



## **Application Notes for IPC Unigy with Avaya Modular Messaging 5.2 and Avaya Aura® Communication Manager 5.2.1 in a Centralized Messaging Environment using QSIG Trunks – Issue 1.0**

### **Abstract**

These Application Notes describe the configuration steps required for IPC Unigy to interoperate with Avaya Modular Messaging 5.2 and Avaya Aura® Communication Manager 5.2.1 in a centralized messaging environment using QSIG trunks to Avaya Aura® Communication Manager.

IPC Unigy is a trading communication solution. In the compliance testing, IPC Unigy 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 Unigy 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.

# 1. Introduction

These Application Notes describe the configuration steps required for IPC Unigy to interoperate with Avaya Modular Messaging 5.2 and Avaya Aura® Communication Manager 5.2.1 in a centralized messaging environment using QSIG trunks to Avaya Aura® Communication Manager.

IPC Unigy is a trading communication solution. In the compliance testing, IPC Unigy 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 Unigy 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.

## 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, Avaya Digital, 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 Unigy.

### 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 Unigy to recover from adverse conditions, such as disconnecting/reconnecting the E1 connection to IPC Unigy.

## 2.2. Test Results

All test cases were executed. The following were the observations on IPC Unigy 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 all 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 were played instead of the original called party due to the called number not being passed by IPC for diverted calls.
- Upon logging into a turret, DTMF digits cannot be sent for initial calls with Modular Messaging when using the speakerphone, and the digits can be outpulsed in subsequent calls with Avaya endpoints. The workaround is to use the handset.

## 2.3. Support

Technical support on IPC Unigy can be obtained through the following:

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

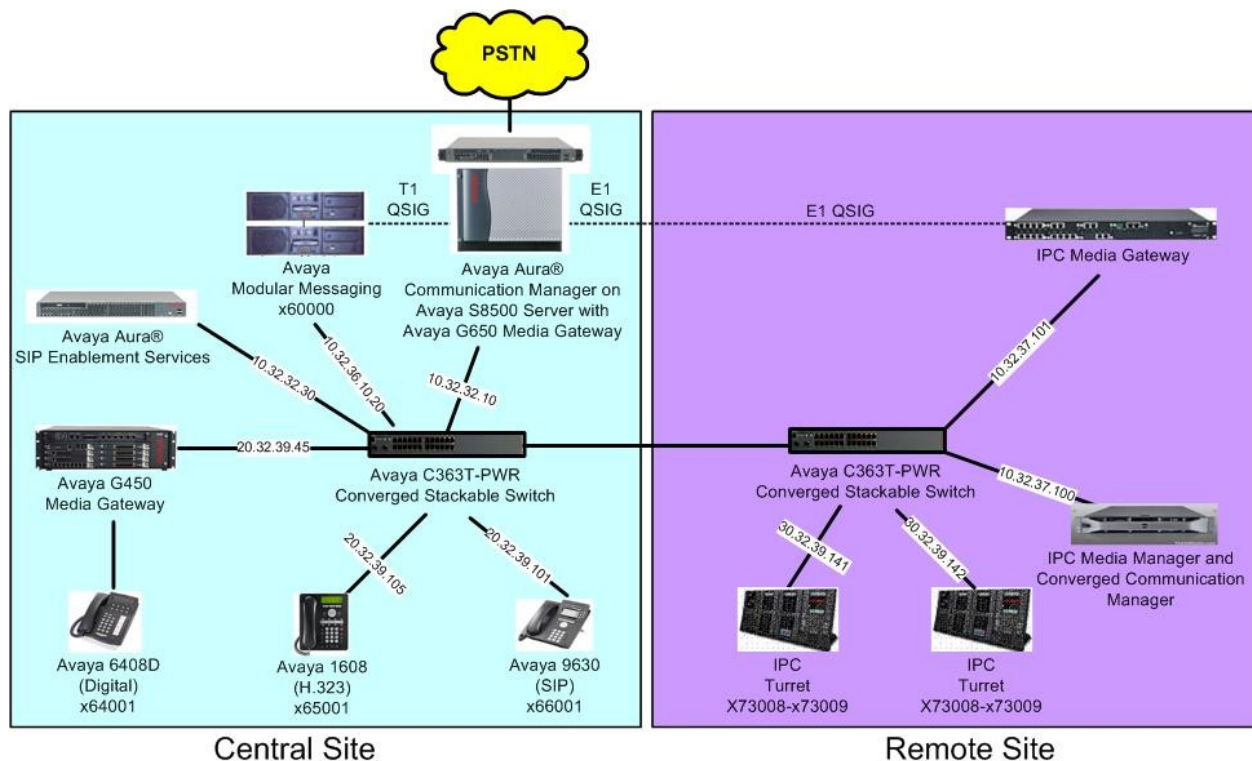
### 3. Reference Configuration

As shown in the test configuration below, IPC Unigy at the Remote Site consisted of the Media Manager, Converged Communication Manager, Media Gateway, and Turrets. E1 QSIG trunks were used from IPC Unigy 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® SIP Enablement Services was used in the configuration to support Avaya SIP endpoints. The detailed administration of basic connectivity among Avaya Aura® Communication Manager, Avaya Aura® SIP Enablement Services, 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 Unigy, 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 (64xxx-66xxx), and IPC turret users at the Remote site (73xxx). 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 <ul style="list-style-type: none"><li>Messaging Storage Server</li><li>Messaging Application Server</li></ul>	5.2 SP8 P4 5.2 SP8 P4
Avaya Aura® Communication Manager on Avaya S8500 Server	5.2.1 SP7.01 with special patch 19141 (R015x.02.1.016.4-19141)
Avaya G650 Media Gateway <ul style="list-style-type: none"><li>TN799DP C-LAN Circuit Pack</li><li>TN2302AP IP Media Processor</li><li>TN464HP DS1 Interface</li></ul>	HW01 FW038 HW20 FW122 HW02 FW024
Avaya G450 Media Gateway <ul style="list-style-type: none"><li>MM712AP DCP</li></ul>	28.17 HW07 FW011
Avaya Aura® SIP Enablement Services	5.2.1 SP4 (SES-5.2.1.0-016.4-SP4C)
Avaya 1608 IP Telephone (H.323)	1.3
Avaya 9630 IP Telephone (SIP)	2.6.4
Avaya 6408D Digital Telephone	NA
IPC Unigy <ul style="list-style-type: none"><li>Media Manager</li><li>Converged Communication Manage</li><li>Media Gateway</li><li>Turrets</li></ul>	01.00.00.01.0003 01.00.00.01.0003 6.00AL.025.0002 01.00.00.01.0003

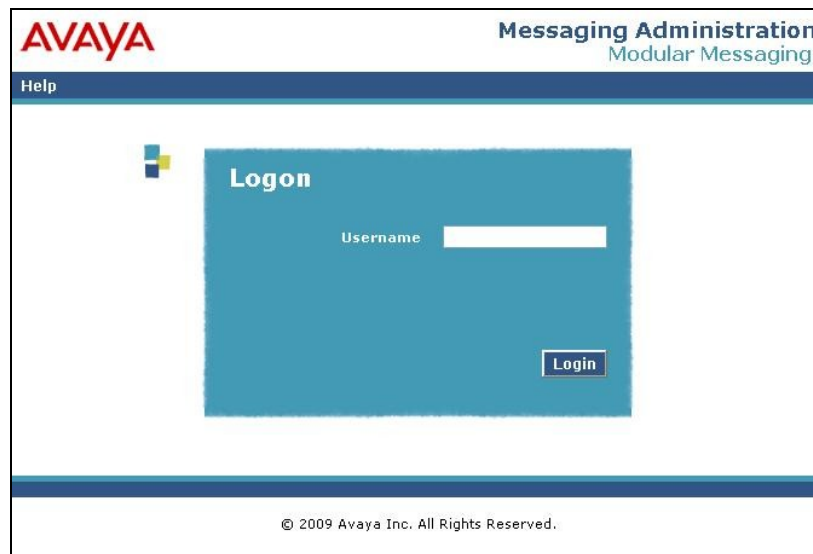
## 5. Configure Avaya Modular Messaging MSS

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 screenshot shows the Avaya Modular Messaging Messaging Administration interface. The left pane lists various administration tasks, with 'Networked Machines' selected under 'Server Administration'. The main pane displays the 'Manage Networked Machines' screen. It features a table with the following data:

Machine	IP Address	Machine Type	Total Subs
brmss1	10.32.36.10	local	11

Below the table are several buttons: 'Display Report of Networked Machines', 'Delete the Selected Networked Machine', 'Add a New Networked Machine', 'Edit the Selected Networked Machine', 'Display Network Snapshot', and 'Display Report of Networked Machine Ranges'.

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 entry 70000-79999 was added for the IPC turret users.

The screenshot shows the 'Edit Networked Machine' screen. It contains several form fields for configuring the machine. The fields are as follows:

Field	Value
Machine Name	brmss1
IP Address	10.32.36.10
Machine Type	tcpip
Mailbox Number Length	5
Default Community	1
Updates In	yes
Updates Out	yes
LDAP Port	56389
Log Updates In	no

Below these fields is the 'MAILBOX NUMBER RANGES' section, which includes a table for adding new ranges:

Prefix	Starting Mailbox Number	Ending Mailbox Number
	60000	69999
	70000	79999



### 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 “73008”. Click **Add or Edit**.

**AVAYA** Modular Messaging  
Messaging Administration  
This server: 10.32.36.10

Help Log Off

**Manage Subscribers**

- Local Subscriber Mailbox Number

	Machine Name	Local Subscriber Mailboxes	Total Subscribers	Filtered Subscribers
Local Subscribers	brmss1	22	23	23

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.

**AVAYA** Modular Messaging  
Messaging Administration  
This server: 10.32.36.10

Help Log Off

**Add Local Subscriber**

**BASIC INFORMATION**  
\* (Required Fields)

*Last Name	<input type="text" value="IPC"/>	First Name	<input type="text" value="Trad 8"/>
*Password	<input type="password" value="....."/>	*Mailbox Number	<input type="text" value="73008"/>
*Numeric Address	<input type="text" value="73008"/>	PBX Extension	<input type="text" value="73008"/>
*Class Of Service	<input type="text" value="0 - class00"/>	*Community ID	<input type="text" value="1"/>

**SUBSCRIBER DIRECTORY**

Email Handle	<input type="text" value="73008@brmss1.br110.com"/>	Telephone Number	<input type="text"/>
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## 6. Configure IPC Media Manager

This section provides the procedures for configuring IPC Media Manager. The procedures include the following areas:

- Launch Unigy Management System
- Administer dial patterns
- Administer route plans
- Administer voicemail buttons

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

### 6.1. Launch Unigy Management System

Access the Unigy Management System web interface by using the URL “http://ip-address” in an Internet browser window, where “ip-address” is the IP address of the Media Manager. Log in using the appropriate credentials.

The screen below is displayed. Enter the appropriate credentials. Check **I agree with the Terms of Use**, and click **Login**.

In the subsequent screen (not shown), click **Continue**.



The screenshot shows the login interface for the IPC Unigy Management System. On the left is the IPC logo. To its right are two input fields: 'User Name:' and 'Password:'. Below these fields is a checkbox labeled 'I agree with the' followed by a link 'Terms of Use'. A 'Login' button is positioned to the right of the checkbox. At the bottom of the form, the following text is displayed: 'IPC Unigy™ Management System', 'Unigy™ Version 01.00.00.01.0003', and '© Copyright 2011 IPC Systems, Inc.'

## 6.2. Administer Dial Patterns

In the subsequent screen, select **Configuration > Site Configuration** from the top menu. The **Site Configuration** information is displayed in the left pane.

Select **Routing > Dial Patterns** in the left pane, to display the **Dial Patterns** screen in the right pane. Click **Add New** in the upper right pane.

Add a new dial pattern for the Modular Messaging pilot number from **Section 3**, and another dial pattern for Modular Messaging that includes the routing prefix from Communication Manager. Note that when a call to an Avaya endpoint covers to Modular Messaging, the divert destination received from Communication Manager will include the routing prefix, which must be configured on Media Manager.

In the compliance testing, the existing dial pattern “6xxxx” included the Modular Messaging pilot number “60000”, and a new dial pattern was added below to include the existing AAR routing prefix “8” from Communication Manager.

In the **Dial pattern Details** sub-section in the lower right pane, enter the dial pattern to match in the **Pattern String** field, in this case “860000”. Enter desired **Name** and **Description**, and select “External” for **Call Classification**. Click **Save** (not shown).

The screenshot shows the UniGY web interface. The top navigation bar includes 'Configuration', 'System Designer', 'Alarms', 'Tools', 'About', and 'Help'. The main header displays 'Configuration -> Site Configuration' and 'Powered by'. The left sidebar shows a tree view of configuration options, with 'Dial Patterns' selected under 'Routing'. The main content area is divided into two sections: 'Dial Patterns' and 'Dial pattern Details'.

**Dial Patterns Table:**

Name	Pattern String	Outbound CLI	Call Classification	Prefix Digits	Description
6xxxx	6\$\$\$\$		External		Avaya Endpoints
91xxxxxxxxxx	91\$\$\$\$\$\$\$\$\$		External		PSTN

The 'Add New' button in the bottom right of the 'Dial Patterns' section is circled in red.

**Dial pattern Details Properties:**

- Name: 860000
- Description: MM Coverage
- Pattern String: 860000
- Outbound CLI: (empty)
- Call Classification: External

### 6.3. Administer Route Plans

Select **Routing > Route Plans** in the left pane, and click **Add New** (not shown) in the right pane to create a new route plan for each new dial pattern from **Section 6.2**.

The screen is updated with three panes, as shown below. In the **Route Plan** middle pane, enter a descriptive **UI Name** and optional **Description**. For **Calling Party**, enter “\*” to denote any calling party from Unigy. For **Called Party**, select the dial pattern from **Section 6.2**. Select “Forward” for **Action**, and click **Save** (not shown).

The screenshot shows the Unigy configuration interface. The top navigation bar includes 'Configuration', 'System Designer', 'Alarms', 'Tools', 'About', and 'Help'. The right side of the top bar shows the time '10:21 EDT-0400' and the user 'mgr1'. The main header is 'Configuration -> Site Configuration'. The left pane, 'Site Configuration', has a 'Location' dropdown set to 'All Locations' and a tree view with 'Routing' selected. The middle pane, 'Route Plan', contains a 'Create New Route Plan' form with the following fields: 'UI Name' (IPC2MMQ), 'Description' (empty), 'Calling Party' (\*), 'Called Party' (860000), and 'Action' (Forward). The right pane, 'Available to Assign', shows a 'Route Lists' section with a table containing one entry: 'Avaya QSIG Route'.

The screen is updated with the newly created route plan. Select the route plan, and click **Edit** toward the bottom of the screen (not shown).

The screenshot shows the Unigy configuration interface with the 'List of Route Plans' table. The top navigation bar and header are the same as in the previous screenshot. The left pane is the same. The middle pane, 'Route Plan', now displays a table with the following data:

UI Name	Calling Party	Called Party	Action
IPC2Avaya	*	6xxxx	FORWARD
IPC2PSTN	*	91xxxxxxxxxx	FORWARD
IPC2MMQ	*	860000	FORWARD

The right pane, 'Available to Assign', is still visible and contains the same 'Route Lists' section.

The screen is updated with three panes again. In the right pane, select the applicable route list and drag into the **Route List** sub-section in the middle pane, as shown below. Click **Save**.

Repeat this section as necessary to add a new route plan for each new dial pattern from **Section 6.2**.

The screenshot displays the UniQy Configuration -> Site Configuration interface. The top navigation bar includes links for Configuration, System Designer, Alarms, Tools, About, and Help, along with the time 10:30 EDT-0400 and the user mgr1. The main interface is divided into three panes:

- Left Pane (Site Configuration):** A tree view showing the configuration hierarchy. The 'Routing' section is expanded, and 'Route Plans' is selected. Other options include Trunks, Communication Devices, Servers, Lines and Extensions, Hunt Group, Trunk Groups, Route Lists, Dial Patterns, Codecs, Voice Recording, License Manager, System, Directories, and System Features.
- Middle Pane (Route Plan):** A form titled 'Create New Route Plan'. It contains the following fields:
  - UI Name: IPC2MMQ
  - Description: (empty)
  - Calling Party: \*
  - Called Party: 860000
  - Action: Forward
  - Route List: Avaya QSIG RouteButtons at the bottom include Back, Revert, and Save.
- Right Pane (Available to Assign):** A list of available route lists. The 'Route Lists' tab is active, showing a table with the following data:

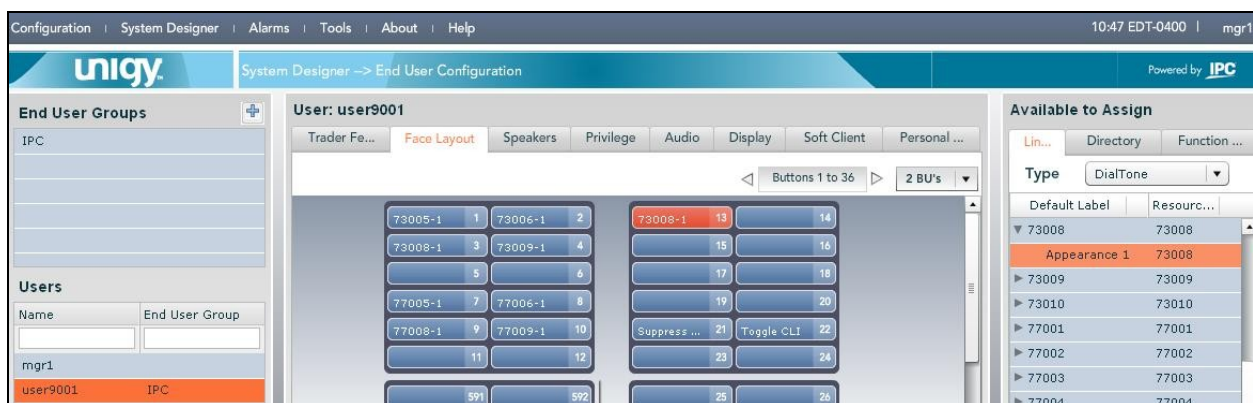
Name
Avaya QSIG Route

## 6.4. Administer Voicemail Buttons

Select **System Designer > End User Configuration** from the top menu, to display the end user information in the left pane. Select the desired user from the left pane, in this case “user9001”.

In the middle pane, select the **Face Layout** tab.

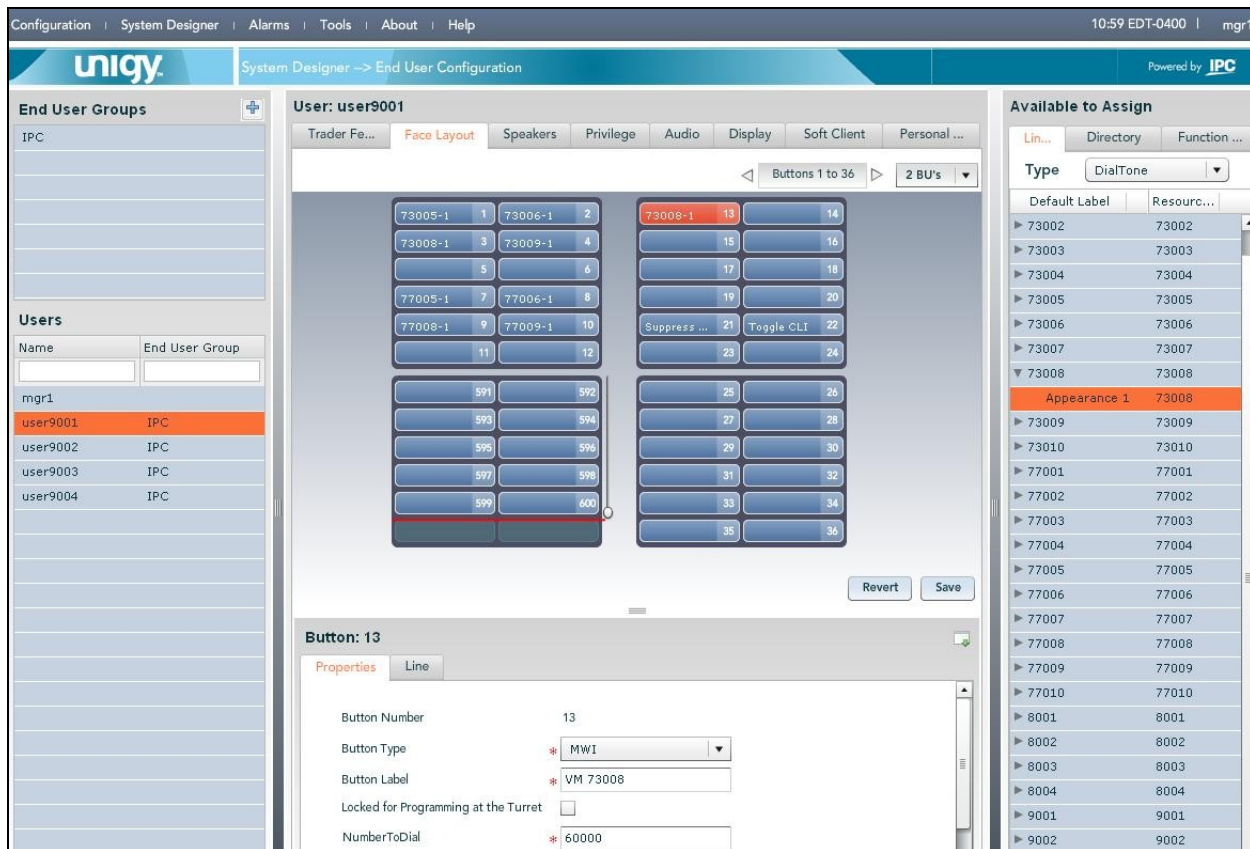
In the right pane, select the **Lines** tab. For **Type**, select “DialTone” from the drop-down list to display a list of available lines. Scroll the pane as necessary to locate and expand the desired turret extension, in this case “73008”. Select the corresponding appearance for the turret extension from the right pane, and drag into an available button in the middle pane, in this case button “13” as shown below.



Select the new button in the upper middle pane, in this case button “13”, to enable the button to be configured in the lower middle pane.

In the lower middle pane, enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Button Type:** “MWI”
- **Button Label:** A descriptive name.
- **NumberToDial:** The Modular Messaging pilot number from **Section 3**.



Repeat this section for all desired users. In the compliance testing two voicemail buttons corresponding to turret subscriber extensions of “73008” and “73009” were created for the two turrets users.





## 7. Configure IPC Media Gateway

This section provides the procedures for configuring IPC Media Gateway. The procedures include the following areas:

- Launch gateway web interface
- Obtain network interface name
- Administer media realm
- Administer proxy sets
- Administer IP group
- Administer trunk group settings
- Administer MWI notification

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

### 7.1. Launch Gateway Web Interface

Access the Media Gateway web interface by using the URL “http://ip-address” in an Internet browser window, where “ip-address” is the IP address of the Media Gateway. Log in using the appropriate credentials.



The screenshot shows the login interface for the IPC Unigy Management System. On the left is the IPC logo. To its right are two input fields: 'User Name:' and 'Password:'. Below the password field is a checkbox labeled 'I agree with the' followed by a link to 'Terms of Use'. A 'Login' button is positioned to the right of the checkbox. At the bottom of the page, the text reads: 'IPC Unigy™ Management System', 'Unigy™ Version 01.00.00.01.0003', and '© Copyright 2011 IPC Systems, Inc.'

## 7.2. Obtain Network Interface Name

The screen below is displayed. Click the radio button for **Full** in the left pane, and select **VoIP > Network Settings > IP Settings** to display the **Multiple Interface Table** screen. Note the value of **Interface Name**, in this case “Voice”.

The screenshot shows the AudioCodes Mediant 1000 - MSBG web interface. The top navigation bar includes the AudioCodes logo, the device name 'Mediant 1000 - MSBG', and buttons for 'Submit', 'Burn', 'Device Actions', 'Home', 'Help', and 'Log off'. The left sidebar contains a tree view with categories: Configuration, Management, and Status & Diagnostics. Under Configuration, the 'Full' radio button is selected. The tree view shows a hierarchy: System > VoIP > Network Settings > IP Settings. The main content area is titled 'Multiple Interface Table'. It includes a note: 'Note: Select row index to modify the relevant row.' Below the note is an 'Add Index' button and a 'Done' button. A table displays the interface configuration:

Index	Application Type	IP Address	Prefix Length	Gateway	VLAN ID	Interface Name
0	<input type="radio"/> QAMP + Media + Control	10.32.37.101	24	10.32.37.1	1	Voice

Below the table is a horizontal scrollbar.

### 7.3. Administer Media Realm

Select **VoIP > Protocol Configuration > Media Realm Configuration** from the left pane to display the **SIP Media Realm Table** screen. Enter “0” and click **Add Index**.

In the new index entry line, enter the values shown in the screenshot below. Note that the **Media Real Name** can be any descriptive name, and the **IPv4 Interface Name** is the network interface name from **Section 7.2**.

AudioCodes Mediant 1000 - MSBG

Configuration Management Status & Diagnostics

Search

Basic

System

VoIP

Network Settings

Media Settings

PSTN Settings

Protocol Configuration

Media Realm Configuration

Applications Enabling

Trunk Group

Protocol Definition

Application Network Setting

Proxies, Registration, IP Groups

Coders And Profile Definitions

SIP Advanced Parameters

Manipulation Tables

Routing Tables

Alternative Routing

Routing General Parameters

Tel to IP Routing

IP to Trunk Group Routing

SIP Media Realm Table

Basic Parameter List

0 Add Index Delete Apply

Index	Media Realm Name	IPv4 Interface Name	Port Range Start	Number Of Media Session Legs	Port Range End
0	LanRealm	Voice	6000	120	7190

Default Media Realm Name

Submit

## 7.4. Administer Proxy Sets

Select **VoIP > Protocol Configuration > Proxies, Registration, IP Groups > Proxy Sets Table** from the left pane to display the **Proxy Sets Table** screen.

For **Proxy Set ID**, select “0”. Set the first **Proxy Address** to the IP address of IPC Media Manager, and set the corresponding **Transport Type** to “UDP”. Retain the default values in the remaining fields.

Repeat the above with **Proxy Set ID** of “1”. Note that the current release requires both proxy set IDs to be configured.

The screenshot shows the AudioCodes Mediant 1000 - MSBG configuration interface. The left pane displays a tree view with the following structure:

- System
  - VoIP
    - Network Settings
    - Media Settings
    - PSTN Settings
    - Protocol Configuration
      - Media Realm Configuration
      - Applications Enabling
      - Trunk Group
      - Protocol Definition
      - Application Network Setting
      - Proxies, Registration, IP Groups
        - IP Group Table
        - Account Table
        - Proxy & Registration
        - Proxy Sets Table**
      - Coders And Profile Definitions
      - SIP Advanced Parameters
      - Manipulation Tables
      - Routing Tables
      - Alternative Routing

The main pane displays the **Proxy Sets Table** configuration screen. At the top, there is a dropdown menu for **Proxy Set ID** set to 0. Below this is a table with 5 rows and 2 columns: **Proxy Address** and **Transport Type**.

	Proxy Address	Transport Type
1	10.32.37.100	UDP
2		
3		
4		
5		

Below the table is a section for additional settings:

Enable Proxy Keep Alive	Disable
Proxy Keep Alive Time	60
Proxy Load Balancing Method	Disable
Is Proxy Hot Swap	No

A **Submit** button is located at the bottom right of the main pane.

## 7.5. Administer IP Group

Select **VoIP > Protocol Configuration > Proxies, Registration, IP Groups > IP Group Table** from the left pane to display the **IP Group Table** screen.

For **Proxy Set ID**, select “1”. For **Media Realm**, select the media realm name from **Section 7.3**. Retain the default values in the remaining fields.

The screenshot displays the AudioCodes Mediant 1000 - MSBG web interface. The left navigation pane shows the tree structure with 'IP Group Table' selected under 'Proxies, Registration, IP Groups'. The main content area is titled 'IP Group Table' and contains a 'Basic Parameter List' section. The 'Index' dropdown is set to '1'. The 'Common Parameters' section includes fields for 'Description', 'Proxy Set ID' (set to '1'), 'SIP Group Name', 'Contact User', 'IP Profile ID' (set to '0'), 'SRD' (set to '0'), and 'Media Realm' (set to 'LanRealm'). The 'Gateway Parameters' section includes 'Always Use Route Table' (set to 'No'), 'Routing Mode' (set to 'Not Configured'), 'SIP Re-Routing Mode' (set to 'Standard'), 'Enable Survivability' (set to 'Disable'), and 'Service IP Group ID'. A 'Submit' button is located at the bottom right of the configuration area.

Basic Parameter List	
Index	1
Common Parameters	
Description	
Proxy Set ID	1
SIP Group Name	
Contact User	
IP Profile ID	0
SRD	0
Media Realm	LanRealm
Gateway Parameters	
Always Use Route Table	No
Routing Mode	Not Configured
SIP Re-Routing Mode	Standard
Enable Survivability	Disable
Service IP Group ID	

## 7.6. Administer Trunk Group Settings

Select **VoIP > Protocol Configuration > Trunk Group > Trunk Group Settings** from the left pane to display the **Trunk Group Settings Table** screen.

Create a new trunk group entry with the following values for the specified fields.

- **Trunk Group ID:** “1”
- **Channel Select Mode:** “Cyclic Ascending”
- **Registration Mode:** The IP group table index from **Section 7.5**.
- **MWI Interrogation Type:** “Use Result” to enable sending of SIP NOTIFY messages.

The screenshot shows the AudioCodes Mediant 1000 - MSBG web interface. The left navigation pane is expanded to 'Full' configuration, showing a tree structure with 'Trunk Group Settings' selected. The main content area displays the 'Trunk Group Settings' table. The table has columns for Trunk Group ID, Channel Select Mode, Registration Mode, Serving IP Group ID, Gateway Name, Contact User, and MWI Interrogation Type. The first row (ID 1) is configured with 'Cyclic Ascending' for Channel Select Mode, '1' for Registration Mode, and 'Use Result' for MWI Interrogation Type. The remaining rows (IDs 2-10) are marked as 'Not Configured'. A 'Submit' button is located at the bottom right of the table area.

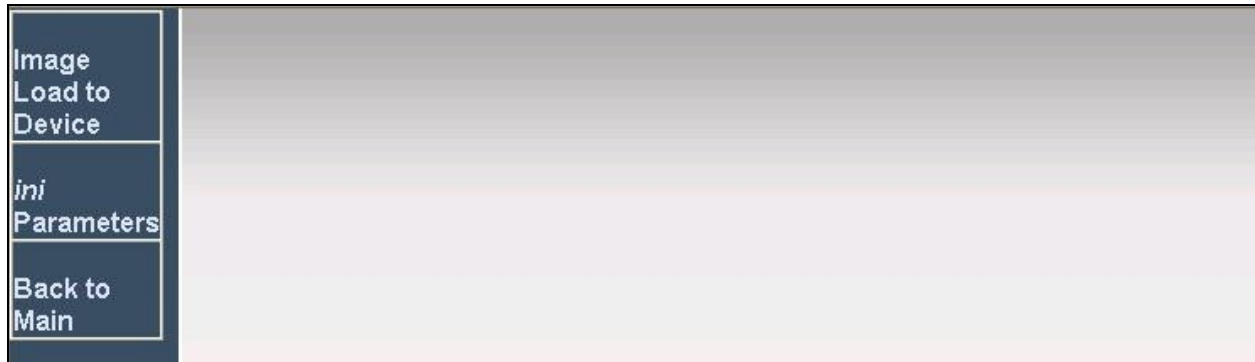
Trunk Group ID	Channel Select Mode	Registration Mode	Serving IP Group ID	Gateway Name	Contact User	MWI Interrogation Type
1	Cyclic Ascending	1	1			Use Result
2						Not Configured
3						Not Configured
4						Not Configured
5						Not Configured
6						Not Configured
7						Not Configured
8						Not Configured
9						Not Configured
10						Not Configured



## 7.7. Administer MWI Notification

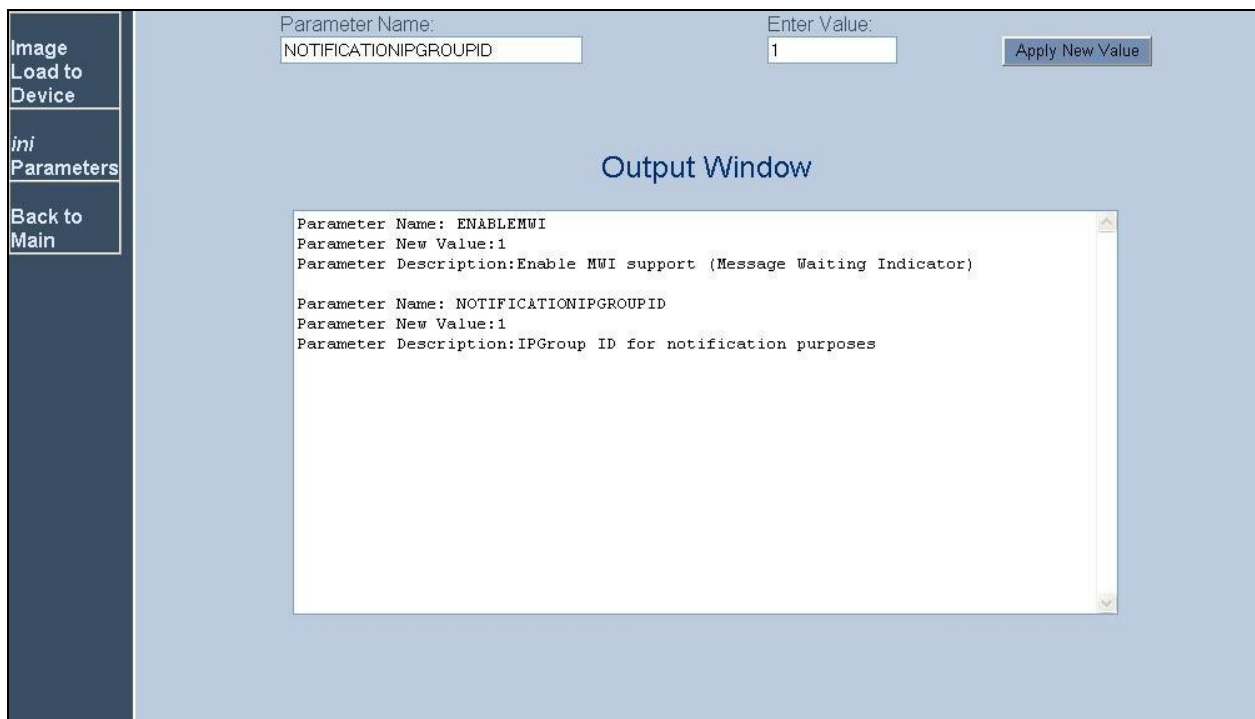
Access the Media Gateway administration page web interface by using the URL “http://ip-address/AdminPage” in an Internet browser window, where “ip-address” is the IP address of the Media Gateway.

The screen below is displayed. Select **ini Parameters**, and enter the appropriate credentials in the pop-up box (not shown).



The screen below is displayed next. Enter “ENABLEMWI” and “1”, and click **Apply New Value** to set the parameter.

Repeat with “NOTIFICATIONGROUPID” and “1” as shown below.



## 8. Verification Steps

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

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.

## 9. Conclusion

These Application Notes describe the configuration steps required for IPC Unigy to successfully interoperate with Avaya Modular Messaging 5.2 and Avaya Aura® Communication Manager 5.2.1 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**.

## 10. Additional References

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

1. *Administering Avaya Aura™ 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 Unigy with Avaya Aura® Communication Manager 5.2.1 using QSIG Trunks*, Issue 1.0, available at <http://support.avaya.com>.
5. *Unigy 1.1 System Configuration*, Part Number B02200187, Release 00, upon request to IPC Support.

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