaya**) for sites where Gmail and Salesforce are not available. Creating a user account with OnAvaya allows access to a range of programs using secure access protocols.

## Creating an Account with OnAvaya

Before attempting to login using Avaya credentials for the first time, it is necessary to create an account at OnAvaya.

- 1. Open a browser and go to <u>https://accounts.avayacloud.com</u>.
- 2. At the login screen, click Create an account.

Login to your account
🚨 Email
Password
☐ Keep me logged in Login →
Forgot Password Create an account

Sign Up

🖂 Email

firstname
 lastname

A Password

Back

Enter your account details below:

Re-type Your Password

By submitting this signup form you agree to the Terms of Service and Privacy Policy

 On the Sign Up screen, enter your corporate email address, your first and last names, and the password you want to use with OnAvaya. Re-enter the password to confirm.

When finished, click Sign Up.

**4.** A confirmation email will be sent to the address provided.

Open the message and click Verify Email.

AVAYA
Account Confirmation
Dear John O'Groats:
Please confirm your account by following the link below.

5. OnAvaya account setup is complete. Click Login.



## Logging In Through OnAvaya

**Important**: The system administrator can enable a security policy to limit the login credentials available. Contact your administrator for more information.



For all applications, the login procedure is the same when you select **Email Credentials** to start the program.

1. At the login page, choose **Email account** *l* from the drop down list.

**Hint**: From the **Connection** page, click the **Utility Menu** and select **Clear credentials** to delete all login details and restart the login procedure.

2. When prompted, enter your username and password. Click Login.

**Note**: Enable **Keep me logged in** to have OnAvaya automatically use the same credentials on all subsequent login attempts. You will be seamlessly logged in to all client extension each time the browser is launched.

3. If prompted to grant Avaya iLink permissions, click Accept.

Note: This only needs to be done the first time you login to the client.

Login to your account
a johnc@erbmusic.com
A
☐ Keep me logged in Login ⊖
Forgot Password   Create an account
🕵 John Carter iLink 🔍 🗸
This app would like to:
View your email address
View and manage your profile
Link Pro and Esna will use this information in accordance with their respective terms of service and privacy policies.
ⓒ Cancel Accept ⊙
If this is not the account you like to use? Login using different account

4. The Avaya iLink client will start.



**Note:** In order for the program to save your settings, you must allow your web browser to **accept 3rd party cookies**. Some browsers may reject 3rd party cookies either as a default setting or through an organizational policy.

## ACCESSIBILITY

## Introduction

Avaya Messaging provides greater accessibility to people with special needs. Avaya Messaging offers 508 compliance and TTY integration.

## 508 Compliance

Complying with the 508 standard in Avaya Messaging means that the user interface for a program must be usable to clients without the use of a mouse. The user interface for launching and navigating through the Web Access program provides access to all areas using the keyboard alone.

The keyboard commands are shown here:

KEYSTROKE	FUNCTION
TAB	Skip to next item.
SHIFT + TAB	Return to the previous item.
ENTER OF SPACE	Enable or Select the current item.
$\rightarrow$ $\leftarrow$	Expand / Collapse menus.
$\frown$	Scroll Up and Down within a menu. Toggle the current radio button.

The login, splash screen and Web Access interface are all 508 compliant.



×
Notification Schedule Open menu
Save and Close  Phone: Avaya[1234] Phone: Avaya[D][9057079700]
Address: Phone: Avaya[1234]  V ENTER Phone: Avaya+office[1(416)55512  SMS: Cell%5EText[1(905)7079700  V SCrOI
Number of retries 1 Email: [johnc@erbmusic.com] Innutes between retries when line is busy
Minutes between retries when there is no answer 1 Schedule description
Disable Recurrence 🐟
Start Time: 9:30 VEnd Time: 10:00 V All day (24b) Server Time: 9:27:14
Daily SPACE Enable Checkbox
®Weekly unday ◎ Monday ◎ Tuesday 🗹 Wednesday
Vearly Cycle through Radio Buttons
Range of recurrence Year Month Day ®No end date
Start: 2018 06 25 CEnd after 1 occurrences
©End on 2018 06 25 0000
Year Month Day

## **TTY Integration**

Avaya Messaging includes support for TTY devices on your corporate voicemail system. TTY compatibility is provided through a language pack which can be downloaded from **PLDS**.

Install the language pack according to the instructions found on page 635 of the Server Installation Guide.

Once the language pack for **TTY English** has been installed, it can be chosen as the default language for your company and for each user's mailbox.

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**Hint**: It is recommended that a separate telephone number be used for the company for TTY language prompts. This prevents TTY callers from getting no response on their device from a voice enabled system, and hearing callers receiving unintelligible signals on their handset from the TTY service.

## Voice Recordings and TTY

The TTY system automatically converts system prompts into signals compatible with TTY devices. However, voice recordings made on-site cannot be converted.

To build greetings that appear on TTY devices, the greeting must be typed into a software program that converts the text into a TTY compatible audio format, which is then saved as a WAV file. These audio files can then be uploaded into Avaya Messaging to replace the voice recordings for that company with TTY prompts.

**Note**: It is recommended that the TTY feature be used only with shorter messages and prompts, such as for managing your mailbox and for internal transfers. For use with longer texts, such as with the Telephone User Interface (TUI), using Avaya Messaging Web Access is preferred.

Accessibility

## APPENDIX A: REVISION HISTORY

Date	Change Summary
27 April, 2021	Initial Document Release.
29 April, 2021	Updated the EWS OAuth configuration procedure.
23 September, 2021	Corrected some configuration issues (Block UDP Port=False). Note regarding HA time zones all being the same.
12 October, 2021	Updated the ASR section to include verification of the license using WebLM.
13 October, 2021	Updated the OAuth 2 configuration section for Google integration.
29 October, 2021	Added section for configuring a single DID to handle both fax and voice traffic.
17 December, 2021	New note regarding the minimum length of voice greeting to allow fax detection to occur.
4 February, 2022	Removed non-Avaya brands from list of supported platforms.
18 March, 2022	Updated notification regarding the maximum length of a transcribed message (from 60 seconds to unlimited (subject to admin config)).
24 June, 2022	Updated the MS Graph integration guide.
29 June, 2022	Corrected issue with Google integration.

Appendix A: Revision History