



Administering Avaya Flare[®] Experience for iPad Devices

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Chapter 1: Introduction

About this guide

This guide describes server administration for Avaya Flare[®] Experience. In release 1.2, this document only contains iPad administration information. In future releases, Windows information will also be added to this document.

Product documentation

The following documents are available for Avaya Flare[®] Experience:

- *Administering Avaya Flare[®] Experience*, document number 18-604079 (for administrators). This document contains server administration information for Avaya Flare[®] Experience for iPad Devices. Administration information for other Avaya Flare[®] Experience products will be consolidated into this document in future releases.
- *Using Avaya Flare[®] Experience for iPad Devices*, document number 18-603943 (for end users). This document contains overview, installation, and feature usage information.
- *Using Avaya Flare[®] Experience for Windows*, document number 18-604158 (for end users). This document contains overview, installation, and feature usage information.

Avaya Mentor videos

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Go to <http://www.youtube.com/AvayaMentor> and perform one of the following actions:

- Enter a key word or key words in the Search Channel to search for a specific product or topic.
- Scroll down Playlists, and click the name of a topic to see the available list of videos posted on the site.

Support

Visit the Avaya Support website at <http://support.avaya.com> for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions, or request an agent to connect you to a support team if an issue requires additional expertise.

Chapter 2: Requirements

Server requirements

The Avaya Aura® server elements required to support Avaya Flare® Experience are listed below. For more information about products that interwork with Avaya Flare® Experience, see <http://support.avaya.com/CompatibilityMatrix/Index.aspx>.

- Avaya Aura® Session Manager Release 6.2 or 6.3.
You can configure more than one Session Manager server. If the primary server fails, Avaya Flare® Experience automatically fails over to the secondary Session Manager server to ensure service continuity for users.
- One of the following Avaya Aura® Communication Manager servers:
 - Avaya Aura® Communication Manager Feature or Evolution Server Release 6.3.1 (FP 2, SP 1) for encrypted audio and unencrypted video.
 - Avaya Aura® Communication Manager Feature or Evolution Server Release 6.3.2 (FP 3) for encrypted audio and encrypted video.
- Avaya Aura® System Manager Release 6.2 or 6.3.
- Avaya Aura® Conferencing Release 7.0 Service Pack 2 or later if you want to use the Conference (audio and video) and Web Collaboration features.
- Avaya Aura® Presence Services Release 6.1 Service Pack 2 or later if you want to use the presence and instant messaging features. To use the single sign-on feature, you must have Avaya Aura® Presence Services Release 6.2.2 Feature Pack 3 with SASL authentication configured.

 **Note:**

Avaya Flare® Experience users can send and receive instant messages with Microsoft Office Communicator 2007 R2 users and Microsoft Lync users. For more information about using Presence and IM with users of these Microsoft clients, see *Integrating Avaya Aura® Presence Services with Microsoft OCS*.

You can optionally use the Avaya Session Border Controller for Enterprise (Avaya SBCE) Release 6.2 or higher to provide a secure connection for the following Avaya Flare® Experience settings when users are working remotely and are not connected to the enterprise network.

- SIP-TLS to Avaya Aura® Session Manager and Avaya Aura® Presence Services for Presence functionality
- XMPP to Avaya Aura® Presence services for instant messaging functionality
- PPM over HTTPS to Avaya Aura® Session Manager
- LDAPS to LDAP server

If the Avaya Flare® Experience client is communicating with the Avaya SBCE, you should provision DNS entries for the Avaya Aura® Session Manager, Presence Server, and Enterprise Search (LDAP) server that resolve to the internal service IP addresses for internal DNS clients and resolve to the Avaya SBCE IP address for external DNS clients. By doing this, no configuration change is required for users that use the client both inside and outside your corporate network.

For information about installing the Avaya Avaya SBCE, see *Installing Avaya Session Border Controller for Enterprise*. For information about configuring the Avaya SBCE, see *Administering Avaya Session Border Controller for Enterprise*.

Related topics:

[Multiple Device Access requirements for Avaya Flare Experience for iPad Devices](#) on page 10
[Security](#) on page 10

Multiple Device Access requirements for Avaya Flare® Experience for iPad Devices

Avaya Flare® Experience for iPad Devices supports Multiple Device Access (MDA). This feature allows users to log in to multiple devices with the same extension, as well as answer and join point-to-point calls from multiple devices.

MDA requires the use of TLS endpoints. Users can log in to their extension with a TCP device, but a new incoming call will not ring on the TCP device and the user will not be able to join the call from that device.

For details on other MDA user limitations, see *Using Avaya Flare® Experience for iPad Devices* (18-603943).

Security

To provide a secure communication channel for voice and instant messaging sessions, Avaya Flare® Experience requires Transport Layer Security (TLS). Avaya Flare® Experience also supports SRTP for both video and audio with Avaya Aura® dependencies.

*** Note:**

- Avaya Flare[®] Experience does not currently support audio or video on Polycom SRTP devices.
- In Avaya Aura[®] Conferencing, you must ensure the Encrypt RTCP parameter is not selected to maintain SRTP on a conference call. When this parameter is selected, the SRTP call becomes an RTP call when the moderator adds participants into the conference.

The following table shows the ports that must be enabled for secure signalling on the Avaya Flare[®] Experience client.

Network firewall port matrix	
Destination	Port
Avaya Aura [®] Session Manager	5060 (SIP/TCP) or 5061 (SIP/TLS)
Avaya Aura [®] Presence Services (XMPP/TLS)	5223
Avaya Aura [®] Session Manager (PPM traffic)	80 and 443 (HTTP/SOAP)
Media Gateway	RTP/UDP port range (depends on ip-network-region)
Directory Server	389 (LDAP) or 636 (LDAPS)

Related topics:

[Server requirements](#) on page 9

Supported codecs

Avaya Flare[®] Experience supports the following audio codecs:

- G.711 A-law (PCM-A)
- G.711 U-law (PCM-U)
- G.722
- G.729a
- iSAC

Avaya Flare® Experience supports the following video codecs:

- H.264

For information on bandwidth requirement for different codecs, see the section **Codec Selection** in *Avaya IP Voice Quality Network Requirements* on the Avaya Web site at <http://www.avaya.com/support>.

DSCP values

The Avaya Flare® Experience client uses the following default DSCP values to mark packets to support network quality of service mechanisms:

- Audio: 46
- Video: 26

Related topics:

[Configuring the audio and video quality of service settings](#) on page 19

Supported LDAP directories for Avaya Flare® Experience for iPad Devices

Avaya Flare® Experience for iPad Devices supports LDAPv3 (both LDAP and secure LDAP) with Microsoft® Active Directory 2003 and 2008.

During an LDAP search, Avaya Flare® Experience for iPad Devices searches the following attributes:

- sn (surname/family name)
- givenName
- cn (common name)

After the search, the name is constructed using the sn and givenName.

If a user adds the contact to the Aura Contacts, and that contact is already an enterprise contact, the name will be overwritten by the localized display name in Avaya Aura® System Manager. When a user adds the contact from an enterprise search, the mail and telephone number attributes are used for determining whether the contact is added to Enterprise or Private in Aura Contacts. The homephone, mobile, and mail attributes for the added contact are displayed in the Contacts fan in the Avaya Flare® Experience for iPad Devices client.

Chapter 3: Network diagnostics and system configuration

Media quality on a consumer device like the Apple iPad is influenced heavily by the network in which the device is deployed as well as the deployed Avaya Aura[®] system configuration. The way in which the device is connected to the wireless network (for example, a cellular data connection with a virtual private network) can also influence media quality.

Network diagnostics

Avaya Flare[®] Experience for iPad Devices provides a call quality indicator to help you diagnose some of the issues that arise in wireless networks. By tapping and holding the Call Timer box for an active call in Avaya Flare[®] Experience for iPad Devices, you can view the audio and video statistics for the current session. You can use these statistics to determine the network conditions that may be affecting this session.

Packet loss

As you approach 1% packet loss, you may start to see visual artifacts (for example, see broken images) or hear audible artifacts. As you approach 2 to 3% packet loss, there will be consistent visual artifacts and audible artifacts.

Note:

Packet loss characteristics influence the occurrence of visual and audible artifacts. For example, a burst of lost packets will affect the media quality differently than an even distribution of lost packets.

Jitter

Jitter is caused when the packets that make up a media stream are not delivered at regular intervals to the endpoint. The effects of jitter are cancelled by buffering for the most part, but buffering causes delay. Delay, or latency, has a noticeable effect on lip synchronization between the audio and video feed for the user. Lip synchronization issues will occur when the delay exceeds 100 ms.

Generally speaking, the statistics described above are strongly influenced by network and network engineering issues. If you find the values of the impairments exceeding the limits listed above, you may need to contact your network administrator for more diagnostic information to solve any network implementation issues.

Avaya Aura[®] Configuration

The Avaya Aura[®] solution enables the administrator to configure the maximum bandwidth permitted on a per-user basis. The Avaya Flare[®] Experience client video encoders will adjust to fit within the bandwidth “envelope” provided by the network, but the resulting video quality is influenced heavily by the amount of bandwidth available. If there is more bandwidth available, the resulting video quality for the user will be better. Network engineers should also confirm that the appropriate classes of service for the network have been defined and that the correct DSCP mark is set for media in the Avaya Aura[®] configuration.

For Avaya Aura® Conferencing 7.0 Service Pack 2 or later, each user is assigned a specific profile for video, which enables different classes of resolution. These profiles can be provisioned to be 180p or 360p, but the profiles can be provisioned only at the conferencing server – not at the client device.

If you have good quality video, but you are dissatisfied with the resolution, you should check the provisioning at your endpoint to confirm that adequate bandwidth and the correct profile have been assigned to your endpoint. To determine the resolution you are receiving on the Avaya Flare® Experience client, check the call statistics for the resolution as well as the frames per second provided.

Virtual Private Networks (VPNs)

Virtual private networks provide a significant challenge to high-quality video because as a security measure the VPN assigns video packets the same priority it does all other packets. This method prevents malicious users from differentiating certain classes of traffic that could lead to targeted attacks on clients. VPNs effectively negate network engineering for differentiated service and also introduce additional delay, which can be problematic for media packets that depend on timely receipt of all video packets for subjectively good quality.

To ensure a better overall experience, the Avaya Flare® Experience client will drop to a lower frame rate of 15 frames per second (fps) from 30 fps when a VPN is detected, enabling the video encoder to create a more robust bit stream and making calls over the VPN more reliable. This reduction of the frame rate allows users to remotely connect through the network and maintain a quality media experience. Note that this detection and optimization does not apply when connecting through a network element like a Session Border Controller (SBC).

Troubleshooting Logs

When troubleshooting issues, it may become necessary to report logs to your support organization. Logging for the Avaya Flare® Experience client includes media quality statistics that record information about network performance for analysis by support teams. To enable these logs, you must enable the **Verbose Logging** option in the Settings dialog box. These logs can assist support teams in diagnosing media issues due to network performance.

To send log files, under **Settings**, select **Support Information > Send Logs**.

Chapter 4: Configuring Avaya Aura[®] Communication Manager settings

Use the Avaya Aura[®] System Manager administration interface to modify the Avaya Aura[®] Communication Manager settings. For information about configuring Avaya Aura[®] Communication Manager, see *Administering Avaya Aura[®] Communication Manager* (03-300509).

Perform the following steps:

- For the Communication Manager signaling group associated with Avaya Session Manager, under IP network regions, set:
 - **Transport Method** to **tls**.
 - **Enforce SIPS URI for SRTP** to **y**.
 - **Initial IP-IP Direct Media** to **y**.
- For trunk signaling with the PRI line, under Trunk Parameters, set **Disconnect Supervision - Out** to **y**. If this field is not set, some point-to-point call transfers will not work properly.
- On page 19 of System Parameters – Features, set **SIP Endpoint Managed Transfer** to **y**.
- To support secure calls, set the following additional parameters:
 - Under System Parameters – Features, set **Initial INVITE with SDP for secure calls?** to **y**.
 - Under System Parameters — Customer Options, set **Media Encryption Over IP?** to **y**.
 - Under IP Codec Set, in the Media Encryption section, set 1 to **1-srtp-aescm128-hmac80**, 2 to **2-srtp-aescm128-hmac32**, and 3 to **none**.

You must also configure Avaya Aura[®] endpoints for Avaya Flare[®] Experience. The following list describes the minimum configuration you must perform on the Endpoints page to use Avaya Flare[®] Experience features.

- Enable **IP SoftPhone**.
- Enable **IP Video SoftPhone**. For video calls, Avaya Flare[®] Experience for iPad Devices supports a maximum resolution and frame rate of 352 x 288 pixels @ 30 fps.
- If a bridged line appearance is configured for the extension, enable **Bridged Call Alerting** to alert the Avaya Flare[®] Experience client when a call arrives at the main extension to which the Avaya Flare[®] Experience client is bridged.
- Configure eight call appearances to provide support for merging active calls.

Configuring Avaya Aura® Communication Manager settings

Depending on your system configuration, you may need to perform additional configuration steps on the Avaya Aura® Communication Manager Endpoints page.

Chapter 5: Configuring user accounts in Avaya Aura® Session Manager

Use the Avaya Aura® System Manager administration interface to access Avaya Aura® Session Manager. You can add or modify user profiles through Avaya Aura® Session Manager. For detailed information about user profiles, see *Administering Avaya Aura® Session Manager*.

Avaya Flare® Experience supports only SIP endpoints. H.323 endpoints are not supported. For each Avaya Flare® Experience extension, set the following settings on the User Profile page:

- Set an **Avaya SIP** communication address. If you have E.164 numbers in your enterprise directory, you may also set an **Avaya E.164** communication address for the extension.
- Set **Origination Application Sequence** to the Communication Manager server.
- Set **Termination Application Sequence** to the Communication Manager server.
- Set Template to any 96x1 SIP template.
- In the **Max. Simultaneous Devices** and **Block New Registration When Maximum Registrations Active?** fields, specify the requirement for simultaneous device registrations. Avaya Flare® Experience for iPad Devices currently supports Multiple Device Access (MDA).
- Enable **Conferencing Profile** and configure the settings for the user's Avaya Aura® Conferencing profile. See *Deploying Avaya Aura® Conferencing* for information about configuring Avaya Aura® conferencing. You must configure Avaya Aura® conferencing to use the conferencing feature in Avaya Flare® Experience.

Chapter 6: Configuring the audio and video quality of service settings

About this task

Use the Avaya Aura® System Manager administration interface to configure the audio and video quality of server (QoS) settings. For more information, see *Installing and Configuring Avaya Aura® Session Manager* on the Avaya Web site at <http://www.avaya.com/support>.

Procedure

1. Log in to Avaya Aura® System Manager.
 2. Select **Elements > Session Manager**.
 3. In the navigation pane, select **Device and Location Configuration > Device Settings Groups**.
 4. On the Device Settings Groups page, select the appropriate group (for example, default group, a terminal group, or a location group), and click **Edit**.
 5. On the Device Settings Group page, click the right-arrow for **DIFFSERV/QOS Parameters**.
 6. Configure the PHB values.
 7. Click **Save**.
 8. In the navigation pane, select **Device and Location Configuration > Location Settings**.
 9. On the Location Settings page, select the device settings group you modified in Steps 4 through 6 from the Device Setting Group drop-down list box for each appropriate location.
 10. When finished, click **Save**.
-

Chapter 7: Configuring automatic service discovery for Avaya Flare[®] Experience

You can configure automatic service discovery on the iPad client so users do not have to configure the client Settings manually. Users will simply have to enter a URL or email address and the client settings will automatically be configured.

The following checklist describes the tasks you must perform to configure automatic service discovery for the enterprise.

Task	Notes	✓
Create a Settings Configuration file with the settings information for the enterprise.	Save your Settings Configuration file to an enterprise web server. If the web server for your enterprise uses a secure <code>https</code> connection, make sure there is a security certificate available for users to install on their iPad.	
Configure your DNS server with three DNS records	Set up of the DNS server varies for each enterprise. However, three standard DNS records must be created to link the enterprise's DNS server to the Settings Configuration file. * Note: DNS set up is only required if an email address will be used for automatic service discovery. DNS is not required if a standard web address will be used.	

Creating the Settings Configuration file

Create a Settings Configuration file in the JSON or Avaya settings text file (46xxsettings.txt) formats with the Avaya Flare[®] Experience client Settings for the enterprise.

Description of elements

The following table describes the main element strings for the file.

Element	Description																		
userid (JSON name) SSOUSERID (Avaya settings text file name)	Account user ID. There are no other values associated with this element.																		
sso	<p>Single sign-on or unified log in configuration that allows users to log in to the Avaya Flare® Experience client and access all features with the same login. The following values are associated with this element.</p> <table border="1" data-bbox="402 554 1365 890"> <thead> <tr> <th data-bbox="402 554 613 659">JSON value name</th> <th data-bbox="617 554 846 659">Avaya settings text file value name</th> <th data-bbox="849 554 1365 659">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 663 613 806">enabled</td> <td data-bbox="617 663 846 806">SSOENABLED</td> <td data-bbox="849 663 1365 806">Indicates whether single sign-on (SSO) is enabled. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.</td> </tr> <tr> <td data-bbox="402 810 613 890">realm-mapper</td> <td data-bbox="617 810 846 890">SSOREALMMA PPERADDRESS</td> <td data-bbox="849 810 1365 890">Link to the Realm Mapper service.</td> </tr> </tbody> </table>	JSON value name	Avaya settings text file value name	Description of value	enabled	SSOENABLED	Indicates whether single sign-on (SSO) is enabled. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.	realm-mapper	SSOREALMMA PPERADDRESS	Link to the Realm Mapper service.									
JSON value name	Avaya settings text file value name	Description of value																	
enabled	SSOENABLED	Indicates whether single sign-on (SSO) is enabled. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.																	
realm-mapper	SSOREALMMA PPERADDRESS	Link to the Realm Mapper service.																	
signaling	<p>Voice over IP (VoIP) server configuration. The following values are associated with this element:</p> <table border="1" data-bbox="402 1024 1365 1751"> <thead> <tr> <th data-bbox="402 1024 613 1129">JSON value name</th> <th data-bbox="617 1024 846 1129">Avaya settings text file value name</th> <th data-bbox="849 1024 1365 1129">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 1134 613 1247">use-sso</td> <td data-bbox="617 1134 846 1247">SIPSSO</td> <td data-bbox="849 1134 1365 1247">Indicates whether SSO is being used. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.</td> </tr> <tr> <td data-bbox="402 1251 613 1394">address</td> <td data-bbox="617 1251 846 1394">SIPPROXYSRV R</td> <td data-bbox="849 1251 1365 1394">IP address or fully qualified domain name (FQDN) of the VoIP server. An example is 135.20.246.20 (IP address) or sip.gsc.avaya.com (FQDN).</td> </tr> <tr> <td data-bbox="402 1398 613 1512">port</td> <td data-bbox="617 1398 846 1512">SIPPORT</td> <td data-bbox="849 1398 1365 1512">VoIP server port. The default port numbers are 5060 for TCP and 5061 for TLS.</td> </tr> <tr> <td data-bbox="402 1516 613 1600">domain</td> <td data-bbox="617 1516 846 1600">SIPDOMAIN</td> <td data-bbox="849 1516 1365 1600">Domain for transmitting VoIP data. An example is example.com.</td> </tr> <tr> <td data-bbox="402 1604 613 1751">use-ssl</td> <td data-bbox="617 1604 846 1751">SIPSECURE</td> <td data-bbox="849 1604 1365 1751">Indicates whether TLS is enabled for SIP signalling. Enter 1 to indicate that TLS is enabled, and 0 to indicate that TLS is disabled.</td> </tr> </tbody> </table>	JSON value name	Avaya settings text file value name	Description of value	use-sso	SIPSSO	Indicates whether SSO is being used. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.	address	SIPPROXYSRV R	IP address or fully qualified domain name (FQDN) of the VoIP server. An example is 135.20.246.20 (IP address) or sip.gsc.avaya.com (FQDN).	port	SIPPORT	VoIP server port. The default port numbers are 5060 for TCP and 5061 for TLS.	domain	SIPDOMAIN	Domain for transmitting VoIP data. An example is example.com.	use-ssl	SIPSECURE	Indicates whether TLS is enabled for SIP signalling. Enter 1 to indicate that TLS is enabled, and 0 to indicate that TLS is disabled.
JSON value name	Avaya settings text file value name	Description of value																	
use-sso	SIPSSO	Indicates whether SSO is being used. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.																	
address	SIPPROXYSRV R	IP address or fully qualified domain name (FQDN) of the VoIP server. An example is 135.20.246.20 (IP address) or sip.gsc.avaya.com (FQDN).																	
port	SIPPORT	VoIP server port. The default port numbers are 5060 for TCP and 5061 for TLS.																	
domain	SIPDOMAIN	Domain for transmitting VoIP data. An example is example.com.																	
use-ssl	SIPSECURE	Indicates whether TLS is enabled for SIP signalling. Enter 1 to indicate that TLS is enabled, and 0 to indicate that TLS is disabled.																	
conference	Conference configuration.																		

Element	Description											
	<p>The following values are associated with this element:</p> <table border="1" data-bbox="402 306 1365 615"> <thead> <tr> <th data-bbox="402 306 613 411">JSON value name</th> <th data-bbox="617 306 846 411">Avaya settings text file value name</th> <th data-bbox="849 306 1365 411">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 415 613 527">enabled</td> <td data-bbox="617 415 846 527">CONFERENCEENABLED</td> <td data-bbox="849 415 1365 527">Indicates whether Conferencing is enabled. Enter 1 for enabled, and 0 for disabled.</td> </tr> <tr> <td data-bbox="402 531 613 615">address</td> <td data-bbox="617 531 846 615">CONFERENCE_FACTORY_URI</td> <td data-bbox="849 531 1365 615">Adhoc conference URL (for example, 60397@example.com)</td> </tr> </tbody> </table>			JSON value name	Avaya settings text file value name	Description of value	enabled	CONFERENCEENABLED	Indicates whether Conferencing is enabled. Enter 1 for enabled, and 0 for disabled.	address	CONFERENCE_FACTORY_URI	Adhoc conference URL (for example, 60397@example.com)
JSON value name	Avaya settings text file value name	Description of value										
enabled	CONFERENCEENABLED	Indicates whether Conferencing is enabled. Enter 1 for enabled, and 0 for disabled.										
address	CONFERENCE_FACTORY_URI	Adhoc conference URL (for example, 60397@example.com)										
support	<p>E-mail support configuration. The following values are associated with this element:</p> <table border="1" data-bbox="402 747 1365 940"> <thead> <tr> <th data-bbox="402 747 613 852">JSON value name</th> <th data-bbox="617 747 846 852">Avaya settings text file value name</th> <th data-bbox="849 747 1365 852">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 856 613 940">email</td> <td data-bbox="617 856 846 940">SUPPORTEMAIL</td> <td data-bbox="849 856 1365 940">Defines the default e-mail address for sending diagnostic logs.</td> </tr> </tbody> </table>			JSON value name	Avaya settings text file value name	Description of value	email	SUPPORTEMAIL	Defines the default e-mail address for sending diagnostic logs.			
JSON value name	Avaya settings text file value name	Description of value										
email	SUPPORTEMAIL	Defines the default e-mail address for sending diagnostic logs.										
presence	<p>Presence server configuration The following values are associated with this element:</p> <table border="1" data-bbox="402 1073 1365 1388"> <thead> <tr> <th data-bbox="402 1073 613 1178">JSON value name</th> <th data-bbox="617 1073 846 1178">Avaya settings text file value name</th> <th data-bbox="849 1073 1365 1178">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 1182 613 1266">enabled</td> <td data-bbox="617 1182 846 1266">PRESENCEENABLED</td> <td data-bbox="849 1182 1365 1266">Indicates whether Presence is enabled. Enter 1 for enabled, and 0 for disabled.</td> </tr> <tr> <td data-bbox="402 1270 613 1388">address</td> <td data-bbox="617 1270 846 1388">PRESENCE_SERVER</td> <td data-bbox="849 1270 1365 1388">Address for presence server (for example, 135.20.246.11 or presence.gsc.avaya.com)</td> </tr> </tbody> </table>			JSON value name	Avaya settings text file value name	Description of value	enabled	PRESENCEENABLED	Indicates whether Presence is enabled. Enter 1 for enabled, and 0 for disabled.	address	PRESENCE_SERVER	Address for presence server (for example, 135.20.246.11 or presence.gsc.avaya.com)
JSON value name	Avaya settings text file value name	Description of value										
enabled	PRESENCEENABLED	Indicates whether Presence is enabled. Enter 1 for enabled, and 0 for disabled.										
address	PRESENCE_SERVER	Address for presence server (for example, 135.20.246.11 or presence.gsc.avaya.com)										
video	<p>Video server configuration The following values are associated with this element:</p> <table border="1" data-bbox="402 1520 1365 1713"> <thead> <tr> <th data-bbox="402 1520 613 1625">JSON value name</th> <th data-bbox="617 1520 846 1625">Avaya settings text file value name</th> <th data-bbox="849 1520 1365 1625">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 1629 613 1713">enabled</td> <td data-bbox="617 1629 846 1713">VIDEOENABLED</td> <td data-bbox="849 1629 1365 1713">Indicates whether video is enabled. Enter 1 for enabled, and 0 for disabled.</td> </tr> </tbody> </table>			JSON value name	Avaya settings text file value name	Description of value	enabled	VIDEOENABLED	Indicates whether video is enabled. Enter 1 for enabled, and 0 for disabled.			
JSON value name	Avaya settings text file value name	Description of value										
enabled	VIDEOENABLED	Indicates whether video is enabled. Enter 1 for enabled, and 0 for disabled.										
dialing-rules	<p>Dialing rules configuration The following values are associated with this element:</p>											

Element	Description																																			
	<table border="1"> <thead> <tr> <th data-bbox="402 268 613 373">JSON value name</th> <th data-bbox="618 268 846 373">Avaya settings text file value name</th> <th data-bbox="850 268 1360 373">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 380 613 485">enabled</td> <td data-bbox="618 380 846 485">ENHDIALSTAT</td> <td data-bbox="850 380 1360 485">Indicates whether dialing rules are enabled. Enter 1 for enabled, and 0 for disabled.</td> </tr> <tr> <td data-bbox="402 491 613 596">outside-line</td> <td data-bbox="618 491 846 596">PHNOL</td> <td data-bbox="850 491 1360 596">Number to dial to access an external line. This value is generally set to 9 or is empty.</td> </tr> <tr> <td data-bbox="402 602 613 655">country</td> <td data-bbox="618 602 846 655">PHNCC</td> <td data-bbox="850 602 1360 655">Country code.</td> </tr> <tr> <td data-bbox="402 661 613 714">area</td> <td data-bbox="618 661 846 714">SP_AC</td> <td data-bbox="850 661 1360 714">Area code</td> </tr> <tr> <td data-bbox="402 720 613 783">pbx-main-prefix</td> <td data-bbox="618 720 846 783">PHNPBXMAINPREFIX</td> <td data-bbox="850 720 1360 783">The PBX main prefix for your telephone number. An example is 538.</td> </tr> <tr> <td data-bbox="402 789 613 873">long-distance</td> <td data-bbox="618 789 846 873">PHNLD</td> <td data-bbox="850 789 1360 873">Number to dial when making a long distance call within the same country.</td> </tr> <tr> <td data-bbox="402 879 613 953">international-call</td> <td data-bbox="618 879 846 953">PHNIC</td> <td data-bbox="850 879 1360 953">Number to dial when making an international call.</td> </tr> <tr> <td data-bbox="402 959 613 1064">internal-extension-length</td> <td data-bbox="618 959 846 1064">PHNDPLENGTH</td> <td data-bbox="850 959 1360 1064">Length of internal extensions.</td> </tr> <tr> <td data-bbox="402 1071 613 1155">national-number-length</td> <td data-bbox="618 1071 846 1155">PHNLDLENGTH</td> <td data-bbox="850 1071 1360 1155">Length of phone numbers within the country (national phone numbers).</td> </tr> <tr> <td data-bbox="402 1161 613 1266">remove-area-code</td> <td data-bbox="618 1161 846 1266">PHNREMOVEAREACODE</td> <td data-bbox="850 1161 1360 1266">Indicates whether the area code should be removed for local calls. Enter 1 for true, and 0 for false.</td> </tr> </tbody> </table>			JSON value name	Avaya settings text file value name	Description of value	enabled	ENHDIALSTAT	Indicates whether dialing rules are enabled. Enter 1 for enabled, and 0 for disabled.	outside-line	PHNOL	Number to dial to access an external line. This value is generally set to 9 or is empty.	country	PHNCC	Country code.	area	SP_AC	Area code	pbx-main-prefix	PHNPBXMAINPREFIX	The PBX main prefix for your telephone number. An example is 538.	long-distance	PHNLD	Number to dial when making a long distance call within the same country.	international-call	PHNIC	Number to dial when making an international call.	internal-extension-length	PHNDPLENGTH	Length of internal extensions.	national-number-length	PHNLDLENGTH	Length of phone numbers within the country (national phone numbers).	remove-area-code	PHNREMOVEAREACODE	Indicates whether the area code should be removed for local calls. Enter 1 for true, and 0 for false.
JSON value name	Avaya settings text file value name	Description of value																																		
enabled	ENHDIALSTAT	Indicates whether dialing rules are enabled. Enter 1 for enabled, and 0 for disabled.																																		
outside-line	PHNOL	Number to dial to access an external line. This value is generally set to 9 or is empty.																																		
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national-number-length	PHNLDLENGTH	Length of phone numbers within the country (national phone numbers).																																		
remove-area-code	PHNREMOVEAREACODE	Indicates whether the area code should be removed for local calls. Enter 1 for true, and 0 for false.																																		
ldap	<p>Enterprise search or LDAP configuration</p> <p>The following values are associated with this element:</p> <table border="1"> <thead> <tr> <th data-bbox="402 1402 613 1507">JSON value name</th> <th data-bbox="618 1402 846 1507">Avaya settings text file value name</th> <th data-bbox="850 1402 1360 1507">Description of value</th> </tr> </thead> <tbody> <tr> <td data-bbox="402 1514 613 1619">use-ss0</td> <td data-bbox="618 1514 846 1619">DIRSSO</td> <td data-bbox="850 1514 1360 1619">Indicates whether SSO is being used. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.</td> </tr> <tr> <td data-bbox="402 1625 613 1709">enabled</td> <td data-bbox="618 1625 846 1709">DIREENABLED</td> <td data-bbox="850 1625 1360 1709">Indicates whether LDAP is enabled. Enter 1 for enabled, and 0 for disabled.</td> </tr> <tr> <td data-bbox="402 1715 613 1789">server</td> <td data-bbox="618 1715 846 1789">DIRSRVR</td> <td data-bbox="850 1715 1360 1789">IP address or fully qualified domain name (FQDN) of the LDAP server. An example</td> </tr> </tbody> </table>			JSON value name	Avaya settings text file value name	Description of value	use-ss0	DIRSSO	Indicates whether SSO is being used. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.	enabled	DIREENABLED	Indicates whether LDAP is enabled. Enter 1 for enabled, and 0 for disabled.	server	DIRSRVR	IP address or fully qualified domain name (FQDN) of the LDAP server. An example																					
JSON value name	Avaya settings text file value name	Description of value																																		
use-ss0	DIRSSO	Indicates whether SSO is being used. Enter 1 to indicate that SSO is enabled, and 0 to indicate that SSO is disabled.																																		
enabled	DIREENABLED	Indicates whether LDAP is enabled. Enter 1 for enabled, and 0 for disabled.																																		
server	DIRSRVR	IP address or fully qualified domain name (FQDN) of the LDAP server. An example																																		

Element	Description		
	JSON value name	Avaya settings text file value name	Description of value
			is 135.20.246.111 (IP address) or ldap.gsc.avaya.com (FQDN).
	username	DIRUSERNAME	LDAP authentication user name.
	password	DIRPASSWORD	LDAP authentication password.
	search-root	DIRTOPDN	LDAP search root. An example is ou=global users,dc=global,dc=example,dc=com.
	use-ssl	DIRSECURE	Indicates whether TLS is enabled. Enter 1 to indicate that TLS is enabled, and 0 to indicate that TLS is disabled and TCP is used.

Examples of the Settings Configuration file

JSON format example

The following example shows the Settings Configuration file in the JSON format and the types of values that can be used for each string and sub-string.

```
{ "accounts":
  "userid": "",
  "sso": {
    "enabled": "1",
    "realm-mapper": "ide.example.com/getCredentials"
  },
  "signaling": {
    "address": "sipserver.example.com",
    "port": "5061",
    "use-ssl": "1",
    "domain": "example.com",
    "use-sso": "1",
    "username": ""
  },
  "conference": {
    "enabled": "1",
    "address": "22111@example.com"
  },
  "presence": {
    "enabled": "1",
    "address": "server.presence.example.com",
  },
  "video": {
    "enabled": "1"
  },
  "ldap": {
    "enabled": "1",
```

```
    "server": "ldapserver.example.com",
    "use-sso": "1",
    "username": "",
    "password": "",
    "search-root": "dc=global,dc=example,dc=com",
    "use-ssl": "1"
  },
  "dialing-rules": {
    "enabled": "0",
    "outside-line": "9",
    "country": "1",
    "area": "613",
    "long-distance": "1",
    "international-call": "011",
    "internal-extension-length": "7",
    "national-number-length": "10",
    "remove-area-code": "1"
  },
  "support": {
    "email": "support@example.com"
  }
}
```

Avaya settings text file format

The following example shows the Settings Configuration file in the Avaya settings text file (46xxsettings.txt) format and the types of values that can be used for each string and substring.

```
## SSO
SET SSOUSERID ""
SET SSOENABLED "1"
SET SSOREALMMAPPERADDRESS "ide.example.com/getCredentials"

## Signaling
SET SIPSSO "1"
SET SIPUSERNAME ""
SET SIPPROXYSRVR "sipserver.example.com "
SET SIPPORT ""
SET SIPDOMAIN "example.com "
SET SIPSECURE "1"

## Conference
SET CONFERENCEENABLED "1"
SET CONFERENCE_FACTORY_URI "22111@example.com"

## Presence
SET PRESENCEENABLED "1"
SET PRESENCE_SERVER "server.presence.example.com"

## Video
SET VIDEOENABLED "1"

## LDAP
SET DIREENABLED "1"
SET DIRSRVR "ldapserver.example.com "
SET DIRSSO "1"
SET DIRUSERNAME ""
SET DIRPASSWORD ""
SET DIRTOPDN "dc=global,dc=example,dc=com"
SET DIRSECURE "1"

## Dialing Rules
SET ENHDIALSTAT "1"
SET PHNOL "9"
```

```

SET PHNCC "1"
SET SP_AC "613"
SET PHNPBXMAINPREFIX ""
SET PHNLD "1"
SET PHNIC "011"
SET PHNDPLENGTH "7"
SET PHNLDLENGTH "10"
SET PHNREMOVEAREACODE "1"

## Support
SET SUPPORTEMAIL "support@example.com"

```

Setting up the DNS server

For users to use automatic service discovery, you must create records on your enterprise's DNS server to link your DNS server to the Settings Configuration file.

Note:

DNS set up is only required if an email address will be used for automatic service discovery. DNS is not required if a standard web address will be used.

Before you begin

- You must create the Settings Configuration file. For more information, see [Creating the Settings Configuration file](#) on page 21.
- Configure a web server and save the Settings Configuration file to that web server. You will need to know the URL to the file on the web server for this procedure.
- If your web server uses a secure `https` connection, create a security certificate for users to install on their iPad.
- Select a descriptive name for your settings file that will work with the limits of your enterprise's DNS server. Some DNS servers have restrictions on the characters that can be used in names.
- Set the following information based on your DNS server policy:
 - SRV and TXT record time-to-live period in seconds (for example, 300).
During this time, client or intermediate servers may cache the retrieved record. Generally, the SRV and TXT record time-to-live periods share the same value.
 - Web server port number (for example, 0).
 - SRV record priority (for example, 0).
 - SRV record weight (for example, 0).

Procedure

1. Create a PTR record linking the descriptive name of your Settings Configuration file to your enterprise's domain.

- a. Make sure the PTR record is named `_avaya-ep-config._tcp.<domain>`.
- b. Use the descriptive name for the Settings Configuration file as the target of the PTR record: `<Descriptive name>.avaya-ep-config._tcp.<domain>`.

The following is an example of a PTR record:

```
_avaya-ep-config._tcp.example.com. PTR Production._avaya-ep-config._tcp.example.com
```

2. Create an SRV record linking the descriptive name of your Settings Configuration file to the web server where the file resides.

If the URL to the Settings Configuration file is `https://server.example.com/settings.json`, then the server name is `server.example.com`.

An SRV record also includes the following information:

- SRV "time to live" period in seconds during which the client or intermediate servers may cache the retrieved record.

The following is an example of an SRV record:

```
Production._avaya-ep-config._tcp.example.com. 300 IN SRV 0 0 0 server.example.com
```

In this example:

- 300 is the time-to-live period
- The three zeros are the priority, weight, and port number.

3. Create a TXT record linking the descriptive name of your Settings Configuration file to the remaining URL information.

TXT records are provisioned differently depending on the DNS server. However, all TXT records must have the three parameters described in the following table.

Key	Description	Value
txtvers	The text version of the TXT record. This value indicates the structure version of the record.	The value must always be set to 1.
path	The path to the Settings Configuration file.	An example value is: <code>/settings.json</code> .
proto	Web server access scheme	This value is generally <code>http</code> or <code>https</code>

The following is an example of a TXT record:

```
Production._avaya-ep-config._tcp.example.com. 300 IN TXT "txtvers=1" "proto=https" "path=/settings.json"
```

In this example, 300 is the time-to-live period

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