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Avaya Solution & Interoperability Test Lab

Application Notes for IPC Alliance MX 16.01 with Avaya Modular Messaging 5.2 and Avaya Aura® Communication Manager 6.0.1 in a Centralized Messaging Environment using QSIG Trunks – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for IPC Alliance MX 16.01 to interoperate with Avaya Modular Messaging 5.2 and Avaya® Communication Manger 6.0.1 in a centralized messaging environment using QSIG trunks to Avaya Aura® Communication Manager.

IPC Alliance MX is a trading communication solution. In the compliance testing, IPC Alliance MX used E1 QSIG trunks to Avaya Aura® Communication Manager, for IPC turret users to obtain voice messaging services from Avaya Modular Messaging. E1 QSIG trunks were used from IPC Alliance MX to Avaya Aura® Communication Manager, and T1 QSIG trunks were used from Avaya Aura® Communication Manager to reach Avaya Modular Messaging. The Avaya Modular Messaging system in the Central site supported local subscribers from Avaya Aura® Communication Manager at the Central site, and from IPC turret users at the Remote site.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

TLT; Reviewed:
SPOC 9/1/2011
Solution & Interoperability Test Lab Application Notes
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1. Introduction

These Application Notes describe the configuration steps required for IPC Alliance MX 16.01 to interoperate with Avaya Modular Messaging 5.2 and Avaya® Communication Manger 6.0.1 in a centralized messaging environment using QSIG trunks to Avaya Aura® Communication Manager.

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2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually established among IPC turret users with Avaya SIP, Avaya H.323, PSTN users, and/or the Avaya Modular Messaging voicemail pilot to verify various call scenarios. The Avaya Modular Messaging Web Subscriber Options web-based interface was used to configure subscriber features such as Call Me.

The serviceability test cases were performed manually by disconnecting and reconnecting the E1 connection to IPC Alliance MX.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing included subscriber login, greeting, voice message, message waiting indicator, call forward, multiple call forward, personal operator, auto attendant, find me, call me, call sender, and transfer.

The serviceability testing focused on verifying the ability of IPC Alliance MX to recover from adverse conditions, such as disconnecting/reconnecting the E1 connection to IPC Alliance MX.

2.2. Test Results

All test cases were executed. The following were the observations from the compliance testing.

- IPC does not offer the Coverage feature, therefore coverage to voicemail for the turret users were accomplished by setting the Modular Messaging pilot number as the Call Forwarding destination for the users.

- For multiple call forward scenarios involving calls forwarded to the called party's forward-to extension and then covered subsequently to Modular Messaging based on the coverage setting at the forward-to extension, the greeting for the forward-to party may be played instead of the original called party. This will be addressed in a future Communication Manager release.

2.3. Support

Technical support on IPC Alliance MX can be obtained through the following:

- **Phone:** (800) NEEDIPC, (203) 339-7800
- **Email:** systems.support@ipc.com

3. Reference Configuration

As shown in the test configuration below, IPC Alliance MX at the Remote Site consisted of the Alliance MX, System Center, and Turrets. E1 QSIG trunks were used from IPC Alliance MX to Avaya Aura® Communication Manager, and T1 QSIG trunks were used from Avaya Aura® Communication Manager to Avaya Modular Messaging. In the test configuration, QSIG allowed IPC turret users at the Remote Site to "cover" to Avaya Modular Messaging at the Central site for voice messaging services.

The Avaya Aura® Session Manager was used in the configuration to support Avaya SIP endpoints, and the configuration of Avaya Aura® Session Manager was performed via the web interface of Avaya Aura® System Manager. The detailed administration of basic connectivity among Avaya Aura® Communication Manager and Avaya Modular Messaging is not the focus of these Application Notes and will not be described.

The detailed administration of E1 QSIG trunks between Avaya Aura® Communication Manager and IPC Alliance MX, to enable IPC turret users to reach users on Avaya Aura® Communication Manager and on the PSTN, is assumed to be in place with details described in [4]. A five digit Uniform Dial Plan (UDP) was used to facilitate dialing between the Central and Remote sites. Unique extension ranges were associated with Avaya Aura® Communication Manager users at the Central site (65xxx-66xxx), and IPC turret users at the Remote site (63xxx). The Avaya Modular Messaging pilot number was 60000. These Application Notes will focus on the additional configuration required to support IPC turret users as local subscribers on Avaya Modular Messaging.
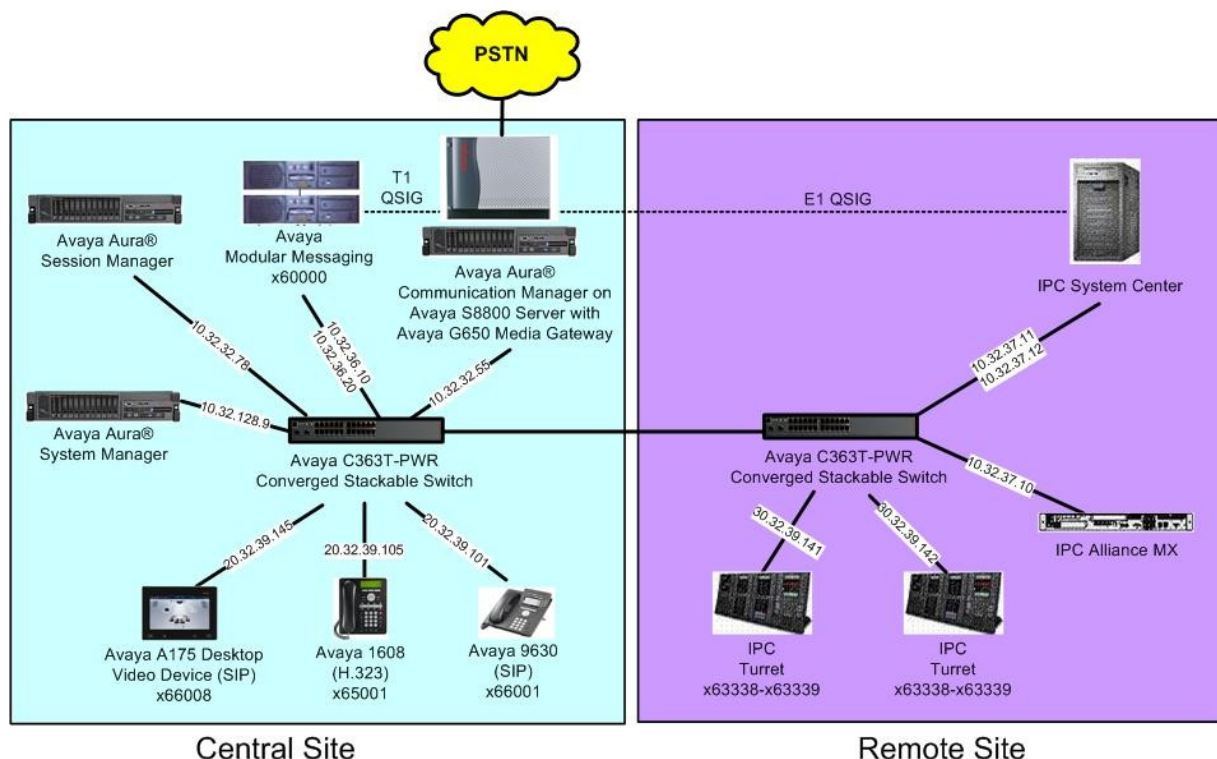
4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment	Software
Avaya Modular Messaging • Messaging Storage Server • Messaging Application Server	 5.2 SP7 5.2 SP7
Avaya Aura® Communication Manager on Avaya S8800 Server	6.0.1 SP2 with special patch 18993 (R016x.00.1.510.1-18993)
Avaya G650 Media Gateway • TN799DP C-LAN Circuit Pack • TN2302AP IP Media Processor • TN464HP DS1 Interface	 HW01 FW038 HW20 FW122 HW02 FW024
Avaya Aura® Session Manager	6.1 SP2
Avaya Aura® System Manager	6.1 SP2
Avaya A175 Desktop Video Device (SIP)	1.0.2
Avaya 1608 IP Telephone (H.323)	1.3
Avaya 9630 IP Telephone (SIP)	2.6.4
IPC • Alliance MX • System Center o QSIG Line Card • Turrets	 16.01.01.04.0005 16.01.01.04.0005 16.01.01.04.0005 16.01.01.04.0005

5. Configure Avaya Modular Messaging MSS

This section provides the procedures for configuring IPC turret users as local subscribers on Avaya Modular Messaging. The subscriber management is configured on the Messaging Storage Server (MSS) component. The configuration procedures include the following areas:

- Launch messaging administration
- Administer subscriber extension ranges
- Administer subscribers

5.1. Launch Messaging Administration

Access the MSS web interface by using the URL "http://ip-address" in an Internet browser window, where "ip-address" is the IP address of the MSS server. The **Logon** screen is displayed. Log in using a valid user name and password. The **Password** field will appear after a value is entered into the **Username** field.
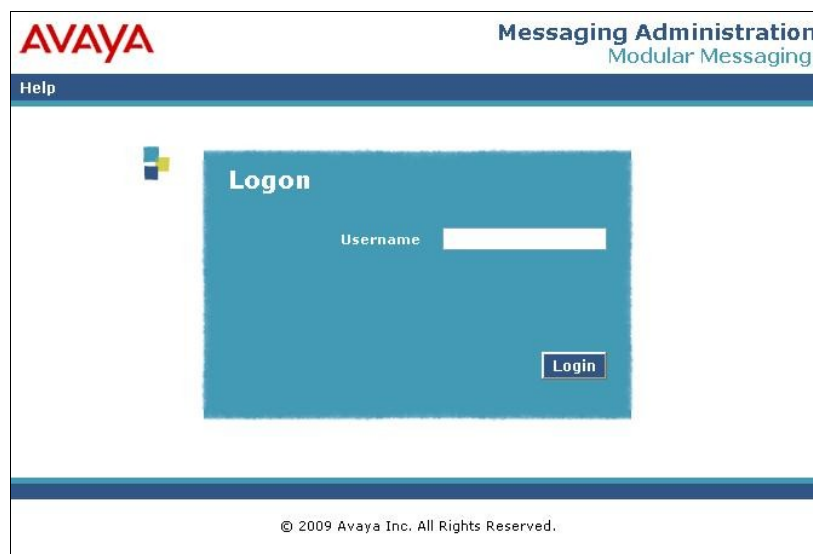
The **Messaging Administration** screen appears, as shown below.
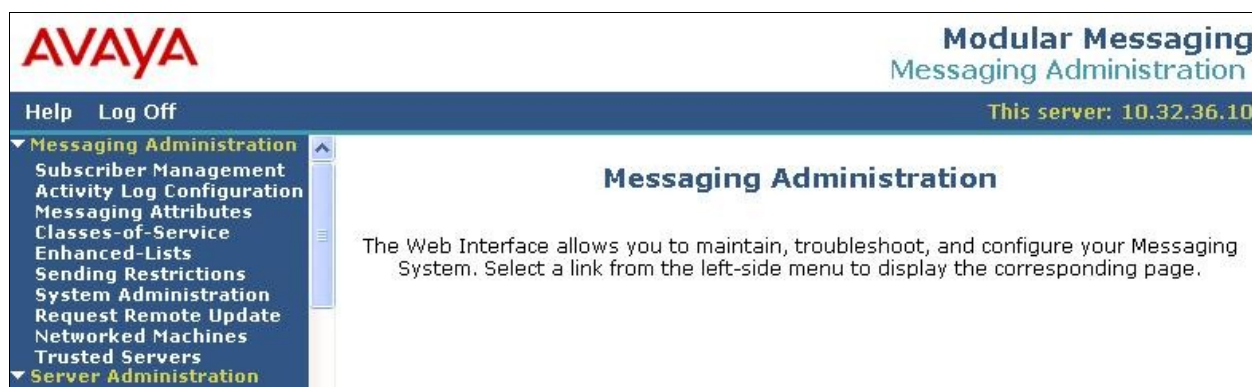
5.2. Administer Subscriber Extension Ranges

Select **Messaging Administration > Networked Machines** from the left pane, to display the **Manage Networked Machines** screen. Select the MSS server from the table listing, and click **Edit the Selected Networked Machine** toward the bottom right of the screen.

The **Edit Networked Machine** screen is displayed. Under the **MAILBOX NUMBER RANGES** section, locate an available entry line and enter the desired starting and ending mailbox numbers to be used for the IPC subscribers as necessary. In the compliance testing, the existing entry covered the 63xxx extensions used by the IPC turret users.

5.3. Administer Subscribers

Select **Messaging Administration > Subscriber Management** from the left pane, to display the **Manage Subscribers** screen. For the **Local Subscriber Mailbox Number** field toward the top of the screen, enter the first IPC turret user extension to add as a local subscriber, in this case "63338". Click **Add or Edit**.

The **Add Local Subscriber** screen is displayed next. Enter the desired string into the **Last Name**, **First Name**, and **Password** fields.

In the compliance testing, the same telephone extensions for the IPC subscribers were used for the **Mailbox Number**, **Numeric Address**, **PBX Extension**, and **Email Handle** fields. Select the appropriate **Class Of Service**, and retain the default values in the remaining fields. Repeat this section to add all IPC subscribers.

6. Configure IPC Alliance MX

This section provides the procedures for configuring IPC Alliance MX. The procedures include the following areas:

- Launch One Management System
- Administer voicemail buttons

The configuration of Alliance MX is typically performed by IPC installation technicians. The procedural steps are presented in these Application Notes for informational purposes.

6.1. Launch One Management System

Access the One Management System web interface by using the URL "http://ip-address/oneview" in an Internet browser window, where "ip-address" is the IP address of IPC System Center. Log in using the appropriate credentials.

The **Login** screen is displayed. Enter the appropriate credentials. Check **I agree to the terms and conditions**, and click **Login**.

The **License Login** screen is displayed next (not shown). Enter the appropriate password and click **Login**. In the subsequent **Login Information** screen (not shown), click **Continue**.

6.2. Administer Voicemail Buttons

The screen below is displayed next, with the **Main Menu** screen in the forefront. Select **BUTTON CONFIG > Button Data View**, as shown below.
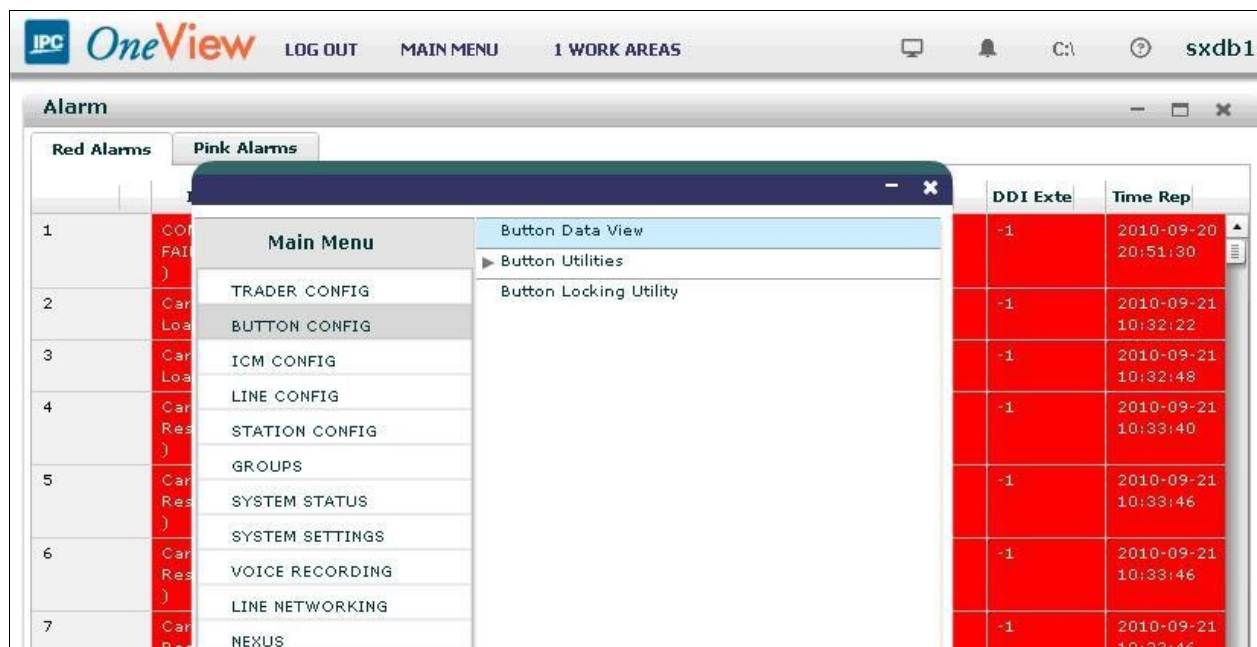
The **Button Data View** screen is displayed. For **TRID**, select the ID of the trader whose button sheet is being configured, in this case "1". For **Button Class**, select "MODULE BUTTON".

The **Button Data View** screen is updated with a list of configured module buttons. Follow [5] to add a voicemail button for each IPC subscriber, as shown below. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Button Type:** "VOICE MAIL"
- **Extended:** A desired name to use for the phone display.
- **Speed Dial:** The extension number of the IPC subscriber.
- **VM system:** The Modular Messaging pilot number from **Section 3**.

Repeat this for all trade users. In the compliance testing, two voicemail buttons for IPC subscriber extensions "63338" and "63339" were created on each of the two trade users.

7. Verification Steps

This section provides tests that can be performed to verify proper configuration of Avaya Modular Messaging and IPC Alliance MX.

Place a call from an IPC turret user to the Modular Messaging pilot number. Verify that Modular Messaging recognizes the calling party as a local subscriber.

8. Conclusion

These Application Notes describe the configuration steps required for IPC Alliance MX 16.01 to successfully interoperate with Avaya Modular Messaging 5.2 and Avaya Aura® Communication Manager 6.0.1 in a centralized messaging environment using QSIG trunks to Avaya Aura® Communication Manager.   All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

9. Additional References

This section references the product documentation relevant to these Application Notes.

1. *Administering Avaya Aura*^{TM} *Communication Manager*, Document 03-300509, Issue 6.0, Release 6.0, June 2010, available at http://support.avaya.com.

2. *CN 88003 Avaya Definity G3, Prologix & S8xx0*, Version AR, January 2010, available at http://support.avaya.com.

3. *Avaya Modular Messaging for the Avaya Message Store Server (MSS) Configuration,* Release 5.0, February 2009, available at http://support.avaya.com.

4. *Application Notes for IPC Alliance MX 16.01 with Avaya Aura® Communication Manager 6.0.1 using QSIG Trunks*, Issue 1.0, available at http://support.avaya.com.

5. *Alliance MX 16.1 Loads and Syncs*, Part Number B02200152, Revision Number 00, upon request to IPC Support.

6. *Alliance MX 16.1 Configuring Call Diversions*, Part Number B02200138, Revision Number 00, upon request to IPC Support.

TLT; Reviewed:
SPOC 9/1/2011

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