

IP Office™ Platform 9.1

Installing Avaya one-X® Portal for IP Office™ Platform

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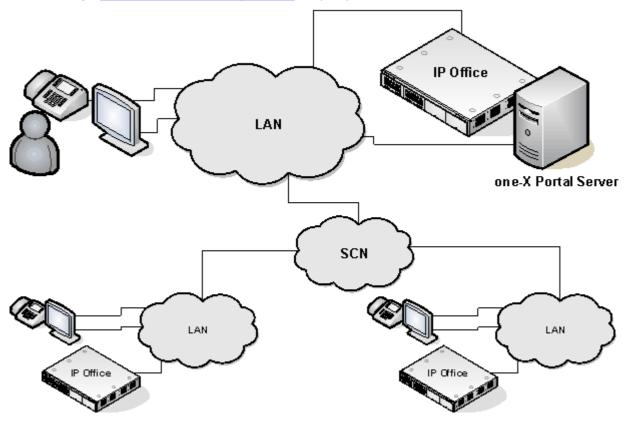
Chapter 1. one-X Portal for IP Office

1. one-X Portal for IP Office

This documentation covers the installation of one-X Portal for IP Office supported by IP Office Release 9.1. It details the Windows installation, which is supported with the IP500 V2 only.

It does not cover Linux installation (IP Office Server Edition, IP Office Application Server and Unified Communications Module), however other sections are still applicable to configuring Linux based servers and understanding their operation.

one-X Portal for IP Office is a server application that allows IP Office users to control their phone and various telephony settings through a web browser. A single one-X Portal for IP Office server can support multiple IP Offices when they are connected in a single IP Office Small Community Network (SCN).



one-X Portal for IP Office supports up to 750 simultaneous sessions in a network even if more IP Office users are configured for portal usage. This applies whether using a Windows or Linux based one-X Portal for IP Office server.

one-X Portal for IP Office installs as a service with an integral web server. Both user and administrator access to one-X Portal for IP Office is via web browser to the server. The one-X Portal for IP Office service communicates with the IP Office system using the IP Office's TSPI (Telephony Service Provider Interface) service. This service is configured through the security settings of the IP Office control units.

In addition to using one-X Portal for IP Office directly for telephony functions, the portal server and its link to the IP Office telephone system is used to support and enable a range of other applications:

Desktop Clients

The one-X Portal for IP Office supports a number of desktop client through which the user access one-X Portal for IP Office functions without having to use the full one-X Portal for IP Office browser interface.

one-X Portal Call Assistant

This Windows user application adds an icon to the system tray that then shows popup call and message notifications. The user can also make and control their calls using the application.

• Avaya IP Office Plug-in

This desktop client integrates with the user's Microsoft Outlook and allows them to make and control calls from within their Outlook.

Salesforce Plug-In

This desktop client integrates with Salesforce and includes softphone support.

• one-X Mobile Preferred for IP Office

The one-X Mobile application can be installed on Android and iOS mobile phones.

Microsoft Lync

User's can use the Microsoft Lync client to make and receive calls.

Web Conferencing

Selected users can host web conferences for visual presentations and document sharing in parallel with audio conferences.

Installing Avaya one-X® Portal for IP Office™	Platform
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1.1 Providers

A key idea to understand for one-X Portal for IP Office is providers. Providers are components of one-X Portal for IP Office, each of which performs a specific role. The different types of provider are:

• Presentation Level Provider

This type of provider handles the browser connections between users and the one-X Portal for IP Office server.

• Telephony CSTA Provider

This type of provider handles telephony communications to and from the IP Office systems assigned to it.

Directory DSML IP Office Provider

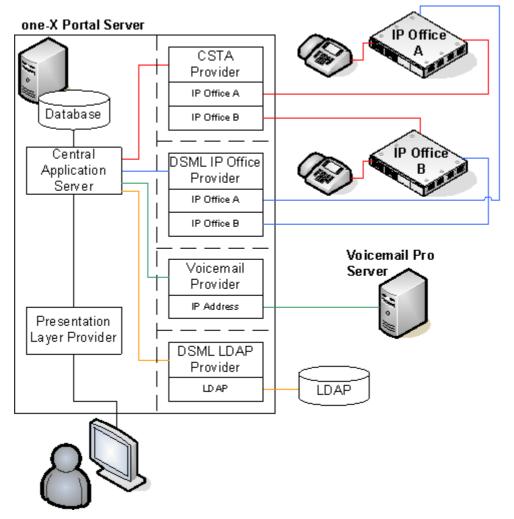
This type of provider handles obtaining directory information from the IP Office phone systems assigned to it.

• Directory DSML LDAP Provider

Handles obtaining LDAP directory information from an LDAP source. LDAP sources are assigned to the provider during installation.

VoiceMail Provider

Handles direct interaction with the voicemail server for features such as message playback via the browser.



During installation:

- One provider of each type is created.
- The IP Offices indicated during installation are assigned to the Telephony CSTA and Directory DSML providers. Following installation, additional IP Offices can be assigned as they are added to the Small Community Network.
- A Directory DSML LDAP provider is created even if no LDAP source is assigned. The actual LDAP sources can be assigned after installation.
- A Voicemail provider is created even if no Voicemail servers are configured.

1.2 one-X Portal for IP Office Settings

The sections below detail which user and directory data is stored by the one-X Portal for IP Office server and which is stored by the IP Office systems.

Directories

The various directories available to a one-X Portal for IP Office user are taken from a number of sources:

· Personal Directory

As personal directory records are added, they are stored by both the one-X Portal for IP Office application and by the telephone system and kept in synch. The telephone system can only store up to 100 personal directory entries per user (subject to its own system limits).

- Personal directory records stored by one-X Portal for IP Office can contain several numbers, with one selected as the Primary phone number. The matching records stored in the IP Office configuration contains just one number, that being the one selected as the Primary phone number. Changing the Primary phone number selection in one-X Portal for IP Office will update the number stored in the IP Office configuration to match.
- Any contacts uploaded from the IP Office Plug-in for Microsoft Office are listed in the Outlook group under the Personal tab. They are stored in the one-X Portal for IP Office only, and are in addition to the maximum 100 Personal Directory contacts.
- The system limit for total personal directory records depends on the IP Office control unit being used. When this limit is reached, additional personal directory records are stored by one-X Portal for IP Office only.
 - IP500/IP500v2: 10800 total personal directory records.
- For users with a 1608, 1616, 9500 or 9600 phones, they can edit or delete contacts through the phone's menus (primary phone number only).

• System Directory

The system directory contains records for all the users and groups on the IP Office systems assigned to one-X Portal for IP Office plus the system directory entries stored in the configuration of those systems. It does not include directory records those systems obtain by LDAP and or HTTP import.

- In an IP Office Small Community Network, the system directory entries configured on one IP Office system can be dynamically shared by other IP Offices in the network. This is a Centralized System Directory. The IP Office used to store the system directory used by the other systems should be one of those also assigned to one-X Portal for IP Office.
- If multiple IP Office systems are configured to operate with one-X Portal for IP Office, the system directories of each are combined by one-X Portal for IP Office into a single system directory for use by one-X Portal for IP Office users. If the same name exists in more than one IP Office system directory, that name will exist as multiple records in the one-X Portal for IP Office system directory. If this is undesirable, the centralized system directory feature supported by IP Office 5.0 and higher systems should be used to have the system directory record configured on just one IP Office but shared by HTTP import on the other IP Offices.
- Since the system directories are available to all one-X Portal for IP Office users, the number must be dialable by all one-X Portal for IP Office users. Alternatively, short codes should be used to ensure that numbers selected from the one-X Portal for IP Office system directory are interpreted correctly by the user's own IP Office.
- The one-X Portal for IP Office administrator can add System Directory contacts that are stored as part of the one-X Portal for IP Office configuration rather than IP Office configuration. These contacts can have multiple phone numbers and email addresses in the same way as user's Personal Directory contacts, but are available to all one-X Portal for IP Office users.

External Directory

The external directory is not stored by one-X Portal for IP Office. Instead one-X Portal for IP Office performs a live search of the external directory source configured for one-X Portal for IP Office usage.

User Settings

User settings for telephony operation are mainly stored by the IP Office system on which that user is configured. Only a small number of settings are stored by the one-X Portal for IP Office server.

Setting	one-X Portal for IP Office	IP Office	Source/Storage	
Personal Directory	7	7	A user's personal directory is stored in the configuration of both one-X Portal for IP Office and their IP Office. Changes in either are synchronized where possible.	
Call Log	-	✓	A user's call log is stored in the configuration of their IP Office.	
Voicemail Messages	-	y	Details of the user's voicemail messages are taken from the voicemail server via the IP Office.	
Profiles	<i>y</i>	-	A user's profiles are stored by the one-X Portal for IP Office server. When a profile is made active, it alters various user settings on the IP Office. If the IP Office configuration settings are altered by another method, the user's profile is changed to 'Detected'.	
DND Exceptions	-	1	A user's Do Not Disturb exception numbers are stored in the configuration of their IP Office.	
Keyboard Shortcuts	~	-	A user's keyboard shortcuts are stored by one-X Portal for IP Office.	
Sound Configuration	V	-	A user's one-X Portal for IP Office sound preference is stored by one-X Portal for IP Office.	
Park Slots	J	-	The park slot numbers used for a user's one-X Portal for IP Office park buttons are stored by one-X Portal for IP Office.	

Note that those settings stored by one-X Portal for IP Office are lost if one-X Portal for IP Office is reinstalled rather than upgraded.

1.3 Small Community Network Support

one-X Portal for IP Office is supported within an IP Office Small Community Network (SCN).

- Each IP Office on which one-X Portal for IP Office users are located must meet the requirements for one-X Portal for IP Office. That includes systems to which one-X Portal for IP Office users temporarily hot desk. This means that all systems in the SCN must be the same IP Office software release.
- one-X Portal for IP Office does not provide additional SCN features. It only supports SCN features that are supported by the IP Office systems. For example, the park buttons provided by one-X Portal for IP Office are not supported between different systems in an SCN. This means that one-X Portal for IP Office users can only park and unpark calls on the IP Office on which they are registered.
- one-X Portal for IP Office supports up to 750 simultaneous sessions in a network even if more IP Office users are
 configured for portal usage. This applies whether using a Windows or Linux based one-X Portal for IP Office server.
 However, in a <u>IP Office Server Edition Select</u> network up to 3000 simultaneous users are support if using a
 standalone Linux based one-X Portal for IP Office server on a suitable server.
- Linux based one-X Portal for IP Office servers support the auto-discovery of the IP Office systems in the network
 from the first system to which they connect. This option is not supported for Windows based one-X Portal for IP
 Office servers.

1.4 Terminal services support

one-X Portal for IP Office supports terminal services using Citrix and Microsoft Terminal Services clients.

Chapter 2. Installation (Windows)

2. Installation (Windows)

This section covers the installation of a one-X Portal for IP Office server using default settings. Installers with advanced one-X Portal for IP Office experience can use the custom option.

Important

Installation of one-X Portal for IP Office is greatly simplified if each IP Office contains <u>at least one user</u> already licensed and configured for one-X Portal for IP Office operation. It is <u>also vital</u> to check the security settings of each IP Office.

Installation Process

The basic installation process consists of the following stages:

- 1. Check the installation requirements 17
- 2. Check IP Office Security Settings 21
- 3. Add one-X Portal for IP Office Licenses 22
- 4. Configure IP Office Users for one-X Portal for IP Office 23
- 5. Checking Available Ports 24
- 6. Install the one-X Portal for IP Office Software 26
- 7. Initial Server Configuration 28
- 8. Test User Connection 31

2.1 Installation Requirements

Ensure that the following requirements are met before beginning installation of the one-X Portal for IP Office software on the server PC. Failure to do so will cause the one-X Portal for IP Office server to operate incorrectly.

IP Office Software

• IP Office Applications DVD

The IP Office Applications DVD for IP Office Release 9.1 includes the software for installation of one-X Portal for IP Office. It also includes software for installation of IP Office Manager and the IP Office System Status Application which are required during one-X Portal for IP Office installation.

IP Office System Requirements

• IP Office System

If the system is running pre-IP Office Release 9.1 software, it must be upgraded. For more information on the upgrade process, see <u>one-X Portal for IP Office software upgrade</u> 27.

• IP Office Small Community Network Support

Operation with multiple IP Office's is only supported within a single IP Office Small Community Network (SCN).

• IP Office Licensing

Users licensed and configured with the *Office User*, *Teleworker User* or *Power User* profiles can be configured for as one-X Portal for IP Office users. Those licensed and configured for with *Teleworker User* or *Power User* profiles can also be enabled for one-X Portal for IP Office telecommuter mode.

Server PC Requirements

one-X Portal for IP Office is currently supported with all components installed on a single server. During installation you have to be logged in using an account with full administrator rights.

The following are the server requirements for one-X Portal for IP Office deployments with up to 300 IP Office users. For one-X Portal for IP Office deployments with more than 300 IP Office users, see <u>Configuring one-X Portal for IP Office</u> Server for 300+ IP Office Users 33.

	Up to 300 User	300+ Users
Operating System	 Windows Server 2008 (32-bit and 64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) 	 Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit)
Processor	Intel Pentium D945 core or AMD Athlon 64 4000+.	Intel Core 2 Duo CPU E8400 @ 3.00 GHz.
RAM Memory	• 4GB	• 8GB
Hard Disk Space	• 20GB	• 20GB

Supported Microsoft Exchange Servers

Connection to the following Microsoft Exchange servers is supported for presence integration:

- Exchange 2007
- Exchange 2010
- Exchange 2013

TCP/IP Port:

The default ports are 8080 and 8666. These can be changed if required during installation of the server software. See Checking Available Ports 24.

• Firewall Exceptions

Exceptions should be added to the server firewall for incoming access on the TCP ports above. If the firewall is also used to control outgoing access, an exception for access to TCP port 50814 on the IP Office IP address should also be added.

Voicemail Server Requirements

The playback of a user's messages through their phone is supported using embedded voicemail or Voicemail Pro.

Voicemail playback through the one-X Portal for IP Office user's browser and personalized greeting recording and control requires a Voicemail Pro voicemail server installed as follows:

- Microsoft IIS should be installed and running before installation of the Voicemail Pro voicemail server software. Set the following IIS options:
 - Enable Direct Metabase Edit.
 - IIS Configuration Compatibility.
 - SSL should be disabled for the default website.
- The Voicemail Pro voicemail server installation should include the Web Voicemail Pro (UMS) component.
- The voicemail server must be in the same subnet as the one-X Portal for IP Office server.
- Check that the IIS on the voicemail server can be browsed by server name from the one-X Portal for IP Office server PC. Enter http://<voicemail_server_name>/localstart.asp into a browse. If the IIS server does not respond, resolve the DNS routing between the servers before proceeding with the one-X Portal for IP Office installation.

After the Voicemail Pro is installed, you will see Voicemail Pro related virtual directories under IIS > sites.

The following 3 directories should be available:

- NamesGreetings
- PersonalGreetings
- VoicemailAccounts

To manually create the aforementioned virtual directories and specify the path:

- NamesGreetings: VMPro Installation Dir/VM/Names.
- PersonalGreetings: VMPro Installation Dir/VM/Greetings.
- VoicemailAccounts: VMPro Installation Dir/VM/Accounts.

If there is an error during the installation of Voicemail Pro, then the three directories will not be available.

- 1. Ensure that the Voicemail Server is in the same subnet where the Tomcat server is installed.
- 2. Include the computer name of the system where the Voicemail pro server is installed at the No Proxy Settings/Exception list of the browser in order to listen to the Voicemail or Greeting on the browser.

Information Required

For the server PC:

- IP Address
- User Account: A user account with full administrator rights. This account should be used for the software
 installation.
- Computer Name: This name will become part of the URL users use to access one-X Portal for IP Office.

For each IP Office system:

- IP Address.
- Name and password for security settings access.
- Name and password for configuration settings access.
- one-X Portal for IP Office Licenses.
- Users who will be using one-X Portal for IP Office including IP Office user name and password.
- The IP address of the Voicemail Pro voicemail server being used by the IP Office.

LDAP Information

To enabled the External tab in the one-X Portal for IP Office Directory gadget, details of the customer's LDAP server and an search configuration details are required.

- LDAP Server URL.
- · User name and password.
- · Base DN/Search Base.
- · Field names.

one-X Portal for IP Office User Requirements

Browser

Web browser with LAN access to the one-X Portal for IP Office server. one-X Portal for IP Office is tested using the following web browsers:

- Internet Explorer 8.0, 10.0 and 11.0.
- Firefox
- Google Chrome
- Safari 7
- The browser should be Javascript enabled.
- The **Remember me on this computer** option requires the browser to allow cookies.
- For sounds to be used, for example ringing for a call waiting, or voicemail playback through the computer, a media player such as <u>Windows Media Player</u> or <u>Quick Time</u> must be installed. When using a browser other than Internet Explorer, Windows Media Player can be supported by the addition of the Firefox Windows Media Play plugin. This plugin is available from http://port25.technet.com/pages/windows-media-player-firefox-plugin-download.aspx. Currently, this plugin is useable with Google Chrome, Mozilla Firefox and Windows Safari.
- The playback of voicemail messages on the user computer requires the user browser to have the IP address of the voicemail server added to the proxy server exceptions.
- Language

one-X Portal for IP Office currently supports:

 Brazilian 	English (US)	Italian	Russian
• Chinese	• English (UK)	 Japanese 	• Spanish (Latin)
• Czech	• French	 Korean 	 Swedish
• Dutch	• German	 Polish 	Turkish

Phone

one-X Portal for IP Office can be used with most phones supported by the telephone system.

• For analog phone users, the user's **Call Waiting On** and **Off Hook Station** settings should be selected in the user's IP Office configuration.

2.1.1 Exchange Server Requirements

one-X Portal for IP Office supports Exchange server calendar mining feature. one-X Portal for IP Office mines the calendar details of users configured on Microsoft Exchange server and updates the presence status of the users on one-X Portal for IP Office.

• Supported Microsoft Exchange Servers

Connection to the following Microsoft Exchange servers is supported for presence integration:

- Exchange 2007
- Exchange 2010
- Exchange 2013
- IP Address of the Microsoft Exchange server.

User Account:

A user account (AvayaAdmin) is created and given rights to mine the details of the users configured on the Exchange server.

• TCP/IP Port:

The default port is 6669. For more details see Checking Available Ports 24.

• Firewall Exceptions

If the Exchange server is hosted by a service provider and it outside the internal network, then port 6669 has to be opened on the router or firewall to allow inbound traffic from the Exchange server to the one-X Portal for IP Office server.

2.2 Check the IP Office Security Settings

Before attempting to connect an IP Office to a one-X Portal for IP Office server you must check the IP Office security settings. one-X Portal for IP Office uses a specific service and security service user account for the connection. This service is not necessarily present by default.

- Important: Perform this Process from the one-X Portal for IP Office Server PC

 The IP Office security settings and other IP Office configuration actions are to be performed using IP Office

 Manager installed on the server PC. Doing this is also a basic test of the network routing between the server PC

 and the IP Office system. These can be installed from the IP Office Applications DVD.
- Important: Security Name and Password

 This process uses the default security name and password assumed by one-X Portal for IP Office installation for TCPA/TSPI access to an IP Office system. If using the **Advanced** option during one-X Portal for IP Office

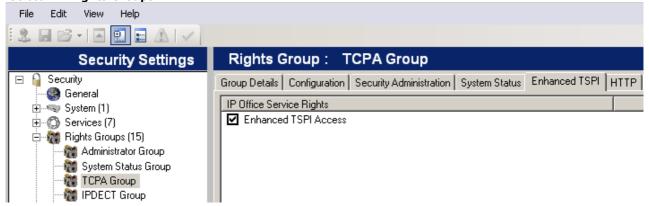
TCPA/TSPI access to an IP Office system. If using the **Advanced** option during one-X Portal for IP Office installation, alternate names and passwords can be used. Only installers with experience of previous one-X Portal for IP Office installations should use the Advanced option.

To check the IP Office Service User Account for one-X Portal for IP Office:

- 1. Start IP Office Manager and select **File | Advanced | Security Settings**.
- 2. Select the IP Office system and click **OK**. Enter the user name and password for access to the IP Office's security settings.
- 3. Select Services. The list of services will include an entry for an *Enhanced TSPI* service. This is the service used by the one-X Portal for IP Office service to access the IP Office. You need to ensure that the IP Office security configuration includes a Service User and Right Group configured to use this service.



4. Select Rights Groups.



- 5. The list of **Rights Groups** should contain a group called **TCPA Group**. Select this group and then the **Enhanced TSPI** tab. The option for **Enhanced TSPI Access** should be selected as shown above. If this is not the case correct the security settings, creating a new group if necessary.
- 6. Select Service Users. The list of Service Users should include a user called EnhTcpaService. In the service user details, this user should be set as a member of the TCPA Group. If this is not the case correct the security settings, creating a new user.
 - The user's default password is *EnhTcpaPwd1*. The password can be changed. However, if changed, the **Advanced** options should must be used during the <u>initial server configuration</u> 28 to set the matching password for the CSTA provider connection to the IP Office system.
- 7. If you have had to make changes to the security settings, click on the 서 icon to save the new security settings.

2.3 Add one-X Portal for IP Office Licenses

Each user for one-X Portal for IP Office must be configured for an **Office User**, **Teleworker User** or **Power User** user profile. Each of those user profiles requires appropriate licenses added to the IP Office system configuration. The licenses should be added to the IP Office configuration and validated before the one-X Portal for IP Office is installed.

Each license is specific to the serial number of the IP Office system's Feature Key serial number and licenses a specific number of users. Multiple licenses can be added for a larger total number of users.

IP Office Licensing

Users licensed and configured with the **Office User**, **Teleworker User** or **Power User** profiles can be configured for as one-X Portal for IP Office users. Those licensed and configured for with **Teleworker User** or **Power User** profiles can also be enabled for one-X Portal for IP Office telecommuter mode.

Users Exiting Without Logging Out

If a user closes their browser rather than logging out, the license they were using remains consumed for up to 6 hours. A user can refresh their browser without being logged out. All data is retrieved from the server again as if they had just logged in again. The user can also navigate to another website and back to one-X Portal for IP Office and remain logged in. If the user presses the **Esc** button, they are prompted whether they wish to log out, if they do not, the browser is refreshed. With some browsers, for example Firefox, a user can close their browser without logging out and when they reopen the browser they are logged straight back in.

To add IP Office Licenses

- 1. Start IP Office Manager and receive the configuration from the system.
- 2. Click on License.
- 3. Click Add enter a new license. Click ADI and select OK.
- 4. Enter the license or licenses provided for configuring different user profiles on the system.
- 5. If the license has been entered correctly, the **Feature** shows the name of the license. The **License Status** shows as **Unknown**. The **Instances** shows the number of users who can now be configured using that license.
- 6. Click on late to save the updated configuration back to the IP Office system.
- 7. Reload the IP Office configuration and select License again.
- 8. Check that the License Status is now Valid.

2.4 Configure Users for one-X Portal for IP Office

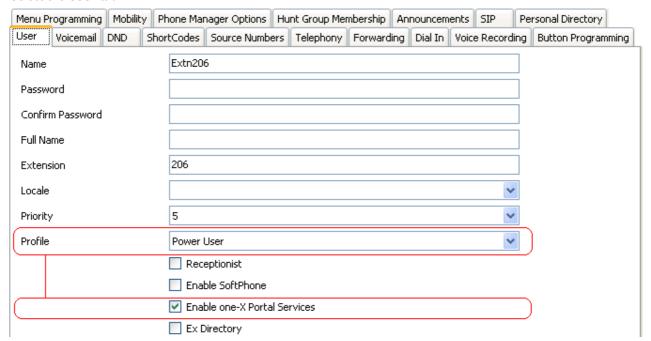
At least one user on each IP Office system to be supported should be configured as a one-X Portal for IP Office user before the one-X Portal for IP Office server is installed.

• IP Office Licensing

Users licensed and configured with the **Office User**, **Teleworker User** or **Power User** profiles can be configured for as one-X Portal for IP Office users. Those licensed and configured for with **Teleworker User** or **Power User** profiles can also be enabled for one-X Portal for IP Office telecommuter mode.

To configure a user for one-X Portal for IP Office:

- 1. Start IP Office Manager and click on the 4 icon.
- 2. Select the IP Office and click **OK**.
- 3. Enter the user name and password for access to the IP Office's configuration settings.
- 4. Click on User.
- 5. Select the user who you want to enable for one-X Portal for IP Office operation.
- 6. Select the **User** tab.



- 7. Select the **Profile** which you want the user to use and for which the IP Office system has licenses. For one-X Portal for IP Office the supported profiles are **Office User**, **Teleworker User** or **Power User**. The later two are also able to support the one-X Portal for IP Office Telecommuter features. If you want to grant access to the one-X Portal for IP Office user page, then select the **Enable one-X Portal Services** check box.
- 8. Note the user Name and Password. These are used by the user to login to one-X Portal for IP Office.
 - For analog phone users, the user's **Call Waiting On** and **Off Hook Station** settings should be selected in the user's IP Office configuration.
- 9. Repeat the process for any other users who will be using one-X Portal for IP Office services.
- 10. Click on late to save the updated configuration back to the IP Office system.

2.5 Checking Available Server Ports

The one-X Portal for IP Office application installs as a service (*Avaya one-X Portal*) listening on a port. By default it uses port 8080. The backup and restore service also use port 8666 by default.

It is important to check that these ports are not already in use by other applications. If they are, a different unused port number should be specified during the one-X Portal for IP Office software installation. The only way to change the ports following installation is to remove and then reinstall the software.

Whichever ports are selected, ensure that incoming TCP access to those ports is allowed in the server's firewall exceptions.

The default port configuration on Windows is 8443 and Linux is 9443. Both these ports should be unoccupied.

Ports used by the one-X Portal for IP Office

In addition to the ports used to access the one-X Portal for IP Office server from a browser client, various components of the one-X Portal for IP Office also use ports to communicate. The full set of ports used by one-X Portal for IP Office are listed below:

- 4560 This port is used by log4j socket appender.
- **5222** This port is used for XMPP client/server communication.
- **5269** This port is used for XMPP server to server federation. This port federates with the External XMPP servers or XMPP enabled servers such as Google Talk. If the customer is not intending to federate with external XMPP servers then this port does not need to be opened on the firewall.
- 6669 Inbound traffic from the Microsoft Exchange server to the portal for calendar notifications.
- 8005 This port is used by the Tomcat shutdown listener.
- **8443** This port is used for HTTPS access on Windows installation of one-X Portal for IP Office. Note: This port is used by Flare and one-X Mobile
- **8444** This port is used for initial communication between the mobility client (Android/iPhone) and the one-X Portal for IP Office. If customer is **NOT** using the mobility client or is only using it on the internal WiFi network, then this port does not need to be opened on the firewall.
- **8063** This port is used for web socket based delivery. Open this port on the machine that runs **one-X Portal for IP Office**. This port is also used by Avaya Flare Experience for Windows, Microsoft Outlook plugin, Call assistant and Salesforce.com plug-in for HTTPS access to the **one-X Portal for IP Office** server.
- **8666** This port is used by the JVMX component of the one-X Portal for IP Office. This port number can be changed during installation.
- 8069 This port is used for web socket based delivery. Open this port on the machine that runs one-X Portal for IP Office. This port is used by Avaya Flare Experience for Windows, Microsoft Outlook plugin, Call assistant and Salesforce.com plug-in for HTTP access to the one-X Portal for IP Office server.
- 8080 Default HTTP browser access port. This port number can be changed during installation.
- 8082 The database component of the one-X Portal for IP Office uses this port.
- 8086 This port is used for HTTPS access to mybuddy.
- 9092 This port is used by the Database client listener.
- 9094 This port is used for OpenFire XML RPC (Remote Procedure Call) and administration console.
- 9095 This port is used by the OpenFire admin console (https).
- 9443 This port is used for HTTPS access on Linux installation of one-X Portal for IP Office. Note: This port is used by Flare and one-X Mobile

Note:

- Ports **5222**, **5269** and **8444** need to be opened on the customer's firewall or router, if the mobility client is to be used on a cellular network or if external XMPP access is required.
- Ports 8086, 9094 and 9095 need not be opened on the customer's firewall or router.

Listing Ports Already in Use

To check which ports are already in use on the server, the command **netstat -an > ports.txt** can be used. This will create a text file **ports.txt** listing all the ports on which the server is currently listening. Check that none of the ports required by one-X Portal for IP Office are already in use. If they are, there will be a conflict between the application already using the port and one-X Portal for IP Office when one-X Portal for IP Office is installed.

Reserved Ports

There are a number of ports used by other Avaya IP Office applications. If any of these are specified during installation, the installer will ignore the selection and default to installing on port 8080. Examples of reserved ports are:

- 8888 Default port used by ContactStore for IP Office.
- 8089 Default port used by IP Office Conferencing Center application.

Other Commonly Used Ports

Ports in the 8000 range are also frequently used by other applications.

• 8081 - Default port used by IIS for SharePoint Administration access.

2.6 Install the one-X Portal for IP Office Software

Prerequisite:

- Do not start software installation until the previous installation steps (IP Office security settings 21), one-X Portal for IP Office licenses 22), user configuration 23) have been completed.
- Ensure that you have logged in to the server using an account with full administrator rights. Alternatively right click the one-x install package and select *Run as administrator* option.
- To install on a Windows server, ensure that you disable the User Account Control (UAC) in the User Accounts section of the Windows Control Panel before beginning the installation, then restart the server. If you login as an user with administrator rights and do not disable the UAC you cannot complete the installation successfully.
- During installation if the system displays the following error: Error 1330 Invalid Digital Signature, install Microsoft updates on Windows 2008/2012 server.

To install the server software:

- 1. In the IP Office Application DVD, right-click **setup.exe** and select *Run as Administrator* to start the server software installation process. The system displays **Avaya IP office one-X Portal InstallShield Wizard**.
 - If you have a previous version of the one-X Portal for IP Office installed, you need to upgrade it to the new version. For more information on the upgrade process, see one-X Portal for IP Office software upgrade 27h.
- 2. Choose the language that you want to use during the installation.
- Click OK. The system displays Preparing to Install screen. If you do not want the system to proceed with the installation process, click Cancel. The system displays Welcome to the InstallShield Wizard for Avaya one-X Portal for IP Office.
- 4. Click Next. The system displays License Agreement.
- 5. Select **I accept the license terms in the agreement**, you agree with the terms. To print the license terms in the agreement, click **Print**.
- 6. Click **Next**. If the system has more than 8 GB of RAM, you are prompted to select one of the following:
 - Configure for up to 750 IP Office users (uses 7 GB of system RAM)

 This option requires additional server configuration. See Configuring one-X Portal for IP Office Server for 300+ IP Office Users 33.
 - Configure for up to 300 IP Office users (uses 4 GB of system RAM)
- 8. Click Install.
- 9. Do one of the following:
 - To review or change the installation settings, click **Back**.
 - To exist the installation wizard, click Cancel.
 - To proceed with the installation, click Install.
 - The system displays **Application Information** window, that contains the default HTTP Port, JMX Port, and the backup location on the server. You can set the HTTP Port, JMX Port and the Backup location on the server. For information about the ports, see Checking Available Ports After one-X Portal for IP Office is installed, you can change the port number only by removing and then reinstalling the one-X Portal for IP Office software.
- 10. Click Next. The system displays InstallShield Wizard Completed.
- 11. Select one of the following options:
 - Start Avaya one-X Portal for IP Office service. If you do not select this option, you need to start theone-X Portal for IP Office service manually before it can be configured.
 - · Show the readme file
 - · Show the Windows Installer log
- 12. Click **Finish**. Proceed to <u>Initial Server Configuration 28</u>4.

2.6.1 one-X Portal for IP Office software upgrade

You can upgrade a previous version of one-X Portal for IP Office to a new version.

- You will have to add the XMPP domain name and restart the services while upgrading from one-X Portal for IP
 Office 5.0 and 6.0 to 9.1.
- Ensure that you have logged in to the server using an account with full administrator rights. Alternatively, right click the one-x install package and select *Run as administrator* option.
- To install on a Windows 2008/2012 server, ensure that you disable the User Account Control (UAC) in the User Accounts section of the Windows Control Panel before beginning the installation, then restart the server. If you login as an user with administrator rights and do not disable the UAC you cannot complete the installation successfully.

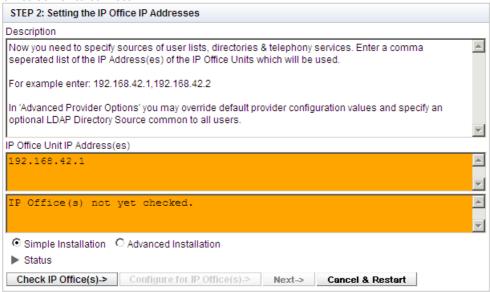
To upgrade:

- 1. In the IP Office Application DVD, right-click **setup.exe** and select *Run as Administrator* to start the server software installation process. The system displays **Avaya IP office one-X Portal InstallShield Wizard**.
- 2. Choose the language that you want to use during the installation.
- 3. Click OK.
- 4. The system displays **Preparing to Install** screen. If you do not want the system to proceed with the installation process, click **Cancel**.
- 5. The system displays **Welcome to the InstallShield Wizard for Avaya one-X Portal for IP Office**. The system also displays the current version of **one-X Portal for IP Office** that is installed on the system and prompts you to proceed with the upgrade.
- 6. Click Next. The system displays License Agreement.
- 7. Select I accept the license terms in the agreement, you agree with the terms. To print the license terms in the agreement, click Print.
- 8. Click **Next**. If the configuration of the system on which you are installing one-X Portal for IP Office has more than 8 GB of RAM, the system prompts you to configure up to 750 IP Office users. Select one of the following:
 - Configure for up to 750 IP Office users (uses 7 GB of system RAM)
 - You can also manually configure more than 300 IP Office users. For more information see, Configuring one-X
 Portal for IP Office Server for 300+ IP Office Users
 33
 1
 <a href="Telephone-3
 - Configure for up to 200 IP Office users (users 4 GB of system RAM)
- 9. Click Install. Do one of the following:
 - To review or change the installation settings, click **Back**.
 - To exist the installation wizard, click Cancel.
 - To proceed with the installation, click Install.
- 10. The system displays **Application Information** window, that contains the default HTTP Port, JMX Port, and the backup location on the server. You can set the HTTP Port, JMX Port and the Backup location on the server. For information about the ports, see Checking Available Ports 24. After one-X Portal for IP Office is installed, you can change the port number can only after removing and then reinstalling the one-X Portal for IP Office software.
- 11.Click Next. The system displays InstallShield Wizard Completed. Select one of the following options.
 - Start Avaya one-X Portal for IP Office service. If you do not select this option, you need to start theone-X Portal for IP Office service manually before it can be configured.
 - Show the readme file
 - Show the Windows Installer log
- 12. Click Finish.

2.7 Initial Server Configuration

At this stage, the one-X Portal for IP Office server software has been <u>installed</u> and the service started. However the one-X Portal for IP Office server still requires initial configuration. During this configuration it will connect to the IP Office systems.

- 1. If you did not select **Start the Avaya one-X Portal Service** during the software installation, start the service manually.
- On the one-X Portal for IP Office server, open a web browser and enter http://127.0.0.1:8443/onexportal-admin. html.
 - If the service has only just been started, you have to wait a while whilst the services are started. This can take up
 to 15 minutes before one-X Portal for IP Office responds. One way to monitor progress is to use Windows Task
 Manager. Typically as one-X Portal for IP Office is starting, the **PF Usage** will gradually increase. Once is reaches
 approximately 2.3GB, one-X Portal for IP Office has started.
 - The message System is currently unavailable please wait is displayed while the one-X Portal for IP Office
 application is still starting. When the message disappears approximately 15 minutes after the one-X Portal for IP
 Office service was started.
- 3. When the login menu is displayed, check that the version reported matches the version expected.
- 4. Enter the default administrator name (Administrator) and password (Administrator) and click Login.
- 5. The License Agreement page is displayed. When you have read the license, select Have Read & Agree and then click on Next.
- 6. The menu now allows entry of the IP addresses of the IP Office systems to which you want the one-X Portal for IP Office server to connect.



- In the following menus, the Status icon can be used to show/hide status messages about the actions being
 performed by the installation process.
- You can enter the addresses of multiple IP Office systems in your Small Community Network. For IP Office Release 9.1, you can enter just one address. The one-X Portal for IP Office is informed by the first system about the others in your network. This however takes a while to occur after initial installation and assumes that the security settings of all the systems are the same.
- 7. Enter the addresses in the form and select **Check IP Office(s)**. The one-X Portal for IP Office server will attempt to connect to each of the indicated IP Offices. The orange background will change to green is this is successful.



8. Click on Advanced Installation. and expand the Advanced Provider Options section.

Simple Installation Advanced Installation

Advanced Provider Options

Description:

Mid-Layer Telephony (CSTA) Directory (IP-Office) Directory (LDAP) VoiceMail-Provider IM/Presence

Mid-Layer Host Name localhost

Mid-Layer Port 8080

Mid-Layer Service Name inkaba

a. Select **Telephony (CSTA)**. If you changed the password used for the IP Office system's **EnhTcpaService** user, set the same password here.

Mid-Layer Telephony (CST	A) Directory (IP-Office)	Directory (LDAP)	VoiceMail-Provider	IM/Presence
Provider's Mid-Layer Username	indoda_user			
Provider's Mid-Layer Password	•••••			
Provider runs on Port	8080			
Common SAP Username	EnhTcpaService			
Common SAP Password	•••••			

b. Select Directory (IP Office). Check that the provider address and port match those expected.

Mid-Layer	Telephony (CS)	A) Directory (IP-Office)	Directory (LDAP)	VoiceMail-Provider	IM/Presence	
Provider's Mid	I-Layer Username	indoda_user				
Provider's Mid	I-Layer Password	•••••				
Provider runs	on Port	8080				
Timeout		300				
DSML Provide	er IP Address	DSML Provider Port	Secure Connection	1		
192.168.0.2	14	443	V	Delete		

c. If the customer has an LDAP directory source that they want used for the external directory, select **Directory** (**LDAP**). Enter the details for the LDAP connection.



d. Select **VoiceMail-Provider**. Enter the IP address of the voicemail server. For a Small Community Network, enter the address of the centralized voicemail server (not that of the backup or any distributed voicemail servers). For embedded voicemail, enter the IP Office system's own IP address.

embedded	voiceman, e	nicer ci	ne ii Office sys	SCEIII 3 OWII	i ii au	u1 C33.		
Mid-Layer	Telephony (CS1	ΓA) D	irectory (IP-Office)	Directory (LD)AP) \	/oiceMail-Provider	IM/Presence	
Provider's Mid	I-Layer Usemame	izwi_u	ser					
Provider's Mid	I-Layer Password	•••••	••••					
Provider runs	on Port	8080						
Assign Ne	w Voicemail Serv	er Unit						
ID			VoiceMailServer IF	Address -				
0			Enter valid ip a	ddressı	Delete			

e. Select **IM/Presence**. Enter the DNS domain name that the server should use for IM/presence service.

Mid-Layer	Telephony (CSTA)	Directory (IP-Office)	Directory (LDAP)	VoiceMail-Provider	IM/Presence
XMPP Doma	in Name	localhost.localdo	main		

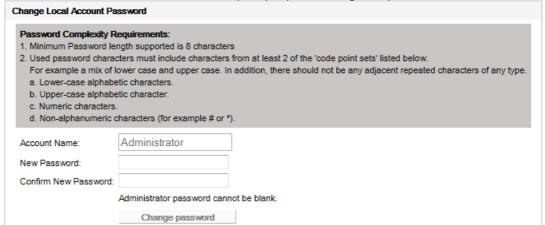
9. Click on Configure for IP Office(s). The one-X Portal for IP Office server will connect with each IP Office and automatically extract details of the IP Office users. If Simple Installation was selected, the installer will go through this and the following steps automatically. If Advanced Installation was selected, the installer will require you to select Next after each step.



 Having extracted user details, the one-X Portal for IP Office server extracts directory details from the IP Office systems.



11. The one-X Portal for IP Office server now prompts you to change the password used for administrator access.



12. Enter a new password and click **Change Password**. The initial configuration is complete. Note that it will still be at least another 5 minutes before the one-X Portal for IP Office is usable by end users.

2.8 Test User Connnection

From a user PC rather than the server PC, check that a user can login to one-X Portal for IP Office and use it to make and answer calls.

To login as a user:

- From a user PC, use a web browser to browse to the one-X Portal for IP Office server. Type https:// <server_address>:8443/onexportal.html.
- 2. Enter the user's name and password.
- 3. Click Login.
- 4. Check that the user can see the system directories and, if configured, search the external directory.
- 5. Check that the user can see and edit their personal directory.
- 6. Make a call to the user's extension. The call should be shown within the **Calls** gadget. Answer the call using the **Calls** gadget.
- 7. Check that the answered call appears in the Call Log gadget.
- 8. Make a call using the Calls Gadget.
- If the system includes a voicemail server, check that the Messages gadget shows messages in the user's mailbox.
- 10. Select Logout.

2.9 Adding Certificates

Secure connection to the server for instant messaging and presence may require the server to include certificate. For example this is a requirement for one-X Communicator to use TLS.

For Linux based one-X Portal for IP Office, the portal shares the certificates added to the server's web management menus. However, for Windows based portal servers, the certificate needs to be added through the one-X Portal for IP Office administrator menus.

To add a certificate:

- 1. Login to the one-X Portal for IP Office administrator menus.
- 2. Click Configuration and select Certificate.
- 3. Click **Import** and select the certificate to upload to the server.

2.10 Configuration for 300+ IP Office Users

If you deploy one-X Portal for IP Office for more than 300 simultaneous active users, you not only need additional resources for the server computer but also need to modify some configuration settings on the server computer. Before you begin the installation review the <u>Installation Requirements</u> 17.

• **Note:** After each time you upgrade one-X Portal for IP Office to a newer version, you must follow step 3 3 below to configure the server computer.

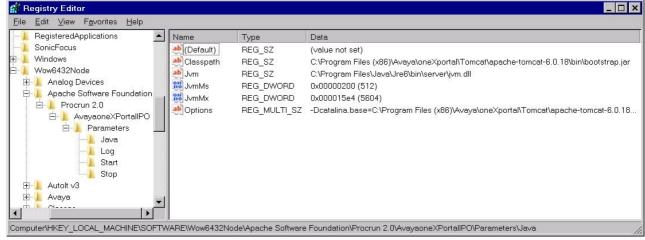
System Requirements

The following are the Windows server requirements for the deployment of one-X Portal for IP Office with more than 300 IP Office users:

	Up to 300 User	300+ Users
Operating System	 Windows Server 2008 (32-bit and 64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) 	 Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit)
Processor	• Intel Pentium D945 core or AMD Athlon 64 4000+.	Intel Core 2 Duo CPU E8400 @ 3.00 GHz.
RAM Memory	• 4GB	• 8GB
Hard Disk Space	• 20GB	• 20GB

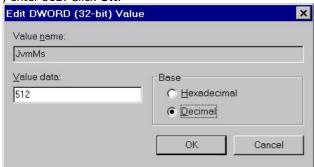
To configure a Windows server to support 300+ users

- 1. Do the following:
 - If your system is not running one-X Portal for IP Office 9.1 already, install and or upgrade to one-X Portal for IP Office 9.1.
 - If your system is already running one-X Portal for IP Office 9.1, stop the one-X Portal service:
 - a. Click **Start > Run**, type *services.msc* in the **Open** field, and click **OK**.
 - b. In the **Services** window, right-click one-X Portal for IP Office in the list of services, and click **Stop** on the pop-up menu
- 2. Proceed as follows to modify the Windows registry:
 - a. Click **Start > Run**, type regedit in the **Open** box, and click **OK**.
 - b. Locate and select the registry key HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Apache Software Foundation\Procrun 2.0\AvayaoneXPortalIPO\Parameters\Java.

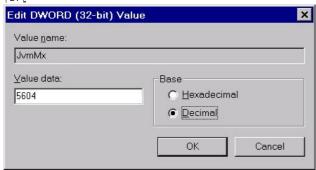


- c. Click File, and then click Export.
 - This step backs up the key before you make any changes. You can import this file back into the registry later if your changes cause a problem.
- d. Right-click the subkey <code>Jvm</code> and click <code>Modify</code> on the pop-up menu. In the <code>Value Data</code> field enter <code><JRE Installation Path>\bin\server\jvm.dll</code>. where <code><JRE Installation Path></code> is the JRE installation path. Ensure that you specify the JRE installation path where the x64 bit java was installed; the default path is <code>C:\Program Files\Java</code>, not <code>C:\Program Files (x86)\Java</code>. If you do not specify the correct path the system will not be able to start the service.

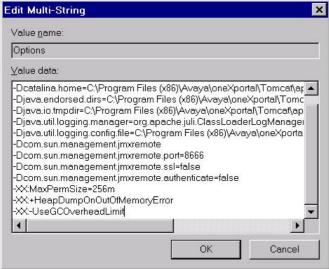
e. Right-click the subkey JvmMs, and click **Modify** on the pop-up menu. Under **Base**, select **Decimal**. In **Value Data**, enter 512. Click **OK**.



f. Right-click the subkey JvmMx, and click **Modify** on the pop-up menu. Under **Base**, select **Decimal**. In **Value Data**, enter 5604. Click **OK**. For more information about the available ports see, Checking Available Server Ports



g. Right-click the subkey Options, and click Modify on the pop-up menu. Add the following parameters:



- -XX:MaxPermSize=256m
- -XX:+HeapDumpOnOutOfMemoryError
- -XX:-UseGCOverheadLimit
- h. Click OK.
- i. Press **F5**, and close the **Registry Editor** window.
- 3. Proceed as follows to start the one-X Portal service:
 - a. Click **Start > Run**, type *services.msc* in the **Open** field, and click **OK**.
 - b. In the **Services** window, right-click one-X Portal for IP Office in the list of services, and click **Start** on the pop-up

Chapter 3.

Configuring Microsoft Exchange Server Integration

3. Configuring Microsoft Exchange Server Integration

The one-X Portal for IP Office can connect to an Exchange server to provide presence integration based on a user's calendar meetings and appointments.

Exchange Server Requirements

one-X Portal for IP Office supports Exchange server calendar mining feature. one-X Portal for IP Office mines the calendar details of users configured on Microsoft Exchange server and updates the presence status of the users on one-X Portal for IP Office.

• Supported Microsoft Exchange Servers

Connection to the following Microsoft Exchange servers is supported for presence integration:

- Exchange 2007
- Exchange 2010
- Exchange 2013
- IP Address of the Microsoft Exchange server.

• User Account:

A user account (AvayaAdmin) is created and given rights to mine the details of the users configured on the Exchange server.

• TCP/IP Port:

The default port is 6669. For more details see Checking Available Ports 24.

Firewall Exceptions

If the Exchange server is hosted by a service provider and it outside the internal network, then port 6669 has to be opened on the router or firewall to allow inbound traffic from the Exchange server to the one-X Portal for IP Office server.

Process Summary

You must perform the following steps to enable the one-X Portal for IP Office to update the users' presence based on Microsoft Exchange Server 2007 or 2010 calendar meetings or appointments.

- 1. Install and enable Digest Authentication 37
- 2. Create an AvayaAdmin user account 38
- 3. Configure the AvayaAdmin user account 38
- 4. Set impersonation rights for AvayaAdmin 38

3.1 Install and Enable Digest Authentication

IIS Digest authentication needs to be installed and enabled on the server running Microsoft Exchange. To use Digest authentication on IIS 7 and later, you must install the service role and then for the EWS web site disable Anonymous authentication and enable Digest authentication. For full details of the installation process refer to http://www.iis.net/configreference/system.webserver/security/authentication/digestauthentication.

. Warning: Interaction with OCS

IP Office integration with Microsoft Exchange for Calendar mining cannot be configured and used if Microsoft Office Communication Server (OCS) and Office Communicator are already deployed. If this is the case, enabling digest authentication can stop the Microsoft OCS from working. There is a continual prompting for authentication in the Office Communicator and an error message is generated.

To install the Digest authentication role service:

- a. Windows Server 2008 or Windows Server 2008 R2
 - 1. Click Start and select Administrative Tools and then Server Manager.
 - 2. In the Server Manager hierarchy pane, expand Roles and click Web Server (IIS).
 - 3. In the Web Server (IIS) pane, scroll to the Role Services section, and then click Add Role Services.
 - 4. On the Select Role Services page, select Digest Authentication and then click Next.
 - 5. On the Confirm Installation Selections page, click Install.
 - 6. On the Results page, click Close.
 - 7. You can now enable digest authentication, see below.

b. Windows Server 2012 or Windows Server 2012 R2

- 1. On the taskbar, click Server Manager.
- 2. In Server Manager, click the Manage menu, and then click Add Roles and Features.
- 3. In the Add Roles and Features wizard, click Next. Select the installation type and click Next. Select the destination server and click Next.
- 4. On the Server Roles page, expand Web Server (IIS) | Web Server | Security and select Digest Authentication. Click Next.
- 5. On the **Select features** page, click **Next**.
- 6. On the Confirm installation selections page, click Install.
- 7. On the **Results** page, click **Close**.
- 8. You can now enable digest authentication, see below.

To enable Digest authentication:

- 1. Open Internet Information Services (IIS) Manager:
 - Windows Server 2012 or Windows Server 2012 R2:
 On the taskbar, click Server Manager. Click Tools and then click Internet Information Services (IIS) Manager.
 - Windows Server 2008 or Windows Server 2008 R2:
 On the taskbar, click Start. Select Administrative Tools and then click Internet Information Services
 (IIS) Manager.
- 2. In the **Connections** pane, expand the server name, expand **Sites**.
- 3. Click EWS.
- 4. Scroll to the **Security** section in the **Home** pane, and then double-click **Authentication**.
- 5. In the Authentication pane, select Anonymous Authentication and click Disable.
- 6. In the Authentication pane, select Digest Authentication, and click Enable.
- 7. Now proceed to creating the AvayaAdmin user account 384.

3.2 Create the AvayaAdmin User Account

Ensure that the user name of the new account that you create is **AvayaAdmin**. The batch file that automatically sets the rights to mine to the calendar details of the users configured on the Microsoft Exchange server only works for that user name.

To create AvayaAdmin user account on the Exchange server:

- 1. In the Microsoft Exchange server window, right click Mailbox.
- 2. Select New Mailbox.
- 3. Choose **User Mailbox** as the mailbox type. Click **Next**.
- 4. Select New User as the User Type.
- 5. Type the User Information such as **First name**, **Lastname**, **User Log on name (User Principal Name)**, and **Password**. Click **Next**.
- 6. Set the Mailbox Settings and type the alias details for the mailbox user. Click Next.
- 7. Click New, the system displays the configuration summary of the mailbox. Click Next.
- 8. Click Finish, the system creates the AvayaAdmin user account.

3.3 Configure the AvayaAdmin User Account

You must configure the **AvayaAdmin** user account such that its password never expires and a password change is not required upon next login.

To configure the AvayaAdmin user account:

- 1. After creating the AvayaAdmin Mailbox, launch the Active Directory Users and Computers application.
- 2. Click Users.
- 3. Double-click on the AvayaAdmin user.
- 4. Select the Account tab.
- 5. Check the **Password never expires** checkbox.
- 6. Uncheck the User must change password at next login checkbox.
- 7. Click OK.

3.4 Set Impersonations Rights for AvayaAdmin

A powershell script is used to configure the necessary impersonation rights for the **AvayaAdmin** user to mine the calendar details of the other users configured on the Microsoft Exchange Server. This script is provided with the one-X Portal for IP Office.

To download the powershell script:

- 1. Log in to the one-X Portal for IP Office administrator menus.
- 2. Click Configuration and select Exchange Service.
- 3. Right-click the **Download Powershell script** link.
- 4. Select **Save link as** and save the script file to a location under the primary drive *C*: The script cannot be run from other locations such as the desktop.

To set the impersonations rights for AvayaAdmin:

- 1. In the Exchange Server, go to **Start > Run**.
- Type powershell -noexit <drive>\avaya.ps1, where <drive> is the main drive where you saved the AvayaAdmin.ps1 batch file.
 - After the batch file is executed successfully the system displays: Permissions for mailbox AvayaAdmin updated successfully.
 - If you have not <u>created the AvayaAdmin user account</u> on the Microsoft Exchanger Server, the system displays: *Create mailbox AvayaAdmin and run this script again*.

Chapter 4. Desktop Client Group Policy Installation

4. Desktop Client Group Policy Installation

Normally, users install the portal desktop client used for one-X Portal Call Assistant and Avaya IP Office Plug-in by downloading the installer from their one-X Portal for IP Office. However, you can also centralize the installation of the desktop client by using a "group policy".

Group policy supports two methods of deploying a MSI package:

• Assign software

A program can be assigned for each user or for each machine. If the program is assigned for each user, the system installs the program when the user logs on to Windows. However, if the program is assigned for each machine then, the system installs the program for all users when the machine starts.

· Publish software

A program can be published for one or more users. The system adds this program to the *Add or Remove Programs* list and you can install the program from *Add or Remove Programs* list.

Prerequisite

Ensure that the .Net Framework 4.0, Microsoft Office 2007 PIA and Microsoft VSTO 2010 Runtime version 4.0 (10.0.40303 or later) are present on all remote machine.

The steps for deploying a Microsoft Installer (MSI) on multiple machines by using a group policy are as follows:

- 1. Creating a distribution point 40
- 2. Creating a Group Policy Object 40
- 3. Assigning an MSI package 41
- 4. Publishing an MSI package 41
- 5. Redeploying an MSI package 42
- 6. Removing an MSI package 42
- 7. Command to install Avaya IP Office Plug-in silently 42

4.1 Creating a distribution point

The first step in deploying a MSI using a Group Policy Object (GPO) is to create a distribution point on the publishing server.

To create a distribution point on the publishing server:

- 1. Log into the server as an Administrator.
- 2. Create a shared network folder.
- 3. Set permissions on this folder to allow access to the distribution package.
- 4. In the shared folder, perform an administrative install for a MSI package contained in an **.EXE** file.
 - Command line for administrative installation: AvayaOneXDesktopClients.exe /a

4.2 Creating a Group Policy Object

A MSI package is distributed using a GPO.

To create an object for your package:

- 1. Click Start and select Programs > Administrative Tools > Active Directory Users and Computers.
- 2. Right-click the domain name in the console tree and select Properties context.
- 3. Select **Group Policy** tab and click **New**.
- 4. Type the name of the policy. For example, *MyApplication*.
- 5. Click **Properties** and select **Security** tab.
- 6. Enable Apply Group Policy checkbox only for those groups to which you want to apply the policy.
- 7. Click **OK**.

4.3 Assigning an MSI package

You can assign a MSI package for each user or for each machine. Also, when you assign the package the system automatically installs the package.

To assign a package:

- 1. Click Start and select Programs > Administrative Tools > Active Directory Users and Computers.
- 2. Right-click the domain name in the console tree and select Properties context.
- 3. Select Group Policy tab
- 4. Select the object you want to edit and click Edit.
- 5. In Computer Configuration, go to Software Settings
- 6. Right-click Software Installation and select New
- 7. Click Package
- 8. Click Open
- 9. In the Open dialog type the full UNC path of the shared package you want to assign
 - **Note:** Do not browse to the UNC location in the Open dialog. Make sure that you type the UNC path to the shared package.
- 10. Click **Assigned** a then click **OK**. The system lists the package in the right pane of the **Group Policy** window.
- 11. Close the Group Policy window, and click OK
- 12. Close **Active Directory Users and Computers** window. When you start the client computer, the system automatically assigns the package.

4.4 Publishing an MSI package

Using Group Policy, you can publish a package so that users can install the package from Add or Remove programs list.

To publish a package:

- 1. Click Start and select Programs > Administrative Tools > Active Directory Users and Computers.
- 2. Right-click the domain name in the console tree and select Properties context.
- 3. Select Group Policy tab.
- 4. Select the object you want to edit and click Edit.
- 5. In Computer Configuration, go to Software Settings.
- 6. Right-click Software Installation and select New.
- 7. Click Package.
- 8. Click Open.
- 9. In **Open** dialog type the full UNC path of the shared package you want to publish.
 - **Note:** Do not browse to the UNC location in the **Open** dialog. Make sure that you type the UNC path to the shared package.
- 10. Click Publish and then click OK. The system lists the package in the right pane of the Group Policy window.
- 11. Close the Group Policy window, and click OK.
- 12. Close Active Directory Users and Computers window.

To check if the package is published:

- 1. Log into a client computer.
- 2. Click Start and go to Control Panel .
- Double-click Add or Remove Programs and select Add New Programs. The system lists the package in the Add or Remove Programs list.
- 4. Click Add to install the package.
- 5. Click OK and then click Close.

4.5 Redeploying an MSI package

Sometimes you may need to redeploy a package. For example, when you upgrade the system.

To redeploy an MSI package:

- 1. Click Start and select Programs > Administrative Tools > Active Directory Users and Computers.
- 2. Right-click the domain name in the console tree and select Properties context.
- 3. Select Group Policy tab.
- 4. Select the object you want to edit and click Edit.
- 5. In Computer Configuration, go to Software Settings.
- 6. Right-click Software Installation.
- 7. In the right pane of **Group Policy** window, right-click the package you want to redeploy.
- 8. Select All Tasks menu and click Redeploy application.
- 9. Click **Yes** to reinstall the application.
- 10. Close the Group Policy window, and click OK.
- 11. Close Active Directory Users and Computers window.

4.6 Removing an MSI package

To redeploy an MSI package:

- 1. Click Start. and select Programs > Administrative Tools > Active Directory Users and Computers.
- 2. Right-click the domain name in the console tree and select **Properties context**.
- 3. Select Group Policy tab.
- 4. Select the object you want to edit and click Edit.
- 5. In Computer Configuration, go to Software Settings.
- 6. Right-click Software Installation.
- 7. In the right pane of **Group Policy** window, right-click the package you want to redeploy.
- 8. Select All Tasks menu and click Remove.
- 9. Select one of the following options:
 - Immediately uninstall the software from users and computers.
 - Allow users to continue to use the software but prevent new installations.
- 10. Click OK.
- 11. Close the Group Policy window, and click OK.
- 12. Close Active Directory Users and Computers window.

4.7 Command to install Avaya IP Office Plug-in silently

You can install the Avaya IP Office Plug-in silently on a PC using the following command line options:

• Install only Call Assistant:

AvayaOneXDesktopClients.exe /s /v"/qn SECUREMODE=<1 or 0> PORT_NUMBER=<PORTNUMBER> ONEX_PORTAL_SERVER=<one-X Portal Server IP or FQDN> ADDLOCAL=callAssistant,ChangeARP"

Install only Outlook plug-in:

AvayaOneXDesktopClients.exe /s /v"/qn SECUREMODE=<1 or 0> PORT_NUMBER=<PORTNUMBER>
ONEX_PORTAL_SERVER=<one-X Portal Server IP or FQDN> ADDLOCAL=OutlookPlugin,ChangeARP"

• Install Both:

AvayaOneXDesktopClients.exe /s /v"/qn SECUREMODE=<1 or 0> PORT_NUMBER=<PORTNUMBER>
ONEX_PORTAL_SERVER=<one-X Portal Server IP or FQDN>"

Note: If the user does not want to provide value of one-X Portal server or port number then do not include those properties. Do not add a space before or after the "=" in property values. A SECUREMODE value other than 0 or 1 defaults to 0.

Chapter 5. Document History

5. Document History

Date	Issue	Change Summary		
12th August 2014	10a	Updates for IP Office Release 9.1.		
19th November 2014	10b	Initial released version for IP Office Release 9.1.		
17th April 2015	10c	Minor text layout fixes.		
13th August 2015	10d	Clarification of maximum user sessions support. [61352]		
14th January 2016	10e	Clarification of Windows Server 2012 R2 support. [104390]		
18th April 2016	10f	• Expansion of the details for silent plug-in installation 42.		
25th May 2016	10g	Clarification that Windows portal only supported with IP500 V2 systems.		
2nd June 2016	10h	Addition of missing JVM step in Configuration for 300+ Users 33 process.		
3rd June 2016	10i	Further correction to missing JVM step in Configuration for 300+ Users 33 process.		
21st September 2017	10j	• Correction to <u>user test page 31</u> , can't use local host IP address.		

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Template: 26th January 2016