

## IP Office Avaya Workplace Client Installation Notes

Release 12.0 Issue 15 April 2024

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## Part 1: Workplace Clients

## Chapter 1: Avaya Workplace Clients and IP Office

Avaya Workplace Client is a unified communications application that works on Windows, Android, macOS and iOS (iPhone and iPad) (see <u>Operating system support</u> on page 10).

- These notes cover installation of Avaya Workplace Client R3.33 or higher with IP Office R11.1.3 systems. See <u>Planning for and Administering Avaya Workplace Client for Android,</u> iOS, Mac and Windows.
- If planning to support Avaya Workplace Client remote extensions, including IPv6 extensions, see <u>Deploying Remote IP Office SIP Phones with an ASBCE</u>.

#### **Related links**

What is new on page 9 Operating system support on page 10 User licensing on page 11 Avaya Workplace Client Modes on page 12 Codec support on page 13

### What is new

#### IP Office R11.1.3

For IP Office R11.1.3, IP Office supports the following new features for the Avaya Workplace Client:

#### Internal or Mobile Twinning Selection

Avaya Workplace Client users can have both **Internal Twinning** and **Mobility Features** configured by the IP Office system administrator. Those users can then select which twinning mode is active using their client's **Incoming Call Features** menu. They can only enable one twinning mode at any time.

#### Simultaneous Device Call Controls

Avaya Workplace Client users with simultaneous or twinned telephone devices can move and retrieve calls between those devices and their Avaya Workplace Client device.

- When they have answered a call on another device, they can use their Avaya Workplace Client to retrieve that call on the client (**Retrieve Call**).

- When they have answered a call on their Avaya Workplace Client, they can move the call to their other device (**Move Call**).

#### Workplace Client IPv6 Support

For IP Office R11.1.3.1, mobile Avaya Workplace Client R3.35 users (Android and iOS) can connect using IPv6 through an ASBCE R10.1.2. The ASBCE does the required IPv6 to IPv4 address routing. For further details, refer to the <u>Deploying Remote IP Office SIP Phones with an ASBCE</u> manual.

#### IP Office R11.1.2.4

For IP Office R11.1.2.4, IP Office supports the following new features for the Avaya Workplace Client:

- **46xxspecials.txt File Supported** IP Office now supports the use of the 46xxspecials.txt file with Avaya Workplace Client clients. This allows custom settings to be applied to the clients whilst still using the auto-generated 46xxsettings.txt file for the main IP Office settings.
- User Self-Avatar Previously for the user's self-avatar, Avaya Workplace Client just displayed the user's initials. Now, for user's logged in using Avaya Spaces or SSO, Avaya Workplace Client can use the user's avatar from the Avaya Spaces or SSO account (Gmail, Office365, Salesforce) used to login. Alternatively, it can use their avatar for Microsoft Exchange if using Exchange Web Services (EWS) integration.
- Auto-Answer Avaya Workplace Client users can now enable an Incoming Call Features setting to automatically answer calls. When on, all calls (audio, video and group) that would have rung on the client device are auto-answered.

#### **Related links**

Avaya Workplace Clients and IP Office on page 9

## **Operating system support**

At the time of the release of IP Office R12.0, Avaya Workplace Client is supported with IP Office R12.0 on the following operation systems.

OS	Support Versions
iOS	iOS 12.x/14.x/16.x. IP Office support is for iPhone and iPad devices only. It does not include other iOS devices such as iPod Touch.
Android	Android 11.x/12.x/13.x.
Windows	Windows 10, Windows 11. Windows support is only on Pro and Enterprise versions.
macOS	macOS 12.x/13.x/14.x

This is based on Avaya Workplace Client v35. For later Avaya Workplace Client releases, refer to the product release notes for details of changes.

#### **Related links**

Avaya Workplace Clients and IP Office on page 9

## **User licensing**

Use of Avaya Workplace Client is subject to the following entitlement requirements.

- Vantage Phones For non-IP Office Subscription systems, these do not apply to Avaya Workplace Client on Vantage V3 devices, where support for the client is enabled by the phone's Avaya IP Endpoint license.
- For descriptions of the 'Basic' and 'Advanced' client feature sets, see <u>Avaya Workplace Client</u> <u>Modes</u> on page 12.

#### Subscription Systems

On subscription mode IP Office systems, Avaya Workplace Client is supported for the following users, including Vantage phone users:

User Subscription	Client Features	Operating System
Telephony Plus User	Basic	macOS, Windows
Unified Communications User	Advanced	Android, iOS, macOS, Windows

#### Non-Subscription Server Edition/Select Systems

On IP Office Server Edition and IP Office Select systems, Avaya Workplace Client is supported for the following users:

User Profile	System Licenses	User Licenses	<b>Client Features</b>	Operating System
Office Worker User	IP Office Server	Office Worker	Basic	macOS, Windows
Power User	Edition or IP Office Select	Power User	Advanced	Android, iOS, macOS, Windows

#### Non-Subscription IP500 V2 Systems

On IP500 V2 systems running in Essential Edition or Preferred Edition modes, Avaya Workplace Client is supported for the following users

User Profile	System Licenses	User Licenses	Client Features	Operating System
Basic User	Essential Edition	Avaya Softphone License	Basic	macOS, Windows
Mobile User	Essential Edition + Preferred Edition	Mobile Worker + Avaya Softphone License		
Teleworker User		Teleworker	Advanced	
Office Worker User		Office Worker		
Power User		Power User		Android, iOS, macOS, Windows

#### **Related links**

Avaya Workplace Clients and IP Office on page 9

## **Avaya Workplace Client Modes**

The user's Avaya Workplace Client client can operates with either basic or full feature, based on the user's IP Office licenses. See <u>User licensing</u> on page 11.

Client Features	Description			
Basic	This is the basic mode of Avaya Workplace Client support:			
	It only supports Windows and macOS clients.			
	• It only supports basic telephony and local contacts from the host operating system.			
	In this mode, when logged into Avaya Workplace Client, it is the user's sole telephony device:			
	<ul> <li>Logging into Avaya Workplace Client logs the user off any other extension.</li> </ul>			
	gging onto another phone logs them out of Avaya Workplace Client.			
Advanced	This is the fully featured mode of Avaya Workplace Client operation.			
	It supports Windows, macOS, Android and iOS clients.			
	• The user can use the client as their sole telephony device or in conjunction with other phones (IP Office simultaneous mode).			
	A range of additional features, listed below, can be configured.			

Feature		Client Features		
		Basic	Advanced	
Operating System	Windows, macOS	1	1	
	Android, iOS	_	1	
Contacts	Local Contacts	1	1	
	IP Office Directory	_	1	
	Enterprise Directory	_	1	
Presence		- 1		
Instant Messaging	Instant Messaging		1	
IP Office Simultaneou	us Mode	-	1	
This mode allows a use For example, the user phone and Avaya Work page 41.				
Hidden Mode (Agent M	_	1		
This mode is used for u another application but connection. See <u>Disab</u>				

#### Avaya Workplace Client Modes

The following Avaya Workplace Client modes are supported by the client **Place and Receive Calls Using...** setting.

Place and Receive Calls Using	Client Features	
	Basic	Advanced
This Computer	1	✓
In this mode, the client makes and answers calls on the client device, including the call audio and video.		
Shared Control (Desk Phone)	_	✓
In this mode, the client is used to make and answer calls on the user's associated IP Office desk phone. See <u>Workplace Shared Control Mode</u> on page 39		
Other Phone Mode (Telecommuter)	_	1
In this mode, the user specifies the number of another phone to use as the audio path for their calls.		
• Making a call from the client causes the IP Office to call that other phone and, when answered, then make a call to the number dialed.		
<ul> <li>Incoming calls to the user are redirected to the other number to be answered on that phone.</li> </ul>		
Workplace Client (VDI)	_	✓
This mode uses two clients, one installed on the local PC and the other on the user's virtual VDI desktop. The local client is used for call audio whilst the virtual desktop client is used for call control and other features. See <u>Avaya</u> <u>Workplace Client VDI Support</u> on page 43.		
Power User or Unified Communications User license only.		

#### **Related links**

Avaya Workplace Clients and IP Office on page 9

## **Codec support**

The supported audio codecs depend on the type of Avaya Workplace Client and the type of IP Office system.

Codec	Mobile		IP (	Office
	iOS, Android	macOS, Windows	IP500 V2	Other
Opus	1	1	-	<b>√</b> [1]

Table continues...

Codec	Mobile		IP Office	
	iOS, Android	macOS, Windows	IP500 V2	Other
G.722	1	1	1	✓
G.711 A-law	1	1	1	✓
G.711 U-Law	1	1	1	1
G.726	1	1	_	-
G.729A	1	1	1	1
G.729B	1	_	1	-

1. Supported from IP Office R11.1 FP2.

#### **Related links**

Avaya Workplace Clients and IP Office on page 9

## **Chapter 2: Workplace Ports**

This section covers the ports used by the client and associated applications.

#### **Related links**

<u>Avaya Workplace Client Ports</u> on page 15 <u>Requirements for Avaya Workplace Client and Avaya Spaces</u> on page 16 <u>Requirements for Avaya Workplace Client and Equinox Client Meetings Online</u> on page 17

## **Avaya Workplace Client Ports**

Firewall requirements inbound to the IP Office system.

Port	Direction	Protocol	Reason
443	In	HTTPS	Secure client configuration/web socket
80	In	HTTP	Client configuration/web socket.
8411	In	HTTP	Client configuration/web socket if <b>Use preferred</b> <b>phone ports</b> enabled on IP Office.
411	In	HTTPS	Secure client configuration/web socket if <b>Use</b> <b>preferred phone ports</b> enabled on IP Office.
5060	In/Out	TCP/UDP	UDP/TCP SIP Signaling. Use of 5060 is deprecated. On Android clients a warning is displayed.
5061	In/Out	TCP/TLS	TLS SIP Signaling
40750-50750	In/Out	UDP-RTP/RTCP	Media for SIP calls and call control.

For the full port matrix, see https://support.avaya.com/css/secure/documents/101065872.

#### **Related links**

Workplace Ports on page 15

# Requirements for Avaya Workplace Client and Avaya Spaces

Avaya Spaces endpoints use the following types of traffic:

- HTTPS and WebSocket (WSS) (WebSocket)
- WebRTC (wiki/WebRTC)

TLS traffic is used for both HTTPS and WSS, any TLS-inspection should support these protocols or have an exception for Spaces' hosts.

TCP and HTTP tunneling are not supported for Audio and Video.

The following hosts and protocols should be unrestricted for all Avaya Spaces features to work as intended. Whitelisting based on IP address is not recommended since these may change dynamically. In addition, HTTP headers such at Authorization should be left intact.

Hosts	Ports	Protocol	Description
*.avayacloud.com	80, 443	HTTPS, WSS	Messages
	1025-65535	UDP	Audio/Video
	3000–3999	UDP	Audio/Video
*.googleapis.com	80, 443	HTTPS	Screen sharing, file sharing
*.onesna.com	80, 443	WSS	Presence (Presence in this context refers to local (Spaces) presence such as attendees joining the same Space – other attendee should see green dot showing the user is present. )
	1025-65535	UDP	Audio/Video
	3000-3999	UDP	Audio/Video
*.esna.com	80, 443	HTTPS	Mobile authentication
ASN of 15169	5228, 5229, 5230	ТСР	Push notification
accounts.google.com	80, 443	HTTPS	SSO
login.microsoftonline.c om	80, 443	HTTPS	SSO
login.salesforce.com	80, 443	HTTPS	SSO
*.avaya.com	80, 443	HTTPS	SSO
*.gstatic.com	80, 443	HTTPS	CDN

#### **Related links**

Workplace Ports on page 15

## Requirements for Avaya Workplace Client and Equinox Client Meetings Online

Firewall requirements in direction from customer premise to Cloud.

Port	Direction	Protocol	Reason
443, 8443	Out	ТСР	Unified Portal, web meet me (WebRTC) signaling.
35000-40000 (configurable)	Out	UDP	SIP connectivity – media.
3478, 50000-55000 (configurable)	Out	UDP	Web meet me connectivity – media.

#### **Related links**

Workplace Ports on page 15

## Chapter 3: IP Office SIP Configuration for Avaya Workplace Client Support

The IP Office system needs to be configured for SIP extension operation. Refer to the <u>IP Office SIP</u> <u>Telephone Installation Notes</u>.

- The system's **SIP Registrar FQDN** should be set and should be resolvable through DNS back to the system.
- For Avaya Spaces and external Avaya Workplace Client, that resolution must be supported externally.

#### **Related links**

IP Office Messaging Server Configuration on page 18 User Configuration on page 19 Creating an Avaya Workplace Client user on page 19 Avaya Workplace Client Emergency Number Dialing on page 20 IP Office User Settings for Avaya Workplace Client on page 21 IP Office Settings Files on page 22 Avaya Workplace Client NoUser Source Numbers on page 22

## **IP Office Messaging Server Configuration**

Avaya Workplace Client clients can perform their initial registration either direct with the IP Office system or via Avaya Spaces. The selected method affects how instant messaging and presence information can be provided to the Workplace clients.

#### Procedure

- 1. Using either IP Office Manager or IP Office Web Manager, load the system configuration.
- 2. Select **System > System**.
- 3. Locate the Messaging Server option and select the required setting:

Setting	Description
one-X Portal	The one-X Portal server is used to support instant messaging between IP Office clients including Avaya Workplace Client. The Workplace clients need to register directly to the IP Office system by entering the URL for the 46xxsetting.txt file rather than using features like SSO or email.
Avaya Spaces	Workplace client instant messaging and presence is done via Spaces. It does not include non-Spaces users. Workplace clients can register using any of the methods supported through Spaces.

4. Save the configuration change.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## **User Configuration**

The processes in this document create a new Avaya Workplace Client user who will use Avaya Workplace Client in standalone mode. That is, a user without an associated extension record.

If you want to configure a user who will use both a desk phone and Avaya Workplace Client in simultaneous mode, alter the configuration settings of the existing user. No adjustments to their existing associated extension record are required.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## **Creating an Avaya Workplace Client user**

#### Procedure

- 1. Using either IP Office Manager or IP Office Web Manager, load the system configuration.
- 2. If using IP Office Manager:
  - a. To edit an existing user, select the existing user record.
  - b. To add a new user , select the system on which the user record should be created and then select <sup>➡</sup> User.
- 3. If using IP Office Web Manager:
  - a. Select Call Management > Users.
  - b. To edit an existing user, click the 🖉 pencil icon next to the user.
  - c. To add a new user, click **+Add User** and select the system on which the user record should be created.

4. Configure the user settings.

User Voicemail Short Codes	Name Extn711	Full Name Equinox Mobile	Password	Unique Identity
Button Programming Telephony	Extension 711 ~	Account Status Enabled ~	Profile Power User ~	
Forwarding Mobility Group Membership	Locale Select V	Priority 5 ~	Login Code	Confirm Login Code
Voice Recording Do Not Disturb	Audio Conference PIN	Confirm Audio Conference PIN	System Phone Rights None  V	Device Type Unknown SIP device
Announcements Personal Directory SIP	APPLICATIONS Receptionist	Enable Softphone	Enable one-X Portal Services	Enable one-X TeleCommuter
Menu Programming Dial In	Enable Desktop/Tablet VoIP client	Enable Remote Worker	Enable Mobile VoIP Client	Send Mobility Email

Depending on the license profile selected, the configuration tool may indicate that various other settings must be complete.

5. When creating a new user, after clicking **OK** or **Create**, you are prompted whether to also automatically create a new extension.

If Avaya Workplace Client will be the user's only telephony device, select None.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## **Avaya Workplace Client Emergency Number Dialing**

You must instruct Avaya Workplace Client users on mobile/cellular devices to use the device's native dialer application when connecting from a remote location. Doing otherwise associates the emergency call with the IP Office location rather than the mobile/cellular device user's true location.

#### **Using Cellular Direct Numbers for Emergency Calls**

For Avaya Workplace Client users on mobile iOS/Android devices, you can configure a set of "cellular direct numbers" (CDN).

When an Avaya Workplace Client user dials a cellular direct number, the client prompts the user to allow the device's native dialer direct to make the call using the mobile/cellular public telephone network. The call location information is then determined by the mobile/cellular network provider's own services.

#### The SET\_CDNL Source Number

For IP Office R11.1 FP2 SP2 and higher, you can use the **NoUser** source number SET\_CDNL= to add cellular direct number settings to the IP Office system's configuration. These settings add CDN commands to the auto-generated 46xsettings.txt file.

• SET\_CDNL=DISABLED

This adds the following string to the auto-generated 46xxsettings.txt file. This disables cellular direct number operation.

```
- SET CELLULAR_DIRECT_ENABLED 0
```

```
• SET CDNL="911", "9911"
```

This adds the following strings to the auto-generated 46xxsettings.txt file. These enable cellular direct number operation and specify the numbers that will trigger the feature. Enclose each number in " " quotation marks. Separate multiple numbers with commas.

```
- SET CELLULAR_DIRECT_ENABLED 1
SET CELLULAR_DIRECT_NUMBER_LIST "911","9911"
```

- You can use multiple SET CDNL= source numbers.
- The maximum length of any individual SET CDNL= entry is 63 characters.
- The maximum length of the SET CELLULAR\_DIRECT\_NUMBER\_LIST string is 127 characters.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## **IP Office User Settings for Avaya Workplace Client**

Function	Description
Password	Enter and confirm the user's password. This password is used for Avaya Workplace Client login.
Extension	Enter an extension number for the user. This value is also used for the Avaya Workplace Client login.
Unique Identity	For Avaya Workplace Client users who will use Avaya Spaces, enter their domain email address. They can then use this address to login to Avaya Workplace Client.
Profile	Avaya Workplace Client is supported for any user profile other than <b>Non-licensed User</b> and <b>Telephony User</b> .
Enable Mobile VolP client	Select this option to allow the user to use Avaya Workplace Client on Android and iOS devices.
Enable Desktop/ Tablet VoIP client	Select this option to allow the user to user Avaya Workplace Client on macOS and Windows devices.

The key settings used for Avaya Workplace Client and functional description.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## **IP Office Settings Files**

During registration, the Avaya Workplace Client requests a 46xxsettings.txt file from the IP Office system. This contains a range of settings that control how the client will operate. This is either an 46xxsettings.txt file auto-generated by the IP Office system when requested or a static file that you have uploaded to the IP Office.

Using the auto-generated file is recommended as its contents automatically change to match the configuration of the IP Office system.

You can change or override the contents of the auto-generated 46xxsettings.txt file when required:

#### NoUser Source Numbers

You can add special values to the IP Office system configuration as **NoUser** source numbers. These add additional values to the 46xxsettings.txt file. See <u>Avaya Workplace Client</u> NoUser Source Numbers on page 22.

#### • 46xxspecials.txt File

For IP Office R11.1.2.4 and higher, the IP Office supports using a 46xxspecials.txt with Avaya Workplace Client. When present on the IP Office system, after requesting the 46xxsettings.txt file the client will request the 46xxspecials.txt file. This allows you to add additional settings whilst still using the auto-generated 46xxspecials.txt file.

For details of settings file operation, refer to the <u>IP Office SIP Telephone Installation Notes</u> manual.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## Avaya Workplace Client NoUser Source Numbers

The values in the auto-generated 46xxsettings.txt settings file are based on settings taken from the IP Office system configuration. However, it may occasionally be necessary to add additional values to the auto-generated file. You can do this by entering the values into the IP Office configuration as **NoUser** source numbers.

- Since these changes are applied to the values in the auto-generated 46xxsettings.txt file, they are overridden by any setting entered in the 46xxspecials.txt file if present.
- There are a number of **NoUser** source number settings used for remote extensions. They operate differently in that they change existing values in the auto-generated settings file given to a phone when the system detects that the phone requesting the file is a remote extension. See the Deploying Remote IP Office SIP Phones with an ASBCE manual.

Example **NoUser** source numbers for Avaya Workplace Client are:

• EQNX\_CONTACT\_MATCHING\_MIN\_DIGITS=N

By default the Avaya Workplace Client performs contact matching on calls using 10-digits. For some locations national numbering is shorter, for example 8 digits in Bahrain. This **NoUser** source numbers adds the command SET CONTACT\_MATCHING\_MIN\_DIGITS N to the auto-generated 46xxsettings.txt, where N is the number of digits to use for contact matching.

• SET\_CDNL=DISABLED

This adds the following string to the auto-generated 46xxsettings.txt file. This disables cellular direct number operation.

- SET CELLULAR\_DIRECT\_ENABLED 0
- SET CDNL="911","9911"

This adds the following strings to the auto-generated 46xxsettings.txt file. These enable cellular direct number operation and specify the numbers that will trigger the feature. Enclose each number in " " quotation marks. Separate multiple numbers with commas.

```
- SET CELLULAR DIRECT_ENABLED 1
SET CELLULAR_DIRECT_NUMBER_LIST "911","9911"
```

- You can use multiple SET CDNL= source numbers.
- The maximum length of any individual SET CDNL= entry is 63 characters.
- The maximum length of the SET CELLULAR\_DIRECT\_NUMBER\_LIST string is 127 characters.

#### **Related links**

IP Office SIP Configuration for Avaya Workplace Client Support on page 18

## **Chapter 4: Workplace Client Installation**

This section covers the processes for installation of the workplace client software on individual user devices.

#### **Related links**

<u>Windows Workplace Client Installation</u> on page 24 <u>Installing macOS client software</u> on page 28 <u>Installing Avaya Workplace Client on an iOS device</u> on page 29 Installing Avaya Workplace Client on an Android device on page 29

## Windows Workplace Client Installation

#### Before you begin

- Windows 8.1, Windows 10, Windows 11
- Microsoft .NET Framework 4.5.2 or a later version.
- Exchange Server/Outlook Integration
  - Exchange Server 2013 and later.
  - Microsoft Outlook add-in for web mail is supported on Exchange Server 2013 and later.
  - Exchange Web Services must be enabled for the Avaya Workplace Client Outlook Add-in. Internet access must also be available because portions of the add-in are hosted on the Internet.

The install package for the Windows Avaya Workplace Client can be downloaded from the IP Office support pages on <a href="http://support.avaya.com">http://support.avaya.com</a>.

#### **Related links**

<u>Workplace Client Installation</u> on page 24 <u>Windows Workplace Client Installation</u> on page 24 <u>Windows command line installation</u> on page 25 <u>Installation using a group policy</u> on page 27

### Windows Workplace Client Installation

This process covers simple single user installation without DSCP or IM support.

#### Procedure

- 1. Copy the MSI file to a temporary location on the PC.
- 2. Double-click on the installer.
- 3. Click Next.
- 4. Accept the terms of the license agreement and click Next.
- 5. Select the type of installation and click **Next**.

The **Custom** option allows you to select not to install the Outlook and web browser options.

- 6. If necessary change the installation path. Click Next.
- 7. Select the default language and click Next.
- 8. Click Install.
- 9. If prompted by the Windows operating system whether to allow the installation select Yes.
- 10. Click Finish.

#### Next steps

• Proceed to initial configuration. See Initial Avaya Workplace Client configuration on page 31.

#### **Related links**

Windows Workplace Client Installation on page 24

### Windows command line installation

The following command line options can be used to install/uninstall the Windows client. These can be used for individual installations or by network administrators to create group policies for installation (see <u>Installation using a group policy</u> on page 27).

- The Windows command is msiexec. This is then followed be a number of command options and values those options.
- Several options require the name of the Avaya Workplace Client installation file. Enclose the file name in "" quotation marks. The file name varies depending on the version. For example: "Avaya Workplace Setup 3.20.1.10.2.msi"
  - Multiple command options can be combined. For example, msiexec /i "Avaya Workplace Setup 3.20.1.10.2.msi" /qn OP=0 specifies an installation with no display (silent install) and the Outlook plug install disabled.

#### **Command Options**

The following are examples of the options and values that can be used with the msiexec command for Windows Avaya Workplace Client installation:

Purpose	Command Line Option and Values
Install	/i " <installer file="" msi="">"</installer>
	Use the .msi file to perform an installation of the client. For example:
	• msiexec /i "Avaya Workplace Setup.msi"
Silent process	/qn
	Run the command process with no user interface. This option is only supported when execusted with administrator privileges.
	For example, for a silent installation:
	• msiexec /i "Avaya Workplace Setup.msi" /qn
	•
Automatic	AUTOCONFIG=" <url config="" file="" of="">"</url>
configuration	Automatically apply the settings from the specified configuration file. This option is not supported for Avaya Spaces installations.
Uninstall	/x " <installer file="" msi="">"</installer>
	Use the .msi file to run an uninstall of the current client. For example:
	• msiexec /x "Avaya Workplace Setup.msi"
Installer help	/?
	Display general help for the msiexec command. For example:
	• msiexec /?
Log install	/l <path files="" for="" install="" log=""></path>
	Log the process to log files. The /l option is followed by a number of values that specify what outputs to include in the log.
	In the example below, the $\star$ elements indicates log everything (except verbose log outputs), the $v$ element indicates include verbose log outputs.
	• msiexec /i "Avaya Workplace Setup.msi" /l*v"C:/temp"
Enable IM Provider	IMPROVIDER=1
	Include the IM provider settings in the installation. Installation of the IM provider is disabled by default. For example:
	• msiexec /i "Avaya Workplace Setup.msi" IMPROVIDER=1
Enable DSCP	NOQOS=0
driver installation	Include enabling the DSCP driver in the installation. This is disabled by default. For example:
	• msiexec /i "Avaya Workplace Setup.msi" NOQOS=0

Table continues...

Purpose	Command Line Option and Values
Disable Outlook	OP=0
plug-in install	Disable inclusion of the outlook plug-in setup in the installation. For example:
	• msiexec /i "Avaya Workplace Setup.msi" <b>OP=0</b>
Disable browser	BP=0
plug-in	Disable inclusion of the browser plug-in in the installation. For example:
	• msiexec /i "Avaya Workplace Setup.msi" <b>BP=0</b>
VDI Install	VDIENV=1
	Specify that the installation is one for a virtual desktop. See <u>Avaya Workplace Client VDI</u> <u>Support</u> on page 43. For example:
	• msiexec /i "Avaya Workplace Setup.msi" VDIENV=1

#### Related links

Windows Workplace Client Installation on page 24

### Installation using a group policy

#### About this task

Use this procedure to deploy Avaya Workplace Client from a Windows server using a Group Policy. This can be used to automatically install the Avaya Workplace Client when a user logs in on the network.

This process uses the client's command line options. See <u>Windows command line installation</u> on page 25.

#### Procedure

- 1. Open Group Policy Management (if necessary use Start > run > GPMC.MSC.
- 2. Navigate to **Default Domain Policy**.
- 3. Right-click **Default Domain Policy** and click **Edit**.
- 4. Navigate to Computer Configuration > Policies > Windows Settings > Scripts.
- 5. Place the Avaya Workplace Client installer into the the **Scripts/Startup** folder.

You can open the location by clicking Show Files.

- 6. Add a new script by clicking **Add**.
- 7. Browse for the Avaya Workplace Client installer.
- In the Script Parameters field, add the command line parameters required.
   For example, for a silent installation add the /qn parameter and click OK

#### **Related links**

Windows Workplace Client Installation on page 24

## Installing macOS client software

#### About this task

The install package for the macOS Avaya Workplace Client can be downloaded from the IP Office support pages on <u>http://support.avaya.com</u>.

This process covers simple single user installation. For advanced installation options see <u>Windows command line installation</u> on page 25.

#### Procedure

- 1. Copy the DMG file to a temporary location on the PC.
- 2. Double-click on the installer.
- 3. Click Next.
- 4. Accept the terms of the license agreement and click Next.
- 5. If necessary change the installation path. Click Next.
- 6. Select the default language and click Next.
- 7. Click Install.
- 8. If prompted by the macOS operating system whether to allow the installation select Yes.
- 9. Click Finish.

#### Result

• Proceed to initial configuration. See Initial Avaya Workplace Client configuration on page 31.

#### **Related links**

Workplace Client Installation on page 24 Advanced installation on page 28

### **Advanced installation**

The following command line options can be used to install/uninstall the macOS client. Note that the silent options only work with administrator privileges.

- Tip: To automatically mount the .dmg file automatically, double-click the file.
- Silent Installation: /Volumes/Avaya\ Equinox/Install.app/Contents/MacOS/ Install -silent
- Automatic configuration: /Volumes/Avaya\ Equinox/Install.app/Contents/ MacOS/Install -silent -autoconfigURL <URL> where <URL> is the appropriate path to the settings file.
- Silent Uninstall: sudo /Volumes/Avaya\ Equinox/Uninstall.app/Contents/ MacOS/Uninstall -silent
- Installation help: /Volumes/Avaya\ Equinox/Install.app/Contents/MacOS/ Install -help

• Uninstall help: /Volumes/Avaya\ Equinox/Uninstall.app/Contents/MacOS/ Uninstall -help

#### **Related links**

Installing macOS client software on page 28

## Installing Avaya Workplace Client on an iOS device

- 1. Open the App Store and search for Avaya Workplace Client.
- 2. Select the entry.
- 3. Select Install.
- 4. After the installation process is complete, select **Open**.
- 5. Accept the terms of the license agreement and the message to not use Avaya Workplace Client to make emergency calls.

#### Next steps

• Proceed to initial configuration. See Initial Avaya Workplace Client configuration on page 31.

#### **Related links**

Workplace Client Installation on page 24

## Installing Avaya Workplace Client on an Android device

#### About this task

The Avaya Workplace Client can be installed from the Google Play Store.

#### Procedure

- 1. On the Android device, access the Google Play Store.
- 2. Search for Avaya Workplace.
- 3. Select Install.
- 4. Once the application is installed, either select **Open** or locate and click the <sup>25</sup> icon on the desktop.
- 5. Allow permission for the application to make and manage phone calls.

- 6. Allow permission for the application to record audio.
  - The remaining permissions are optional (take pictures and record video, access your contacts and access your calendar). However, if not selected then some features of Avaya Workplace Client will not work.
- 7. Allow the application to restart.
- 8. When the end user license agreement is displayed, click **Accept**.

#### Next steps

• Proceed to initial configuration. See Initial Avaya Workplace Client configuration on page 31.

#### **Related links**

Workplace Client Installation on page 24

# Chapter 5: Initial Avaya Workplace Client configuration

The details that the user needs to enter during the initial login vary depending on whether the installation model is using Avaya Spaces or not:

Method	Description
Email Login/Login with Avaya Spaces:	This login uses the user's domain email address as configured in the Avaya Spaces settings. Those settings then connect the client with the IP Office system.
IP Office Login/Login without Avaya Spaces:	This login uses the direct address of the settings file on the IP Office system and then uses the IP Office user's extension number and password.

#### **Related links**

<u>Avaya Workplace Client Email Connection</u> on page 31 <u>Direct IP Office Avaya Workplace Client connection</u> on page 32 <u>Calendar Integration</u> on page 33

## **Avaya Workplace Client Email Connection**

#### About this task

Use this process for installations that use Avaya Spaces. In that scenario, Avaya Workplace Client user register with Avaya Spaces using their email address. Their email address is set as their **Unique Identity** in the IP Office configuration.

The Avaya Spaces configuration for the domain tells the client the address of the IP Office system. This process is common to all the operating systems. If during this initial configuration, the operating system or installed virus checker prompts whether to allow the application, select that option.

#### Procedure

- 1. Start the Avaya Workplace Client application.
- 2. Select Configure my account.
- 3. In Email, enter your email address.
- 4. Click Next.

- 5. If prompted to **Choose your environment**, select the name of the system to which you want to login and click **Next**.
- 6. The next steps depend on whether the system has been configured for Avaya Cloud Authorization (see <u>Enabling Avaya Cloud authorization</u> on page 64):
  - If the Access everything from one account menu appears:
    - a. Select the type of account you want to use to login and enter the details. Otherwise, enter your email address and click **Get Started**.
    - b. The Avaya Workplace Client login menu appears briefly and then disappears as you are logged in.
  - If the Avaya Workplace Client login menu appears and stays visible:
    - a. Enter your extension number.
    - b. Enter your user password. This is the same password as you use for the user portal (self-administration).
    - c. Click Sign In.

#### **Related links**

Initial Avaya Workplace Client configuration on page 31

## **Direct IP Office Avaya Workplace Client connection**

#### About this task

Use this process for installations where Avaya Spaces is not being used. In this scenario, the Avaya Workplace Client user enters the address of the IP Office system's 46xxsettings.txt file. The user is prompted to register directly with the IP Office system using their extension number and password.

This process is common to all the client operating systems. If during this initial configuration, the operating system or installed virus checker prompts whether to allow the application, select that option.

#### Procedure

- 1. Start the Avaya Workplace Client application.
- 2. Select Configure my account.
- 3. Click on the 🔅 settings icon and select **Use web address**.
- 4. Enter the communication system's FQDN, prefixed with https:// and followed by / 46xxsettings.txt
  - It will look something like https://<serveraddress>/46xxsettings.txt. Do not use the system's numeric IP address.
- 5. Click **Next** and wait whilst the application fetches the information it needs from your communication system.

- 6. The next steps depend on whether the system has been configured for Avaya Cloud Authorization (see <u>Enabling Avaya Cloud authorization</u> on page 64):
  - If the Access everything from one account menu appears:
    - a. Select the type of account you want to use to login and enter the details. Otherwise, enter your email address and click **Get Started**.
    - b. The Avaya Workplace Client login menu appears briefly and then disappears as you are logged in.
  - If the Avaya Workplace Client login menu appears and stays visible:
    - a. Enter your extension number.
    - b. Enter your user password. This is the same password as you use for the user portal (self-administration).
    - c. Click Sign In.

#### **Related links**

Initial Avaya Workplace Client configuration on page 31

## **Calendar Integration**

Avaya Workplace Client can displays meetings from the user's calendar on its Top of Mind and My Meetings pages. The meetings can be drawn from the following sources:

Calendar	Description
Local calendar	For Avaya Workplace Client on Android and iOS devices, copy meetings from the local calendar of the device on which Avaya Workplace Client is running.
Exchange server	Copy meetings from the user's account on an Exchange server. Supported with Exchange 2013 and higher.

#### **Related links**

Initial Avaya Workplace Client configuration on page 31 Enabling exchange calendar support on page 33 Selecting the calendar to display on page 34 Enabling exchange calendar support on page 33 Selecting the calendar to display on page 34

### Enabling exchange calendar support

#### About this task

Before Exchange can be selected as a calendar source, details of the Exchange server and the user's email account on that server need to be entered in the Avaya Workplace Client settings.

Exchange Server 2013 and later versions supported

#### Procedure

- 1. Depending on the operating system, click on the settings 🕸 icon or click on the **Menu** icon and then the 🅸 settings icon.
- 2. Select Services > Exchange Calendar.
- 3. Enable Exchange Calendar.
- 4. Enter the Exchange server domain and server address details
- 5. Go to Accounts.
- 6. In the Exchange Calendar section, enter your email account details.
- 7. Click Done.

#### Result

Following the restart you can select Exchange as your calendar source.

#### **Related links**

<u>Calendar Integration</u> on page 33 <u>Calendar Integration</u> on page 33

### Selecting the calendar to display

#### Procedure

- 1. Click on the i Calendar icon
- 2. Click on the My Meetings drop down menu.
- 3. Select the calendars that you want the application to display.
- 4. Click My Meetings again to hide the list of available calendars.

#### **Related links**

<u>Calendar Integration</u> on page 33 <u>Calendar Integration</u> on page 33

## **Chapter 6: Calendar Integration**

Avaya Workplace Client can displays meetings from the user's calendar on its Top of Mind and My Meetings pages. The meetings can be drawn from the following sources:

Calendar	Description
Local calendar	For Avaya Workplace Client on Android and iOS devices, copy meetings from the local calendar of the device on which Avaya Workplace Client is running.
Exchange server	Copy meetings from the user's account on an Exchange server. Supported with Exchange 2013 and higher.

#### **Related links**

Initial Avaya Workplace Client configuration on page 31 Enabling exchange calendar support on page 33 Selecting the calendar to display on page 34 Enabling exchange calendar support on page 33 Selecting the calendar to display on page 34

## Enabling exchange calendar support

#### About this task

Before Exchange can be selected as a calendar source, details of the Exchange server and the user's email account on that server need to be entered in the Avaya Workplace Client settings.

Exchange Server 2013 and later versions supported

#### Procedure

- 1. Depending on the operating system, click on the settings 🔅 icon or click on the **Menu** icon and then the 🎡 settings icon.
- 2. Select Services > Exchange Calendar.
- 3. Enable Exchange Calendar.
- 4. Enter the Exchange server domain and server address details
- 5. Go to Accounts.
- 6. In the Exchange Calendar section, enter your email account details.

7. Click Done.

#### Result

Following the restart you can select Exchange as your calendar source.

#### **Related links**

<u>Calendar Integration</u> on page 33 <u>Calendar Integration</u> on page 33

## Selecting the calendar to display

#### Procedure

- 1. Click on the i Calendar icon
- 2. Click on the My Meetings drop down menu.
- 3. Select the calendars that you want the application to display.
- 4. Click My Meetings again to hide the list of available calendars.

#### **Related links**

<u>Calendar Integration</u> on page 33 <u>Calendar Integration</u> on page 33

# **Chapter 7: Contact Integration**

This chapter covers processes relating to the display of contacts within Avaya Workplace Client.

• Avaya Workplace Client licensed for basic mode, only support local contacts. See <u>User</u> <u>licensing</u> on page 11.

#### **Related links**

<u>Contact Integration</u> on page 37 <u>Exchange Self-Avatar Support</u> on page 37

### **Contact Integration**

#### About this task

If when you initially logged in to Avaya Workplace Client, you did not configure access to local contacts.

#### Procedure

- 1. Depending on the operating system, click on the settings 🔅 icon or click on the **Menu** icon and then the 🄅 settings icon.
- 2. Then:
  - Android: Select Privacy and safety > App permissionsContacts and enable Contacts permissions
  - iOS: Select Privacy and enable Contacts.
  - Windows/macOS: Select User Preferences > Contacts and enable Show Local Contacts.

#### **Related links**

Contact Integration on page 37

### **Exchange Self-Avatar Support**

If not using self-avatar support through Avaya Spaces or SSO login, you can enable self-avatar support using Microsoft Exchange Web Services (EWS).

#### To configure this, in summary:

- 1. Add the setting SELF\_AVATAR\_ENABLED 1 to be added to the settings file (46xxsettings.txt or 46xxspecials.txt) provided to clients.
- 2. Configure **Exchange Calendar** support in the Avaya Workplace Client., setting the integration to **Microsoft Moder**n. See <u>Calendar Integration</u> on page 33.

#### **Related links**

Contact Integration on page 37

# **Chapter 8: Workplace Shared Control Mode**

Windows and macOS users can switch their Avaya Workplace Client to shared control mode. In this mode, the client is used to make and answer calls via the user's associated desk phone.

- Supported phones: 1100 Series, 1200 Series, J100 Series (except J129), 9600 Series, DECT R4, digital and analog extensions.
- The Avaya Workplace Client can control the following telephony features on the phone: answer calls, make calls, hold, unhold, ignore, drop, transfer, conference, send DTMF, collect voicemail.
- · This feature is not supported for users licensed for 'basic' features only.

When using shared control mode, the following changes apply to the Avaya Workplace Client:

- Mute/unmute is not supported. The clients mute/unmute controls are disabled.
- Video calls are not supported. The video call controls are disabled.
- Conference controls are hidden.
- The user cannot drag multiple contacts in order to create an ad-hoc conference.
- The user cannot add someone to a call.
- Numbers dialed from the client are not processed by the client's dial plan settings.
- Calls ignored on the desk phone (which mutes the phones audible alerting) continue to audible alert on the client.
- Exiting the client/logging in again does not affect existing calls in progress on the desk phone.

#### **Related links**

Enabling shared control mode on page 39

### Enabling shared control mode

#### About this task

Use the following process to switch the desktop client to shared control mode.

• This feature is not supported for users licensed for 'basic' features only.

#### Procedure

1. Click 🕮

Workplace Shared Control Mode

#### 2. Select Shared Control.

#### **Related links**

Workplace Shared Control Mode on page 39

# **Chapter 9: Simultaneous mode**

IP Office systems support 'simultaneous' mode operation. In that mode, users can be associated with multiple telephony devices at the same time. They can answer and make calls on any of those devices.

#### **Related links**

<u>Simultaneous Mode Devices</u> on page 41 <u>Simultaneous Mode Notes</u> on page 41 <u>Moving Calls Between Simultaneous Devices</u> on page 42

### **Simultaneous Mode Devices**

An IP Office user can be logged in simultaneously on <u>one of each of the following types of</u> <u>telephone devices</u>:

Telephony Client	Notes
A physical desk phone	A physical phone, including a SIP, H.323 or DECT extension. This also includes clients running on a Vantage phone.
A desktop (PC) VoIP client:	Avaya Workplace Client for Windows
chent:	Avaya Workplace Client for macOS
A mobile VoIP client:	Avaya Workplace Client for Android
	Avaya Workplace Client for iOS
A WebRTC client:	Spaces Calling using the Chrome extension.

#### **Related links**

Simultaneous mode on page 41

### **Simultaneous Mode Notes**

The following notes relate to the operation of simultaneous telephony:

• Incoming calls to the user alert on all their devices and they can choose which device they want to use to answer.

- Whilst the user has a call in progress on one of the devices, any additional incoming call is presented only to that device.
- It is recommended not to mix simultaneous mode operation with features such as such as mobile twinning, telecommuting and mobile call controls that can lead to multiple duplicate calls. For example, a mobile client's external PSTN numbers as a active mobile twinning destination will cause duplicate alerts for the same call.
- Users can have their desk phone and their softphone applications registered to different servers in an IP Office network.
- Use of simultaneous mode is not supported when also using a non-telephony CTI client to control call handling. In that scenario it is not always possible to predict which telephony client will be used when making/answering a call from the CTI client which can lead to confusion.

#### **Related links**

Simultaneous mode on page 41

### **Moving Calls Between Simultaneous Devices**

The IP Office system supports a number of features to enable users to move calls between their simultaneous devices.

Action	Description				
Transfer	Users can transfer calls to their own extension number. That causes the call to alert on their other simultaneous devices.				
Steal	For IP Office R11.1.2.4 and higher, a <b>Call Steal</b> shortcode set to with the user's extension number will retrieve a current call from their other simultaneous device.				
Workplace Clients	For IP Office R11.1.3 and higher, Avaya Workplace Client users can use their client to move and retrieve calls:				
	• Using move, the user can send a call from their Avaya Workplace Client to thei other simultaneous devices.				
	<ul> <li>Using retrieve, the user can move a call answered on their simultaneous device to their Avaya Workplace Client.</li> </ul>				
	These features are enabled by a SET IPO_CALL_HANDOVER_ENABLED 1 line in the 46xxsettings.txt file.				

#### **Related links**

Simultaneous mode on page 41

# Chapter 10: Avaya Workplace Client VDI Support

This section provides notes for deploying Avaya Workplace Client users in a virtual desktop infrastructure (VDI) environment. This is supported in IP Office R11.1 FP2 or higher with Avaya Workplace Client R3.22 or higher.

In basic outline, the solution uses two clients.

- One installed on the user's virtual desktop and used for call control.
- The other installed on the local PC from which the user accesses their virtual desktop. This client is used purely for the call media of calls controlled by the client running on the virtual desktop.
- The user needs to be logged in on both clients at the same time.
- This is supported for Power User and Unified Communications User user profiles.

	Local PC	Virtual Desktop	
Supported VDI environment	VMware and Citrix (XenApps and XenDesktop)		
Operating System	Windows or Chromebook (Android)	Windows	
Workplace Client	Workplace for Windows or Workplace for AndroidWorkplace for Windows		
client role	Call media (audio only)	Call control	
Place and Receive Calls Using Setting	This Computer	Workplace Client	
Notifications	Disabled	Enabled (default)	

#### Related links

<u>Virtual client limitations</u> on page 44 <u>Local PC client installation for VDI support</u> on page 44

Virtual desktop client installation for VDI support on page 46

### Virtual client limitations

When using the Avaya Workplace Client client as a virtual desktop client, the following limitations apply:

- Mute/unmute is not supported. The clients mute/unmute controls are disabled.
- Video calls are not supported. The video call controls are disabled.
- Conference controls are hidden.
- The user cannot drag multiple contacts in order to create an ad-hoc conference.
- The user cannot add someone to a call.

#### **Related links**

Avaya Workplace Client VDI Support on page 43

### Local PC client installation for VDI support

This section details the processes necessary for installation of the Avaya Workplace Client on the local PC in a VDI setup. This client is then used for the call media (audio) during calls.

• For installation of the client on the virtual desktop, see <u>Virtual desktop client installation for</u> <u>VDI support</u> on page 46.

#### **Related links**

Avaya Workplace Client VDI Support on page 43 Installing the local VDI client on page 44 Enabling Chrome desktop mode on page 45 Disabling local notifications on page 45

### Installing the local VDI client

- 1. The local Avaya Workplace Client is installed and registered using the normal processes for a Windows or Android client installation.
  - Windows: See Windows Workplace Client Installation on page 24.
  - Chromebook: See Installing Avaya Workplace Client on an Android device on page 29.
- 2. Once installed, the user should be registered as normal. See <u>Direct IP Office Avaya</u> <u>Workplace Client connection</u> on page 32.
- 3. Test operation by making calls to and from the client. This tests the media connection between the local client and the IP Office.

#### Next steps

- Following installation and registration:
  - Windows: Go to Disabling local notifications on page 45.
  - **Chromebook:** Go to Enabling Chrome desktop mode on page 45 and then Disabling local notifications on page 45.

#### **Related links**

Local PC client installation for VDI support on page 44

### **Enabling Chrome desktop mode**

When installed on a Chromebook, the Avaya Workplace Client can operation in either of two mode; desktop mode or as a mobility endpoint. When acting as a mobility client it cannot be controlled and used by the Avaya Workplace Client installed on the user's virtual desktop.

#### About this task

By default, the Avaya Workplace Client is automatically configured to operate in desktop mode. However, that setting should be checked using the process below.

#### Procedure

- 1. Click on the  $\equiv$  **Menu** icon and then the  $\diamondsuit$  settings icon.
- 2. Select User Preferences > General.
- 3. Check that **Desktop mode** is enabled.

#### Next steps

• Go to Disabling local notifications on page 45.

#### **Related links**

Local PC client installation for VDI support on page 44

### **Disabling local notifications**

By default, both the local and the VDI desktop clients will receive and show the same notifications. To prevent this, notifications should be disabled in the local client.

- 1. Depending on the operating system, click on the settings 🔅 icon or click on the **Menu** icon and then the 🎡 settings icon.
- 2. Select User Preferences.
- 3. Depending on the local PC operation system:
  - Windows: Select Display and enable Hidden Mode.
  - Chromebook:
    - a. Select Settings > User Preferences > Notifications > Channel Notification Settings > Incoming calls > Behavior.

b. Select the **Make sound** option and minimize the client window to turn off the incoming call notifications.

#### 4. Click Done.

#### Next steps

• Install the user's virtual desktop client. See <u>Virtual desktop client installation for VDI</u> <u>support</u> on page 46.

#### **Related links**

Local PC client installation for VDI support on page 44

### Virtual desktop client installation for VDI support

The Avaya Workplace Client needs to be installed on the Windows VDI desktop using command line instructions.

#### **Related links**

Avaya Workplace Client VDI Support on page 43 Virtual desktop client installation on page 46 Virtual desktop client login on page 46 Setting the client for the call media on page 47

### Virtual desktop client installation

Installation of the Avaya Workplace Client on a virtual Windows desktop should not be done using the normal process of double-clicking on the .msi file. Instead it must be done using a command line installation.

The basic command line used command is <code>msiexec /i "Avaya Workplace Setup.msi" VDIENV=1</code>. This runs the installation whilst enabling settings for use in a virtual desktop environment. If required, other command options can be included in the command line. See <u>Windows command line installation</u> on page 25.

The command line can be run either individual on each virtual desktop or using a Windows group policy (see <u>Installation using a group policy</u> on page 27).

#### **Related links**

Virtual desktop client installation for VDI support on page 46

### Virtual desktop client login

Once the client software has been installed, the client needs to register and login <u>directly</u> with the IP Office system. See <u>Direct IP Office Avaya Workplace Client connection</u> on page 32. Operation in the VDI environment requires the user to be simultaneously logged in on both the local PC client and the virtual desktop client.

Once the virtual desktop client is connected, it needs to be configured to use the local client for its media. See <u>Setting the client for the call media</u> on page 47.

#### **Related links**

Virtual desktop client installation for VDI support on page 46

### Setting the client for the call media

The Avaya Workplace Client installed on the VDI desktop needs to be configured to route its call media to the client installed on the local PC.

#### Procedure

- 1. Access the Avaya Workplace Client running on the VDI desktop.
- 2. Click 🕼
- 3. Select Workplace Client.

#### **Related links**

Virtual desktop client installation for VDI support on page 46

# **Chapter 11: Workplace Troubleshooting**

The following methods can be used to monitor the operation of workplace clients.

#### **Related links**

<u>Defaulting an Avaya Workplace Client</u> on page 48 <u>Emailing a bug report</u> on page 49 <u>Setting the Email Address</u> on page 49

### **Defaulting an Avaya Workplace Client**

#### About this task

You can clear the application settings without having to reinstall the application.

#### Procedure

- 1. Depending on the operating system, click on the settings 🔅 icon or click on the **Menu** icon and then the 🎡 settings icon.
- 2. Select Support.
- 3. Click Reset Application.
- 4. Click Clear.

The client is restarted.

#### Next steps

Reconfigure the application

#### **Related links**

Workplace Troubleshooting on page 48

### Emailing a bug report

#### About this task

The Avaya Workplace Client softphone can create an email to which it attaches a zipped copy of its application logs. On Android devices, to use this function, you first need to set an email address

• On a Windows PC, this process can still be used even if the no default email client has been setup. For example, if the user uses browser based email only. After clicking **Report a Problem**, the client archives its logs and places the zip file in the temporary folder: C:\Users\%USERPROFILE%\AppData\Local\Avaya\Avaya IX Workplace\Temp. The file name will be similar to the following: Logs 2022-12-19 10-19-36-270.zip.

#### Procedure

- 1. Depending on the operating system, click on the settings 🔅 icon or click on the **Menu** icon and then the 🎡 settings icon.
- Select Support > Report a Problem (on Android devices, select Support > Report a Problem > Send Logs).
- 3. There is a pause while the application's log files are zipped.
- 4. On Android devices you may be prompted to select which email application to use.
- 5. The email application is started with the zipped log files attached.
- 6. Add any additional information that may assist the support personnel.
- 7. Complete and send the email.

#### **Related links**

Workplace Troubleshooting on page 48

### **Setting the Email Address**

#### About this task

This option is only necessary on Android devices. Other Avaya Workplace Client allow manual entry of the address before the email is sent.

#### Procedure

- 1. Depending on the operating system, click on the settings 🔅 icon or click on the **Menu** icon and then the 🏟 settings icon.
- 2. Select Support > Report a Problem > Support Email Address.
- 3. Enter the destination email address for support.

#### **Related links**

Workplace Troubleshooting on page 48

# Part 2: Avaya Cloud Services

# Chapter 12: Configuring Avaya Cloud Services support

This chapter covers the common configuration for IP Office systems to support Avaya Cloud Services. These steps are prerequisites to the configuration for specific features covered in the following chapters.

You can use Avaya Cloud Services to enable and support a range of additional features:

Feature	Description
User Synchronization	The IP Office can share details of users with a <b>Unique Identity</b> (email address) with Avaya Spaces. Those users can then:
	<ul> <li>Login to and use Avaya Spaces.</li> </ul>
	<ul> <li>By default, Avaya Spaces grants each user a trial license for Avaya Spaces. You need to apply other licenses through the Avaya Spaces administration menus.</li> </ul>
	• Register their Avaya Workplace client using their <b>Unique Identity</b> email address.
	- Not supported with IPv6.
Workplace SSO login	Using Avaya Cloud Services, you can also configure the IP Office to allow users to login to Avaya Workplace Client using their Google, Office 365, or Salesforce account.
Apple Push Notification	The IP Office can use Apple Push Notification Service (APNS) to send push notifications to Avaya Workplace Client users on iOS devices. If iOS has suspended the client, the user can use controls in the notification to restart the client.
Instant Messaging with Avaya Spaces	Support instant messaging between Avaya Spaces users, Avaya Workplace Client users and other IP Office clients.
Use Spaces Calling	Spaces calling lets users make and receive IP Office calls through Avaya Spaces.
Use Avaya Calling for MS Teams	Make and answer calls within Microsoft Teams. See the <u>Deploying Avaya Calling for</u> <u>MS Teams with IP Office</u> manual.

#### **Related links**

Avaya Cloud Services support checklist on page 52 Verifying the company domain on page 52 Obtain the domain API Key and Key Secret on page 54 Enter the Avaya Cloud Services settings on page 54 Updating the Avaya Workplace clients on page 56

### Avaya Cloud Services support checklist

#	Action	Link/Notes
1.	Select an internet time source.	The IP Office system must use an accurate time source to ensure correct certificate validation.
2.	Configure SIP TLS extension support.	The IP Office must be configured and tested to support SIP TLS.
3.	Verify the customer domain.	<ul> <li>See <u>Verifying the company domain</u> on page 52.</li> </ul>
4.	Obtain the API key and secret.	See <u>Obtain the domain API Key and Key</u> <u>Secret</u> on page 54.
5.	Enter the API key and secret into the IP Office security settings and enable Avaya Cloud Services support.	• See <u>Enter the Avaya Cloud Services</u> <u>settings</u> on page 54.
6.	Continue with configuration for required Avaya Cloud Services features	<u>Configuring Avaya Cloud Services</u> <u>synchronization</u> on page 57
		<ul> <li><u>Configuring SSO login support</u> on page 64</li> </ul>
		<ul> <li><u>Enabling Apple Push Notifications</u> on page 67</li> </ul>
		<u>Supporting Spaces Calling</u> on page 76

#### **Related links**

Configuring Avaya Cloud Services support on page 51

### Verifying the company domain

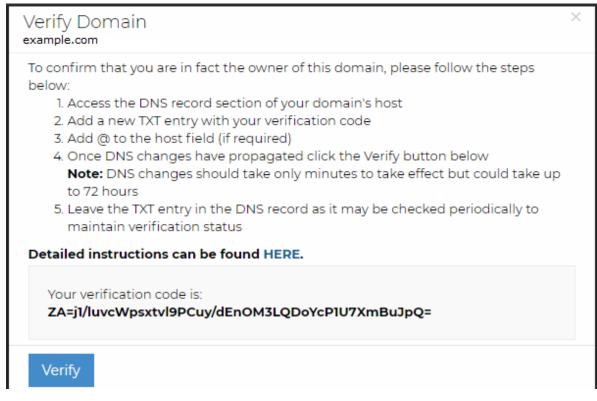
#### About this task

The key part of Avaya Cloud Services integration is to associate the customer's domain address with their Avaya Cloud Services account. This process requires:

- The customer domain. For example: example.com
- Access to the DNS server settings for the domain.

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. If not already done so, click on your name top-right and select **Add Company**. Otherwise, slick on **Manage Companies** and then either:
  - Click on the existing company name.

- · Click Add New Company to add another company.
- 3. Select the **Domains** tab.
- 4. Select Add Domain.
- 5. Enter the domain address and click **OK**.
- 6. Click on the **Verify** button shown next to the domain name. The menu displays a verification code.



7. Copy the verification code and add it as a TXT record to the DNS entries on the domain's DNS server. For example:

	E	dit Resourc	e Record	
Create - Edit Delete			Y Search	
Name	Туре	TTL	Information	
dns.example.com.	А	86400	192.168.0.6	- 1
example.com.	NS	86400	dns.example.com.	
example.com.	TXT	86400	"ZA=j1/luvcWpstxtvl9PCuy/dE	
ldap.example.com.	А	86400	192.168.0.6	
mail.example.com.	А	86400	192.168.0.6	
mail.example.com.	MX	86400	1 192.168.0.6.	

- If the DNS record requires a Name value, enter @.
- 8. After saving the DNS entry, in Avaya Cloud Services, click Verify.

#### Next steps

• Go to Obtain the domain API Key and Key Secret on page 54.

#### **Related links**

Configuring Avaya Cloud Services support on page 51

### **Obtain the domain API Key and Key Secret**

Connections between the IP Office and Avaya Cloud Services require a domain API key and secret. You must obtain these from Avaya Cloud Services and enter them into the IP Office security settings.

#### Before you begin

• Verify the customer domain. See Verifying the company domain on page 52.

#### Procedure

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on **Manage Companies** and click on the existing company name.
- 3. Select the API tab.
  - If there is an existing key with its Role set to IPOFFICE key:
    - Click **View/Edit** and use the menu controls to either download the values as a CSV file, or to copy and paste the values to a temporary document on your PC.
  - If there is no existing key with its Role set to IPOFFICE key:
    - Click Add API key+. Set the role to IPOFFICE and click Add API key.
    - Click **View/Edit** and use the menu controls to either download the values as a CSV file, or to copy and paste the values to a temporary document on your PC.

#### **Next steps**

• Enter the Avaya Cloud Services settings on page 54.

#### **Related links**

Configuring Avaya Cloud Services support on page 51

### **Enter the Avaya Cloud Services settings**

This process sets the base settings for the IP Office servers that should connect to Avaya Cloud Services.

• If supporting multi-site network, you must do this configuration on each server configured as a SIP registrar.

• Includes the secondary server to support users registered to the primary server during resilience.

#### Before you begin

• Obtain the API key and secret (see Obtain the domain API Key and Key Secret on page 54).

#### Procedure

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select Security > Security Settings.
  - If configuring servers in a multi-site network, click on the 🖊 icon next to the required server.
- 3. Select System.
- 4. In the AVAYA SPACES KEYS section, enter the Avaya Spaces API Key and Avaya Spaces Key Secret values.
- 5. Click Update.
- 6. Select System Settings > System.
  - If configuring servers in a multi-site network, click on the icon next to the required server.
- 7. Select Avaya Cloud Services.
- 8. Enter a name for **Profile Name**.
  - If using a single IP Office server for client connections, this value is for information only.
  - If using several IP Office servers, users see this value when registering their Avaya Workplace Client and use it to select the required IP Office.
- 9. Select Enable Avaya Cloud Account.
- 10. Check the **Account URL** matches the appropriate value below:
  - IP500 V2 = accounts-ipo.avayacloud.com
  - Linux-based Server = accounts.avayacloud.com
- 11. Enter the Company Domain verified with Avaya Cloud Services.
- 12. Click Update.
- 13. Select the **Solution** tab.

#### Next steps

- Repeat the process for any other servers configured as SIP registrars in the network.
- Configure the required Avaya Cloud Services feature:
  - Configuring Avaya Cloud Services synchronization on page 57
  - Configuring SSO login support on page 64

- Enabling Apple Push Notifications on page 67
- Supporting Spaces Calling on page 76

#### **Related links**

Configuring Avaya Cloud Services support on page 51

### **Updating the Avaya Workplace clients**

Enabling Enable Avaya Cloud Account changes the contents of the auto-generated 46xxsettings.txt file provided by the IP Office system.

- To apply the new settings to existing Avaya Workplace Client applications:
  - By default, the clients regularly update using the SETTINGS\_CHECK\_INTERVAL setting. The IP Office auto-generated 46xxsettings.txt file uses the default of 1 day.
  - Otherwise, to force an update:
    - For desktop clients: Click the 🔅 icon and select Support. Then click Check for Updates.
    - For mobile clients: Click the = icon and select Exit. Then restart the application.

#### Settings file change details

Enabling Enable Avaya Cloud Account makes the following change to the auto-generated 46xxsettings.txt file:

• The SET ENABLE\_AVAYA\_CLOUD\_ACCOUNT 0 string changes to SET ENABLE AVAYA CLOUD ACCOUNT 1.

#### **Related links**

Configuring Avaya Cloud Services support on page 51

# Chapter 13: Configuring Avaya Cloud Services synchronization

The IP Office can share details of users with a **Unique Identity** (email address) with Avaya Spaces. Those users can then:

- Login to and use Avaya Spaces.
  - By default, Avaya Spaces grants each user a trial license for Avaya Spaces. You need to apply other licenses through the Avaya Spaces administration menus.
- Register their Avaya Workplace client using their Unique Identity email address.
  - Not supported with IPv6.

#### **Related links**

Avaya Cloud Services synchronization checklist on page 57 IP Office user configuration for Avaya Cloud Services on page 58 Adding the synchronization application on page 58 Enabling Avaya Spaces user synchronization on page 59 Enabling Avaya Spaces profile synchronization on page 60 Checking the Avaya Cloud Services Users on page 61 Using Spaces as the IP Office instant messaging server on page 61 Set the Avaya Spaces user policy on page 62

### **Avaya Cloud Services synchronization checklist**

#	Action Link/Notes		~
1.	Configure Avaya Cloud Services support.	See <u>Configuring Avaya Cloud Services</u> <u>support</u> on page 51.	
2.	Configure the IP Office users.	See <u>IP Office user configuration for</u> <u>Avaya Cloud Services</u> on page 58.	
3.	Add the cloud services application.	<ul> <li>See <u>Adding the synchronization</u> <u>application</u> on page 58.</li> </ul>	

Table continues...

#	Action	Action Link/Notes	
4.	Enable automatic user synchronization.	<ul> <li>See <u>Enabling Avaya Spaces user</u> <u>synchronization</u> on page 59.</li> </ul>	
5.	Enable automatic IP Office profile creation.	<ul> <li>See <u>Enabling Avaya Spaces profile</u> <u>synchronization</u> on page 60.</li> </ul>	
5.	Check the synchronization operation.	See <u>Checking the Avaya Cloud Services</u> <u>Users</u> on page 61.	

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### **IP Office user configuration for Avaya Cloud Services**

You must complete the following IP Office user configuration before enabling user synchronization.

#### Before you begin

• See Avaya Cloud Services synchronization checklist on page 57.

#### Procedure

The user configuration must include the user's **Unique Identity** email address. This is used as follows:

- Automatic synchronization includes users with a Unique Identity.
- Avaya Spaces sends the user a welcome email, providing details on how to access Avaya Spaces.
- The user can use the email address for their initial Avaya Workplace Client registration.

#### Next steps

• See Adding the synchronization application on page 58.

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### Adding the synchronization application

#### Before you begin

• See IP Office user configuration for Avaya Cloud Services on page 58.

#### Procedure

1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.

- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the **Apps** tab.
- 4. Click Configure New App+.
- 5. From the Product drop-down, select Equinox Cloud Client.
- 6. The IP Office automatically adds the JSON settings after you have completed configuration.
- 7. Click Save,

#### Next steps

• See Enabling Avaya Spaces user synchronization on page 59.

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### Enabling Avaya Spaces user synchronization

This process enables automatic synchronization of IP Office users with a **Unique Identity** with users in Avaya Cloud Services.

#### Before you begin

• See Adding the synchronization application on page 58.

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select System Settings > System.
  - If configuring servers in a multi-site network, click on the icon next to the required server.
- 3. Select Avaya Cloud Services.
- 4. To perform a manual check of the connection to Avaya Cloud Services:
  - a. Select Manual user sync.
  - b. Click Refresh.
  - c. Return to the menu. After a few minutes, the **Synchronization status** shows if the synchronization was successful.
- 5. If the synchronization was successful, select **Enable user sync** to have future synchronization performed automatically.
- 6. Click Update.

#### Next steps

• See Enabling Avaya Spaces profile synchronization on page 60.

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### **Enabling Avaya Spaces profile synchronization**

You need to configure Avaya Cloud Services with the file path to the 46xxsettings.txt of each IP Office that is acting as a SIP registrar for Avaya Workplace Client users.

- Using this process, you can configure the IP Office to automatically send it **SIP Registrar FQDN** and **Profile Name** settings to Avaya Cloud Services.
- Avaya Cloud Services use the values to write a profile for the IP Office that includes the profile name and a URL for the <code>46xxsettings.txt</code> file.

Adding that information, allows Avaya Workplace Client users to register their client using their **Unique Identity** email address.

- The user enters their email address when prompted by Avaya Workplace Client.
- Avaya Workplace Client connects to Avaya Cloud Service which matches the email address to the customer domain and to a user.
- If there are multiple IP Office profiles, the user selects from the list of available profile names.
- Avaya Cloud Services provides Avaya Workplace Client with the file path for the settings file for the matching IP Office.

#### Before you begin

• See Enabling Avaya Spaces user synchronization on page 59.

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select System Settings > System.
  - If configuring servers in a multi-site network, click on the icon next to the required server.
- 3. Select Avaya Cloud Services.
- 4. Set the **Enable Settings file URL sync** value to one of the following values. Settings file synchronization writes the IP Office profile name and SIP Registrar FQDN details into the Avaya Cloud Services app profile.
  - Enable for current IP Office node Automatically write profile details for just this IP Office system.

- Enable for all IP Office nodes Automatically write profile details for all IP Office systems in the network.
- 5. Click Update.

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### **Checking the Avaya Cloud Services Users**

#### Procedure

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select Manage Users.
- 4. The two lists show the details of synchronized IP Office users:

List	Description
Active Invites	This list shows users who have received their email invitation to use spaces and have confirmed the invitation.
Waiting Confirmation	This list shows users that Avaya Spaces has sent a welcome email, but who have not confirmed the invitation.

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### Using Spaces as the IP Office instant messaging server

The IP Officee can use either Avaya one-X Portal or Avaya Spaces as its server for instant messaging.

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select System Settings > System.
  - If configuring servers in a multi-site network, click on the icon next to the required server.
- 3. Select **System**.
- 4. Change the **Messaging server** setting to the required value.

Setting	Description					
one-X Portal	Use the system's Avaya one-X Portal server for instant messaging between IP Office clients, including Avaya Workplace Client.					
	<ul> <li>User's must register directly to the IP Office system. This method is not supported for Avaya Workplace Client users logging in using SSO or email.</li> </ul>					
Avaya Spaces	Use Avaya Spaces for instant messaging for Avaya Workplace Client users and other Avaya Spaces clients. It does not include non-Avaya Spaces users and clients.					
	This requires the IP Office to be configure to support Avaya Cloud Services.					
	• This method does not support sending push notifications for instant messages. That is, instant messages are not received by iOS clients when the client is suspended or in the background.					
	Not supported with IPv6.					

#### 5. Click Update.

#### **Related links**

Configuring Avaya Cloud Services synchronization on page 57

### Set the Avaya Spaces user policy

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the **Policies** tab.
- 4. Select Avaya Spaces Policy.

examp	ple.com	Company Profile					
Home > Ma	anage Compa	nies > Company Pro	file				
General	Domains	Manage Users	Licenses	Apps	API Key	Enterprise SSO	Policies
Your Co	mpany Pol	icies					
Login C	ptions		>	_		ces trial promotion e trial welcome	emails
Avaya S	paces Policy		>	Z Av	vaya Spaces	expires in days	
					e Allocation hable Avaya	Spaces Trial License	

- 5. Select the options which you want enabled for users.
- 6. Click Save,

#### Related links Configuring Avaya Cloud Services synchronization on page 57

# Chapter 14: Configuring SSO login support

Using Avaya Cloud Services, you can also configure the IP Office to allow users to login to Avaya Workplace Client using their Google, Office 365, or Salesforce account.

• Not supported with IPv6.

#### **Related links**

<u>SSO/Avaya Cloud authorization checklist</u> on page 64 <u>Enabling Avaya Cloud authorization</u> on page 64 <u>Sync the Avaya Cloud Authorization setting</u> on page 65 Set the Avaya Spaces user policy on page 66

### SSO/Avaya Cloud authorization checklist

#	Action	Link/Notes	~
1.	Configure Avaya Cloud Services support.	See <u>Configuring Avaya Cloud Services</u> <u>support</u> on page 51.	
2.	Enable SSO login support.	See <u>Enabling Avaya Cloud</u> <u>authorization</u> on page 64.	
3.	Synchronize the setting on all IP Office systems.	See <u>Enabling Avaya Cloud</u> <u>authorization</u> on page 64.	

#### **Related links**

Configuring SSO login support on page 64

### **Enabling Avaya Cloud authorization**

#### About this task

This process enables use of client login/registration to the IP Office through Avaya Cloud Services.

• If supporting multi-site network, you must do this configuration on each server configured as a SIP registrar.

• Includes the secondary server to support users registered to the primary server during resilience.

#### Before you begin

• See SSO/Avaya Cloud authorization checklist on page 64.

#### Procedure

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select System Settings > System.
  - If configuring servers in a multi-site network, click on the icon next to the required server.
- 3. Select Avaya Cloud Services.
- 4. Select Enable Avaya Cloud Account Authorization.
- 5. Click Update.

#### Next steps

- Repeat the process for any other servers configured as SIP registrars in the network.
- See Sync the Avaya Cloud Authorization setting on page 65.

#### **Related links**

Configuring SSO login support on page 64

### Sync the Avaya Cloud Authorization setting

#### About this task

For servers in a multi-site network (not SCN), you can use IP Office Web Manager to ensure that all servers are set to the same **Enable Avaya Cloud Account Authorization**.

#### Before you begin

• See Enabling Avaya Cloud authorization on page 64.

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select the **Solution** tab.
- 3. Select the servers in the network on which you want to replicate the primary server setting.
- 4. Click Actions > Synchronize Single Sign-On configuration.
- 5. Click **OK**.

#### **Related links**

Configuring SSO login support on page 64

### Set the Avaya Spaces user policy

If required, you can restrict the types of account that users can use for SSO. By default, Avaya Spaces allows all.

#### Procedure

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the **Policies** tab.
- 4. Select Avaya Spaces Policy.

Home > Manage Companies > Company Profile								
G	eneral	Domains	Manage Users	Licenses	Apps	API Key	Enterprise SSO	Policies
Y	our Coi	mpany Poli	icies					
	Login Options >		> A	Allowed login methods				
	Avaya Spaces Policy		>	Native login				
				Google Sir	ngle Sign C	Dn		
				Salesforce Single Sign On				
				Office365	Single Sigr	n On		
				🖉 Avaya Single Sign On				
				Enterprise	SSO			
	Allowed emails with the following domains can be added into ou				into our account.			
				Enter a valid domain to whitelist Add +				
				llowed Domair example.com	is:		۱	

- 5. Select the options which you want enabled for users.
- 6. Click Save,

#### **Related links**

Configuring SSO login support on page 64

# Chapter 15: Enabling Apple Push Notifications

The IP Office can use Apple Push Notification Service (APNS) to send push notifications to Avaya Workplace Client users on iOS devices. If iOS has suspended the client, the user can use controls in the notification to restart the client.

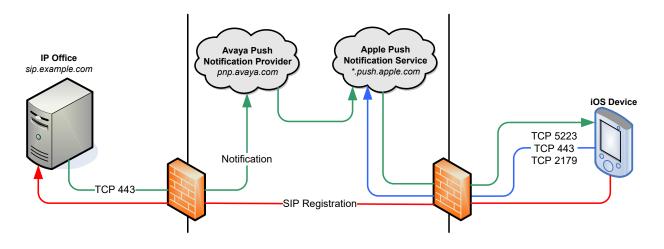
- The IP Office will send push notifications for new calls and for new voicemail messages.
- If using the Avaya one-X Portal as its messaging server, the IP Office will also send push notifications for instant messages.

#### **Related links**

Push notification routing on page 67 Push notification notes on page 69 Checklist for configuring push notification support on page 69 Checking the Avaya Cloud Services timezone on page 70 Adding the push notification application on page 71 Enabling Avaya Push Notification Services on page 71 Synchronizing the enable Apple Push Notifications setting on page 72 Synchronizing the System-ID and Avaya Spaces API settings on page 73 Altering IP Office user and group settings for APNS on page 74 Updating the Avaya Workplace clients on page 74

### **Push notification routing**

The following diagram summarizes the connections involved in Apple push notifications.



- The IP Office sends push notifications to the Avaya Push Notification Provider (PNP) at pnp.avaya.com. It does that using HTTPS and port 443. For scenarios with an ASBCE, the push notifications are not routed through the ASBCE.
- Avaya PNP forwards the push notifications to the Apple Push Notification Service (APNS) at \*.push.apple.com.
- APNS forward the push notifications to the iOS devices.
- Call details in the push notifications are encrypted end-to-end.

#### iOS device ports

To support push notifications, the iOS devices must have outgoing access to the following ports and internet addresses.

Ports	Addresses
• TCP port 5223	• URLs: *.push.apple.com
• TCP port 443	• Address range: 17.0.0.0/18.
• TCP port 2179	If you cannot enable access to the full address range, ensure the following are accessible:
	- 17.249.0.0/16
	- 17.252.0.0/16
	- 17.57.144.0/22
	- 17.188.128.0/18
	- 17.188.20.0/23

#### **Related links**

Enabling Apple Push Notifications on page 67

### Push notification notes

- IP Office R11.1 and higher supports push notifications with Avaya Workplace Client 3.06 and higher on iOS.
- iOS automatically suspends the Avaya Workplace Client after 3 minutes of inactivity. Users can manually suspend Avaya Workplace Client by putting the application into the background.
- Push notifications do not require the IP Office user to have a **Unique Identity** synchronized with Avaya Spaces.
- The IP Office sends push notification to the last iOS device register by a user.
- It can take several seconds to receive a call push notification, restart the suspended client and answer the call. Therefore, Avaya recommend the following changes to IP Office user settings:
  - Increase the user's No Answer Time to at least 20 seconds.
  - If the user is a member of any hunt group, increase the group's Group No Answer Time.
  - Ensure that the user has an alternate call coverage destination for their **No Answer Time** expiring. For example; voicemail enabled or a forward on no answer number destination.
  - If the user sets the cellular telephone number of their iOS device as their **Mobile Twinning** destination, set their **Mobile Dial Delay** (sec) to at least 10 seconds. This allows time to answer the push notification using a suspended client before the same call then alerts as a cellular call.
- China does not support the iOS CallKit API used for push notifications. In that locale, call notifications do not provide call controls. However, when clicked they will display a menu to answer or decline the call.
- The IP Office does not send push notifications for instant messages.
- The Avaya Workplace Client setting VOIPCALLINGENABLED must be set to 1 (prefer Wi-Fi) or 3 (prefer cellular). Using any other value causes incoming calls that the user cannot answer.

#### **Related links**

Enabling Apple Push Notifications on page 67

### Checklist for configuring push notification support

#	Action	Link/Notes	~
1.	Configure Avaya Cloud Services support.	See <u>Configuring Avaya Cloud Services</u> <u>support</u> on page 51.	

Table continues...

#	Action	Link/Notes
2.	Check the Avaya Cloud Services timezone.	See <u>Checking the Avaya Cloud Services</u> <u>timezone</u> on page 70.
3.	Add the APN application to Avaya Cloud Services.	See <u>Adding the push notification</u> <u>application</u> on page 71.
4.	Enable Avaya Cloud Account Authorization.	See <u>Enabling Avaya Cloud</u> <u>authorization</u> on page 64.
5.	Enable APNS on the IP Office system.	See <u>Enabling Avaya Push Notification</u> <u>Services</u> on page 71.
6.	For a multi-site network (non-SCN), synchronize the settings on the other servers.	<ul> <li>See:</li> <li>Synchronizing the enable Apple Push Notifications setting on page 72.</li> <li>Synchronizing the System-ID and Avaya Spaces API settings on page 73</li> </ul>
7.	Adjust the IP Office user and group settings.	See <u>Altering IP Office user and group</u> <u>settings for APNS</u> on page 74.
8.	Update the Avaya Workplace Client applications.	See <u>Updating the Avaya Workplace</u> <u>clients</u> on page 74.

#### **Related links**

Enabling Apple Push Notifications on page 67

### **Checking the Avaya Cloud Services timezone**

#### About this task

The time zone setting used by Avaya Cloud Services administration and the IP Office system must match.

#### Before you begin

• See Checklist for configuring push notification support on page 69.

#### Procedure

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on your name top-right and click on User Settings.
- 3. Check that the **Time Zone** matches the timezone of the primary IP Office system.
- 4. Click Save,

#### Next steps

• Add the push notification application. See <u>Adding the push notification application</u> on page 71.

#### **Related links**

Enabling Apple Push Notifications on page 67

### Adding the push notification application

#### About this task

To support push notifications, you must add the **Avaya Mobile Push Notification Service** application to the customer domain in Avaya Cloud Services.

#### Before you begin

 Check the Avaya Cloud Services administrator timezone. See <u>Checking the Avaya Cloud</u> <u>Services timezone</u> on page 70.

#### Procedure

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the **Apps** tab.
- 4. Click Configure New App+.
- 5. From the Product drop-down, select Avaya Mobile Push Notification Service.
  - The IP Office automatically adds the JSON profile settings to the application after configuration is complete.
- 6. Click Save,

#### Next steps

• Enable push notifications from the IP Office. See <u>Enabling Avaya Push Notification</u> <u>Services</u> on page 71.

#### **Related links**

Enabling Apple Push Notifications on page 67

### **Enabling Avaya Push Notification Services**

#### About this task

This process enables IP Office support for push notifications.

• The process also alters the auto-generated 46xxsettings.txt file provide to Avaya Workplace Client users. To apply the new settings to the clients, either reregister the clients or wait 24-hours.

#### Before you begin

• Add the push notification application. See <u>Adding the push notification application</u> on page 71.

#### Procedure

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select System Settings > System.
  - If configuring servers in a multi-site network, click on the icon next to the required server.
- 3. Select Avaya Push Notification Services.
- 4. Select Enable Apple Push Notification Services.
  - Enabling this setting causes the IP Office to generate a hidden System-ID value. Servers in a multi-site network (non-SCN) must all use the same System-ID value. You can ensure that using the Actions > Synchronize APNS configuration command and then the Actions > Synchronize APNP System-ID command after configuring the primary server.
- 5. The other settings are for information only. You cannot change them.
- 6. Click Update.

#### Next steps

- If configuring a multi-site network (not SCN), enable push notifications on any other IP Office servers that are acting as SIP registrars for iOS Avaya Workplace Client users. See Synchronizing the enable Apple Push Notifications setting on page 72.
- Also do the above if using a secondary server for resilience, include that server.
- Otherwise, see <u>Altering IP Office user and group settings for APNS</u> on page 74.

#### **Related links**

Enabling Apple Push Notifications on page 67

### Synchronizing the enable Apple Push Notifications setting

#### About this task

This process shares the primary IP Office server's **Enable Apple Push Notification Services** settings the selected IP Office servers.

#### Before you begin

• Add the push notification application. See <u>Adding the push notification application</u> on page 71.

#### Procedure

- 1. Login to the IP Office using IP Office Web Manager to edit the configuration settings. Using IP Office Web Manager provides access to additional controls to ease configuration.
- 2. Select the **Solution** tab.
- 3. Select the servers in the network on which you want to replicate the primary server setting.
- 4. Click Actions > Synchronize APNS configuration.
- 5. Click OK.

#### Next steps

• See Synchronizing the System-ID and Avaya Spaces API settings on page 73.

#### **Related links**

Enabling Apple Push Notifications on page 67

## Synchronizing the System-ID and Avaya Spaces API settings

This process shares the primary IP Office server's **System-ID**, **Avaya Spaces API Key** and **Avaya Spaces Key Secret** values with the selected IP Office servers.

• The **System-ID** is a hidden value generated by an IP Office when the **Enable Apple Push Notification** setting is enabled.

#### Before you begin

• Ensure that **Enable Apple Push Notification Services** has been enabled on each server. See <u>Synchronizing the enable Apple Push Notifications setting</u> on page 72.

#### Procedure

- 1. Access the configuration of the IP Office system that will be performing the user sync.
- 2. Select the **Solution** tab.
- 3. Select the servers in the network on which you want to replicate the primary server setting.
- 4. Click Actions > Synchronize APNP System-ID.
- 5. Click **OK**.

#### Next steps

• See <u>Altering IP Office user and group settings for APNS</u> on page 74.

#### **Related links**

Enabling Apple Push Notifications on page 67

## Altering IP Office user and group settings for APNS

#### About this task

It can take several seconds to receive a call push notification, restart the suspended client and answer the call. Therefore, Avaya recommend the following changes to IP Office user settings:

#### Before you begin

• See <u>Synchronizing the System-ID and Avaya Spaces API settings</u> on page 73.

#### Procedure

- 1. Login to the IP Office to edit the configuration settings.
- 2. Make the following configuration changes:
  - Increase the user's No Answer Time to at least 20 seconds.
  - If the user is a member of any hunt group, increase the group's **Group No Answer Time**.
  - Ensure that the user has an alternate call coverage destination for their **No Answer Time** expiring. For example; voicemail enabled or a forward on no answer number destination.
  - If the user sets the cellular telephone number of their iOS device as their **Mobile Twinning** destination, set their **Mobile Dial Delay** (sec) to at least 10 seconds. This allows time to answer the push notification using a suspended client before the same call then alerts as a cellular call.

#### **Next steps**

• See Updating the Avaya Workplace clients on page 74.

#### **Related links**

Enabling Apple Push Notifications on page 67

## **Updating the Avaya Workplace clients**

Enabling Enable Apple Push Notification Services changes the contents of the auto-generated 46xxsettings.txt file provided by the IP Office system.

- To apply the new settings to existing Avaya Workplace Client applications:
  - By default, the clients regularly update using the SETTINGS\_CHECK\_INTERVAL setting. The IP Office auto-generated 46xxsettings.txt file uses the default of 1 day.
  - Otherwise, to force an update:
    - For desktop clients: Click the 🔅 icon and select Support. Then click Check for Updates.
    - For mobile clients: Click the icon and select **Exit**. Then restart the application.

#### Settings file change details

Enabling **Enable Apple Push Notification Services** makes the following changes to the autogenerated 46xxsettings.txt file:

- The SET PUSH\_NOTIFICATION\_ENABLED 0 string changes to SET PUSH NOTIFICATION ENABLED 1.
- The IP Office adds a SET TELEPHONY\_PUSH\_NOTIFICATION\_SERVICE\_URL string using the IP Office system's SIP Registrar FQDN value. For example:
  - SET TELEPHONY\_PUSH\_NOTIFICATION\_SERVICE\_URL "https://sip.example.com:443/PushNotification
  - The port used changes to 411 if **Use Preferred Phone Ports** is enabled.

#### **Related links**

Enabling Apple Push Notifications on page 67

## **Chapter 16: Supporting Spaces Calling**

Spaces calling lets users make and receive IP Office calls through Avaya Spaces.

IP Office Support	IP Office R11.1 FP1 SP1 and higher.	
User Clients	Users can make and answer calls from Avaya Spaces using the following clients. The client supported is configurable for the customer installation.	
	• Spaces Calling Extension - This is a Google Chrome extension which uses WebRTC.	
	• Avaya Workplace - Version 3.16 and higher. This client uses SIP for calls.	
one-X Portal	The following features require the IP Office system to include a one-X Portal server:	
	• <b>Chrome Extension</b> - WebRTC for calls using the Chrome extension requires the Avaya one-X Portal. It also requires the WebRTC Gateway service on the same server.	
	- The IP Office supports resilience on networks with a secondary Avaya one-X Portal.	
	<ul> <li>IP500 V2 systems must use an IP Office Application Server for Avaya one-X Portal and WebRTC.</li> </ul>	
	SSO - Single sign-on support through either of the clients.	
Remote Clients	For user connections from remote clients:	
	• You must route all connections through the customer firewall or an ASBCE.	
	DNS must resolve all external and internal addresses as required.	

#### **Related links**

IP Office Components for Spaces Calling on page 77

Spaces Calling Limitations on page 77

Spaces Calling Chrome Extension Schematic on page 77

Spaces Calling Workplace Client Schematic on page 78

Spaces Calling Native Remote Worker on page 79

Spaces Calling Remote Worker Using an ASBCE on page 80

Spaces Calling Licensing on page 81

Checklist for configuring Spaces Calling with IP Office on page 81

Enabling Spaces Calling Support for the Customer Domain on page 82

Setting the Preferred Spaces Calling Clients on page 85

Installing the Spaces Calling Extension on page 86

Blank Calling Extension/Enabling Third-Party Cookies on page 87

Change the Spaces Calling Client on page 87

Getting the Chrome Extension Logs on page 88

Manually Adding a User Phone Number on page 89

## **IP Office Components for Spaces Calling**

Support for Space Calling requires the following IP Office components:

Feature	Component
Spaces Calling	IP Office R11.1 FP1 SP1 or higher.
with Workplace client	Avaya Workplace Client R3.16 and higher.
with SSO login	Avaya one-X Portal
with Chrome extension	Avaya one-X Portal and WebRTC Gateway

#### **Related links**

Supporting Spaces Calling on page 76

## **Spaces Calling Limitations**

The following known limitations apply for Spaces Calling operation in conjunction with IP Office:

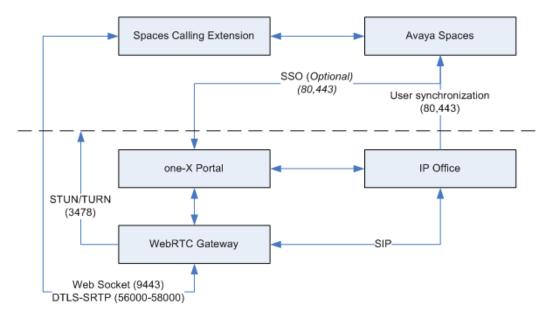
- The directory shown for the Chrome extension is local to the Chrome extension. It does not include the IP Office user and system directory entries.
- The call log shown for the Chrome extension is local to the Chrome extension. It does not include the user's calls made with other IP Office devices.
- The Chrome extension directory only shows and allows calls to IP Office users with a **Unique Identity**. Therefore, Avaya recommended you configure a **Unique Identity** for all IP Office users. That gives all users a free basic account unless specifically licensed for other features.
- The Avaya Workplace Client and Avaya Spaces user presence values do not match.

#### **Related links**

Supporting Spaces Calling on page 76

## **Spaces Calling Chrome Extension Schematic**

The following is a simple schematic of the connections when using the Chrome extension for calls.



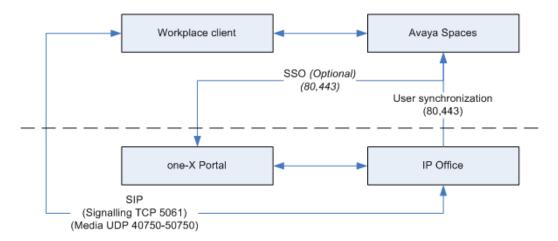
Port	Destination/Description	
80, 443	User synchronization operation. SSO operation if enabled.	
3478	STUN/TURN connection from WebRTC Gateway service to STUN/TURN server. This can be the STUN service on ASBCE.	
9443	Websocket connection to the IP Office WebRTC Gateway service running on the same server as the one-X Portal service.	
56000 to 58000	WebRTC call media from the Chrome extension to the IP Office WebRTC Gateway service.	

#### **Related links**

Supporting Spaces Calling on page 76

## **Spaces Calling Workplace Client Schematic**

The following is a simple schematic of the connections when using a Workplace client for calls.



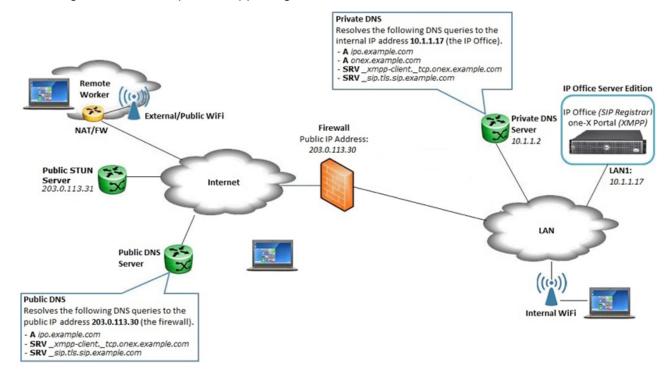
For details of the ports used by the Workplace client, see Workplace Ports on page 15.

#### **Related links**

Supporting Spaces Calling on page 76

## **Spaces Calling Native Remote Worker**

This diagram is an example for supporting native remote workers.



You must configure the enterprise firewall to:

• Allow Layer 3 NAT only.

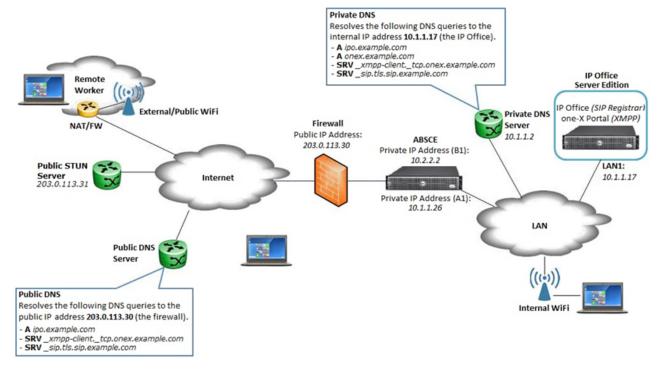
- Disable all SIP aware functionality such as ALG.
- Forward the TCP signaling ports (by default 9443) to IP Office Server Edition system.
- Forward the RTP ports (by default 56000 to 58000) to IP Office Server Edition system.

#### **Related links**

Supporting Spaces Calling on page 76

## **Spaces Calling Remote Worker Using an ASBCE**

The diagram below is an example for supporting remote workers with an ASBCE.



You must configure the enterprise firewall to:

- Allow Layer 3 NAT only.
- Disable all SIP aware functionality such as ALG.
- Forward the TCP signaling ports (by default 9443) to IP Office Server Edition.
- Forward the RTP ports (by default 56000 to 58000 to IP Office Server Edition.

You must configure the ASBCE with:

- An application relay for connections to port 9443 on the portal server.
- STUN and TURN for media relay and NAT resolution to the WebRTC Gateway service

You must configure the WebRTC Gateway with:

- TURN support using the ASBCE for Media Relay.
- Public FQDN/IP Address of the firewall address as **STUNHost**. WebRTC Clients without **STUNHost** configuration initialize using this address.

Configure split DNS entries for the ASBCE FQDN. For the **STUNHost**, the address must resolve to:

- **Public DNS:** The public FQDN/IP address of the enterprise firewall which routes to the external interface of the ASBCE.
- Private DNS: The internal interface of the ASBCE.

#### **Related links**

Supporting Spaces Calling on page 76

## **Spaces Calling Licensing**

Support for Spaces Calling requires a combination of Avaya Spaces and IP Office licenses.

#### **Avaya Spaces Licenses**

To use Spaces calling features, the user must have an Avaya Spaces business or power license.

#### **IP Office Licenses**

The IP Office supports Spaces Calling for users with the following IP Office user licenses:

System		System License	User License
Subscription Syste	m	-	Unified Communications User
Non-Subscription	Server Edition	-	Power User or Office Worker
	IP500 V2	Preferred Edition	Power User, Office Worker or Teleworker

#### **Related links**

Supporting Spaces Calling on page 76

## **Checklist for configuring Spaces Calling with IP Office**

#	Action	Link/Notes	~
1.	Configure Avaya Cloud Services support.	See <u>Configuring Avaya Cloud Services</u> <u>support</u> on page 51.	

Table continues...

#	Action	Link/Notes	
2.	Configure IP Office user synchronization.	See <u>Configuring Avaya Cloud Services</u> <u>synchronization</u> on page 57.	
3.	Enable Spaces Calling support for the customer domain.	Enabling Spaces Calling Support for the Customer Domain on page 82	
4.	Set the preferred Spaces Calling clients.	<u>Setting the Preferred Spaces Calling</u> <u>Clients</u> on page 85	
5.	Install the Spaces Calling extension.	Installing the Spaces Calling <u>Extension</u> on page 86	

#### **Related links**

Supporting Spaces Calling on page 76

## **Enabling Spaces Calling Support for the Customer Domain**

This process adds details of the IP Office system address for Spaces Calling plus additional settings for how Spaces Calling should operate.

#### Before you begin

• See Checklist for configuring Spaces Calling with IP Office on page 81.

- 1. Login to Avaya Cloud Services at <a href="https://accounts.avayacloud.com">https://accounts.avayacloud.com</a>.
- 2. Click on **Manage Companies** and click on the existing company name.
- 3. Select the Apps tab.
- 4. Click Configure New App+.
- 5. From the Product drop-down, select Avaya Spaces Calling Extension.
- 6. Select JSON.
- 7. In the text box, enter the details for the IP Office system. For details of the options, see <u>Spaces Calling Profile Settings</u> on page 83.
  - You must enclose setting names and values in " " quote marks and separated by : colon. For example: "Name": "server.example.com".
  - The exception to the above are the true and false values. Do not enclose those values in " " quote marks.
  - You must follow each setting and value pair with a comma, except for the last pair.

For example:

Single Login System:

```
{
  "IP_Office_Server_Profile":
  [{
    "Name": "Head Office",
    "Address": "primary.example.com",
    "AccountsToken": true
  }]
}
```

#### Multiple Login Systems:

If required, you can list multiple systems in the network. In that case, when logging in, the client prompts the user to select the required system.

```
"IP_Office_Server_Profile":
[{
    "Name": "West",
    "Address": "west.example.com",
    "AccountsToken": true
},
{
    "Name": "East",
    "Address": "east.example.com",
    "AccountsToken": true
}]
```

#### 8. Click Save,

#### Next steps

• Having configured the profile settings, enable Spaces Calling. See <u>Setting the Preferred</u> <u>Spaces Calling Clients</u> on page 85.

#### **Related links**

<u>Supporting Spaces Calling</u> on page 76 <u>Spaces Calling Profile Settings</u> on page 83

## **Spaces Calling Profile Settings**

You can use the following settings in the profiles you create for Spaces Calling. See <u>Enabling</u> <u>Spaces Calling Support for the Customer Domain</u> on page 82.

#### **Connection Settings**

Each profile must include values for the following settings:

Setting	Description
Name	This is the name of the profile. If you add multiple profiles, users will see and select the name during login. Maximum 14 characters. For example: "Name": "Office"

Table continues...

Setting	Description
Address	Set to match to the address of the IP Office server. For example: "Address": "ipoffice.example.com"
	• For access from both internal and public networks, this FQDN should resolve to the ASBC public address (B1) on public DNS, and ASBC internal address (A1) on internal DNS.
AccountsToken	This setting controls whether the Chrome extension can use SSO login features:
	• "AccountsToken": true enables SSO login.
	• "AccountsToken": false disables SSO login.
LogDownload	This setting controls whether users can download extension logs from their Chrome extension. See <u>Getting the Chrome Extension Logs</u> on page 88.
	• "LogDownload": true enables log downloads.
	• "LogDownload": false disables log downloads.
STUNHost	The address of the STUN host used for WebRTC. For example, "STUNHost": "absce.example.com"
	<ul> <li>For access from both internal and public networks, the FQDN must resolve to the ASBCE public address on public DNS, and ASBCE internal address on internal DNS.</li> </ul>
STUNPort	The standard STUN port is 3478. For example: "STUNPort": "3478"
AutoFailover	This setting controls whether the client should use the IP Office resiliency features:
	• If set to "AutoFailover": true, the client will login to the secondary one-X Portal server when the primary one-X Portal is not available.
	• If set to "AutoFailover": false or not set, the client will not use resiliency.
DialRule	This settings controls how the dialing rules used by the Chrome extension are determined:
	• "DialRule": false enables users to configure their dialing rules in the Spaces Calling extension settings.
	• "DialRule": true uses the dialing rules defined by the settings in the table below.
	• Not including DialRule setting disabled dial rules.

#### **Dialing Settings**

If you include "DialRule": true in a profile, you can also use the following additional settings.

Setting	Description
OutsidePrefix	Set to match the prefix used on the telephone system for outgoing external calls. For example: "OutsidePrefix": "9"

Table continues...

Setting	Description	
CountryCode	Set to match the country code for call. For example: "CountryCode": "1" or "CountryCode": "44"	
CityCode	Set to the match the area code for the profile users. If the profile covers multiple areas, you can use a common separated list of codes. For example: "CityCode": "555" or "CityCode": "555,777"	
PbxPrefix	If the telephone system has its own prefix within a network, specify the prefix.	
LongDistancePrefix	Specify the prefix added to external calls to indicate national (non-local) numbers. In North America this is usually 1. For example: "LongDistancePrefix": "1"	
InternationalPrefix	Specify the prefixed added to eternal calls to indicate international numbers. In North America this is usually 011. For example: "InternationalPrefix": "011"	
ExtensionLength	Specify the length of internal extension numbers. If necessary, you can use a comma separated list. For example: "ExtensionLength": "3,4"	
NationalLength	Specify the length on national numbers, including the area code. If necessary, you can use a comma-separated list of lengths. For example: "NationalLength": "10,11"	
RemoveAreaCode	In areas that allow local calls without the area code, set this value to true. For example: "RemoveAreaCode": true	
ApplyToPlusNumber	Specifies whether the dialing rules apply to + format numbers. For example: "ApplyToPlusNumber": false	

#### **Related links**

Enabling Spaces Calling Support for the Customer Domain on page 82

## **Setting the Preferred Spaces Calling Clients**

After you have added profiles for Spaces Calling within the customer domain, you can configure the supported clients.

• If you enable multiple clients, Avaya Spaces prompts the user to select which client they prefer when they first access Spaces Calling. They can change their choice if required. See <u>Change the Spaces Calling Client</u> on page 87.

#### Before you begin

• See Enabling Spaces Calling Support for the Customer Domain on page 82.

- 1. Login to https://spaces.avayacloud.com/admin/companies.
- 2. Select the customer's company.
- 3. Select Settings.

- 4. Scroll down to the AVAYA SPACES CALLING section.
- 5. Select Enable Avaya Spaces Calling.
- 6. Select which methods you want to allow users to use to make Spaces calls:

Setting	Description
Avaya Spaces Calling Chrome Extension	Use the Chrome extension for Spaces Calling to make and answer calls. This option users WebRTC via the IP Office's WebRTC Gateway and one-X Portal services.
Avaya Workplace Client	User Avaya Workplace Client to make and answer calls. This option uses SIP via the IP Office service.

7. Click Save.

#### **Related links**

Supporting Spaces Calling on page 76

## Installing the Spaces Calling Extension

Avaya Spaces prompts the user to select the client they want to use when they first click the & icon. Selecting Spaces Calling Extension triggers this process if the user has not already installed the client.

You can also use this process to pre-install the extension.

#### Before you begin

• You must have configured the extension as a supported client. See <u>Setting the Preferred</u> <u>Spaces Calling Clients</u> on page 85.

#### About this task

The process below installs the Spaces Calling Extension into Google Chrome.

- 1. Login into https://spaces.avayacloud.com/spaces/dashboard.
- 2. Click on J Downloads.
- 3. Click on **Avaya Spaces Calling Chrome Extension**. This opens the extensions page in the Chrome web store.
- 4. Click Add to Chrome.
- 5. Click Add extension.
- 6. When prompted to allow the extension to view your user settings, click Accept.
- 7. When prompted to allow spaces to use your microphone, click **Allow**.
- 8. If necessary, open https://spaces.avayacloud.com/spaces/dashboard again.

- 9. Click on the & bottom-right and login using your username and password.
  - If single sign-on has been enabled, you can also login using your details for one of the authenticated single sign-on accounts.
  - If the pop-up window that appears is blank or contains an error message, allow the extension to store cookies. See <u>Blank Calling Extension/Enabling Third-Party</u> <u>Cookies</u> on page 87.

#### **Related links**

Supporting Spaces Calling on page 76

## Blank Calling Extension/Enabling Third-Party Cookies

The Spaces Calling extension needs to store data using cookies. If the user's browser does not allow this, the Spaces Calling login screen will appear either blank or with an error message. If this happens, you can use the following process to enable the extension.

#### Procedure

- 1. Open a new tab in Chrome.
- 2. Enter chrome://settings/cookies
- 3. If **Block third-party cookies** is enabled, scroll down to the list of **Sites that can always use cookies** section:
- 4. Add the following string:
  - chrome-extension://mjpbjjjcphpikgemoglgnmfojppgaklg

#### **Related links**

Supporting Spaces Calling on page 76

## **Change the Spaces Calling Client**

If you have enabled support for both the Chrome extension and Avaya Workplace Client (see <u>Setting the Preferred Spaces Calling Clients</u> on page 85), Avaya Spaces prompts the user to select their preferred client when they first click the & icon. Using this process, a user can change their selection.

- 1. Login into https://spaces.avayacloud.com/spaces/dashboard.
- 2. Click on your name and avatar shown top-right.
- 3. Click Preferences.

- 4. Scroll down to the AVAYA SPACES CALLING settings.
- 5. Select your preferred client:

Setting	Description
Avaya Spaces Calling Chrome Extension	Use the Spaces Calling Extension in Google Chrome to make and answer Spaces Calling calls.
Avaya Workplace Client	User Avaya Workplace Client to make and answer Spaces Calling calls.

6. Close the **Preferences** settings.

#### Next steps Related links

Supporting Spaces Calling on page 76

## **Getting the Chrome Extension Logs**

Chrome can provide logs for the Avaya Spaces Calling extension. You can use these to help resolve user issues.

• Setting the LogDownload option to false in the profile disables the downloading of logs. By default, the extension allows log downloads.

#### Before you begin

• Log the user out of the Avaya Spaces Calling extension.

#### Procedure

- 1. Within Chrome, select > More Tools > Extensions.
- 2. Select Developer mode.
- 3. Locate the Avaya Spaces Calling extension and click on the background.html link shown next to Inspect views. The link opens in a separate DevTools window, showing the Console tab.
- 4. Log the user back into Avaya Spaces Calling and perform any required test actions.
- 5. When completed, in the **DevTools** window, right-click log messages and select **Save as**.
- 6. Save the log messages to a file.

#### **Related links**

Supporting Spaces Calling on page 76

## Manually Adding a User Phone Number

If you have configured automatic integration for the IP Office systems, that automatically transfers IP Office user details and extension numbers.

However, if you are using manual integration, in addition to manually adding users manually you must add the user extension numbers using the process below. You can also use this process to add additional numbers for calls to the user.

• You cannot mix the two modes. If using automatic synchronization, to support the routing calls to numbers other than the user extension numbers, use IP Office features such as mobile twinning, forwarding controls, and so on.

#### Before you begin

• Add the user details to Avaya Spaces. See Manually Adding Individual Users on page 92.

#### Procedure

- 1. Login into https://spaces.avayacloud.com/spaces/dashboard.
- 2. Click on your name and avatar shown top-right.
- 3. Select Profile & Account.
- 4. Select User Settings.
- 5. Select the **Phones** tab.
- 6. Select Add a phone number and enter the details for the number.
- 7. In the list of phone numbers, click Verify Now.
- 8. Select the method by which you want to receive the verification code (a voice call or a text message).
- 9. Enter the verification code and click Verify.

#### **Related links**

Supporting Spaces Calling on page 76

## Chapter 17: Manually configuring IP Office/ Avaya Cloud Services details

Automatic synchronization is the recommended method for linking IP Office systems to Avaya Cloud Services (see <u>Configuring Avaya Cloud Services synchronization</u> on page 57). However, if automatic synchronization is not enabled, you must manually configure Avaya Cloud Services with details of the IP Office systems to which users connect.

• The profile for each IP Office system uses its Profile Name and SIP Registrar FQDN settings.

#### **Related links**

Adding the IP Office system details on page 90 <u>Manually Adding Individual Users</u> on page 92 <u>Manually Importing Multiple Users to Avaya Cloud Services on page 92</u>

## Adding the IP Office system details Procedure

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the Apps tab.
- 4. Click on Configure New App+.
- 5. For the Product field select Equinox Cloud Client.

6. In the **Public Settings** field, enter the following settings, altered to match the address of the customer's system.

AVAYA		
🖀 Home	example.com Company Profile	
🛔 User Settings	Manage Companies > Company Profile	0
Manage Companies	General Domains Manage Users Licenses Apps API Ke	y Enterprise SSO Policies
	« Back to manage apps Equinox Cloud Client Application Settings	
	General	
	Product	Equinox Cloud Client
	Data Configuration	● JSON ○ Plain Text
	Settings This is an optional JSON setting object accessible only to authenticated users of this company. example: { "theme-style": "light", "example": "example value" }	2
	Public Settings This is an optional JSON setting object accessible only to authenticated users of this company. example: { "theme-style": "dark", "example": "example value" }	<pre>Ltri Coci</pre>

Single Login System:

```
{
"Client_Settings_File_Address": [
{
"Profile_Name":"Head Office",
"Client_Settings_File_Url": "http://ipoffice.example.com/46xxsettings.txt"
}
]
```

• **Multiple Login Systems:** If you specify multiple servers, the client prompts users to select a profile from a drop-down when they login.

```
{
  "Client_Settings_File_Address": [
  {
    "Profile_Name": "East",
    "Client_Settings_File_Url": "http://ipoeast.example.com/46xxsettings.txt"
    },
    {
    "Profile_Name": "West",
    "Client_Settings_File_Url": "http://ipowest.example.com/46xxsettings.txt"
    }
]
```

7. Click Save.

#### **Related links**

Manually configuring IP Office/Avaya Cloud Services details on page 90

## Manually Adding Individual Users

If not using automatic synchronization, you can manually add individual users.

#### Before you begin

• You can only use this process after verifying the customer domain (see <u>Verifying the</u> <u>company domain</u> on page 52) and adding the IP Office details (see <u>Manually configuring</u> <u>IP Office/Avaya Cloud Services details</u> on page 90).

#### Procedure

- 1. Login to Avaya Cloud Services at <a href="https://accounts.avayacloud.com">https://accounts.avayacloud.com</a>.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the Manage Users tab.
- 4. Create an entry for each IP Office user that you want included:
  - Each entry must use an email address which matches the user's **Unique Identity** in the IP Office configuration.

#### Result

• Avaya Spaces sends each user an email inviting them to register with Avaya Spaces.

#### Next steps

• For Avaya Spaces users, add the user's extension number. See <u>Manually Adding a User</u> <u>Phone Number</u> on page 89.

#### **Related links**

Manually configuring IP Office/Avaya Cloud Services details on page 90

## Manually Importing Multiple Users to Avaya Cloud Services

If not using automatic synchronization, you can add multiple users by uploading their details as a CSV format text file. After importing the file, Avaya Spaces sends each user an email inviting them to register.

- Using the import tools, you can specify which characters you used as a value separator and which characters you used to surround quoted values. In addition, you can use CSV files with different levels of content.
- The minimum content is a list of user email addresses within the verified domain. However, you can include additional data which Avaya Spaces will use to pre-populate the user information. The following are example header rows:

Simple CSV Example	email userl@example.com user2@example.com
Complex CSV Example:	<pre>email, firstname, lastname, workphone user1@example.com, teressa, green, 123456 user2@example.com, bob, white, 654321</pre>

The following fields can appear in the header row, with matching data for each user in the following rows. The only required header field is email:

- email The user's email address (unique identity).
- firstname
- lastname
- middlename
- workphone
- homephone
- cellphone
- language The user's preferred language using the two-character language and country pairing. For example: en-UK or en-US.
- address
- city
- region
- postal
- country

#### Before you begin

This process can only be performed once the domain has been verified (see <u>Verifying the</u> <u>company domain</u> on page 52) and IP Office details added (see <u>Adding the IP Office system</u> <u>details</u> on page 90).

- 1. Login to Avaya Cloud Services at https://accounts.avayacloud.com.
- 2. Click on Manage Companies and click on the existing company name.
- 3. Select the Manage Users tab.
- 4. Click Tools and select Import From CSV.
- 5. Click Import From CSV.
- 6. Select the settings for separator and quoted value characters that match your CSV file format.
- 7. Click on Choose file and select your CSV file.

Manually configuring IP Office/Avaya Cloud Services details

#### 8. Click Import.

#### **Related links**

Manually configuring IP Office/Avaya Cloud Services details on page 90

## Part 3: Further Help

## **Chapter 18: The IP Office Settings Files**

The following pages show examples of the IP Office auto-generated files used for SIP extensions, including Avaya Workplace Client.

- You can view an IP Office system's files by entering https:// followed by the system address, then /, and then the file name. For example: https:// 192.168.0.42/46xsettings.txt
  - Note: Viewing the files in a browser is not supported if the IP Office system has System > System > Avaya HTTP Clients Only enabled.
- You can view both auto-generated and static files using the method above.
- Auto-generated files are ephemeral. The IP Office creates the file when requested and deletes it after delivery.
- The existence of a static file overrides creating of an auto-generated file of the same name.
  - For the 46xxsettings.txt file, Avaya strongly recommend that you let the IP Office auto-generate the file. Avaya recommend that you put any custom settings in a 46xxspecials.txt file.
- For IP Office operation, Avaya only supports settings listed as supported by IP Office <u>and</u> by the phone/client with which you are using the setting.

#### How the phones/clients use the settings:

- If a setting is not included in the settings files, the phones or clients assumes the default value.
- If a setting is included in the settings files, the IP phone/client applies the setting if supported.
- If a previously sent setting is removed from subsequent settings files:
  - Phones return to assuming the setting's default value.
  - Clients continue using the previously received setting value. To default settings values used by clients, you must send a settings file containing either the specific default value or " " as an empty value.

#### **Related links**

<u>Workplace 46xxsettings.txt file settings</u> on page 97 <u>Sample 46xxspecials.txt file</u> on page 99 <u>User Agent spoofing</u> on page 101

## Workplace 46xxsettings.txt file settings

Below is an <u>example</u> auto-generated 46xxsettings.txt file from a IP Office R11.1.3 system. The sections not relevant to Avaya Workplace Client have been removed.

- The sections labeled AUTOGENERATEDSETTINGS contain settings that have values that have been automatically adjusted to match the IP Office system's configuration settings. For example:
  - Addresses with ports 80 and 443, are changed to ports 8411 and 411 respectively when the IP Office **User Preferred Phone Ports** setting is enabled.
- The sections after the NONAUTOGENERATEDSETTINGS label contain settings which for IP Office operation have set values.
- The \$MODEL4 model values relate to the different versions of Avaya Workplace Client:
  - aca = Android mobile client.
  - aci = iOS mobile client.
  - acm = macOS desktop client.
  - acw = Windows desktop client.

```
## IPOFFICE/11.1.3.1.0 build 28 192.168.0.76 AUTOGENERATED
IF $MODEL4 SEQ aca GOTO SIPXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ aci GOTO SIPXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ acm GOTO SIPXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ acw GOTO SIPXAUTOGENERATEDSETTINGS
GOTO NONAUTOGENERATEDSETTINGS
# SIPXAUTOGENERATEDSETTINGS
IF $SIG IN USE SEQ H323 GOTO 96X1AUTOGENERATEDSETTINGS
SET RTP PORT LOW 46750
SET RTP PORT RANGE 4002
SET TLSSRVRID 0
SET ENABLE OPUS 1
SET ENABLE_G722 1
SET ENABLE_G711A 1
SET ENABLE G711U 1
SET ENABLE G729 1
SET ENABLE G726 0
SET DTMF PAYLOAD TYPE 101
SET SIPDOMAIN example.com
SET ENFORCE SIPS URI 0
SET DSCPAUD 46
SET DSCPSIG 34
SET HTTPPORT 80
SET TRUSTCERTS WebRootCA.pem
SET COUNTRY UK
SET ISO SYSTEM LANGUAGE en GB
IF $MODEL4 SEQ aca GOTO K1EXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ aci GOTO K1EXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ acm GOTO K1EXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ acw GOTO K1EXAUTOGENERATEDSETTINGS
# K1EXAUTOGENERATEDSETTINGS
SET ENABLE AVAYA CLOUD ACCOUNTS 1
SET ENABLE IPO PORTAL MESSAGING SET ENABLE IM 1
                                  1
SET SIP CONTROLLER LIST sip.example.com:5060;transport=tcp
```

```
SET CONFERENCE FACTORY URI "ConfServer@example.com"
SET PSTN VM NUM "VM.user@example.com"
SET SETTINGS FILE URL "http://sip.example.com:80/46xxsettings.txt"
SET FQDN IP MAP "sip.example.com=192.168.0.76"
SET MEDIAENCRYPTION 9
SET ENCRYPT SRTCP 0
SET DSCPVID 46
SET TLS VERSION 1
IF $MODEL4 SEQ acm GOTO EQNXCOMMONAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ acw GOTO EQNXCOMMONAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ aci GOTO EQNXCOMMONAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ aca GOTO EQNXCOMMONAUTOGENERATEDSETTINGS
# EQNXCOMMONAUTOGENERATEDSETTINGS
SET SIPSSO 2
SET MTCTISSO 2
SET AVAYA CLOUD ACCOUNTS URI accounts-ipo.avayacloud.com
IF $MODEL4 SEQ acm GOTO EQNXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ acw GOTO EQNXAUTOGENERATEDSETTINGS
IF $MODEL4 SEQ aci GOTO EQNXIOSSPECIFICSETTINGS
GOTO NONAUTOGENERATEDSETTINGS
# EONXAUTOGENERATEDSETTINGS
SET APPCAST ENABLED 1
SET APPCAST_URL "https://storage.googleapis.com/avaya-subscription-eap-update/Vantage/
appcast.xml"
SET APPCAST_CHECK_INTERVAL 1
SET AUDIO DEVICE_CALL_CONTROL_ENABLED 1
GOTO NONAUTOGENERATEDSETTINGS
# EQNXIOSSPECIFICSETTINGS
SET PUSH NOTIFICATION ENABLED 1
SET TELEPHONY PUSH NOTIFICATION SERVICE URL "https://sip.example.com:443/
PushNotification"
SET ENABLE IPO PORTAL MESSAGING PUSH 1
GOTO NONAUTOGENERATEDSETTINGS
. . .
# NONAUTOGENERATEDSETTINGS
SET USBLOGINSTAT 0
SET ENHDIALSTAT 0
# PRODUCT LINE SETTINGS
IF $MODEL4 SEQ aca GOTO SETTINGSK1EX
IF $MODEL4 SEQ aci GOTO SETTINGSK1EX
IF $MODEL4 SEQ acm GOTO SETTINGSK1EX
IF $MODEL4 SEQ acw GOTO SETTINGSK1EX
# SETTINGSK1EX
SET SSOENABLED 0
SET EWSSSO 0
SET SIPREGPROXYPOLICY "alternate"
SET IPO PRESENCE ENABLED 1
SET IPO CONTACTS ENABLED 1
SET DND SAC LINK 1
SET POUND_KEY_AS_CALL_TRIGGER 0
SET OBSCURE PREFERENCES
"ESMENABLED, ESMSRVR, ESMPORT, ESMREFRESH, ESMUSERNAME, ESMPASSWORD, ACSENABLED, ACSSRVR, ACSPOR
T, ACSUSERNAME, ACSPASSWORD, DIRENABLED, DIRSRVR, DIRSRVRPRT, DIRTOPDN, DIRSECURE, DIRUSERNAME, D
IRPASSWORD, SSOENABLED, WINDOWS IMPROVIDER, AUTO AWAY TIME, PSTN VM NUM"
SET ENABLE PPM 0
SET ENABLE OPUS 1
SET SIMULTANEOUS REGISTRATIONS 1
SET ENABLE AVAYA ENVIRONMENT 0
SET DISCOVER AVAYA ENVIRONMENT 0
SET ENABLE_IPOFFICE 1
SET ENABLE IPO CALL LOG 1
```

```
SET SUBSCRIBE LIST NON AVAYA "reg, message-summary, avaya-ccs-profile"
SET SDPCAPNEG 1
SET SIPENABLED 1
IF $MODEL4 SEQ aca GOTO SETTINGSEQNX
IF $MODEL4 SEQ aci GOTO SETTINGSEQNX
IF $MODEL4 SEQ acm GOTO SETTINGSEQNX
IF $MODEL4 SEQ acw GOTO SETTINGSEQNX
# SETTINGSEONX
SET SETTINGS CHECK INTERVAL 1
SET ENABLE_BROWSER EXTENSION 0
SET WINDOWS IMPROVIDER 0
SET ENABLE OUTLOOK ADDON 1
SET OUTLOOK CALL CONTACT 1
SET IPO CONFERENCE CONTROLS ENABLED 1
SET CALL DECLINE POLICY 2
SET IPO_ADHOC_CONFERENCE_NAME "Conf fa"
SET IPO OTHER PHONE MODE ENABLED 1
SET IPO CALL RECORDING ENABLED 1
SET IPO SHARE CONTROLLED SOFTPHONE ENABLED 1
SET AUTO ANSWER 1
SET IPO CALL HANDOVER ENABLED 1
GOTO END
# END
GET 46xxspecials.txt
```

#### **Related links**

The IP Office Settings Files on page 96

## Sample 46xxspecials.txt file

You can browse to https://<IPOffice>/46xxspecials.txt to obtain the 46xxspecials.txt file from an IP Office system.

- Browsing the 46xxspecials.txt file on an IP Office system that does not a file, displays an auto-generated 46xxspecials.txt file, see below. You can use the structure of the auto-generated file to apply settings to specific phones and clients. Save and edit that file before uploading it back to the system.
- The 46xxspecials.txt file is supported for the Avaya Workplace Client for IP Office R11.1.2.4 and higher.
- Do not add Avaya Workplace Client IPv6 settings to the 46xxspecials.txt file, for example *SIGNALING\_ADDR\_MODE* and *MEDIA\_ADDR\_MODE*. Doing so will cause local Avaya Workplace Client extensions to attempt to use those settings.

#### Sample auto-generated 46xxspecials.txt file

## IPOFFICE/11.1.2.4.0 build 3 192.168.0.76 AUTOGENERATED IF \$MODEL4 SEQ 1603 GOTO 16XXSPECIALS IF \$MODEL4 SEQ 1608 GOTO 16XXSPECIALS IF \$MODEL4 SEQ 1616 GOTO 16XXSPECIALS IF \$MODEL4 SEQ 9620 GOTO 96XXSPECIALS IF \$MODEL4 SEQ 9630 GOTO 96XXSPECIALS IF \$MODEL4 SEQ 9640 GOTO 96XXSPECIALS IF \$MODEL4 SEQ 9650 GOTO 96XXSPECIALS

```
IF $MODEL4 SEQ 9608 GOTO 96X1SPECIALS
IF $MODEL4 SEQ 9611 GOTO 96X1SPECIALS
IF $MODEL4 SEQ 9621 GOTO 96X1SPECIALS
IF $MODEL4 SEQ 9641 GOTO 96X1SPECIALS
IF $MODEL4 SEQ J129 GOTO J1X9SPECIALS
IF $MODEL4 SEQ J139 GOTO J1X9SPECIALS
IF $MODEL4 SEQ J169 GOTO J1X9SPECIALS
IF $MODEL4 SEQ J179 GOTO J1X9SPECIALS
IF $MODEL4 SEQ J159 GOTO J1X9SPECIALS
IF $MODEL4 SEQ J189 GOTO J1X9SPECIALS
IF $MODEL4 SEQ K165 GOTO K1XXSPECIALS
IF $MODEL4 SEQ K175 GOTO K1XXSPECIALS
IF $MODEL4 SEQ aca GOTO SETTINGSEQNX
IF $MODEL4 SEQ aci GOTO SETTINGSEQNX
IF $MODEL4 SEQ acm GOTO SETTINGSEQNX
IF $MODEL4 SEQ acw GOTO SETTINGSEQNX
GOTO GENERALSPECIALS
# 16XXSPECIALS
GOTO GENERALSPECIALS
# 96XXSPECIALS
GOTO GENERALSPECIALS
# 96X1SPECIALS
GOTO GENERALSPECIALS
# J1X9SPECIALS
IF $SIG IN USE SEQ H323 GOTO J1X9H323SPECIALS
GOTO GENERALSPECIALS
# J1X9H323SPECIALS
GOTO GENERALSPECIALS
# K1XXSPECIALS
GOTO GENERALSPECIALS
# SETTINGSEONX
GOTO GENERALSPECIALS
# GENERALSPECIALS
# GROUP SETTINGS
IF $GROUP SEQ 1 GOTO GROUP 1
IF $GROUP SEQ 2 GOTO GROUP 2
IF $GROUP SEQ 3 GOTO GROUP 3
IF $GROUP SEQ 4 GOTO GROUP 4
IF $GROUP SEQ 5 GOTO GROUP 5
GOTO END
# GROUP 1
GOTO END
# GROUP 2
GOTO END
# GROUP 3
GOTO END
# GROUP 4
GOTO END
# GROUP 5
GOTO END
```

# END

#### **Related links**

The IP Office Settings Files on page 96

## **User Agent spoofing**

The IP Office can vary the content of the auto-generated settings files based on the *User Agent* (UA) string of the device that requests the files. Therefore, viewing the files using a browser may not show the file exactly as received by a particular phone or application.

However, it is possible to configure a browser to temporarily use a different *UA* string. This is called *UA spoofing*.

#### Example User Agent strings

- Goggle Chrome send a UA string like Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/ 537.36 (KHTML, like Gecko) Chrome/120.0.0.0 Safari/537.36.
- The following are example UA strings sent by Avaya clients.

Regular Expression	Description
Avaya.*	Matches any <i>UA</i> beginning with <i>Avaya</i> . The . matches any character. The .* matches any number of characters.
Avaya J1.*	Matches the UA string of any J100 Series phone.
Avaya (J1 Communicator).*	Matches the <i>UA</i> string of both J100 Series phones and Avaya Workplace clients. The () brackets enclose the potential matches, each potential match separated by a   character.

- As shown in the examples above, the UA string can vary depending on the software version and/or platform.
- You can view the *UA* sent by a particular phone or softphone in SysMonitor by registering the phone or client.

#### **Related links**

<u>The IP Office Settings Files</u> on page 96 <u>Changing the User Agent in Google Chrome</u> on page 101 Changing the User Agent in Safari on page 102

## Changing the User Agent in Google Chrome

#### About this task

This processes temporarily changes the *UA* string used by a Google Chrome browser. You can use this process to have the browser mimic an Avaya phone or application requesting files from the IP Office.

#### Before you begin Procedure

- 1. Using the browser, request a file from the IP Office.
- 2. Right-click on the window and select Inspect. The browser displays an inspection panel.
- 3. Click on the three-dots settings icon in the inspection panel.
- 4. Select More tools and then Network conditions.

- 5. In the User agent section, disable Use browser default.
- 6. In the drop-down list, select Custom....
- 7. In the text box below **Custom...**, enter the UA string the browser should use.
- 8. Refresh the browser page. The page is fetched from the IP Office using the custom UA.

#### **Related links**

User Agent spoofing on page 101

## Changing the User Agent in Safari

#### About this task

This processes temporarily changes the *UA* string used by a macOS Safari browser. You can use this process to have the browser mimic an Avaya phone or application requesting files from the IP Office.

#### Before you begin Procedure

- 1. Click Safari > Preferences.
- 2. Click Advanced.
- 3. Enable Show Developer menu in menu bar.
- 4. Click **Develop** > **User Agent** > **Other...**.
- 5. Enter the custom *UA* string and click **OK**.

#### **Related links**

User Agent spoofing on page 101

# Chapter 19: Additional Help and Documentation

The following pages provide sources for additional help.

#### **Related links**

Additional Manuals and User Guides on page 103 Getting Help on page 103 Finding an Avaya Business Partner on page 104 Additional IP Office resources on page 104 Training on page 105

## **Additional Manuals and User Guides**

The <u>Avaya Documentation Center</u> website contains user guides and manuals for Avaya products including IP Office.

- For a listing of the current IP Office manuals and user guides, look at the <u>Avaya IP Office<sup>™</sup></u> <u>Platform Manuals and User Guides</u> document.
- The <u>Avaya IP Office Knowledgebase</u> and <u>Avaya Support</u> websites also provide access to the IP Office technical manuals and users guides.
  - Note that where possible these sites redirect users to the version of the document hosted by the <u>Avaya Documentation Center</u>.

For other types of documents and other resources, visit the various Avaya websites (see <u>Additional IP Office resources</u> on page 104).

#### **Related links**

Additional Help and Documentation on page 103

## **Getting Help**

Avaya sells IP Office through accredited business partners. Those business partners provide direct support to their customers and can escalate issues to Avaya when necessary.

If your IP Office system currently does not have an Avaya business partner providing support and maintenance for it, you can use the Avaya Partner Locator tool to find a business partner. See <u>Finding an Avaya Business Partner</u> on page 104.

#### **Related links**

Additional Help and Documentation on page 103

## **Finding an Avaya Business Partner**

If your IP Office system currently does not have an Avaya business partner providing support and maintenance for it, you can use the Avaya Partner Locator tool to find a business partner.

#### Procedure

- 1. Using a browser, go to the Avaya Website at https://www.avaya.com
- 2. Select Partners and then Find a Partner.
- 3. Enter your location information.
- 4. For IP Office business partners, using the Filter, select Small/Medium Business.

#### **Related links**

Additional Help and Documentation on page 103

## **Additional IP Office resources**

In addition to the documentation website (see <u>Additional Manuals and User Guides</u> on page 103), there are a range of website that provide information about Avaya products and services including IP Office.

<u>Avaya Website</u> (<u>https://www.avaya.com</u>)

This is the official Avaya website. The front page also provides access to individual Avaya websites for different regions and countries.

Avaya Sales & Partner Portal (https://sales.avaya.com)

This is the official website for all Avaya business partners. The site requires registration for a user name and password. Once accessed, you can customize the portal to show specific products and information type that you want to see.

• Avaya IP Office Knowledgebase (https://ipofficekb.avaya.com)

This site provides access to an online, regularly updated version of IP Office user guides and technical manual.

• Avaya Support (https://support.avaya.com)

This site provide access to Avaya product software, documentation and other services for Avaya product installers and maintainers.

- Avaya Support Forums (https://support.avaya.com/forums/index.php)

This site provides forums for discussing product issues.

International Avaya User Group (https://www.iuag.org)

This is the organization for Avaya customers. It provides discussion groups and forums.

Avaya DevConnect (https://www.devconnectprogram.com/)

This site provides details on APIs and SDKs for Avaya products, including IP Office. The site also provides application notes for third-party non-Avaya products that interoperate with IP Office using those APIs and SDKs.

• Avaya Learning (https://www.avaya-learning.com/)

This site provides access to training courses and accreditation programs for Avaya products.

#### **Related links**

Additional Help and Documentation on page 103

## Training

Avaya training and credentials ensure our Business Partners have the capabilities and skills to successfully sell, implement, and support Avaya solutions and exceed customer expectations. The following credentials are available:

- Avaya Certified Sales Specialist (APSS)
- Avaya Implementation Professional Specialist (AIPS)
- Avaya Certified Support Specialist (ACSS)

Credential maps are available on the <u>Avaya Learning</u> website.

#### **Related links**

Additional Help and Documentation on page 103

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