



Avaya Communication Server 1000 Presence Services with Communication Server 1000

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Chapter 1: New in this release

The following sections detail what is new in the *Presence Services with Communication Server 1000, NN43001-141*. for Avaya Communication Server 1000 Release 7.6.

- [Features](#) on page 7
- [Other changes](#) on page 7

Features

There were no feature changes made to this document for Release 7.6.

Other changes

See the following section for information about changes that are not feature-related.

Revision History

December 2015	Standard 04.02. This document is up-issued to remove several references to vxShell to support Avaya Communication Server 1000 Release 7.6.
March 2013	Standard 04.01. This document is up-issued to support Avaya Communication Server 1000 Release 7.6.
April 2012	Standard 03.03. This document is up-issued to add details needed for Presence services for Avaya Communication Server 1000 Release 7.5.
December 2011	Standard 03.02. This document is up-issued to support Communication Server 1000 Release 7.5. A note is added in chapter Installation and Commissioning to indicate that a presence account is required for each Presence Publisher user.
December 2011	Standard 03.01. This document is up-issued to support Communication Server 1000 Release 7.5 and reflects changes in technical content for Appendix A, Adding a Subscriber, XMPP message traces and Personal Agent, IM and Presence server commands, and the Overlay commands section.

Table continues...

New in this release

June 2010	Standard 02.01. This document is up-issued to address content changes to the Avaya Communication Server 1000 IM and Presence Web Tool for Communication Server 1000 Release 7.0.
November 2009	Standard 01.03. This document is up-issued to address content changes to the Communication Server 1000 IM and Presence Web Tool chapter, graphics, and to address adding profile information through Subscriber Manager.
October 2009	Standard 01.02. This document is up-issued to address content changes to the Communication Server 1000 IM and Presence Web Tool chapter, graphics, and provide additional procedural information.
October 2009	Standard 01.01 This document is released to support the Instant Messaging and Presence Services for Communication Server 1000 Release 6.0.

Chapter 2: Customer service

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Navigation

- [Getting technical documentation](#) on page 9
- [Getting product training](#) on page 9
- [Getting help from a distributor or reseller](#) on page 9
- [Getting technical support from the Avaya Web site](#) on page 10

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Chapter 3: Introduction

This document is a global document. Contact your system supplier or your Avaya representative to verify that the hardware and software described are supported in your area.

Related links

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[Subject](#) on page 11

[Technical documentation](#) on page 12

Navigation

This document contains the following chapters.

- [Introduction](#) on page 11
- [Fundamentals](#) on page 13
- [Planning and Engineering](#) on page 16
- [Installation and Commissioning](#) on page 18
- [Migration of CS 1000 7.5 and later IM and Presence to System Manager](#) on page 27
- [Maintenance](#) on page 29
- [IM and Presence user information](#) on page 34
- [Avaya one-X Communicator CS 1000 client configuration](#) on page 37
- [Troubleshooting](#) on page 52
- [Overlay commands](#) on page 59

Related links

[Introduction](#) on page 11

Subject

This document supports the Instant Messaging (IM) and Presence Services to the Avaya Communication Server 1000 (CS 1000). The Avaya CS 1000 IM and Presence Services provides

IM capability and phone presence information for all CS 1000 users. Only CS 1000 one-X Communicator users can view presence information and exchange instant messages.

*** Note:**

- On systems where System Manager is available, the term UCM in the documentation refers to UCM in System Manager. On systems where System Manager is not available, the term UCM in the documentation remains unchanged.
- There is no Subscriber Manager in System Manager 6.2. On systems where System Manager is not available, the term Subscriber Manager in the documentation remains unchanged.

Related links

[Introduction](#) on page 11

Technical documentation

The following technical documents are referenced in this document:

- *Avaya Subscriber Manager Fundamentals, NN43001-120*
- *Avaya Unified Communications Management, NN43001-116*
- *Avaya Linux Platform Base and Applications Installation and Commissioning, NN43001-315*
- *Avaya Signaling Server IP Line Applications Fundamentals, NN43001-125*
- *Avaya Element Manager System Reference - Administration, NN43001-632*
- *Avaya SIP Line Fundamentals, NN43001-508*
- *Avaya Software Input Output Reference — Maintenance, NN43001-711*
- *Overview and Planning for Avaya one-X[®] Communicator for CS 1000 (for administrator)*
- *Administering Avaya one-X[®] Communicator for CS 1000 (for administrator)*
- *Implementing Avaya one-X[®] Communicator for CS 1000 (for user)*
- *Using Avaya one-X[®] Communicator for CS 1000 (for user)*
- *Administering Avaya Aura[®] System Manager*

Related links

[Introduction](#) on page 11

Chapter 4: Fundamentals

This chapter explains the concepts that are necessary to understand for implementation of the IM and Presence Services.

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- [Deployment model](#) on page 13
- [System component description](#) on page 14
- [Supported IM and Presence clients](#) on page 15
- [Supported telephony Publishing Presence clients](#) on page 15

Deployment model

The following diagram shows the system components and architecture used to support the IM and Presence Services.

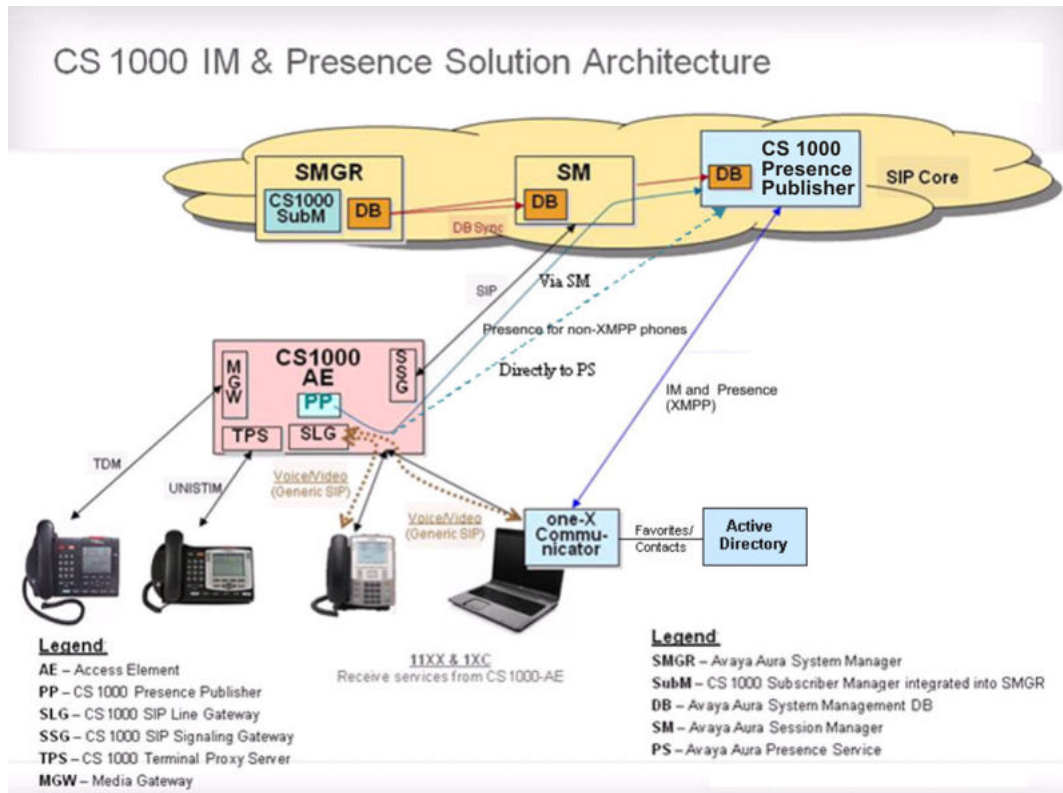


Figure 1: IM and Presence architecture

System component description

The following table provides an overview of the system components used to support the IM and Presence Services.

Table 1: Presence Component Overview

Component	Description
Avaya Aura® System Manager	This management system coordinates the overall system management. This is the CS 1000 primary security domain and all of the CS 1000 components must join this security domain.
Avaya Aura® Session Manager	CS 1000 Presence Publisher sends the presence status through Session Manager.
CS 1000 Presence Publisher (PP)	A software application running on the Signaling Server works with the CS 1000 Call Server to provide telephony presence updates to the IM Presence server through the SIP Publish message. The CS 1000 PP sends status of the non-XMPP phones to the Presence Service (directly or through the Session Manager).

Table continues...

Component	Description
	The one-X Communicator does not use the CS 1000 PP for presence. It communicates with the Presence Service (PS) directly for IM and Presence using the XMPP protocol.
Avaya Aura® Presence Service	PS receives the status from Presence Publisher and sends it to the one-X Communicator client. This is also used to send the presence status directly between two one-X Communicator clients.
Active Directory	Active Directory integrates with one-X Communicator client to add favorites to the client contact list.

The following table provides the version numbers requirements for the IM and P system components:

Component	Version number
System Manager	6.2
Session Manager	6.2
CS 1000	7.5 and later
Presence Services	6.1.5
Avaya One-X Communicator	R6.1 SP1

System component requirements

This section mentions the patching requirements for IM and P components.

Patch requirements

Following patches are included for the CS 1000 and Presence integration for release 7.5 and later:

- Avaya Presence Services server must have PS6.1 Service Pack 5 (PS-06.01.05.00-1204).

Supported IM and Presence clients

One-X Communicator is the only client supported for telephony presence. You require the CS 1000 specific version (R6.1 SP1) of the client for CS 1000 integration.

Supported telephony Publishing Presence clients

The one-X Communicator Client views the Idle or Busy status of Analog, Digital, VoIP-Unistim, SIP Line, MobileX, MC 3100 and IP softphone clients.

Chapter 5: Planning and Engineering

This chapter provides information about system planning and engineering.

Navigation

- [IM and Presence server capacity](#) on page 16
- [Presence Publisher capacity](#) on page 16
- [Converged Desktop ISM License](#) on page 17

IM and Presence server capacity

The IM and Presence server can support the following:

- A maximum of 10 000 users per server with an average of 25 contacts per user.
- A maximum of 15 Instant Messages (IM) for each user in a one hour period.
- A maximum of 12 presence status changes for each user in a one hour period.
- A maximum of 50 contacts in a user contact list.

Presence Publisher capacity

A Presence Publisher is expected to handle more than 5000 users based on the IM and Presence server capacity described above. In the event that one Presence Publisher instance cannot handle all telephony presence from non IM and Presence clients (Analog, Digital, VoIP-Unistim, SIP Line, MobileX, and MC 3100 and IP Softphone) then additional Presence Publishers can be deployed on existing Signaling Servers available in the system.

Converged Desktop ISM License

Every subscriber Terminal Number (TN) with Class of Service Presence Allowed (PREA) enabled requires one Converged Desktop ISM License. The SIP Presence publishing feature requires a SIP Converged Desktop ISM. Class of Service PREA is required for phones that do not support the Extensible Messaging and Presence Protocol (XMPP). The one-X Communicator feature does not require PREA as it supports XMPP.

Chapter 6: Installation and Commissioning

This chapter provides information for installing and commissioning CS 1000 7.6 IM and Presence Service. Perform the installation procedures according to the order of appearance in this chapter.

Related links

- [Navigation](#) on page 18
- [Installing Avaya Aura System Manager](#) on page 18
- [Installing Avaya Aura Session Manager](#) on page 19
- [Installing Avaya Aura Presence Server](#) on page 19
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Related links

- [Installation and Commissioning](#) on page 18

Installing Avaya Aura System Manager

Install Avaya Aura® System Manager on a new Commercial off-the-shelf (COTS) server.

For more information about the installation of System Manager, see *Installing and Upgrading Avaya Aura® System Manager*.

Related links

- [Installation and Commissioning](#) on page 18

Installing Avaya Aura Session Manager

If the Presence Publisher connects to Presence Server through Session Manager, configure the Session Manager to route the presence messages.

For information about Session Manager configuration, see *Installing and Configuring Avaya Aura® Session Manager*.

Related links

[Installation and Commissioning](#) on page 18

Installing Avaya Aura Presence Server

Install Avaya Aura® Presence Server on a new COTS server for standalone deployment or a high-end server for system platform deployment.

For more information about Presence Server installation, see *Installing Avaya Aura® Presence Services*.

Related links

[Installation and Commissioning](#) on page 18

Installing new CS 1000 Signaling Server package

Presence Publisher service is bundled under the Signaling Server deployment package. Deploy the Presence Publisher service by selecting the Signaling Server deployment package available in UCM Deployment Manager.

For more information about installing the Signaling Server, see *Linux Platform Base and Applications Installation and Commissioning, NN43001–315*.

Related links

[Installation and Commissioning](#) on page 18

Configuring Presence Publisher

Configure the CS 1000 Presence Publisher (PP) for sending the Presence Server telephony status of all CS 1000 line types that do not use XMPP protocol.

1. Click **UCM Services** in System Manager.

The system displays the UCM Services page of the CS 1000 Unified Communications Management (UCM).

2. On the Elements page, select the Element Manager element with Element type CS1000.
The System Overview page displays.
3. Under **System**, click **IP Network** to open a sub-menu.
4. Click **Nodes: Servers, Media Cards**.
The IP Telephony Nodes displays.
5. Click the node in which the Presence Publisher is to be configured.
The Node Details page displays.
6. To configure Presence publisher, select the **Presence Publisher** application.
Presence Publisher Configuration Details page appears.
7. Check the box **Enable presence publisher service** to enable the Presence Publisher.
8. From the **IM and Presence server type** drop-down list, select the server type Aura PS.
9. Under Security Policy, select **Best Effort** for TLS connection or **Security Disabled** for TCP connection.

 **Note:**

Select **Security Disabled** option when you do not want to connect the Presence Publisher to the Session Manager over TLS. The Session Manager SIP Entity Link must be set up to match this security selection. However, you must use TLS if you want to connect the Presence Publisher directly to the Presence Server.

10. Enter the presence SIP domain name in **IM and presence server FQDN**.
This entry should match with the value that is configured in "Domain Substitution - To" in / Home/Elements/Presence/Configuration web page of the System Manager
11. Enter the IP address of the Presence Server in the **IM and Presence server IP**.
12. Enter the port number of the Presence Server in **Port** and select TLS in **SIP transport** if Best Effort is selected for Security Policy. Otherwise, select TCP.
You can use the default ports, however they should not be used by other applications. Also, they should match the actual port numbers of the target servers.
13. Check the box **Client Authentication** if you want the client to share its certificate and the server authenticates it so that a two-way authentication is achieved. Un-check this option to provide server authentication only - the server shares its certificate and the clients authenticates it.
Check the box **x509 Certificate Authentication enabled** if you want the SIP TLS to provide both encryption and identity verification. Un-check this box to allow the system to accept self-signed certificates from the server side, when operating on the client side of the SIP/TLS connection. In this case, the system provides encryption only and does not verify the identity.
14. In the Outbound Proxy server section, select send the SIP publish message directly to the Presence server or send it to Session Manager, for routing messages to the Presence server.

*** Note:**

To be consistent with the Avaya Aura® deployment practice, Avaya recommends sending the messages through the Session Manager.

15. Enter the IP address of the Presence Server in the **Outbound Proxy settings** if you want to send the SIP publish messages directly to the Presence Server.
16. If you are using Session Manager to route the SIP publish messages, configure the following:
 - Enter the IP address of the Session Manager in the **Outbound Proxy settings**.
 - Select TLS if you have selected Bet Effort for security, otherwise select TCP.

*** Note:**

Do not use UDP.

- Configure a Presence server SIP Entity and a Session Manager to Presence server SIP Linkage in the System Manager.
17. Under Server Settings, enter the customer name and the presence service DN (PSDN).
The values entered here should match the values configured in LD 23. For more information about LD 23 configuration, refer Software Input Output Reference — Administration *NN43001–611*.
 18. Click **Save** to save the configuration of the Presence Publisher, and then click **Save** on the Nodes Detail page.
The configuration is saved to the Call Server. A Node Saved page displays.
 19. Click **Transfer Now** to transfer the configuration to the signaling server.
 20. Click **Restart Application** to start the Presence Publisher service on the designated server.

*** Note:**

AML, VAS, and PSDN must be configured for Presence Publisher to work. For more information about these configurations, see [Overlay commands—LD 17](#) on page 59.

*** Note:**

To configure ACL in the System Manager set the Default Policy for Presence ACL to **Allow** by navigating to Users > User Management > System Presence ACLs in the System Manager.

Related links

[Installation and Commissioning](#) on page 18

[TLS configuration between CS 1000 and Session Manager](#) on page 21

TLS configuration between CS 1000 and Session Manager

The following sections provide the procedures for configuring TLS between the CS 1000 and Session Manager.

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[Configuring Presence Publisher](#) on page 19

[Adding a CS 1000 UCM Primary Certificate Authority on Session Manager](#) on page 22

[Updating installed certificates](#) on page 23

[Replacing the Session Manager default certificate](#) on page 23

[Changing the Session Manager operating certificate](#) on page 23

[TLS configuration if Presence Publisher is to Connect To PS Directly](#) on page 24

Adding a CS 1000 UCM Primary Certificate Authority on Session Manager

Add a CS 1000 UCM Primary Certificate Authority on Session Manager.

1. Log on to UCM and download the UCM Private Certificate Authority to your PC.
 - a. In the UCM navigation tree, click **Security > Certificates**.
The Certificate Management Web page appears.
 - b. On the UCM Certificates page, download the “UCM Private Certificate Authority” ca.cer file to your PC.
 - c. Click the **Private Certificate Authority** tab.
The Private Certificate Authority page displays.
 - d. Click **Download**.
 - e. Click **Save** to save the ca.cer to your PC.
2. Add the UCM ca.cer file as a trusted certificate for Session Manager.
 - a. In System Manager, navigate to **Elements > Inventory**.
 - b. In the navigation tree, click **Manage Elements**.
 - c. In the Entities section, select a Session Manager Application from the table for the required Session Manager instance.

If you do not find Session Manager Application in the table, create a new Session Manager Application entity. For information on these steps, refer *Unified Communications Management Common Services Fundamentals* NN43001–116.
 - d. From the **More Actions** menu, choose **Configure Trusted Certificates**.
 - e. Click **Add** to add a UCM Primary certificate.
 - f. Choose **Import from file**.
 - g. Click **Browse** to select the ca.cer file on your PC.
 - h. Click **Retrieve Certificate** and review the certificate details before you continue.
 - i. Click **Commit** to add the trusted certificate.

Related links

[TLS configuration between CS 1000 and Session Manager](#) on page 21

Updating installed certificates

Update installed certificates for Session Manager.

1. In System Manager, navigate to **Elements > Session Manager > System Status**.

The System Status page appears.

2. In the navigation tree, click **Security Module Status**.
3. In the Entities section, select a Session Manager Application from the table for the Session Manager instance you require.
4. Click **Update Installed Certificates** to update the imported UCM certificates.
5. Click **Confirm** to confirm the selected Session Manager.

Related links

[TLS configuration between CS 1000 and Session Manager](#) on page 21

Replacing the Session Manager default certificate

Replace the Session Manager default certificate as it uses a hard coded Common Name.

1. In System Manager, navigate to **Elements > Inventory**.
2. In the navigation tree, click **Manage Elements**.
3. In the Entities section, select a Session Manager instance.
4. From the **More Actions** menu, click **Configure Identity Certificates**.
5. Click **security module**, and click the **Replace**.
6. Click **Replace this Certificate with Internal CA Signed Certificate**.
7. Configure the following values and click **Key Algorithm** and **Key Size**.
 - **Common Name:** FQDN of the Session Manager server
 - **Organization:** Your company name.
 - **Country:** Select a country from the list.
 - **Organization Unit:** A division within your company.
8. Verify your data, and click **Commit**.

Related links

[TLS configuration between CS 1000 and Session Manager](#) on page 21

Changing the Session Manager operating certificate

Change the Session Manager operating certificate.

1. In System Manager, navigate to **Elements > Session Manager > System Status**.
The System Status page appears.
2. In the navigation tree, click **Security Module Status**.

3. In the Entities section, select the Session Manager instance.
4. Click **Certificate Management > Use Customer Certificate**.
5. Click **Confirm**.

Ensure you configure the IP address and FQDN of the Session Manager in the DNS, or in /etc/hosts file on the Signaling Server where the PP resides.

Related links

[TLS configuration between CS 1000 and Session Manager](#) on page 21

TLS configuration if Presence Publisher is to Connect To PS Directly

If the Presence Publisher (PP) is to connect to the PS directly (instead of routing through the SM), the administrator needs to add the CS1000 CA certificate into the PS.

1. In UCM CA, download CS1000's CA certificate (for example, "ca.cer").
2. FTP or SFTP the downloaded file to your PS Server and run:

```
/opt/Avaya/Presence/presence/bin/prescert import pem <ca.cer>
```

```
/opt/Avaya/Presence/presence/bin/prescert exportTS
```

(The certificate is in /opt/Avaya/Presence/jabber/xcp/certs)

3. Login to the XCP Controller – presence.
4. Click **Core Router ->Edit**.
5. Set Configuration View to "Advanced".
6. Add your PP host to "Mutually Trusted TLS Hostnames".
7. Restart PS.

Related links

[TLS configuration between CS 1000 and Session Manager](#) on page 21

Chapter 7: User profile configuration

User profile configuration is done in System Manager (SMGR) using the User Profile Management (UPM) service. Using UPM, you can add, view, modify or delete user profiles. For information and procedures about configuring user profiles, see *Administering Avaya Aura® System Manager*.

Use the following guidelines when you configure user profiles:

Important:

CS 1000 users require additional configuration in UPM. The following list provides necessary configuration actions that are not found in the SMGR documentation. When you configure user profiles in UPM, ensure that you perform the following configurations in addition to the actions listed in the SMGR documents.

- Configure the user in UPM in SMGR by navigating to **Home > Users > User Management > Manager Users**.
- The format for the **Login Name** is <username>@<domain name>. For example, 8545@ca.avaya.com.
- Configure the Communication Profile password. For more information, see *Adding SIP user handles on System Manager*.
- Select the **CS 1000 Endpoint Profile** check box and open the drop-down menu to do configuration for the user's devices.
- For non-XMPP phones, such as CS 1000 Unistim phones, configure the following additional data:
 - PREA presence Allowed
 - Presence Service DN (PSDN)

The <username> is pushed to the CS1000 Call Server automatically to fill in the PUID, which is necessary for presence to work with non-XMPP phones.

For additional configuration details, refer to the UPM section of *Administering Avaya Aura® System Manager*.

Related links

[Adding SIP user handles on System Manager](#) on page 26

Adding SIP user handles on System Manager

Procedure

1. Log on to System Manager Web Console as an administrator.
2. On System Manager Dashboard, click **User Management > Manage Users > New**.
The system displays the New User Profile page.
3. Click the **Communication Profile** tab.
4. In the Communication Address section, click **New**.
5. In the **Type** drop-down box, select **Other SIP**.
6. In the **Fully Qualified Address:** field, enter a handle.
7. In the **@** field, enter the domain name.
8. Click **Add**.
9. To save the changes, click **Commit**.

Related links

[User profile configuration](#) on page 25

Chapter 8: Migration of CS 1000 7.5 and later IM and Presence to System Manager

This chapter provides information about migrating CS 1000 7.5 and later IM and Presence to System Manager.

All CS 1000 servers need to join the System Manager security domain as member servers. For more information about migration to System Manager, see *Unified Communications Management Common Services Fundamentals, NN43001-116*.

Navigation

- [Migrating Subscriber data from UCM to System Manager](#) on page 27
- [Replace Openfire Server by Avaya Aura Presence Server](#) on page 28
- [Migrating XMPP client](#) on page 28

Migrating CS 1000 Subscriber data from UCM to System Manager

System Manager uses User Profile Management (UPM) to administer IM and Presence data. Migrate the CS 1000 Subscriber data to System Manager UM using one of the following options:

- Using the active primary CS 1000 Subscriber Manager server to LDAP synchronize the Subscriber Manager data.
- Using the CND or LDAP Data Interchange Format (LDIF) output to capture the CS 1000 Subscriber Manager data.

For information and procedures about migrating CS 1000 Subscriber data to System Manager UM, see the section “Importing users from CS 1000 Subscriber Manager to User Management” in *Administering Avaya Aura® System Manager*.

Replace Openfire Server by Avaya Aura Presence Server

In CS 1000 Release 7.6, the Openfire Server is not supported. It is replaced by the Avaya Aura® Presence Server. Configure the following to support Avaya Aura® Presence Server.

- CS 1000 Presence Publisher:
 - Reconfigure the CS 1000 Presence Publisher to point to the Avaya Aura® Presence Server. For more information, see [Configuring Presence Publisher](#) on page 19.
- For XMPP IM and Presence:
 - Configure the users in User Management in SMGR if you cannot migrate them SMGR.

Migrating XMPP client

In Release 7.5 and later, Communication Server 1000 supports only the one-X Communicator client. Therefore, all existing XMPP clients must switch to one-X Communicator clients.

Configure the PREA status on your existing XMPP clients from Allowed to Denied. This configuration change prevents sending duplicate call status changes to the Presence Server. For example, a call status change being sent using SIP Publish through the Presence Publisher and the other using XMPP.

For more information about this configuration, see [LD 11 Configure client](#) on page 60.

Chapter 9: Maintenance

This chapter provides information about CLI commands and logs for maintenance on the IM and Presence Services.

Navigation

- [Call Server CLI commands](#) on page 29
- [Presence Publisher Service CLI commands](#) on page 30
- [IM and Presence server commands](#) on page 31
- [Diagnostic logs](#) on page 32

Call Server CLI commands

Turn on the AML trace using LD 48.

The following is an example of an AML trace to help verify that the Call Server sends the USM message to the Presence Publisher application.

AML trace

--- Turn on AML trace

>48

LNK000

.enl msgo 32

```
ELAN32 O MTyp=1A USM TN=096 0 00 26 TIME=07:12:36
ELAN32 IN 7D311A47 OUT 00000000 QSIZE 00000000
ELAN32 03 36 00 00 61 82 16 1A 00 00 00 00 37 02 61 82 36 02 85 29
ELAN32 3B 01 08 38 01 02 39 02 85 12 96 04 00 00 7E 58 F2 08 63 6F
ELAN32 72 65 73 69 70 6C 5F 07 01 06 14 0B 07 0C 24
```

--- Turn off AML trace

>48

LNK000

```
.dis msgo 32
```

*** Note:**

In the preceding output, look for USM messages that are output to the Presence Publisher application.

For example:

38—Code for the status of the party:

01—The number of bytes that follow

02—Off-hook (04 is Active and 05 is USMDisc)

F2—code for PUID:

08—The number of characters.

63 6F 72 65 73 69 70 6C – coresipl

Presence Publisher Service CLI commands

The following are some useful Presence Integration Service CLI commands.

Presence Publisher Service application status commands

puaAmlShow

Use puaAmlShow to display the status of the AML link.

```
vxShell vtrk puaAmlShow
```

⚠ Caution:

Use the **vxshell** command carefully. Entering incorrect data may cause loss of service.

hAppBlk	TaskName	Tid	LinkState	NumRetry	LinkNum	Trace
0x9c5ef8	PUA	0xf300	UP	0	32	0
AML Link Timer:						
Not Active.						

puaShow

The puaShow commands displays the summary of the Presence Integration Service application. It shows the state of the Presence Integration Service application and the status of the AML link.

puaShow						
---------	--	--	--	--	--	--

Table continues...

==== VTRK ====						
===== General =====						
PUA State = AppReady						

==== AML Info =====						
hAppBlk	TaskName	Tid	LinkState	NumRetry	LinkNum	Trace
0x9c5ef8	PUA	0xf300	UP	0	32	0
AML Link Timer:						
Not Active.						

puaConfigShow

Use the command puaonfigShow to display the configuration of the Presence Integration Service application.

```
puaConfigShow
```

```
==== VTRK =====
```

```
Service Domain : testbed1.com
```

```
Primary Presence Server : 47.11.113.209:5080:UDP
```

```
Secondary Presence Server : 0.0.0.0:0:UDP
```

```
Local SIP Port : 5075
```

```
Local TLS Port : 5076
```

```
Customer Number : 0
```

```
CDN Number : 2060
```

IM and Presence server commands

Start/Stop/Restart or check status of Presence server process

Start or restart the Presence server process:

```
/opt/Avaya/Presence/presence/bin/start.sh
```

Stop the Presence server process:

```
/opt/Avaya/Presence/presence/bin/stop.sh
```

Check the status of the Presence server process:

```
/opt/Avaya/Presence/presence/bin/presstatus
```

Unified Communication (Presence) server file location

The `/var/log/presence` is the file location for IM and Presence Services server files.

Presence server traces

SIP message traces

There are two ways to see SIP message traces on the presence server:

- Use Wireshark
- Get the SIP log file on Unified Communication (Presence) server (file location, check the server configuration page)

XMPP message traces

Use Wireshark to get XMPP message traces on the Unified Communication (Presence) server. Log files for one-X Communicator can be found at `C:\Documents and Settings\Application Data\Avaya\Avaya one-X Communicator\Log Files`.

For more information about enabling diagnostics for one-X Communicator, see [One-X Communicator diagnostics](#) on page 33.

SM traces

Use `traceSM-x` command if presence service does not receive the SIP publish message.

1. Log into the SM shell as root.
2. Enter the command `traceSM -x`.
3. Press `s` to start tracing.
4. Perform the testing.
5. Press `s` to stop tracing.

You can find the `traceSM.log` in the directory `/var/log/Avaya/sm/ServiceHost`.

Diagnostic logs

This section provides the diagnostic logs for IM and Presence Service.

Signaling Server logs

You can view log messages in the `/var/log/nortel/ss_common.log` file.

Debug log:

To enable debug log, enter `syslogLevelSet vtrk tPUA 7`

To disable debug log, enter `syslogLevelSet vtrk tPUA 6`

SIP Message Log:

SIP messages are included in the debug log.

One-X Communicator diagnostics

1. Navigate to **Settings > General Settings > Advanced**.
2. Click **Diagnostic Logging**.
3. Select the **Enable Diagnostic Logging** check box.
4. Click the type of logging, and click **OK**.

Chapter 10: IM and Presence user information

Avaya Communication Server 1000 (Avaya CS 1000) IM and Presence Services provides presence information and IM capability for all Avaya CS 1000 users. A CS 1000 user can view presence information and exchange Instant Messages using the one-X Communicator CS 1000 Client.

For more information about the configuration of one-X Communicator client, see [Avaya one-X Communicator CS 1000 client configuration](#) on page 37.

Navigation

- [Presence Aggregation](#) on page 34
- [Personal Agent](#) on page 34

Presence Aggregation

Presence Aggregation is to ensure uniform presence regardless of the client being used.

Personal Agent

Use the Personal Agent (PA) application to change your password and to synchronize your passwords so that you use the same password for Presence and Instant Messaging, logging on to the one-X Communicator, and SIP Line phones.

 **Note:**

Whether or not the password has been changed, you must synchronize the password at least once to ensure logon access to one-X Communicator and for IM and Presence to work properly.

The PA is a standalone application that is automatically installed on the same server as SMGR. The Personal Agent application is accessed from your Web browser as a single page and no logon is required.

Changing your password for Presence and Instant Messaging

Change your Presence and Instant Messaging password.

*** Note:**

The new password is subject to the restrictions as configured in Unified Communications Management (UCM) by the security administrator and these rules are displayed on the Personal Agent screen. The rules displayed and the details of the rules depend on the password configuration in UCM.

1. On your Web browser, enter the URL of the Personal Agent provided by your system administrator. For example, `https://<FQDN of SMGR>/pa`.

The Personal Agent page opens.

2. In the **User ID** field, enter your login name.
3. In the **Current Password** field, enter your current password.
4. In the **New Password** field, enter the new password.

*** Note:**

The new password must follow the rules displayed on the screen.

5. In the **Confirm Password** field, enter the new password again.
6. Click **Save**.

Any messages relating to the success or failure of the password change appears below the page title. If the password is not accepted, check the password restrictions and try again.

Synchronizing your password

After the Presence and Instant Messaging password has been changed, synchronize the password with all the presence and telephony accounts belonging to the subscriber.

1. On the Personal Agent Web page, click **Synchronize Account Passwords**.
2. In the **Login Name** field, enter your login name.
3. In the **Password** field, enter the password.
4. Click **Show Accounts**.

The accounts for the user appear at the bottom of the page.

5. Click **Synchronize Password**.

Upon successful completion, the message `Succeeded` appears in the Status column.

 **Note:**

Password synchronization fails for non-SIP Line phone accounts as the Unified Communications (UC) password is only used by SIP Lines.

Chapter 11: Avaya one-X Communicator CS 1000 client configuration

This chapter provides the procedures for configuring the Avaya one-X[®] Communicator Communication Server 1000 client for viewing presence information and exchange Instant Messaging (IM) with the Extensible Messaging and Presence Protocol (XMPP).

For more information about Avaya one-X[®] Communicator for Communication Server 1000, download the following documents from the Avaya Web site at www.avaya.com.

- *Overview and Planning for Avaya one-X[®] Communicator for CS 1000* (for administrator)
- *Administering Avaya one-X[®] Communicator for CS 1000* (for administrator)
- *Implementing Avaya one-X[®] Communicator for CS 1000* (for user)
- *Using Avaya one-X[®] Communicator for CS 1000* (for user)

Navigation

- [Configuring IM and Presence](#) on page 47
- [Configuring Phones](#) on page 48
- [Active Directory configuration](#) on page 37
- [Client configuration for Avaya one-X Communicator](#) on page 42
- [TLS certificates for Avaya one-X Communicator](#) on page 48
- [Configuring Avaya one-X Communicator for Best Effort Cap negotiation](#) on page 50
- [Feature Interactions](#) on page 51


Active Directory configuration

Active Directory is not part of the one-X Communicator, but it is necessary for searching and adding contacts or favorites to the one-X Communicator.

This section provides the procedures to configure Active Directory (AD).

For example purposes, the procedures in this section use the following common configuration data.

Table 2: Common configuration example data

Active Directory IP address	100.20.52.3
AD domain	interop.com
Organization Unit	ps
Presence User ID (PUID) configured in UPM. It is the username portion of the Login Name.  Note: There is a maximum of 16 PUIDs for each user.	1347
Presence domain	presence.interop.com

Creating an organization unit in Active Directory

Create an organization unit in AD.

1. From the Start menu, select Run, and type `dsa.msc`.

The Active Directory Users and Computers window appears, as shown in the following figure.

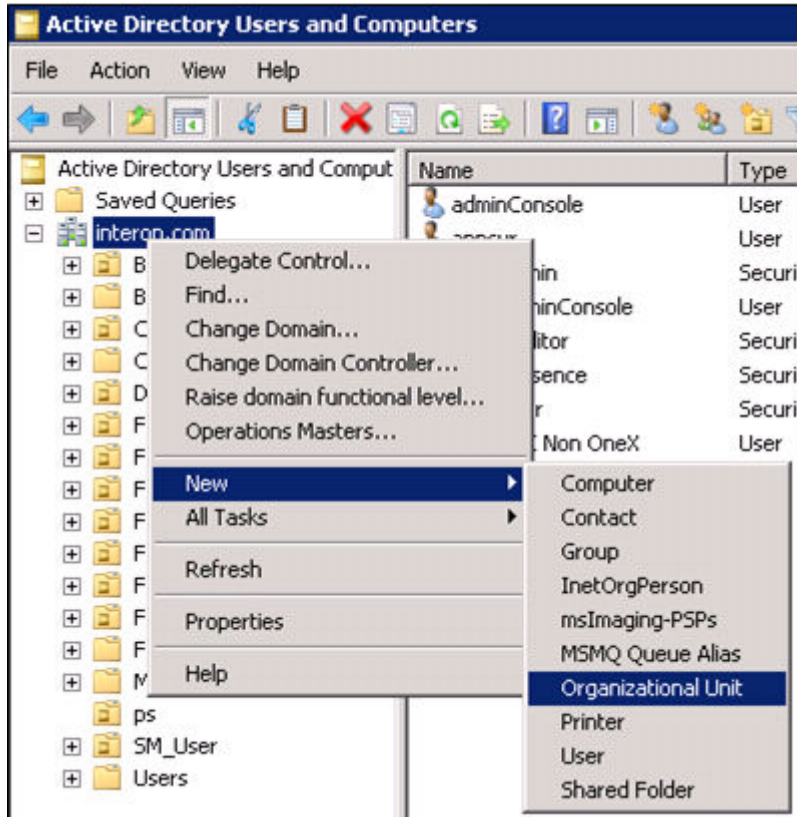


Figure 2: Active Directory Users and Computers

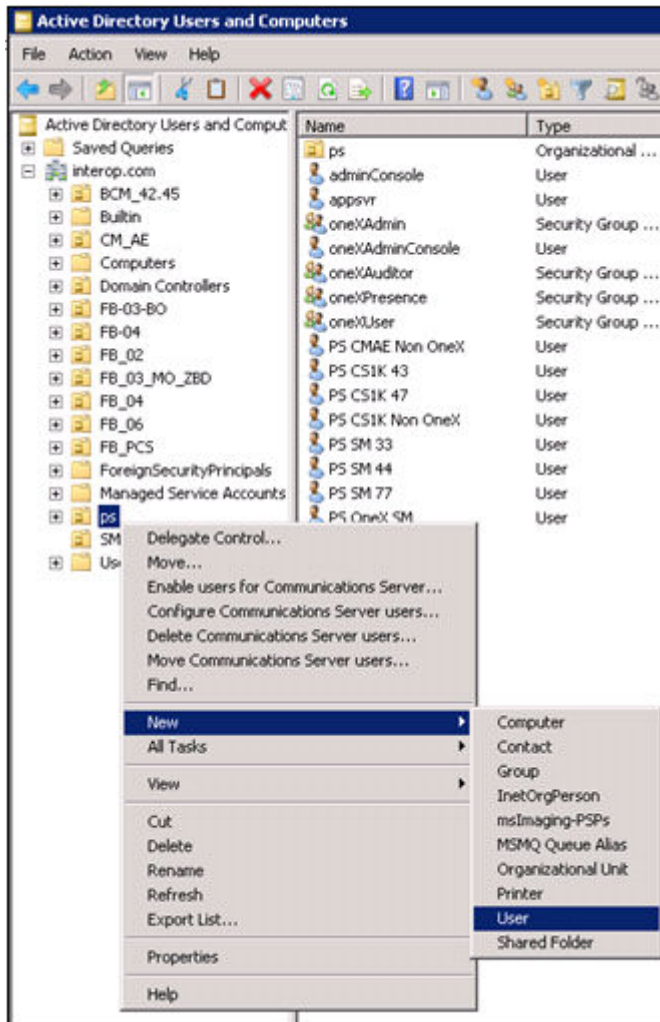
2. Right-click the folder where you want the organization unit to be created.
3. Click **New > Organizational Unit**.

The new organization unit appears in the left pane. In this example, the organization unit is ps.

Creating a user in Active Directory

Create a user in AD.

1. Right-click the organization unit you just created. For example, ps



2. Click **New > User**.

The New Object — User window appears, as shown in the following figure.

The screenshot shows the 'New Object - User' dialog box. At the top, it says 'Create in: interop.com/ps'. Below this are several input fields: 'First name' with 'PS', 'Initials' (empty), 'Last name' with 'CS1K 47', and 'Full name' with 'PS CS1K 47'. The 'User logon name' field is split into two parts: 'ps1347' and '@interop.com'. Below that, the 'User logon name (pre-Windows 2000)' field is split into 'INTEROPR2\' and 'ps1347'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Figure 3: New Object — User

3. In the **First name** field, type the first name of the organization unit.
4. In the **Last name** field, type the last name of the organization unit.
5. In the **Full name** field, type the full name of the organization unit.
6. In the **User logon name** field, type the user logon name.
7. Click **Next**.
8. In the **Password** field, type a password.
9. In the **Confirm password** field, type the password again to confirm.
10. Select the options **User cannot change password** and **Password never expires**.
11. Click **Next**.
12. Click **Finish**.

Configuring a user in Active Directory

Configure the data for the user.

1. In the Active Directory Users and Computers page, right-click the name in the right pane, and select **Properties**. For example, PS CS1K 47.
2. Click the **General** tab.

3. Complete the following fields:
 - First name
 - Last name
 - Display name
 - Telephone number
 - E-mail
4. Click **OK**.

Client configuration for Avaya one-X Communicator

This section provides the procedures for configuring the Avaya one-X® Communicator client.

Enabling the public directory

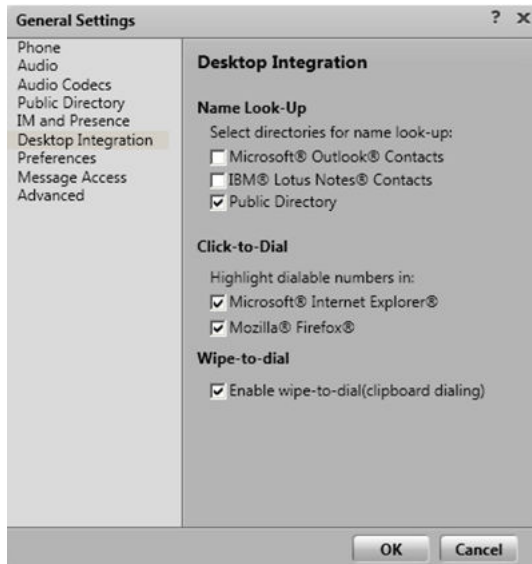
Enable the public directory.

1. Log on to the Avaya one-x Communicator.



2. In the General Settings window, click **Desktop Integration** in the left pane.

The desktop integration options appear in the right pane, as shown in the following figure:



3. In **Name Look-Up**, select **Public Directory**.
4. Click **OK**.

Configuring public directory

Configure the public directory information.

1. In the General Settings window, click **Public Directory** in the left pane.
Public Directory options appear in the right pane.



2. Complete the fields, and click **OK**.

*** Note:**

You may be required to restart the one-X application.

*** Note:**

The user portion of the email address or the phone number selected for the IM handle mapping is used for searching and creating IM handles for users in the Presence server. Therefore, the selection must match the IM username entered in the IM and Presence window. If the email address, "id@mycompany.com" is selected, then "id" must also be entered for the IM username. If the work number is selected, then the work number must be entered for the IM username.

Adding a contact

Add a contact to the one-X Communicator.

1. In the **Search** field, type the contact, and click the search icon.

The name appears in the bottom pane.



2. Right-click the name you want to add the contact, and click **Add to Favorites**, as shown in the following figure.



The name is added to the favorite list, as shown in the following figure.



*** Note:**

You may be required to log off and log on to one-X Communicator for the updated view.

Configuring IM and Presence

Configure IM and Presence.

1. In the General Settings, in the left pane, click **IM and Presence**.
The Instant Message and Presence Service settings window appears in the right pane.
2. Select **Enable Instant Messaging and Presence** to enable the Instant Message and Presence Service settings.
3. In the **Server** field, type the IP address of the Presence Server.
4. Enter the presence SIP domain name.

This entry should match with the value that is configured in "Domain Substitution - To" in / Home/Elements/Presence/Configuration web page of the System Manager.

5. In the **IM username** field, type the username of the login name configured in User Profile Management (UPM). The login name consists of the username and domain name, as in <username>@<domain name>.
6. In the **IM password** field, type the synchronized password for the subscriber.

Configuring Phones

Configure phones.

1. In the General Settings, in the left pane, click **Phone**.
The Phone settings screen appears in the right pane.
2. In the **Login** field, type the phone extension number or the user name. This is the SIP User Name field in the SIP Line phone account configuration in Element Manager.
3. In the **Phone password** field, type the synchronized password for the subscriber.
4. In the **Domain** field, type the SIP domain name.
5. In the **SIP Line Gateway (SLG) node** field, type the IP address and port.

TLS certificates for Avaya one-X Communicator

This section provides the procedures in the order of installation for installing certificates for the Avaya one-X[®] Communicator and registering to the SIP Line Gateway (SLG) using TLS.

Adding a UCM primary certificate authority

Add the UCM primary certificate authority on the same system where the Avaya one-X[®] Communicator is installed.

1. In System Manager, navigate to **Services > UCM Services**.
2. From the UCM navigation tree, click **Security > Certificates**.
3. Click the **Private Certificate Authority** tab.
The private Certificate Authority window appears.
4. In the Private Certificate Authority Details section, click **Download** to download the certificate contents as a security certificate file to the PC.
The File Download – Security Warning window appears.
5. Click **Save**.
The Certificate Details window appears showing the details of the certificate.
6. Click **Ok**.

7. After the UCM certificate is saved to the Avaya one-X® client PC, open the certificate file and follow the instructions for installation to your Windows PC.

Adding an Avaya one-X Communicator root certificate authority to UCM

Add the Avaya one-X® Communicator root Certificate Authority (CA) to UCM. The one-X® Communicator Root Certificate Authority can be downloaded from the Avaya one-X® Communicator page at <https://support.avaya.com>.

1. In System Manager, navigate to **Services > UCM Services**.
2. From the UCM navigation tree, click **Security > Certificates**.
3. Click the **Certificate Endpoints** tab.
The private Certificate Endpoints screen appears.
4. In the Certificate Endpoints section, click the option next to the SIP Line Gateway (SLG) node.
5. In the Certificate Authorities section, click **Add**.
6. Copy the one-X Communicator root CA contents and paste into the text area.
7. Click **Submit**.

Creating a certificate for SIP TLS

Create a certificate for SIP TLS.

1. In System Manager, navigate to **Services > UCM Services**.
2. From UCM navigation tree, click **Security > Certificates**.
3. Click **Certificate Endpoints** tab.
The private Certificate Endpoints window appears.
4. In the Certificate Endpoints section, click the option next to the SIP Line Gateway (SLG) node.
5. Click **SIP TLS**.
6. Click **Create a new certificate, signed by local private Certificate Authority**, and click **Next**.
7. Type values for **Friendly name** and **Bit Length**, and click **Next**.

For example:

- Friendly name: Type a string that would be used to identify the certificate, for example, SIP TLS.

- Bit Length: Type a value that represents the number of bits used for encryption. Values can be 512, 1024, and 2048. More CPU is required for processing as the bit value increases.
8. Type the **Organization** and **Organization unit**, and click **Next**.
For example:
 - Organization: Your company name.
 - Organization unit: A division within your company.
 9. Type a value for **Common Name**. For example, type the FQDN of the server you are configuring. The default is a combination of Windows environment variables Computername and Userdnsdomain. Ensure this field matches the hostname of the system the certificate is on.
 10. In the **Subject Alt Name** field, click **Other**, and type `critical, DNS: domain name`, where the domain name is the domain name on the SIP Line Gateway.
 11. Click **Next**.
 12. Complete the Geographical information, and click **Next**.
The Certificate Summary page appears.
 13. Verify the information, and click **Commit** to generate a certificate in X.509 format.
The Certificate Summary page shows the certificate information.
 14. Click **Finished**.
The status is changed to signed.
 15. Restart the server.

Configuring Avaya one-X Communicator for Best Effort Cap negotiation

Configure the Avaya one-X[®] Communicator for Best Effort negotiation.

1. In the General Settings, click **Advanced > SRTP Settings**.
2. Select **Enable SRTP** to enable SRTP on one-X Communicator.
3. Configure Cipher1 or Cipher2 to AES_CM_128_HMAC_SHA1_80.
4. Configure the mapping table for one-X Communicator capability and Class of Service for UEXT.

For example,

- SRTP enabled <-> MSBT
- SRTP not enabled <-> MSNV

Feature Interactions

Sigma telephone:

Sigma telephones cannot make outgoing calls if the phone is configured with Best Effort Cap negotiation and TN is configured with MSBT Class of Service. Attempts to make an outgoing call result in the destination phone ringing and the originator receiving an overflow tone.

Best Effort negotiation implementation:

If Avaya one-X[®] Communicator for Best Effort negotiation is implemented through an m-line (using tcap and pcfg attributes) and MSBT Class of Service is configured, the Avaya one-X[®] Communicator cannot make outgoing calls, the destination phone does not ring, and the originator does not receive the overflow tone.

Chapter 12: Troubleshooting

This section provides information to assist in troubleshooting problems related to Presence Services or the one-X Communicator client for Communication Server 1000.

Navigation

- [Presence Server—local database](#) on page 52
- [Presence Server—XCP database](#) on page 52
- [AML link is not up](#) on page 53
- [Presence is not updated when a telephone makes a call](#) on page 54
- [Presence Publisher not operational](#) on page 55
- [Presence publisher configuration not displayed](#) on page 55
- [TLS status](#) on page 55
- [CDN or PSDN ASID VALUE is incorrect](#) on page 56

Presence Server—local database

Verify that the user data is successfully replicated to the Presence Server. For local database, enter the following command in the Presence Server shell:

```
psql -U postgres -d presence -c "select* from csuser"
```

For example, if the user name is John Smith, the display is:

```
374 | 2011-01-06 16:27:42.339 | 0 | FMVqzkyG5PNIjssq3wjcw== |  
728ab064-82fc-4873-ac3c-db4c645446fc | f | t | johnsmith@avaya.com |||86|
```

Presence Server—XCP database

Verify that the user data is successfully replicated to the Presence Server. For the XCP database, enter the following command in the Presence Server shell:

```
psql -U postgres -d xcp -c "select * from users"
```

For example, if the user name is John Smith, the display is:

```
10343 | johnsmith@pspit.avaya.com | - | F | 2011-01-06 16:23:35 |
2011-01-06 16:23:35 | 0 | 2011-01-06 |
```

AML link is not up

Check if ELAN links is configured for in LD 22. There must be at least 2 built for SLG.

Example output of LD 22.

```
>LD 22
```

```
PT2000
MARP NOT ACTIVATED
```

Table 3: LD 22

Prompt	Response
REQ	PRT
TYPE	ADAN ELAN

```
ADAN      ELAN 32
CTYP ELAN
DES elan_slg
N1 512
ADAN      ELAN 33
CTYP ELAN
DES SIPL
N1 512
ADAN      ELAN 34
CTYP ELAN
DES AMLCD
N1 512
```

Example output

```
>LD 23
```

```
ACD000
MEM AVAIL: (U/P): 48592002   USED U P: 2864309 173766   TOT: 51630077
DISK SPACE NEEDED: 254 KBYTES
ACD DNS          AVAIL: 23991   USED:      9   TOT: 24000
```

Table 4: LD 23

Prompt	Response
REQ	PRT

Table continues...

Prompt	Response
TYPE	CDN
CUST	0
CDN	<CR> Carriage Return

```

TYPE CDN
CUST 0
CDN 5280
FRRT
SRRT
FROA NO
UUI NO
MURT
CDSQ YES
DFDN 8990
NAME NO
CMB NO
CEIL 2047
CLRO NO
OVFL NO
TDNS NO
AACQ YES
ASID 32
SFNB
USFB
CALB 0 1 2 3 4 5 6 7 8 9 10 11
CNTL YES
VSID
HSID
CWTH 1
BYTH 0
OVTH 2047

```

Does the CDN/PSDN configured on CS match the one in the Presence Publisher configuration? : Check Presence Publisher Configuration page in Element Manager.

Presence is not updated when a telephone makes a call

- Is CLS PREA configured for the set? : Print set configuration in LD 10 / LD 11, or in Element Manager.
- Is PSDN properly configured for the set? : Print set configuration in LD 10 / LD 11, or in Element Manager.
- Is PUID configured properly for the set? : Print set configuration in LD 10 / LD 11, or in Element Manager.
- Are USM messages sent from CS? : Enable AML traces in LD 48. See [Call Server CLI commands](#) on page 29.
- Are USM messages received on the Presence Publisher Server? : Run puaAmlTrace 5. See **BROKEN LINK: #unique_100**.
- Are PUBLISH messages sent from the Presence Publisher Server? : Run syslogLevelSet vtrk tPUA 7, or pcap start/stop, or wireshark on the Presence Publisher Server.

- Are PUBLISH messages received on the IM and Presence server? Run wireshark on the IM and Presence Services server.

Presence Publisher not operational

Invoke the following command in the Signaling Server in which the Presence Publisher (PP) resides:

puaShow

Example display for an operational PP:

```

=== VTRK ===
===== General =====
PUA State           = AppReady
Server Type         = Avaya Aura PS
===== AML Info =====
hAppBlk      TaskName      Tid      LinkState      NumRetry  LinkNum  Trace
0xb921c0     PUA                    0xf300    Up              0         32      0

```

Presence publisher configuration not displayed

Invoke the following command in the to display the presence publisher configuration:

puaConfigShow

For example:

```

=== VTRK ===
Service Domain   : pspit.ca.nortel.com
Primary Outbound Server : 47.11.112.242:5061:TLS
Secondary Outbound Server : 47.11.253.179:15061:TLS
Local SIP Port   : 5080
Local TLS Port   : 15061
Presence Server  : 47.11.253.179:15061:TLS
Customer Number  : 0
CDN Number       : 5280

```

TLS status

Check the `/var/log/nortel/ss_common.log` file to see if there is a **TLS up** message. If not, check TLS configuration and the network status.

For example:

```

May 26 17:43:34 fb-04-ldr vtrk: (INFO) tPUA: sipNpmTlsCheckSANandCN:
Remote IP=100.20.25.130 from Session Manager, grant

```

CDN or PSDN ASID VALUE is incorrect

On the Call Server, load overlay 23 and print the CDN data.

```
Ld 23
REQ Prt
TYPE Cdn
CUST <customer #>
CDN <cdn #>
```

For example:

```
TYPE CDN
CUST 0
CDN 5280
FRRT
SRRT
FROA NO
UUI NO
MURT
CDSQ YES
DFDN 8990
NAME NO
CMB NO
CEIL 2047
CLRO NO
OVFL NO
TDNS NO
AACQ YES
ASID 32      □-----This number must be the same as the ELAN number for
thePP
SFNB
USFB
CALB 0 1 2 3 4 5 6 7 8 9 10 11
CNTL YES
VSID
HSID
CWTH 1
BYTH 0
OVTH 2047
```

If the ASID number is not the same as the ELAN number for the PP, configure the same CDN again. Then, type **appstart vtrk restart** on the Signaling Server where the PP resides. To find the ELAN number for the PP, enter the following:

```
>ld 48
LNK000
stat elan
```

Example display:

```
SERVER TASK:  DISABLED
ELAN #: 032
  APPL_IP_ID: 47 .11 .71 .72 : 0000F300 LXR7: ACTIVE  EMPTY  APPL ACTIVE
ELAN #: 033
  APPL_IP_ID: 47 .11 .71 .72 : 0000FB00 LXR7: ACTIVE  EMPTY  APPL ACTIVE
ELAN #: 034
  APPL_IP_ID: 47 .11 .71 .72 : 0000F800 LXR7: ACTIVE  EMPTY  APPL ACTIVE
ELAN #: 035
  APPL_IP_ID: 47 .11 .71 .72 : 0000F700 LXR7: ACTIVE  EMPTY  APPL ACTIVE
```

Get the ELAN number that has type 0000F300 (In this example, it is 32).

one-X Communicator Fails to Register to CS1000

- Make sure that the root certificate authority for the one-X Communicator has been installed in the UCM.
- Make sure that the SIP TLS certificate is re-created if the domain name for the SIP Line gateway is changed.
- Make sure that password synchronization has been done and the UC password is used instead of the SCPW.

After adding a user in UPM, you must sync password before you can login. For more information, see page 45.

- Print a TNB and verify PUID is the username as defined in UPM. See example below:

Example

```

DES P
TN 252 0 05 19 VIRTUAL
TYPE UEXT
CDEN 8D
CTYP XDLC
CUST 0
UXTY SIPL
MCCL NO
SIPN 1
SIP3 0
FMCL 0
TLSV 0
SIPU 5443
NDID 5
SUPR NO
UXID
NUID
NHTN
CFG_ZONE 00001
CUR_ZONE 00001
MRT
ERL 0
ECL 0
FDN
TGAR 1
LDN NO
NCOS 0
SGRP 0
RNPG 0
SCI 0
SSU
XLST
SCPW 0000
CLS CTD FBD WTA LPR MTD FND HTD TDD HFD CRPD
MWD LMPN RMMD AAD IMD XHD IRD NID OLD VCE DRG1
POD SLKD CCSD SWD LND CNDD
CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBF
ICDD CDMD LLCN MCTD CLBD AUTU
GPUD DPUD DNDD CFXD ARHD CLTD ASCD
CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD
AHA DDGA NAMA
DRDD EXR0
USMD USRD ULAD RTDD RBDD RBHD PGND OCBF FLXD FTTC DNDY DNO3 MCBN
VOLA VOUD CDMR PRED RECD MCDD T87D SBMD ELMD
MSNV FRA PKCH MWTB DVLD CROD ELCD

```

```
CPND_LANG ENG
HUNT
PLEV 02
PUID 5443          <<<<< This is the USERNAME in UPM
UPWD *****      <<<<< This is the password defined in UPM
DANI NO
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
MLNG ENG
DNDR 0
KEY 00 SCR 5443 0   MARP
      CPND
          NAME Barry, Lunt
          XPLN 24
          DISPLAY_FMT FIRST, LAST
01 HOT U 25443 MARP 0
02
03
04
```

IM and Presence does not work for the one-X Communicator

- Make sure that the domain name entered on the IM and Presence page of the one-X Communicator is the domain name for the PS.

Appendix A: Overlay commands

Navigation

- [Overlay commands—LD 17](#) on page 59
- [Overlay commands—LD 11 and LD 23](#) on page 60

Overlay commands—LD 17

The following Overlay commands can be used to enable Presence service on the Call Server. Build 2 ELAN and VAS for SLG server, eg: 32 and 33.

Table 5: LD 17 Configure ELAN AML link

Prompt	Response	Description
REQ	CHG	Change ADAN
TYPE	ADAN	
ADAN	New ELAN <ELAN number>	New AML ELAN link. The link number should be greater than or equal to 32
CTYP	ELAN	

Every AML over ELAN link configured on the Avaya Communication Server 1000 (Avaya CS 1000) system requires a Value Added Server (VAS) ID for the AML messages to be sent. Use the following overlay commands to associate a Value Added Server (VAS) with AML over ELAN.

Table 6: LD 17 Configure VAS ID for AML link


Prompt	Response	Description
REQ	CHG	Change ADAN
TYPE	VAS	
VAS	New	New VAS
VSID	vasID	The VAS ID number
ELAN	<ELAN number>	ELAN number, should match the one configured in previous step.

Overlay commands—LD 11 and LD 23

Table 7: LD 23 Configure ACD DN

Prompt	Response	Description
REQ	New	New ACD
TYPE	ACD	
CUST	custNum	Customer number
ACDN	Xxxx	An ACD DN to be used when configuring CDN
MAXP	1 or greater	Maximum position for ACD DN queue

Table 8: LD 23 Configure CDN

Prompt	Response	Description
REQ	New	New CDN
TYPE	CDN	
CUST	custNum	Customer number
CDN	Xxxx	A CDN number to be used by Presence Publisher  Note: This CDN is used as the PSDN for each subscriber.
CDSQ	Yes	Configure to yes so the presence activity sends to the Presence Publisher.
DFDN	Xxxx	ACD DN configured in the table Table 7: LD 23 Configure ACD DN on page 60.

LD 11 Configure client

The telephony account can be provisioned in the call server overlay.

Table 9: LD 11 Configure client

Prompt	Response	Description
REQ	New/Chg	New TN or change an existing TN
TYPE	<TN Type>	
CUST	custNum	Customer number
CLS	PREA (PRED)	New CLS PREA is used to enable presence service for phones that do not support Extensible Messaging and Presence Protocol (XMPP). The one-X Communicator feature does not

Table continues...

Prompt	Response	Description
		require PREA as it supports XMPP. The default value is PRED
PSDN	CDN number	Enter the CDN number.
PUID	<>	<p>The Presence User ID (PUID) is the user name for the subscriber to which the telephony account belongs.</p> <p>* Note:</p> <p>Configure the PUID using UPM and from the Phones section in Element Manager. You cannot use the CLI.</p>
UPWD	<>	<p>UC password is used for SIP Line login.</p> <p>* Note:</p> <p>Configure the Communication Profile password using UPM and perform password synchronization. You cannot use the CLI.</p>

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