

Avaya Solution & Interoperability Test Lab

### Application Notes for Configuring Avaya Communication Manager, Avaya Modular Messaging or Avaya INTUITY<sup>TM</sup> AUDIX® LX to Support IPC Information Systems Alliance MX using QSIG – Issue 1.0

#### Abstract

The Application Notes describe how to configure Avaya Communication Manager to support the IPC Information Systems Alliance MX using QSIG. The Application Notes also describe steps to configure Avaya Modular Messaging or Avaya INTUITY<sup>TM</sup> AUDIX® LX which can be used to provide messaging functionality.

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

The Application Notes describe how to configure Avaya Communication Manager to support the IPC Information Systems Alliance MX using QSIG. The Application Notes also describe steps to configure Avaya Modular Messaging or Avaya INTUITY<sup>TM</sup> AUDIX® LX which can be used to provide messaging functionality.

The Alliance MX is a voice technology product designed to provide a high resiliency platform for provision of telephony and other associated services to financial traders. The Alliance MX provides its users with connectivity to various telephone transport services. Included in the transport services is E1 connectivity for connection within the private network where the signaling protocol is QSIG.

QSIG is a peer equal signaling system used to control voice communication and other services between two or more private automatic branch exchanges (PABXs). QSIG is normally utilized by IPC to connect the Alliance MX and an associated PABX so that routed voice communication can be established between the two entities.

Avaya Modular Messaging and Avaya INTUITY<sup>TM</sup> AUDIX® LX are the two Avaya messaging systems validated with IPC to support existing and new customers' requirements.

These Application Notes describe detail configuration steps for

- Avaya Communication Manager (Section 4)
  - System parameters
  - QSIG link to Alliance MX
  - QSIG link to Avaya Modular Messaging
  - C-LAN integration for Avaya INTUITY<sup>TM</sup> AUDIX® LX
- Avaya Modular Messaging (Section 5)
- Avaya INTUITY<sup>TM</sup> AUDIX® LX (Section 6)

The Alliance MX configuration is not documented in these Application Notes based on IPC's support policy. IPC engineers are responsible for the installation and maintenance of the Alliance MX products.

#### 1.1. Interoperability Compliance Testing

The interoperability compliance testing included feature and serviceability testing. The feature testing focused on verifying the Alliance MX's ability to request and respond to Avaya Communication Manager, Avaya Modular Messaging and Avaya INTUITY<sup>TM</sup> AUDIX® LX features over a QSIG link.

The serviceability testing focused on verifying the Alliance MX's ability to recover from an outage condition, such as busy out the QSIG link and disconnecting the cable for the QSIG link. In addition to simplistic routed voice communication (basic call), the interoperability compliance testing covers the following supplementary services and features:

- Provisioning and display of both calling and connected party name and number.
- Restriction of both calling and connected party name and number.
- Transfer, with informational phases.
- Call forward (busy, unconditional and no reply), with informational phases, by either forward switch methodology or reroute methodology.
- Message Waiting Indicator (MWI).
- Auto Attendant.
- EC500.

#### 1.2. Support

Technical support for the IPC products can be obtained from IPC. See the support link at <u>www.ipc.com</u> for contact information.

Technical support for the Avaya products can be obtained from Avaya. See the support link at <u>support.avaya.com</u> for contact information.

### 2. Reference Configuration

**Figure 1** illustrates the configuration used to verify these Application Notes. It consists of Avaya Communication Manager, Avaya Modular Messaging Servers, Avaya INTUITY<sup>TM</sup> AUDIX® LX server, Avaya H.323 Phones, DCP phones, Avaya Attendant Console, IPC Alliance MX, IPC System Center and IPC turrets.

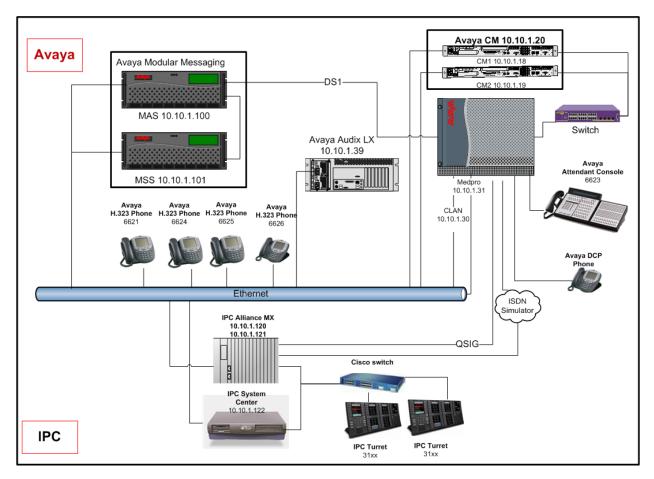


Figure 1: Network Diagram of the Compliance Tested Configuration

### 3. Equipment and Software Validated

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

Equipment	Software
Avaya S8730 Servers	Avaya Communication Manager
	5.1.1sp2 Build 415.1-16823
Avaya G650 Media Gateway :	
• IPSI (TN2312AP)	HW02 FW044
• C-LAN (TN799DP)	HW01 FW026
<ul> <li>MEDPRO (TN2302AP)</li> </ul>	HW11 FW118
• Digital Line (TN2214CP)	HW05 FW015
• DS1 Interface (TN2464CP)	HW02 FW019
• DS1 Interface (TN2464BP)	HW05 FW019
Avaya Modular Messaging Servers (S3500) :	4.0 sp2 Build 7.2.696.3
<ul> <li>Messaging Application Server (MAS)</li> </ul>	
<ul> <li>Messaging Storage Server (MSS)</li> </ul>	
Avaya S3210 Server	Audix LX 2.0
Avaya 4620SW IP Telephones	2.9 (H.323)
Avaya 2420 Digital Telephones	
Avaya 302D Attendant Console	
IPC Information Systems Alliance MX	Alliance Release 15.2
IPC System Center	Alliance Release 15.2
Sun ULTRA 25	
IPC IQMAX Turrets	Alliance Release 15.2

# 4. Avaya Communication Manager

The steps in this section describe the Avaya Communication Manager configuration needed to support QSIG integration with the Alliance MX product. These Application Notes assumes that the references configuration depicted in **Figure 1** is already in place.

### 4.1. Configure Avaya Communication Manager Licenses and Features

	escription			
<b>(S</b>	se the <b>display system-parameters special-applications</b> comm <b>A8440) - Unmodified QSIG Reroute Number?</b> is set to y. T ssword and Key are required. If this option is not set, please c	o supp	ort this	feature,
	siness partner for a proper license file.			
	display system-parameters special-applications SPECIAL APPLICATIONS	Page	3 of	8
	(SA8141) - LDN Attendant Queue Priority? n			
	(SA8143) - Omit Designated Extensions From Displays? n			
	(SA8146) - Display Update for Redirected Calls? n			
	(SA8156) - Attendant Priority Queuing by COR? n			
	(SA8157) - Toll Free Vectoring until Answer? n			
	(SA8201) - Start Time and 4-Digit Year CDR Custom Fields? n			
	(SA8202) - Intra-switch CDR by COS? n (SA8211) - Prime Appearance Preference? n			
	(SA8240) - Station User Admin of FBI? n			
	(SA8312) - Meet-Me Paging? n			
	(SA8323) - Idle Call Preference Display? n			
	(SA8339) - PHS X-Station Mobility? n			
	(SA8348) - Map NCID to Universal Call ID? n			
	(SA8428) - Station User Button Ring Control? n			
	(SA8434) - Delay PSTN Connect on Agent Answer? n			
	(SA8439) - Forward Held-Call CPN? n			
	(SA8440) - Unmodified QSIG Reroute Number? y			

Description	
Use the display system-parameters cus	tomer-options command. On Page 4, verify th
<b>SDN-PRI</b> is set to y.	
display system-parameters customer-opti OPTIONA	ons Page 4 of 10 L FEATURES
Emergency Access to Attendant? y	IP Stations? y
Enable 'dadmin' Login? y	
Enhanced Conferencing? y Enhanced EC500? y	ISDN Feature Plus? y ISDN/SIP Network Call Redirection? y
Enterprise Survivable Server? n	ISDN/SIF Network Call Redifection? y ISDN-BRI Trunks? y
Enterprise Wide Licensing? n	ISDN DRI II UNKO: y ISDN-PRI? y
ESS Administration? n	Local Survivable Processor? n
Extended Cvg/Fwd Admin? y	Malicious Call Trace? y
External Device Alarm Admin? n	Media Encryption Over IP? y
Flexible Billing? n	Mode Code for Centralized Voice Mail? n
Forced Entry of Account Codes? n	Multifrequency Signaling? y
Global Call Classification? n Hospitality (Basic)? y	Multimedia Call Handling (Basic)? y Multimedia Call Handling (Enhanced)? y
Hospitality (G3V3 Enhancements)? n IP Trunks? v	Multimedia IP SIP Trunking? y
IP Attendant Consoles? n	to effect the permission changes.)
On Page 5 verify that Private Networki	ng and Uniform Dialing Plan are both set to
display system-parameters customer-opti OPTIONA	ons Page 5 of 10 L FEATURES
Multinational Locations	? y Station and Trunk MSP? n
Multiple Level Precedence & Preemption Multiple Locations	
	System Management Data Transfer? n
Personal Station Access (PSA)	
PNC Duplication Port Network Support	
Poit Network Support Posted Messages	
100000 110000300	Uniform Dialing Plan? y
Private Networking	<b>? y</b> Usage Allocation Enhancements? y
Processor and System MSP	
Processor Ethernet	Wireless? n
Remote Office Restrict Call Forward Off Net	
Secondary Data Module	
	Basic Supplementary Services, Centralized
Attendant, Supplementary Services wi are all set to y.	th Rerouting and Transfer into QSIG Voice
display system-parameters customer-opt QSIG OPTIO	ions Page 8 of 10 NAL FEATURES
Cen	Basic Call Setup? y lementary Services? y tralized Attendant? y erworking with DCS? n
	ces with Rerouting? y

display system-parameters	FEATURE-RELATED SYSTEM PAR Self Station Display En	abled? y
Ca	Trunk-to-Trunk Tra No Answer Timeout Interval (r Il Park Timeout Interval (min Detect Timeout Interval (sec	ings): 3 utes): 10
	AAR/ARS Dial Tone Reg Music/Tone on Hold: none ilence) on Transferred Trunk	uired? y
Internal Auto-Answer	D/Tie/ISDN/SIP Intercept Trea of Attd-Extended/Transferred ic Circuit Assurance (ACA) En	Calls: transferred
Auto Abbreviated/D Proto	Dial Programming by Assigned Delayed Transition Interval (r Decol for Caller ID Analog Term Per for Room to Room Caller ID	ings): 2 inals: Bellcore
ISDN PARAMETERS Send Non-ISDN Trunk Grou Display Connected Name/N Send ISDN Trunk Gr Send Cust MWI - Number of Digits P Unknown Numbers Consi USNI Calling Path Replac QSIG Path Replace	features EATURE-RELATED SYSTEM PARAMET p Name as Connected Name? n umber for ISDN DCS Calls? n oup Name on Tandem Calls? n om Messages Through QSIG? n <b>QSIG/ETSI TSC Extension: 666</b> <b>Per Voice Mail Subscriber: 4</b> Feature Plus Ext: National CPN Prefix: International CPN Prefix: ass Prefixed CPN to ASAI? n dered Internal for AUDIX? n Name for Outgoing Calls? n cement with Measurements? y th Replacement Extension: 666 ment Conf. Event to ASAI? y While in Queue/Vectoring? n	PARAMETERS FOR CREATING QSIG SELECTION NUMBERS Network Level: 0 Level 2 Code: Level 1 Code: 6

Step	Description
	On Page 9 set the CPN/ANI/ICLID Replacement for Restricted Calls and
	CPN/ANI/ICLID Replacement for Unavailable Calls fields to be restricted.
	display system-parameters features Page 9 of 17 FEATURE-RELATED SYSTEM PARAMETERS
	CPN/ANI/ICLID PARAMETERS CPN/ANI/ICLID Replacement for Restricted Calls: restricted CPN/ANI/ICLID Replacement for Unavailable Calls: restricted
	DISPLAY TEXT Identity When Bridging: principal
	INTERNATIONAL CALL ROUTING PARAMETERS Local Country Code: International Access Code:
	ENBLOC DIALING PARAMETERS Enable Enbloc Dialing without ARS FAC? n
	CALLER ID ON CALL WAITING PARAMETERS Caller ID on Call Waiting Delay Timer (msec): 200

change feature-access-codes	Page 1 of 8
FEATURE ACCESS CODE (FA	AC)
Abbreviated Dialing List1 Access Code: Abbreviated Dialing List2 Access Code:	
Abbreviated Dialing List2 Access Code: Abbreviated Dialing List3 Access Code:	
Abbreviated Dial - Prgm Group List Access Code:	
Announcement Access Code:	
Answer Back Access Code: #3	
Attendant Access Code:	
Auto Alternate Routing (AAR) Access Code: 1	
Auto Route Selection (ARS) - Access Code 1: *7	Access Code 2:
Automatic Callback Activation: *4	Deactivation: #4
Call Forwarding Activation Busy/DA: *2 All: *3	Deactivation: #2
Call Forwarding Enhanced Status: Act: 622	Deactivation: 623
Call Park Access Code: #5	
Call Pickup Access Code: *6 CAS Remote Hold/Answer Hold-Unhold Access Code: #6	
CDR Account Code Access Code:	
Change COR Access Code:	
Change Coverage Access Code:	
Change Coverage Access code.	
cliange coverage Access code.	
On Page 2, Verify Per Call CPN Blocking Code Access	s Code is assigned.
On Page 2, Verify Per Call CPN Blocking Code Acces	
	Page 3 of 8
On Page 2, Verify Per Call CPN Blocking Code Acces	Page 3 of 8
On Page 2, Verify Per Call CPN Blocking Code Acces change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8	Page 3 of 8 AC)
On Page 2, Verify Per Call CPN Blocking Code Acces change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation:	Page 3 of 8 AC) Deactivation:
On Page 2, Verify Per Call CPN Blocking Code Acces change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation:	Page 3 of 8 AC)
On Page 2, Verify Per Call CPN Blocking Code Acces change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation:	Page 3 of 8 AC) Deactivation:
On Page 2, Verify Per Call CPN Blocking Code Access change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation: Meet-me Conference Access Code Change: PASTE (Display PEX data on Phone) Access Code:	Page 3 of 8 AC) Deactivation:
On Page 2, Verify Per Call CPN Blocking Code Access change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation: Meet-me Conference Access Code Change:	Page 3 of 8 AC) Deactivation:
On Page 2, Verify Per Call CPN Blocking Code Access change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation: Meet-me Conference Access Code Change: PASTE (Display PEX data on Phone) Access Code: Personal Station Access (PSA) Associate Code: Per Call CPN Blocking Code Access Code: 606	Page 3 of 8 PAC) Deactivation: Deactivation:
On Page 2, Verify Per Call CPN Blocking Code Access change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation: Meet-me Conference Access Code Change: PASTE (Display PBX data on Phone) Access Code: Personal Station Access (PSA) Associate Code: Per Call CPN Blocking Code Access Code: 606 Per Call CPN Unblocking Code Access Code: 607	Page 3 of 8 AC) Deactivation: Deactivation: Dissociate Code:
On Page 2, Verify Per Call CPN Blocking Code Access change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation: Meet-me Conference Access Code Change: PASTE (Display PBX data on Phone) Access Code: Personal Station Access (PSA) Associate Code: Per Call CPN Blocking Code Access Code: 606 Per Call CPN Unblocking Code Access Code: 607 Posted Messages Activation:	Page 3 of 8 PAC) Deactivation: Deactivation:
On Page 2, Verify Per Call CPN Blocking Code Access change feature-access-codes FEATURE ACCESS CODE (F Leave Word Calling Send A Message: *8 Leave Word Calling Cancel A Message: #8 Limit Number of Concurrent Calls Activation: Malicious Call Trace Activation: Meet-me Conference Access Code Change: PASTE (Display PBX data on Phone) Access Code: Personal Station Access (PSA) Associate Code: Per Call CPN Blocking Code Access Code: 606 Per Call CPN Unblocking Code Access Code: 607	Page 3 of 8 AC) Deactivation: Deactivation: Dissociate Code:

Self Station Display Activation: 624 Send All Calls Activation: \*1

Deactivation: #1

### 4.2. Configure QSIG Link to Alliance MX

Step	Description
1.	Use the <b>add ds1</b> <i>n</i> command (not shown) to configure the TN2464CP DS1 Circuit Pack that will be used for the QSIG connection between Avaya Communication Manager and the Alliance MX. The output of the <b>change ds1</b> <i>n</i> command is used to show the configuration after the module was added (modified fields are shown in bold type).
	change ds1 01a09     Page 1 of 1       DS1 CIRCUIT PACK     Page 1 of 1
	Location: 01A09 Name: QSIG-ipc Bit Rate: 2.048 Line Coding: hdb3
	Signaling Mode:       isdn-pri         Connect:       pbx       Interface:       peer-master         TN-C7 Long Timers?       n       Peer Protocol:       Q-SIG         Interworking Message:       PROGress       Side:       a         Interface Companding:       alaw       CRC?       y         Idle Code:       1111111       Channel Numbering:       timeslot         DCP/Analog Bearer Capability:       3.1kHz
	T303 Timer(sec): 4 Disable Restarts? n
	Slip Detection? n Near-end CSU Type: other
2.	Use the <b>add signaling-group</b> <i>n</i> command (not shown) to add a signaling group for the QSIG connection between Avaya Communication Manager and the Alliance MX. The output of the <b>change signaling group</b> <i>n</i> command is used to show the configuration after the signaling group was added (modified fields are shown in bold type). <b>Max number of NCA TSC</b> at least set to 2, one for Alliance MX, one for Avaya Communication Manager.
	change signaling-group 4     Page 1 of 1       SIGNALING GROUP
	Group Number: 4 Group Type: isdn-pri Associated Signaling? y Primary D-Channel: 01A0916 Max number of NCA TSC: 5 Max number of CA TSC: 5 Trunk Group for NCA TSC: 4
	Trunk Group for Channel Selection: 4         TSC Supplementary Service Protocol: b       Network Call Transfer? n

_	Description
( c	Use the <b>add trunk-group</b> <i>n</i> command (not shown) to add a QSIG trunk between Avaya Communication Manager and the Alliance MX. The output of the <b>change trunk-group</b> <i>n</i> command is used to show the configuration after the trunk group was added (modified fiel are shown in bold type).
	change trunk-group 4 Page 1 of 21 TRUNK GROUP
	Group Number: 4Group Type: isdnCDR Reports: yGroup Name: IPCCOR: 1TN: 1TAC: 502Direction: two-wayOutgoing Display? yCarrier Medium: PRI/BRIDial Access? yBusy Threshold: 255Night Service:Queue Length: 0Auth Code? nTestCall ITC: restFar End Test Line No:TestCall BCC: 4
ł	Page 2 of the trunk group form is shown below.
	change trunk-group 4 Page 2 of 21 Group Type: isdn
	Codeset to Send Display: 6 Max Message Size to Send: 260 Supplementary Service Protocol: b Digit Treatment: Trunk Hunt: descend Digital Loss Group: 13 Incoming Calling Number - Delete: Bit Rate: 1200 Digit nest: Digital Loss Group: 13 Insert: Bit Rate: 1200 Digital Loss Group: 13 Insert: Digital Loss Group: 13 Digital Loss Group: 13 Digital Loss Group: 13 Insert: Digital Loss Group: 13 Digital Loss Group: 14 Digital Loss Group: 14 Digita
ł	Page 3 of the trunk group form is shown below.         change trunk-group 4         Page 3 of 21
	TRUNK FEATURES ACA Assignment? n ACA Assignment? n Internal Alert? n Data Restriction? n Used for DCS? n Suppress # Outpulsing? n Outgoing Channel ID Encoding: preferred Measured: none Internal Alert? n Maintenance Tests? y Data Restriction? n NCA-TSC Trunk Member: 1 Send Name: y Send Calling Number: y Send EMU Visitor CPN? n Format: private UUI IE Treatment: service-provider
	Replace Restricted Numbers? y         Replace Unavailable Numbers? y         Send Connected Number: y         Send Connected Number: y         Hold/Unhold Notifications? y         Send UUI IE? y       Modify Tandem Calling Number? n         Send UCID? n         Send Codeset 6/7 LAI IE? y       Ds1 Echo Cancellation? n         Modify Reroute Number? n
	Apply Local Ringback? n Show ANSWERED BY on Display? y

Description					
Page 4 of the	trunk group form i	s shown below.			
change trun		RUNK GROUP OPTIO	IS	Page 4	of 21
Path Replac	od for Auto Callba Diversion by Rerou Path Replacement ement with Retention h Replacement Metho	te? y nt? y on? n	ible		
Display F	-	BS? n <b>me? y</b> me: eurofont			
Page 5 of the	trunk group form i	s shown below.			
change trun	-group 4	TRUNK GROUP			of 21
GROUP MEMBER	R ASSIGNMENTS		ered Members (min l Administered Me		30
2: 01A0902	Code Sfx Name L TN2464 C 2 TN2464 C 3 TN2464 C	Night	Sig Grp 4 4 4		
5: 01A0905 6: 01A0906	4 TN2464 C 5 TN2464 C 5 TN2464 C 7 TN2464 C		4 4 4 4		
			4 4 4 4		
12: 01A0912 13: 01A0913 14: 01A0914 15: 01A0914	2 TN2464 C 3 TN2464 C 4 TN2464 C		4 4 4 4		
this example,	<b>ge dialplan analys</b> add an entry in the Jniform Dial Plan	Dial Plan Anal	vsis Table for 4-c	ligit numbe	
change dial	olan analysis	DIAL PLAN ANALYSI	S TABLE	Page 1 c	of 12
Diale Strin 2 3 30 3005 <b>31</b> 33 38 4 4	ed Total Call ng Length Type 1 fac	JAL PLAN ANALISI Location: Dialed Total String Length 88 4 972 5 99 4 * 2 # 2	all Per Call Dialed	ccent Full: Total Ca Length Ty	11

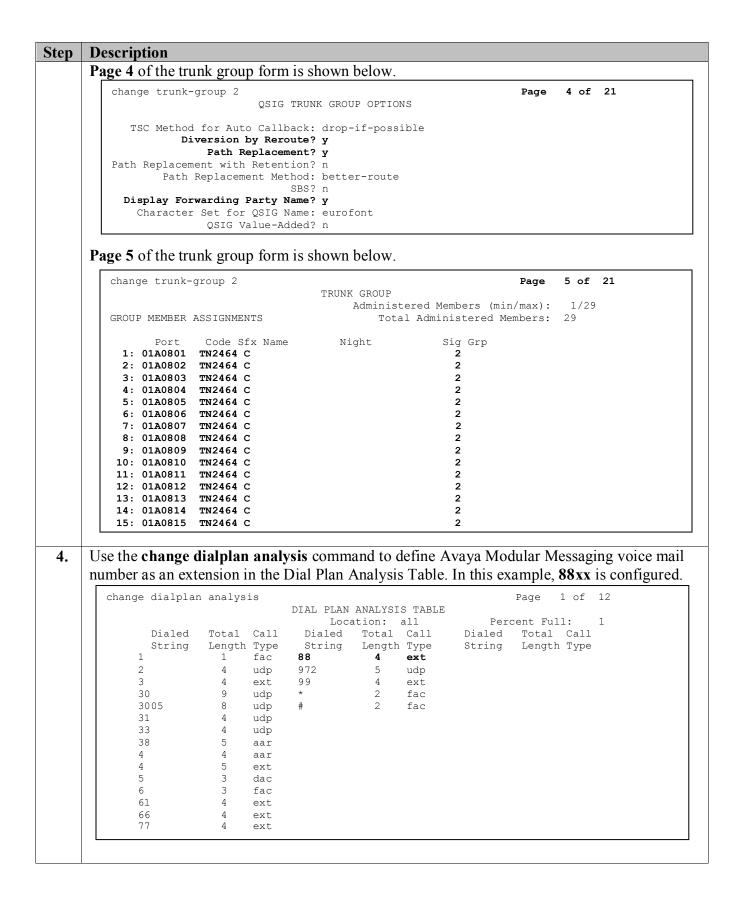
beginning with	JI using And		0		
change unifor	m-dialplan 0			Page 1	of 2
	UNIF	FORM DIAL PLA	AN TABLE	Percent	Full: 0
Matching		Insert	Node		
Pattern	Len Del	Digits	Net Conv Num		
30	9 0		aar n		
31	4 0		aar n		
33	4 0		aar n		
8889	4 0		aar n		
972	5 0		aar n		
change route-r Grp FRL NI No 1: 4 0 2:	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll	een Avaya ( Number: 4 SCCAN? n		Page 1 QSIG	Alliance MX of 3 S/ IXC IIG utw user
which is the QS change route-p Grp FRL NI No 1: 4 0 2: 3:	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll	Number: 4 SCCAN? n No. Insert: Del Digits	Pattern Name: IPC-( Secure SIP? n ted	Page 1 Page 1 QSIG DC QS In n	Alliance MX
which is the QS change route-p Grp FRL NI No 1: 4 0 2: 3: 4:	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll	Number: 4 SCCAN? n No. Insert: Del Digits	Pattern Name: IPC-( Secure SIP? n ted	Page 1 Page 1 OSIG DC QS In n n n n n	Alliance MX
which is the QS change route-r Grp FRL NI No 1: 4 0 2: 3: 4: 5:	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll	Number: 4 SCCAN? n No. Insert: Del Digits	Pattern Name: IPC-( Secure SIP? n ted	anager and the Page 1 psig DC QS In n n n n n n	Alliance MX
which is the QS change route-r Grp FRL NI No 1: 4 0 2: 3: 4: 5: 6:	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll Mrk Lmt List	een Avaya ( Number: 4 SCCAN? n No. Insert Del Digits Dgts	Communication Ma Pattern Name: IPC-( Secure SIP? n ted	anager and the Page 1 QSIG DC QS In n n n n n n n n n n n	Alliance MX
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which is the QS change route-r Grp FRL NI No 1: 4 0 2: 3: 4: 5: 6:	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll Mrk Lmt List	een Avaya ( Number: 4 SCCAN? n No. Insert Del Digits Dgts	Communication Ma Pattern Name: IPC-G Secure SIP? n ted s	Anager and the Page 1 QSIG DC QS In n n n M No. Numberin Dgts Format	Alliance MX
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which is the QS change route-p Grp FRL NI No 1: 4 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4 1: y y y y y	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll Mrk Lmt List E TSC CA-TSC W Request n y none	een Avaya C Number: 4 SCCAN? n No. Insert Del Digits Dgts ITC BCIE S rest	Communication Ma Pattern Name: IPC-G Secure SIP? n ted s	Anager and the Page 1 QSIG DC QS In n n n M No. Numberin Dgts Format	Alliance MX
which is the QS change route-p Grp FRL NI No 1: 4 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4 1: y y y y y 2: y y y y y	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll Mrk Lmt List W Request n y none n n	een Avaya C Number: 4 SCCAN? n No. Insert Del Digits Dgts ITC BCIE S rest rest	Communication Ma Pattern Name: IPC-G Secure SIP? n ted s	Anager and the Page 1 QSIG DC QS In n n n M No. Numberin Dgts Format ubaddress	Alliance MX
which is the QS change route-p Grp FRL NI No 1: 4 0 2: 3: 4: 5: 6: BCC VALUH 0 1 2 M 4 1: y y y y y 2: y y y y y 3: y y y y y	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll Mrk Lmt List W Request n y none n n n n	een Avaya C Number: 4 SCCAN? n No. Insert Del Digits Dgts ITC BCIE S rest	Communication Ma Pattern Name: IPC-G Secure SIP? n ted s	Anager and the Page 1 QSIG DC QS In n n n M No. Numberin Dgts Format ubaddress	Alliance MX
which is the QS change route-p Grp FRL NI No 1: 4 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4 1: y y y y y 2: y y y y y	IG trunk betwo pattern 4 Pattern PA Pfx Hop Toll Mrk Lmt List W Request n y none n n n n	een Avaya C Number: 4 SCCAN? n No. Insert Del Digits Dgts ITC BCIE S rest rest	Communication Ma Pattern Name: IPC-G Secure SIP? n ted s	Anager and the Page 1 QSIG DC QS In n n n M No. Numberin Dgts Format ubaddress	Alliance MX

Dialed String 2 30 3005 <b>31</b>	Tot	al	GIT ANALY: Location:			Percent Full: 1	
String 2 30 3005						rercent rurr. 1	
String 2 30 3005			Route	Call	Node	ANI	
2 30 3005	4	Max	Pattern	Type	Num	Regd	
30 3005		4	999	aar		n	
	9	9	1	aar		n	
31	8	8	1	aar		n	
	4	4	4	aar		n	
33	4	4	6	aar		n	
38	5	5	3	aar		n	
4	4	4	3	aar		n	
5	7	7	999	aar		n	
7777	4	4	6	aar		n	
8889	4	4	2	aar		n	
9 972	7	7 5	999 5	aar aar		n n	
512	5	5	5	uur		11	
Use the change private-n	umbe	ring	n comma	nd to a	dd entr	ies so that calls plac	ed from
stations with a 4-digit Ava		<u> </u>				· · ·	
	•		-	-		Touted over all trulk	groups v
send a 4-digit calling party	/ num	ber to	o the far e	nd.			
0 01 9							
change private-numberin	g 0					Page 1 of	2
5 5 1	-	JMBERI	NG - PRIVA	ATE FORI	MAT		
Ext Ext Trk		Priv		Tota			
FIXL FIXL ITK		Pref		1000			

#### 4.3. Configure QSIG Link to Avaya Modular Messaging

	dded (modified fields are shown in bold type).
change ds1 01a08	Page 1 of 1 . CIRCUIT PACK
Location: 01A08	Name: MM-E1-QSIG
Bit Rate: 2.048	Line Coding: hdb3
Signaling Mode: isdn-pri	
Connect: pbx TN-C7 Long Timers? n	Interface: peer-master Peer Protocol: O-SIG
Interworking Message: PROGress	Side: a
Interface Companding: alaw	CRC? n
Idle Code: 11111111 DCP/#	Channel Numbering: timeslot Analog Bearer Capability: 3.1kHz
	T303 Timer(sec): 4
	Disable Restarts? n
Slip Detection? n	Near-end CSU Type: other
Use the <b>add signaling-group</b> <i>n</i> comp	mand (not shown) to add a signaling group for the
	mand (not shown) to add a signaling group for the ication Manager and Avaya Modular Messaging.
onnection between Avaya Commun	ication Manager and Avaya Modular Messaging.
onnection between Avaya Commun	ication Manager and Avaya Modular Messaging. <b>p</b> <i>n</i> command is used to show the configuration at
onnection between Avaya Commun utput of the <b>change signaling grou</b>	ication Manager and Avaya Modular Messaging. p n command is used to show the configuration at
onnection between Avaya Commun utput of the <b>change signaling grou</b> ignaling group was added (modified change signaling-group 2	ication Manager and Avaya Modular Messaging. <b>p</b> <i>n</i> command is used to show the configuration at fields are shown in bold type). Page 1 of 1
onnection between Avaya Commun utput of the <b>change signaling grou</b> ignaling group was added (modified change signaling-group 2	ication Manager and Avaya Modular Messaging. p n command is used to show the configuration at fields are shown in bold type).
change signaling-group 2 Group Number: 2 Group Number: 2 Group Number: 2 Group Number: 2	ication Manager and Avaya Modular Messaging. <b>p</b> <i>n</i> command is used to show the configuration af fields are shown in bold type). Page 1 of 1 NALING GROUP Type: isdn-pri
change signaling group was added (modified change signaling group 2 Group Number: 2 Group Number: 2 Group Number: 2 Group Number: 2	ication Manager and Avaya Modular Messaging. <b>p</b> <i>n</i> command is used to show the configuration af fields are shown in bold type). Page 1 of 1 NALING GROUP Type: isdn-pri aling? y Max number of NCA TSC: 10
change signaling group was added (modified change signaling group 2 Group Number: 2 Group Number: 2 Group Number: 2 Group Number: 2	ication Manager and Avaya Modular Messaging. <b>p</b> <i>n</i> command is used to show the configuration af fields are shown in bold type). Page 1 of 1 NALING GROUP Type: isdn-pri

Description		
Use the <b>add trunk-group</b> <i>n</i> command (not shown) to add a QSIG	trunk betwee	n Avaya
Communication Manager and Avaya Modular Messaging. The out	tput of the <b>ch</b>	ange fri
group <i>n</i> command is used to show the configuration after the trunk	-	0
· ·	k group was a	uueu (III
fields are shown in bold type).		
change trunk-group 2	Page 1 of	21
TRUNK GROUP		
Group Number: 2 Group Type: isdn CDF Group Name: QSIG-E1-MM COR: 1 TN: 1	R Reports: y <b>TAC: S</b>	501
Direction: two-way Outgoing Display? n Carrier		
Dial Access? n Busy Threshold: 255 Night Service:		DIG
Queue Length: 0		
	tCall ITC: res	st
Far End Test Line No:		
TestCall BCC: 4		
<b>Page 2</b> of the trunk group form is shown below.		
change trunk-group 2	Page 2 of	21
Group Type: isdn	rage 2 OI	~ 1
1 21		
TRUNK PARAMETERS		
Codeset to Send Display: 6 Codeset to Send National	l IEs: 6	
Max Message Size to Send: 260 Charge Advice: none Supplementary Service Protocol: b Digit Handling (in/out):	· enblog/enbl/	
Supprementary Service Flococor. D Digit manaring (in/out).	. enbroc/enbro	
Trunk Hunt: cyclical		
Digital Loss		
	ormat: unk-unl	c
Bit Rate: 1200 Synchronization: async I Disconnect Supervision - In? y Out? n	Duplex: Iull	
Answer Supervision Timeout: 0		
Administer Timers? n CONNECT Reliable When Call	l Leaves ISDN	? n
<b>Page 3</b> of the trunk group form is shown below.		
change trunk-group 2	Page 3 of	21
TRUNK FEATURES		
	pand Support?	
	enance Tests? Frunk Member:	-
	lling Number:	
	Visitor CPN?	-
Send Name: y Send Cal		
Send Name: y Send Cal		
Send Name:Send CalUsed for DCS?nHop Dgt?nSend EMU	service-provid	ler
Send Name:     y     Send Cal       Used for DCS? n     Hop Dgt? n     Send EMU       Suppress # Outpulsing? n     Format: unk-pvt       Outgoing Channel ID Encoding:     preferred     UUI IE Treatment: s	_	
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restrice	cted Numbers?	n
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila	cted Numbers?	n n
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila	cted Numbers? able Numbers? ected Number:	n n <b>y</b>
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila Send Conne Hold/Unhold No Send UUI IE? y Modify Tandem Cal	cted Numbers? able Numbers? acted Number: otifications?	n n <b>y</b> y
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila Send Conne Hold/Unhold Nc Send UUI IE? y Modify Tandem Cal Send UCID? n	cted Numbers? able Numbers? ected Number: btifications? lling Number?	n n <b>y</b> y
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila Send Conne Send UUI IE? y Modify Tandem Cal Send UCID? n Send Codeset 6/7 LAI IE? y Dsl Echo Car	cted Numbers? able Numbers? ected Number: btifications? lling Number? ncellation? n	n y y n
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila Send Conne Hold/Unhold No Send UUI IE? y Modify Tandem Cal Send UCID? n Send Codeset 6/7 LAI IE? y Ds1 Echo Car Modify Ren	cted Numbers? able Numbers? ected Number: btifications? lling Number?	n y y n
Send Name: y Send Cal Used for DCS? n Hop Dgt? n Send EMU Suppress # Outpulsing? n Format: unk-pvt Outgoing Channel ID Encoding: preferred UUI IE Treatment: s Replace Restric Replace Unavaila Send Conne Send UUI IE? y Modify Tandem Cal Send UCID? n Send Codeset 6/7 LAI IE? y Dsl Echo Car	cted Numbers? able Numbers? ected Number: btifications? lling Number? ncellation? n	n y y n



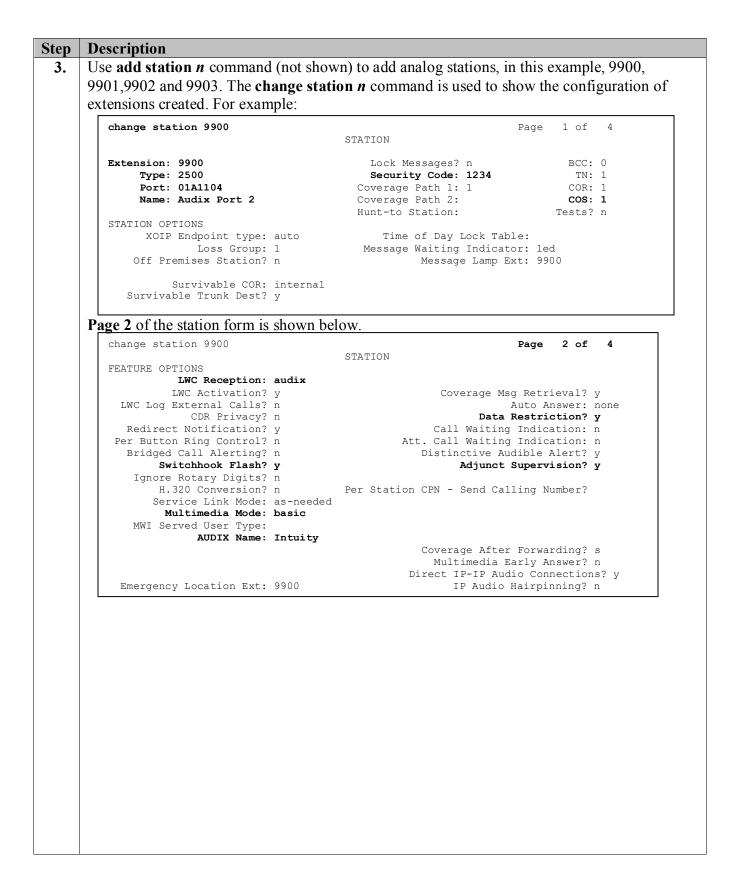
change unifor	m-dial	-	'ORM DIAL P	י גידו דא אד				Page	1 o	f 2
		UNIF	ORM DIAL P	LAN TAI	3니뇬		Pe	rcent i	Full	: 0
Matching			Insert			Node				
Pattern		Del	Digits		Conv	Num				
22	4	0		aar	n					
30 3005	9 8	0 0		aar	n n					
31	4	0		aar aar	n					
33	4	0		aar	n					
8889	4	0		aar	n					
972	5	0		aar	n					
onfiguration af	ter the	module	ut of the c	hange	rout	-	n <i>n</i> cor e show	mmanc n in b	l is old	used to sh type).
	ter the	module 2	was addee	hange d (moc	rout lified	te-patter	n <i>n</i> cor e show	mmanc n in b	l is	used to sh
change route-p	ter the	module 2 Pattern	was addee Number: 2 SCCAN? n	hange d (mod Patte Sec	rout lified	t <b>e-patter</b> I fields ar	n <i>n</i> cor e show	mmand 7 <b>n in b</b> o	l is old of	used to sh type).
change route-p Grp FRL NE	ter the	module	was addee Number: 2 SCCAN? n No. Inser	hange d (mod Patte Sec	rout lified	te-patter	n <i>n</i> cor e show	mmanc 7 <b>n in b</b> o age 1	l is old of	used to sh type).
change route-p	ter the	module 2 Pattern	Number: 2 SCCAN? n No. Inser Del Digit	hange d (mod Patte Sec	rout lified	te-patter	n <i>n</i> cor e show	nmanc /n in bo	of of of ocs/	used to sh type).
change route-p Grp FRL NE	ter the	module	was addee Number: 2 SCCAN? n No. Inser	hange d (mod Patte Sec	rout lified	te-patter	n <i>n</i> cor e show	nmanc /n in bo	l is old of	used to sh type). 3 IXC
change route-p Grp FRL NE No	ter the	module	Number: 2 SCCAN? n No. Inser Del Digit	hange d (mod Patte Sec	rout lified	te-patter	n <i>n</i> cor e show	mmanc yn in bo age 1	of of of ocs/ osig	used to sh type).
change route-p Grp FRL NE No 1: <b>2</b> 0	ter the	module	Number: 2 SCCAN? n No. Inser Del Digit	hange d (mod Patte Sec	rout lified	te-patter	n <i>n</i> cor e show	mmanc yn in bo age 1	of of of of of of ntw	used to sh type). 3 IXC user
change route-p Grp FRL NE No 1: <b>2</b> 0 2: 3: 4:	ter the	module	Number: 2 SCCAN? n No. Inser Del Digit	hange d (mod Patte Sec	rout lified	te-patter	n <i>n</i> cor e show	mmanc /n in bo age 1	of of of of of of ntw n	used to sh type). 3 IXC user user
Change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5:	ter the	module	Number: 2 SCCAN? n No. Inser Del Digit	hange d (mod Patte Sec	rout lified	te-patter I fields ar	n <i>n</i> cor e show	mmanc /n in bo age 1	of of of of of of of of of of of of ntw n n	used to sh type). 3 IXC user user user
change route-p Grp FRL NE No 1: <b>2</b> 0 2: 3: 4:	ter the	module	Number: 2 SCCAN? n No. Inser Del Digit	hange d (mod Patte Sec	rout lified	te-patter I fields ar	n <i>n</i> cor e show	mmanc /n in bo age 1	l is old of of SIG intw n n n n	used to sh type). 3 IXC user user user user user
change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6:	ter the	2 Pattern A Hop Toll Lmt List	was added was added Number: 2 SCCAN? n No. Inser Del Digit Dgts	hange d (moo Patte Sec rted	rout lified	ame: QSIG- SIP? n	n <i>n</i> con e show	mmano n in bo age 1	l is old of ocs/ sIG ntw n n n n n	used to sh type). 3 IXC user user user user user user
Change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5:	ter the	2 Pattern A Hop Toll Lmt List	was added was added Number: 2 SCCAN? n No. Inser Del Digit Dgts	hange d (moo Patte Sec rted	rout lified	te-patter I fields ar	n n con e show P E1-MM	mmano n in bo age 1	l is old of ocs/ sIG ntw n n n n n	used to sh type). 3 IXC user user user user user user
change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6: BCC VALUE	ter the	module 2 Pattern T Hop Toll Lmt List	was added was added Number: 2 SCCAN? n No. Inser Del Digit Dgts	hange d (moo Patte Sec rted	rout lified	ature PARM	n n con e show P E1-MM	nmano /n in bo age 1 [ C I Numberi Format	l is old of ocs/ sIG ntw n n n n n	used to sh type). 3 IXC user user user user user user
change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6: BCC VALUE	ter the attern Mrk D Mrk D	module 2 Pattern T Hop Toll Lmt List	was added was added Number: 2 SCCAN? n No. Inser Del Digit Dgts	hange d (moo Patte Sec rted	rout lified	ature PARM	n n con e show P EI-MM	nmano /n in bo age 1 [ C I Numberi Format	l is old of ocs/ sig ntw n n n n n n n n	used to sh type). 3 IXC user user user user user user
change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4	A Pfx H Mrk I Mrk I	module 2 Pattern 1 Hop Toll Emt List CA-TSC Request	Number: 2 SCCAN? n No. Inser Del Digit Dgts	hange d (moo Patte Sec rted	rout lified	ature PARM	n n con e show P EI-MM	nmano /n in bo age 1 [ C J I Numberi Format ss	l is old of ocs/ sig ntw n n n n n n n	used to sh type). 3 IXC user user user user user LAR
change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4 1: y y y y y	A Pfx H Mrk I Mrk I Mrk I Mrk I	module 2 Pattern 1 Hop Toll Emt List CA-TSC Request	ut of the c was added Number: 2 SCCAN? n No. Inser Del Digit Dgts ITC BCIE rest rest rest	hange d (moo Patte Sec rted	rout lified	ature PARM	n n con e show P EI-MM	nmano /n in bo age 1 [ C J I Numberi Format ss	l is old of of SIG nn n n n n n n n	used to sh type). 3 IXC user user user user user LAR rehu
Change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4 1: y y y y y 2: y y y y y 3: y y y y y 4: y y y y y	A Pfx H Mrk 1 Mrk 1 N Y T N Y T N N N	module 2 Pattern 1 Hop Toll Emt List CA-TSC Request	ut of the c was added Number: 2 SCCAN? n No. Inser Del Digit Dgts ITC BCIE rest rest rest rest rest	hange d (moo Patte Sec rted	rout lified	ature PARM	n n con e show P EI-MM	nmano /n in bo age 1 [ C J I Numberi Format ss	l is old of cocs/ SSIG ntw n n n n n n n	used to sh type). 3 IXC user user user user user LAR rehu none none
onfiguration af change route-p Grp FRL NE No 1: 2 0 2: 3: 4: 5: 6: BCC VALUE 0 1 2 M 4 1: Y Y Y Y Y 2: Y Y Y Y Y 3: Y Y Y Y Y	A Pfx H Mrk 1 Mrk 1 N Y T N Y T N N N	module 2 Pattern 1 Hop Toll Emt List CA-TSC Request	ut of the c was added Number: 2 SCCAN? n No. Inser Del Digit Dgts ITC BCIE rest rest rest	hange d (moo Patte Sec rted	rout lified	ature PARM	n n con e show P EI-MM	nmano /n in bo age 1 [ C J I Numberi Format ss	l is old of cocs/ SSIG ntw n n n n n n n	used to sh type). 3 IXC user user user user user LAR rehu none

ARR DIGIT ANALYSIS TABLE Location: all Percent Full: 1 Dialed Total Route Call Node ANI String Min Max Pattern Type Num Reqd 2 4 4 999 aar n 3005 8 8 1 aar n 31 4 4 4 a aar n 33 4 4 6 aar n 38 5 5 3 aar n 4 4 6 aar n 5 7 7 7 999 aar n 7777 4 4 6 aar n 9 77 7 999 aar n 972 5 5 5 aar n 9 972 6 7 7 999 aar n 9 972 5 5 5 aar n 9 972 5 5 5 aar n 9 972 6 7 7 999 aar n 9 972 7 7 999 aar n 9 7 7 7 9 9 9 7 7 9 9 9 7 7 7 9 9 9 7 7 7 9 9 9 7 7 7 9 9 9 7 7 7 9 9 9 7 7 7 9 9 9 7 7 7 9 7 9 7 7 7 9 7	Location:allPercent Full:1Dialed StringTotal Min MaxRoute PatternCall NodeNode ANIANI244999 aarn30991 aarn3005881 aarn3144 4aarn3344 6 aarn3855 3 aarn443 aarn577999 aarn	
String       Min       Max       Pattern       Type       Num       Reqd         2       4       4       999       aar       n         30       9       9       1       aar       n         3005       8       8       1       aar       n         31       4       4       4       aar       n         33       4       4       6       aar       n         33       4       4       6       aar       n         33       4       4       6       aar       n         38       5       5       3       aar       n         7777       4       4       2       aar       n         972       5       5       5       aar       n         et the change hunt-group n       command to configure a hunt group to be used as the C       vertage Roint for the Call Coverage Path assigned to the Avaya Messaging Applicati         rver'	String         Min         Max         Pattern         Type         Num         Reqd           2         4         4         999         aar         n           30         9         9         1         aar         n           3005         8         8         1         aar         n           31         4         4         4         aar         n           33         4         4         6         aar         n           38         5         5         3         aar         n           5         7         7         999         aar         n	
2 1 4 4 9999 aar n 30 9 9 1 aar n 31 4 4 4 aar n 33 4 4 4 6 aar n 33 4 4 4 6 aar n 33 4 4 4 6 aar n 4 4 4 3 aar n 5 7 7 7 9999 aar n 6 7 7 7 9999 aar n 9 7 7 7 9999 aar n 9 9 7 7 7 9999 aar n 9 9 7 7 7 9999 aar n 9 972 5 5 5 aar n 9 972 5 5 6 aar n 9 972 6 1 0 for the Call Coverage Path assigned to the Avaya Messaging Application of the Call Coverage Path assigned to the Avaya Messaging Application of the Call Coverage Path assigned to the Avaya Messaging Application of the Call Coverage Path assigned to the Avaya Messaging Application of the call Coverage Path assigned to the Avaya Messaging Application of the form of the Call Coverage Path assigned to the Avaya Messaging Application of the form of	2       4       4       999       aar       n         30       9       9       1       aar       n         3005       8       8       1       aar       n         31       4       4       4       aar       n         33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       999       aar       n	
3005       8       8       1       aar       n         31       4       4       4       aar       n         33       4       4       6       aar       n         33       4       4       6       aar       n         33       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       9999       aar       n         7777       4       4       6       aar       n         9       7       7       9999       aar       n         972       5       5       5       aar       n         972       5       5       5       aar       n         ethe change hunt-group <i>n</i> command to configure a hunt group to be used as the C       verage Point for the Call Coverage Path assigned to the Avaya Messaging Applicati         rver's subscribers. This Voice Mail Number is going to be used as the Avaya Modul       sesaging Access Number. This hunt group is configured with no members assigned to ge 1 of the hunt-group form is shown below.         change hunt-group 2       Page 1 of 60         HUNT GROUP       Group Name: QSTG E1       Queue? n <t< td=""><td>3005       8       8       1       aar       n         31       4       4       4       aar       n         33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       999       aar       n</td><td></td></t<>	3005       8       8       1       aar       n         31       4       4       4       aar       n         33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       999       aar       n	
31       4       4       4       aar       n         33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       3       aar       n         5       7       7       999       aar       n         5       7       7       999       aar       n         8889       4       4       2       aar       n         9       7       7       999       aar       n         9       7       7       999       aar       n         972       5       5       5       aar       n         972       5       5       5       aar       n         972       5       5       5       aar       n         9       7       7       999       aar       n         verage Point for the Call Coverage Path assigned to the Avaya Messaging Applicati       r       r         rever's subscribers. This Numt group is configured with no members assigned to ge 1 of the hunt-group form is shown below.       r       m         fcaroup Number: 2       ACD? n       Group Nume: QSI	31       4       4       aar       n         33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       999       aar       n	
33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       aar       n         5       7       7       999       aar       n         7777       4       4       6       aar       n         7777       4       4       6       aar       n         9       7       7       999       aar       n         9       7       7       999       aar       n         9       7       7       999       aar       n         9       72       5       5       5       aar       n         ethe change hunt-group <i>n</i> command to configure a hunt group to be used as the Coverage Point for the Call Coverage Path assigned to the Avaya Messaging Applicati         rever's subscribers. This Voice Mail Number is going to be used as the Avaya Modul       essaging Access Number. This hunt group is configured with no members assigned to ge 1 of the hunt-group form is shown below.         ethange hunt-group 2       Page 1 of 60         HUNT GROUP       Erroup Name: QSIG E1       Queue? n         Group Number: 2       ACD? n         Group Type: ucd-mia       Coverage Path: 2 </td <td>33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       999       aar       n</td> <td></td>	33       4       4       6       aar       n         38       5       5       3       aar       n         4       4       4       3       aar       n         5       7       7       999       aar       n	
4       4       4       3       aar       n         5       7       7       999       aar       n         7777       4       4       2       aar       n         8889       4       4       2       aar       n         9       7       7       999       aar       n         9       7       7       999       aar       n         972       5       5       5       aar       n         e the change hunt-group <i>n</i> command to configure a hunt group to be used as the Coverage Point for the Call Coverage Path assigned to the Avaya Messaging Application to the Call Coverage Path assigned to the Avaya Modul essaging Access Number. This hunt group is configured with no members assigned to ge 1 of the hunt-group form is shown below.         change hunt-group 2       Page 1 of 60         HUNT GROUP       Group Name: QSIG E1       Queue? n         Group Name: QSIG E1       Queue? n         Group Type: ucd-mia       Coverage Path: 2         TN: 1       Night Service Destination:         COR: 1       MM Early Answer? n	4 4 3 aar n 5 7 7 999 aar n	
5       7       7       999       aar       n         7777       4       4       6       aar       n         8889       4       2       aar       n         9       7       7       999       aar       n         9       7       7       999       aar       n         9       72       5       5       5       aar       n         e the change hunt-group n       command to configure a hunt group to be used as the C       verage Point for the Call Coverage Path assigned to the Avaya Messaging Application         rver's subscribers. This Voice Mail Number is going to be used as the Avaya Modul       essaging Access Number. This hunt group is configured with no members assigned to ge 1 of the hunt-group form is shown below.         Group Number: 2         ACD? n         Group Number: 2         ACD? n         Group Number: 2         ACD? n         Group Number: 2         Group Name:       QSIG E1         Queue? n       Group Type:         Group Type:       ucd-mia       Coverage Path: 2         Th: 1       Night Service Destination:         COR: 1       MM Early Answer? n	5 7 7 999 aar n	
7777       4       4       6       aar       n         8889       4       4       2       aar       n         9       7       7       999       aar       n         972       5       5       5       aar       n         e the change hunt-group n       command to configure a hunt group to be used as the Coverage Point for the Call Coverage Path assigned to the Avaya Messaging Application         rver's subscribers. This Voice Mail Number is going to be used as the Avaya Module         essaging Access Number. This hunt group is configured with no members assigned to the hunt-group form is shown below.         change hunt-group 2       Page 1 of 60         HUNT GROUP       HUNT GROUP         Group Number: 2       ACD? n         Group Number: 2       ACD? n         Group Extension: 8888       Vector? n         Group Type: ucd-mia       Coverage Path: 2         Th: 1       Night Service Destination:         COR: 1       MM Early Answer? n		
9 972 5 5 5 5 aar n e the change hunt-group <i>n</i> command to configure a hunt group to be used as the Coverage Point for the Call Coverage Path assigned to the Avaya Messaging Applications ever's subscribers. This Voice Mail Number is going to be used as the Avaya Module essaging Access Number. This hunt group is configured with no members assigned to ge 1 of the hunt-group form is shown below. Change hunt-group 2 Page 1 of 60 HUNT GROUP Croup Number: 2 ACD? n Group Number: 2 ACD? n Group Number: 2 ACD? n Group Number: 2 ACD? n Group Type: ucd-mia Coverage Path: 2 TN: 1 Night Service Destination: COR: 1 Night Service Destination: COR: 1 MEarly Answer? n		
972 5 5 5 aar n e the change hunt-group <i>n</i> command to configure a hunt group to be used as the Coverage Point for the Call Coverage Path assigned to the Avaya Messaging Applications rver's subscribers. This Voice Mail Number is going to be used as the Avaya Module essaging Access Number. This hunt group is configured with no members assigned to ge 1 of the hunt-group form is shown below. Change hunt-group 2 Page 1 of 60 HUNT GROUP Croup Number: 2 ACD? n Group Name: QSIG E1 Queue? n Group Type: ucd-mia Coverage Path: 2 TN: 1 Night Service Destination: COR: 1 ME arly Answer? n		
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TN: 1 Night Service Destination: COR: 1 MM Early Answer? n		
1	TN: 1 Night Service Destination:	
Security Code: Local Agent Preference? n	1	
ISDN/SIP Caller Display: grp-name		
	Group Name:QSIG E1Queue? nGroup Extension:8888Vector? nGroup Type:ucd-miaCoverage Path: 2TN:1Night Service Destination:COR:1MM Early Answer? n	

Step	Description							
	On Page 2, Voice Mail Number must be administered in the Voice Mail System Configurat							
	$PBX \rightarrow Outgoing Call tab of MAS.$							
	Note: It is important to note that the Voice Mail Nu	<b>Imber</b> is the only number to which IPC						
	turrets should call forward to if they wish to divert t							
	<b>Group Extension</b> is used for Avaya extensions to a	, e e						
	mailbox.	ieeess rivaya modular messaging voice						
	manoox.							
	change hunt-group 2	Page 2 of 60						
	HUNT GROUP							
	LWC Reception: none	AUDIX Name:						
	Message Center: qsig-mwi							
	Send Reroute Request: n Voice Mail Number: 8889							
	Routing Digits (e.g. AAR/ARS Access Code): 1	Provide Ringback? n						
	TSC per MWI Interrogation? n							

# 4.4. Configure C-LAN integration for Avaya INTUITY<sup>TM</sup> AUDIX® LX

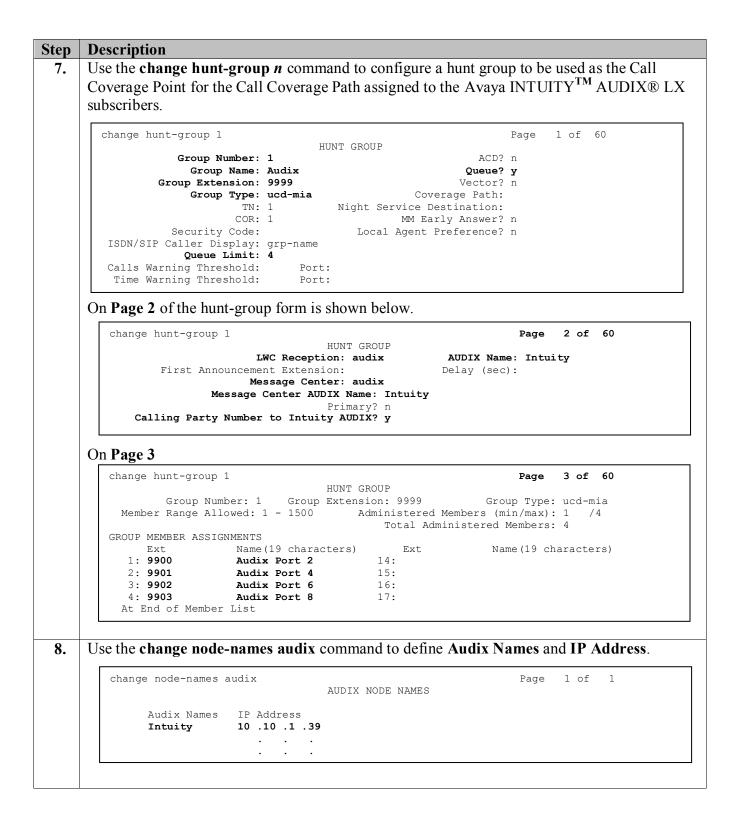
Description						
Enter display di						
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his number will	be used as the	e machine	ID in Audix ad	ministrati	ion and proce	essor-cha
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	ETA Node					
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EXTENSION DISH	PLAY FORMATS					
6-Diai	it Extension:		er-Location/sat xx.xx	Intra xx.xx	-Location	
7-Digi	it Extension:	XXX	-xxxx	xxx-x	XXXX	
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Jse the <b>change</b> he Dial Plan An	dialplan anal	ysis comm	and to define 4 Voice Mail Nu			
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Jse the change he Dial Plan An AUDIX® LX. change dialpla Dialed String	<b>dialplan anal</b> alysis Table. n analysis Total Call Length Type	ysis comm 9999 is the DIAL PLAN Loc Dialed String	ANALYSIS TABLE ation: all Total Call Length Type	mber use Per Dialed	d for Avaya Page 1 of cent Full: Total Call	12 1
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Jse the change he Dial Plan An AUDIX® LX. change dialpla Dialed String 1 2 3 30 3005 31	dialplan anal alysis Table. n analysis Total Call Length Type 1 fac 4 udp 4 ext 9 udp 8 udp 4 udp	ysis comm 9999 is the DIAL PLAN Loc Dialed String 88 972 99	ANALYSIS TABLE ation: all Total Call Length Type 4 ext 5 udp 4 ext	mber use Per Dialed	d for Avaya Page 1 of cent Full: Total Call	<b>INTUIT</b> 12 1
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<b>T</b> 1												
The <b>change cor</b> <i>n</i> command is used to define a unique Class of Restriction (COR).												
change cor 1 Page 1 of 23												
	change	COLI		CLASS OF RE	ESTRICTION		Idyc I	01 23				
COR Number: 1 COR Description: Audix Ports												
COR Description: Audix Ports FRL: 0 APLT? y												
Can Be Service Observed? n     Calling Party Restriction: none       Can Be A Service Observer? n     Called Party Restriction: none       Partitioned Group Number: 1     Forced Entry of Account Codes? n												
											Priority Queuing? n Direct Agent Calling? n	
	Re		Override: al									
	Restricted Call List? n Can Change Coverage? n											
		Acces	s to MCT? y	F	Fully Restri	cted Servic	e?n					
	Group 1		For MFC: 7	-		0000 001110						
			for MFE? n	-								
	Hoar St		I Prefix: on Hold? y		Automatic Ch							
	near bj	SSCH HUDIC			By Directed							
				Can l	Jse Directed	Call Picku	ıp?y					
				Group	p Controlled	Restrictio	n: inacti	ve				
L												
1	age 2 of	the COR f	form is show	n below.								
	change	cor 1					Page 2	of 23				
	CLASS OF RESTRICTION											
MF Incoming Call Trace? n Brazil Collect Call Blocking? n												
Brazil Collect Call Blocking? n Block Transfer Display? n												
					-							
	Block H		Block Tra nference/Tra	ansfer Displ nsfer Displa	lay? n ays? y							
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	Static Outgo Maximu MLPP S S S Age 4 of change of CALLING 0? y 1? y 2? y 3? y 4? y 5? y 6? y 7? y 8? y	Chhanced Cor on Lock COR oing Trunk : Line Load im Preceden Gervice Dom Station-But Gervice Obso Dissoc EMU log Mask C C the COR f or 1 PERMISSION 15? y 16? y 17? y 18? y 19? y 20? y 21? y 22? y 23? y	Block Tran Remote La Remote La Entropy Control: 1 Control: 1 Control: 1 Ce Level: ro ain: ton Display Ca erving by Rea iate or unme: in or logoff PN/NAME for 3 Form is show (Enter "y" to 30? y 31? y 32? y 33? y 34? y 35? y 36? y 37? y 38? y	ansfer Displansfer Displansfer Displansfer Displansfer Displansfer Displansfer Displansfer (minute) DSL Release imer (minute) DSL Release imer (minute) of UUI IE Date cording Devi ASE 24XX USE rge this photostic at this photostic ASE 24XX USE rge this photostic ASE 24XX USE rge this photostic at this photostic at this photostic Internal Call <b>/n below.</b> CLASS OF RES to grant per 44? y 45? y 46? y 47? y 48? y 49? y 50? y 51? y 52? y	lay? n ays? y ent? n Interval (h es): Preemptable? ata? n ice? n ER DATA UPON one: none one: none lls? n ERICTION cmission to 58? y 59? y 60? y 61? y 62? y 63? y 63? y 63? y 63? y	y call specif 72? y 73? y 74? y 75? y 76? y 76? y 76? y 78? y 78? y 78? y 78? y 80? y	ied COR) 86? y 87? y 88? y 89? y 90? y 91? y 92? y 93? y 94? y	of 23				

NK; Reviewed: SPOC 3/11/2009

The following setting depends on	the	fea	atu	res	or	fun	icti	ons	to	be	us	ed.				
change cos												Pag	e	1	of	2
CLASS OF SERVICE												2				
	0	1	2	3	4	5	6	7	8	0	10	11	12	12	1 /	15
Auto Callback	n	У	z y	n	4 Y	n	У	n	о У	n	Y	n	тz У	n	V	n
Call Fwd-All Calls	У	- y	n	У	У	n	n	У	У	n	n	У	Ŷ	n	n	У
Data Privacy	n	n	n	n	n	У	У	У	У	n	n	n	n	У	У	У
Priority Calling	n	У	n	n	n	n	n	n	n	У	У	У	У	У	У	У
Console Permissions Off-hook Alert	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n
Client Room	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Restrict Call Fwd-Off Net	У	n	n	У	У	У	У	У	У	У	У	У	У	У	У	У
Call Forwarding Busy/DA	n	У	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Personal Station Access (PSA)		n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Extended Forwarding All Extended Forwarding B/DA	n	n n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
	n	II V	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n
QSIG Call Offer Originations	n	-	n	n	n	n		n		n	n	n	n	n	n	n
Contact Closure Activation	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Page 2 of the COS form is shown	be	low	V													
change cos												Pag	e	2	of	2
	CI	LASS	S OF	SE	ERVI	CE										
	0	1	2	3	4	5	6	7	8	g	10	11	12	1 २	14	15
VIP Caller	n	n		n	n	n	n	'n	n	n		n	n	n	n	n
Masking CPN/Name Override	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Call Forwarding Enhanced	У	У	У	У	У	У	У	У	У	У	У	У	У	У	У	У
Priority Ip Video Ad-hoc Video Conferencing		n n		n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n	n n
		1.		1			<u>~</u>		ID	• •						
The change ip-interface <i>n</i> comm	anc	1 IS	use	ed 1	to c	con	ng	ure	IP	int	eria					
change ip-interface 01a02		IP	INT	'ERF	ACE	S						Pag	e	1	of	2
Type: C-LAN																
Slot: 01A02	_															
Code/Suffix: TN799 Node Name: clan	D															
IP Address: 10 .10	.1	. 3	30													
Subnet Mask: 255.255												Li	nk:	1		
Gateway Address: 10 .10	.1	. 5	5													
Enable Ethernet Port? y											-	oin		-		
Network Region: 1 VLAN: n												ewa	-	-		
VLAN: n							Ga	tek	.eep	er	rrı	ori	су:	Э		
Target socket load and Warning	· ·															
Receive Buffer TCP Windo																
	Εſ	HEF	NET	OF	TIC	NS										



Step	Description
Step 9.	<ul> <li>Description</li> <li>Use the change communication-interface processor-channels command to administer a processor channel for the link from Avaya Communication Manager to Avaya INTUITY<sup>TM</sup> AUDIX® LX and to support MWI (message waiting indicator) interrogation.</li> <li>Enable: Always set to y, this channel won't go active until the link is enabled on the Ethernet Data Module.</li> <li>Appl: Set to audix for Avaya INTUITY<sup>TM</sup> AUDIX® LX. Set to qsig-mwi for MWI interrogation. Set to gateway for DCS, such as remote-audix integration.</li> <li>Mode: Alsways set to s for INTUITY<sup>TM</sup> AUDIX® LX application.</li> <li>Interface Link: set to 1.</li> <li>Interface Chan: Set to 5002 for Avaya INTUITY<sup>TM</sup> AUDIX® LX. If using DCS, it must set begin with 6xxx. If using qsig-mwi, it also must set begin with 6xxx.</li> <li>Destination Node: must match the name assigned on the node-name audix screen.</li> <li>Destination Port is always set 0 for direct connection with Audix LX.</li> <li>Session Local: must match the Node Number assigned on the dialplan parameters screen and also match Switch Link Administration→ Host Switch Number in Action INTUITY<sup>TM</sup> AUDIX<sup>TM</sup> AUDI</li></ul>
	<ul> <li>Avaya INTUITY<sup>TM</sup> AUDIX® LX. For qsig-mwi, it must match machine ID in the isnd mwi-prefixes screen. For all applications, they also should match Switch Link Administration→Switch Number.</li> <li>Session Remote: must match the Audix Number assigned in the Avaya INTUITY<sup>TM</sup> AUDIX® LX, which is in Switch Link Administration→Audix Number.</li> <li>Match ID: This field must match the Audix number assigned in the Avaya INTUITY<sup>TM</sup> AUDIX® LX and Session Remote field for Audix application. For qsig-mwi, it must match the Switch Number assigned in the Avaya INTUITY<sup>TM</sup> AUDIX® LX and Session Remote field for Audix application. For qsig-mwi, it must match the Switch Number assigned in the Avaya INTUITY<sup>TM</sup> AUDIX® LX, which is in Switch Link Administration→Switch Number.</li> </ul>
	Chan Enable Appl. To Mode Link/ChanNodePort Local/Remote ID1: y audixs15002 Intuity0112: y qsig-mwis16003 Intuity02123: y gateways16001 Intuity031
10.	Use the change isdn mwi-prefixes command to support MWI interrogation. AUDIX Mach ID must match Session Remote field and Mach ID in processor channels screen for audix application. Change isdn mwi-prefixes Page 1 of 7 MESSAGE WAITING INDICATION SUBSCRIBER NUMBER PREFIXES Send QSIG Message Center ID? n Machine Inserted Routing AUDIX ID Digits Digits Mach ID 1: 2: 4: 5:

### 5. Configure Avaya Modular Messaging

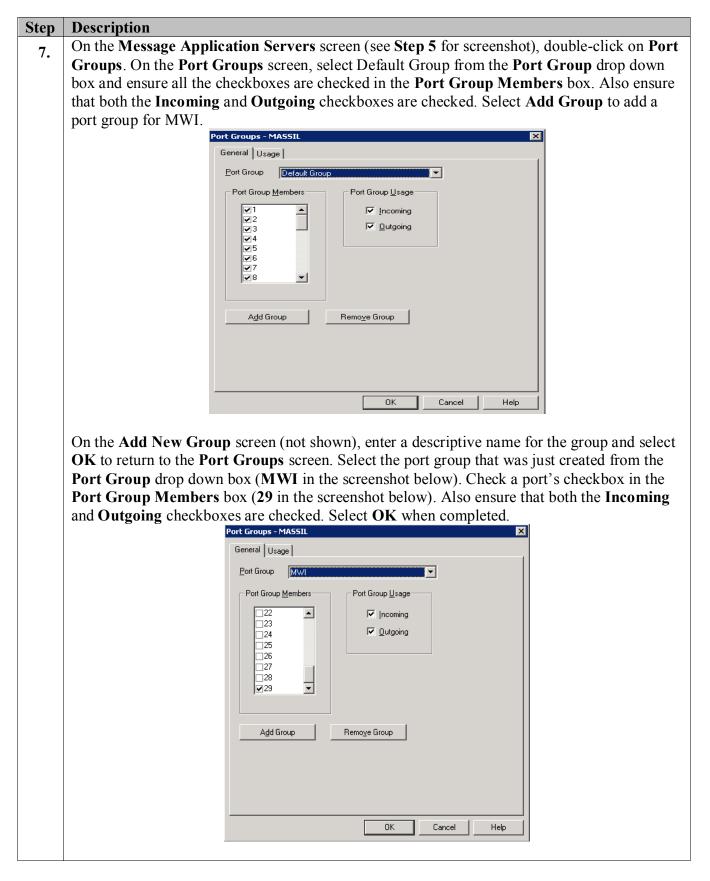
#### 5.1. Configure Avaya Message Application Server (MAS)

Step	Description
1.	Select Start > Programs > Avaya Modular Messaging > Voice Mail System
	Configuration. Expand Voice Mail Domains and the administered domain name (avayasillab
	in the screenshot below). Right-click on <b>PBXs</b> and select Add New PBX Type from the drop
	down menu.
	Voice Mail System Configuration - MASSIL
	Eile Edit Tools Help
	E - mar avayasillab
	Construction of the second secon
	Becurity Roles فكو = Security Roles ⊕_∋ Security
	Additing
	E Add New PBX Type
	- 🍖 Messaging
	- 😥 Web Subscriber Options 
	On the Add New PBX screen, select Dialogic QSIG from the Telephony Type drop down
	box, then select Avaya G3 (QSIG) from the PBXs box. Select OK when completed.
	Add New PBX
	Ielephony Type: Dialogic QSIG
	Ielephony Type: Dialogic QSIG
	<u>P</u> B×s
	Avaya G3 (QSIG) Cisco CM (QSIG)
	NT M-1 (QSIG)
	Siemens Hicom 300 (QSIG) Siemens Hipath (QSIG)
	Siemens T1 Hipath (QSIG)
	Select the Telephony Type and one or more PBXs to add.
	These PBXs will then be available for use by any of the Message Application Servers in this domain.
	Specification of the type of PBX connected to individual
	Message Application Servers is done using the "PBX Type" property sheet.
	property sneet.
	OK Cancel Help

Step	Description				
2.	On the Voice Mail Sy	stem Configurat	ion - MASSIL scree	en (see Step 1 for s	screenshot),
	double-click on PBXs	. On the Avaya C	G3 (QSIG) PBX Cor	nfiguration screen	, select the
	Transfer/Outcall tab.	In the <b>Transfer</b>	Mode field, select B	lind. Select OK w	hen completed
			juration - Voice Mail Domain	×	
			one Detection   Outgoing Call   In		
		Transfer Mode	Blind		
			OK Car	ncel Help	
	_				
3.	On the Voice Mail Sy double-click on PBXs Outgoing Call tab. In depending on the Inte	. On the Avaya G the Layer1 Prot	G3 (QSIG) PBX Cor ocol field, select G.7	<b>ifiguration</b> screen 11 A-Law or G.71	, select the 1 Mu-Law
	when completed	aya G3 (QSIG) PBX Config	uration - Voice Mail Domain	×	
		General Transfer/Outcall T	one Detection Outgoing Call In	ntercom Paging	
		Laura 1 Destana d	F		
		Layer1 Protocol	G.711 A-Law		
		<u>B</u> C Transfer Cap	Speech	<u> </u>	
		<u>N</u> umber Type	Unknown	<u> </u>	
		N <u>u</u> mber Plan	Unknown	•	
		<u>O</u> rigin Number	8889		
	-		OK Car	ncel Help	
	_				
			OK Car	ncel Help	

Step	Description
4.	On the Voice Mail System Configuration - MASSIL screen (see Step 1 for screenshot),
	double-click on Message Waiting Indicator (MWI). Select MAS MWI Sever, then select
	OK when completed
	Message Waiting Indicator - Voice Mail Domain
	General Update Schedule
	Enable Message Waiting Indicator (MWI)
	MAS MWI server: MASSIL
	Scheduled MWI updates: Active
	Limit requests
	Maximum requests per minute
	Message Application Servers that support MWI
	MASSIL
	OK Cancel Help
5.	On the Voice Mail System Configuration - MASSIL screen (see Step 1 for screenshot),
	expand Message Application Servers and the host name of the Avaya Messaging Application
	Server to be configured (MASSIL in the screenshot below). Double-click on PBX Type.
	🖌 Voice Mail System Configuration - MASSIL
	<u>File Edit T</u> ools <u>H</u> elp
	🔄 🤯 Message Application Servers
	🖻 🖓 MASSIL
	Messaging
	Telephony Interface (Dialogic-QSIG)
	a. PBX Integration
	Res Type
	Serviceability
	😽 Trace File Size
-	

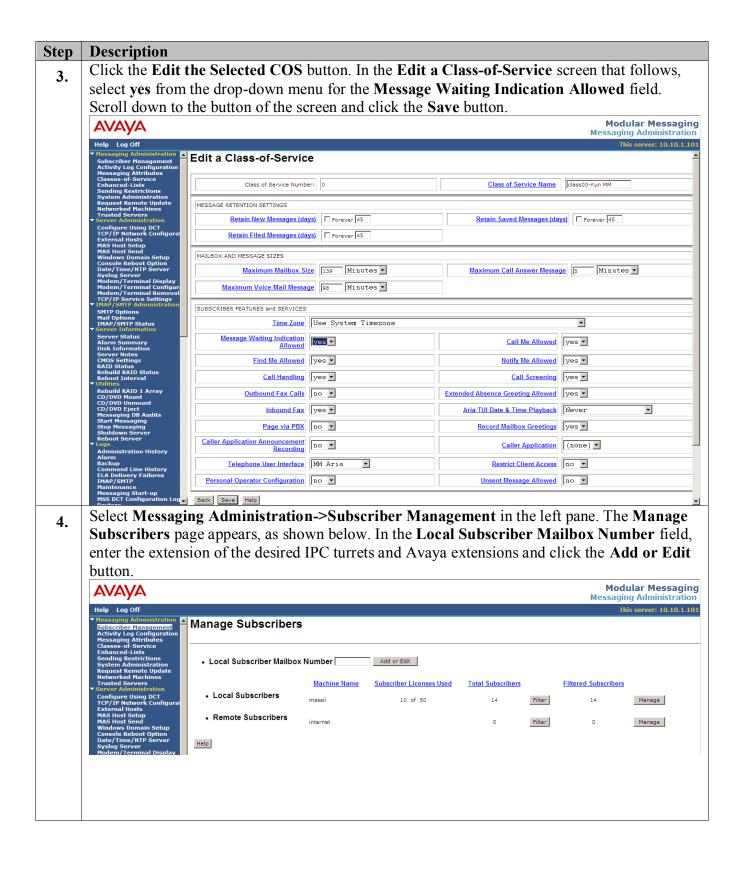
Description	
On the <b>PBX Typ</b> select Avaya G3	e screen select Dialogic QSIG from the Telephony Type drop down box then (QSIG) from the PBXs box. Select OK when completed.
	OK Cancel Help
Telephony Inter Maximum Conc OK when comple	Application Servers screen (see Step 5 for screenshot), double-click on face (Dialogic-QSIG). On the Telephony Interface screen, enter 29 in the urrent Calls field and ensure all the Port checkboxes are checked. Select eted. Telephony Interface - MA55IL
	General
	Telephony Interface Dialogic - QSIG
	Playback Volume
	Maximum Concurrent Calls
	Port         ✓
	OK Cancel Help
	On the <b>PBX Typ</b> select Avaya G3 ( On the <b>Message</b> <b>Telephony Inter:</b> <b>Maximum Conc</b> <b>OK</b> when completed



Step	Description
8.	On the Message Application Servers screen (see Step 5 for screenshot), double-click on PBX
0.	Integration. On the PBX Integration screen, select the General tab and ensure the QSIG
	radio button is selected.
	PBX Integration - MA55IL
	Remote QSIG/SE IP H323
	General Serial General Serial NEC/Ericsson/DMID Inband
	<u>Integration Type</u>
	CIP
	C Serial
	C Inband
	C Bernote
	C Set Emulation
	C <u>C</u> -LAN
	Max Time to <u>W</u> ait for Serial and Remote Integration Data (sec) 18 —
	OK Cancel Help
	Select the QSIG/SE tab and select the port group created for MWI (in Step 7) from the MWI
	Port Group drop down box. Enter 1 in the Max MWI Sessions field. Select OK when
	completed.
	1
	PBX Integration - MASSIL
	General Serial General Serial NEC/Ericsson/DMID Inband Remote QSIG/SE IP H323
	Remote QSIG/SE IP H323
	MWI Port Group: MWI
	Max MWI Sessions: 1
	Indicator On/Off signals must use same port:
	MW/I <u>o</u> n ×4%s
	MW/I ⊡ <u>f</u> f #4%s
	OK Cancel Help

Step	Description
1.	From a Web browser, navigate to http:// <ip-addr> (where <ip-addr> is the IP address of the</ip-addr></ip-addr>
	Avaya MSS). After logging in with an appropriate login and password, the main page appears.
	AVAYA Modular Messaging Messaging Administration
	Help Log Off This server: 10.10.1.101 Messaging Administration Messaging Administration
	Activity Log configuration Messaging Attributes Classes-of-Service Enhanced Liste The Web Interface allows you to maintain, troubleshoot, and configure your Messaging System. Select a link from the left-side menu to display the corresponding page.
	Scholing Restrictions System Administration
	Networked Machines Trusted Servers Configure Using DCT TCP/IP Network Configure
	External Hosts MAS Host Selup
	Windows Domain Setup Cansole Rebot Option Date/Time/RTP Server Syylag Server
	Modem/Terminal Display Modem/Terminal Configur Modem/Terminal Removal TCP/IP Service Settings * IRAP/SHTP Administration
	TIAA/SHTP Administration     SHTP Options     Mail Options     ITAA/SHTP Status
	Server Information
	Alarm Summary Disk Information Sequences Disk Information Sequences Disk Information Sequences Disk Information Disk Information Disk Disk Disk Disk Disk Disk Disk Disk
	Rebuild RAID Status Reboot Interval VUIIIties Rebuild RAID 1 Array CD/DVD Mount
	CD/DVD Unmount
	Messaging DB Audits Start Messaging Stop Messaging Rebool Server
	Cogs Administration History
	Backup Command Line History ELA Delivery Failures IMAP/SNTP
	Maintenance Messaging Start-up MSS DCT Configuration Log
2.	Select Messaging Administration->Classes-of-Service from the left pane. From the Manage
	Classes-of-Service screen that is presented, select a Class of Service (COS) that will be used
	by subscribers using IPC turrets (in this example class00 – Kun MM was selected).
	AVAYA Modular Messaging Messaging Administration
	Help Log Off This server: 10.10.1.101 This server: 10.10.1.101 Manage Classes-of-Service
	Activity Log Configuration Messaging Attributes Classes-of-Service Server Name: 10.10.1.101 Number of Classes-of-Service: 512
	Enhanced-Lists Sending Restrictions System Administration Request Remote Update
	Networked Machines         COS Name         COS Number           Trusted Servers         Class00-Kun MM         0
	Configure Using DCT         class01         1           TCP/IP Network Configure         class02         2           External Hosts         class03         3
	MAS Host Send     classU4     4       Windows Domain Setup     class05     5       Console Reboot Option     class06     6
	Date/Time/NTP Server         class07         7           Syslog Server         ELA         8           Modem/Terminal Display         Class09         9
	Modem/Terminal Removal     class10     10       TCP/IP Service Settings     class11     11       TMAP/SMIP Administration     lize12     12
	Mail Options     class13     13       IMAP/SMTP Status     class14     14
	Server Information Server Status Alarm Summary Disk Information Sort By Name
	Server Notes CMOS Settings RAID Status
	Rebuild RAID Status         Display Report of COSs         Edit the Selected COS           * Utilities         Rebuild RAID 1 Array         Edit the Selected COS
	CD/DVD Mount CD/DVD Unmount CD/DVD Eject
	Messaging DB Audits Start Messaging

#### 5.2. Configure Avaya Message Storage Server (MSS)



Step	Description				
5.	In the Add Lo	cal Subscriber sc	reen (not shown), ent	er the following	values for subscribers
5.				-	scriber could be used to
	view and edit t		,, <b>,</b> , <b>,</b>	,	
		0	es appropriate for this	user	
			11 1		ber's mailbox, from one
	• 1 assv to 15		un password for acce	ssing the subsen	ber s manuox, nom one
		0	an a mumb an fram 2 to	10 disita in lan	
			er a number, from 2 to	-	
			1 1 00	•	sing messages. It must be
		•		-	and be a valid length on
			is example, extension		
			1	the voice mail r	network. In this example,
		sion number 3107			
	Class	of Service: Select	t the Class of Service	in Step 3.	
	• The of	ther fields could u	se default settings.		
	Αναγα				Modular Messaging Messaging Administration
	Help Log Off				This server: 10.10.1.101
	<ul> <li>Messaging Administration Subscriber Management</li> </ul>	Edit Local Subscribe	er		-
	Activity Log Configuration Messaging Attributes Classes-of-Service				
	Enhanced-Lists Sending Restrictions System Administration	BASIC INFORMATION			
	Request Remote Update Networked Machines Trusted Servers Server Administration	* (Required Fields)			
	Configure Using DCT	*Last Name	ipc-qsig2	First Name	
	TCP/IP Network Configural External Hosts MAS Host Setup	*Password			3107
	MAS Host Send Windows Domain Setup Console Reboot Option	*Numeric Address			3107
	Date/Time/NTP Server Syslog Server	*Class Of Service	0 - class00-Kun MM	<u>*Community ID</u>	
	Modem/Terminal Display Modem/Terminal Configura Modem/Terminal Removal				
	TCP/IP Service Settings TIMAP/SMTP Administration SMTP Options	SUBSCRIBER DIRECTORY	[]	]	
	Mail Options IMAP/SMTP Status Server Information	Email Handle	ipc-qsig2 @msssil.du.rnd.avaya.com	Telephone Number	
	Server Status Alarm Summary	<u>Common Name</u>	ipc-qsig2	ASCII Version of Name	lipc-qsig2
	Disk Information Server Notes CMOS Settings				
	RAID Status Rebuild RAID Status Reboot Interval	SUBSCRIBER SECURITY			
	▼ Utilities Rebuild RAID 1 Array CD/DVD Mount	Immediately Expire Passwo	ord? no 💌	<u>Is Mailbox Locke</u>	<u>d?</u> no v
	CD/DVD Unmount CD/DVD Eject				
	Messaging DB Audits Start Messaging Stop Messaging	MAILBOX FEATURES			
	Shutdown Server Reboot Server V Logs	Personal Operator Mailbox		Personal Operator Schedule	Always Active 💌
	Administration History Alarm	TUI Message Order	urgent first then newest 💌		paging is off
	Backup Command Line History ELA Delivery Failures	VoiceMail Enabled	yes 💌		
	IMAP/SMTP	<u> </u>		J	
	Maintenance Messaging Start-up MSS DCT Configuration Log	1			

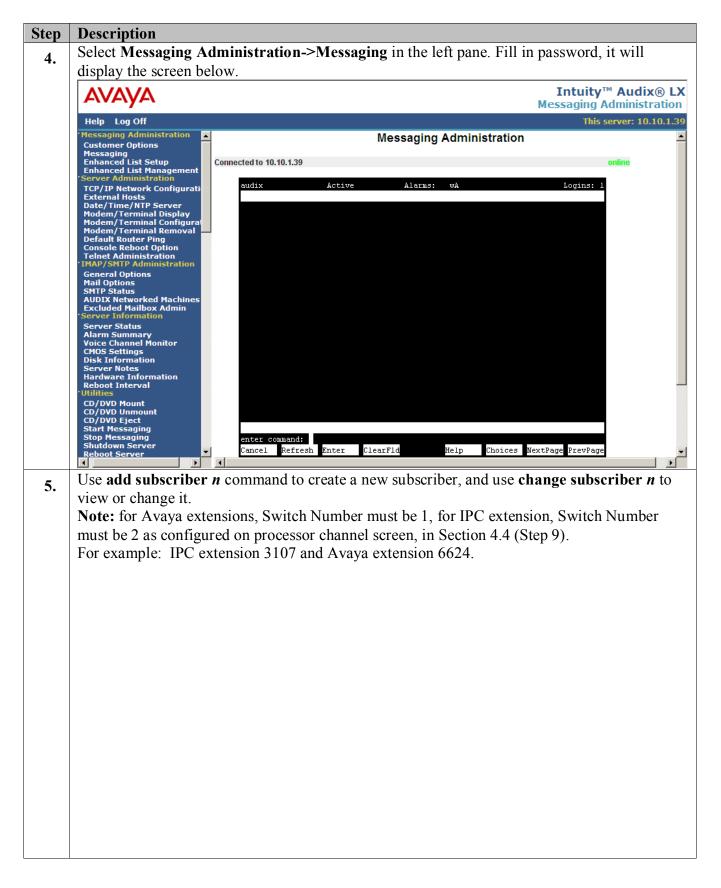
Step	Description				
6.	for screenshot), sele	ect the <b>Manage</b> b <b>rs</b> screen that is	outton to the rig	ht of the Local Su	bers screen (see Step 4 bscribers entry. In the the mailboxes created
	Help Log Off				Modular Messaging Messaging Administration This server: 10.10.1.101
	Activity Log Configuration Messaging Attributes Classes-of-Service Subscrit Enhanced-Lists Sending Restrictions System Administration	age Local Subscribe ber Licenses Used: 16 of 50 System Mailboxes: 4	CTS Total Subscribers: 20 Filtered Subscribers: 20		
	▼ Server Administration Configure Using DCT TCP/IP Network Configurat External Hosts MAS Host Setup	3109         3109           , 1         6620           , 2         6621           to attendant         6640           81         6181           3cast         8882           300         3300           307         3307	umber   Numeric Address   3108   3109   6620   6621   6640   6181   6182   8882   3300   3307   3309	COS         CID           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1	
	▼ IMAP/SMTP Administration SMTP Options Mail Options TMAD (SMTP Strates System	aster   8880	3107   8880   8881   8889	0   1   500   1   8   11   0   1 ▼	
	Alarm Summary Sor Disk Information Server Notes Dis CMOS Settings Dis RAID Status Rebuild RAID Status Add Rebuil Interval	rt and Filter Subscribers splay Report of Subscribers a New Subscriber	Delete the Select	scriber Options ted Subscriber ted Subscriber	
	Vilitites     Rebuild RAID 1 Array     CD/DVD Mount     CD/DVD Inmount     CD/DVD Eject     Messaging DB Audits     Start Messaging     Shop Messaging     Shop Messaging     Shatdown Server     Reboot Server	Form unchanged. Saved values are sl	hown.		
	▼ Logs Administration History Alarm Backup Command Line History ELA Delivery Fallures IMAP/SMTP Maintenance Hessaging Start-up Hess for Configuration Log				

# 6. Configure Avaya INTUITY<sup>TM</sup> AUDIX® LX

**Note:** Either Avaya Modular Messaging or Avaya INTUITY<sup>TM</sup> AUDIX LX can be used as messaging systems. Both products are not required.

Step	Description	
1.	From a web browser, nav Avaya INTUITY <sup>TM</sup> AUD the main page appears.	igate to http:// $-addr> (where -addr> is the IP address of the DIX® LX). After logging in with an appropriate login and password,$
	AVAYA	Intuity™ Audix® LX Messaging Administration
	Help Log Off	This server: 10.10.1.39
	Messaging Administration     Customer Options     Messaging     Enhanced List Setup	Messaging Administration
	Enhanced List Managemen Server Administration TCP/IP Network Configural External Hosts Date/Time/NTP Server Modem/Terminal Display Modem/Terminal Configura Modem/Terminal Removal Default Router Ping Console Reboot Option Telnet Administration VIMAP/SMTP Administration	The Web Interface allows you to maintain, troubleshoot, and configure your Messaging System. Select a link from the left-side menu to display the corresponding page.
	General Options Mail Options SMTP Status AUDIX Networked Machine Excluded Mailbox Admin ▼Server Information	
	Server Status Alarm Summary Voice Channel Monitor CMOS Settings Disk Information Server Notes Hardware Information	

Interview	Follow Avaya Audi		
The second se			
Note of the served status with the se	under Voice Equip	ment Diagnostics menu to verify STATE are Inserv for all ports.	
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	Audix Sub 9901		9901	class00			
	Audix Sub 9902		9902	class00			
	Audix Sub 9903		9903	class00			
	automatedAttendant		6630	class02			
	Avaya6625		6625	class01			
	Press [NextPage],		[Cancel]				
	enter command: lis Cancel Refresh H	subscribers Inter Clear	Fld	Help	Choices	NextPage PrevPage	
Connec	ted to 10.10.1.39						online
	audix	Active	Alarms:	WÅ		Logins: 1	
	list subscribers		niterino.			Page 2	
			LIST SUBSCR	IBERS			
	Name		Extension	COS	Misc.	Misc.	
	Name Avaya6628		Extension 6628	COS classOl	Misc.	Misc.	
					Misc.	Misc.	
	Avaya6628		6628	class01	Misc.	Misc.	
	Avaya6628 Avaya6629		6628 6629	classOl classOl	Misc.	Misc.	
	Avaya6628 Avaya6629 H. 323Phone4001		6628 6629 4001	classOl classOl classOl	Misc.	Misc.	
	Avaya6628 Avaya6629 H.323Phone4001 H.323phone6621		6628 6629 4001 6621	classOl classOl classOl classOl	Misc.	Misc.	
	Avaya6628 Avaya6629 H. 323Phone4001 H. 323phone6621 H. 323Phone6624		6628 6629 4001 6621 6624	classOl classOl classOl classOl classOl	Misc.	Misc.	
	Avaya6628 Avaya6629 H. 323Phone4001 H. 323phone6621 H. 323Phone6624 H6626		6628 6629 4001 6621 6624 6626	classol classol classol classol classol classol	Misc.	Misc.	
	Avaya6628 Avaya6629 H.323Phone4001 H.323phone6621 H.323Phone6624 H6626 IPC3107Audix IPC3108Audix		6628 6629 4001 6621 6624 6626 3107 3108	classol classol classol classol classol classol classol	Misc.	Misc.	
	Avaya6628 Avaya6629 H. 323Phone4001 H. 323Phone6621 H. 323Phone6624 H6626 IPC3107Audix		6628 6629 4001 6621 6624 6626 3107 3108	classol classol classol classol classol classol classol	Misc.	Misc.	

Step	Description	
7.	Use command <b>display cos 1</b> to view class of service (COS) for extensions.	
	Connected to 10.10.1.39	online
	audix Active Alarms: wA Logins: 1 display cos l Page 1 of 2	
	CLASS OF SERVICE	
	Name: classOl COS Number: l Modified? y Addressing Format: extension	
	Login Announcement Set: System	
	System Multilingual is ON Call Answer Primary Annc. Set: System Call Answer Language Choice? n Call Answer Secondary Annc. Set: System	
	Carr mower rangadge shoreer in carr mower scoshari maker see, sipeem	
	PERMISSIONS	
	Type: call-answer Announcement Control? n Outcalling? y Priority Messages? y Broadcast: none IMAPI Access? y	
	IMAPI Message Transfer? y Fax Creation? y Trusted Server Access? y	
	enter command: display cos l Cancel Refresh Enter ClearFld Help Choices NextPage PrevPage	
	Connected to 10.10.1.39	online
	audix Active Alarms: wA Logins: 1	
	display cos l Page 2 of 2	
	CLASS OF SERVICE	
	INCOMING MAILBOX Order: fifo Category Order: nuo	
	Retention Times (days), New: 10 01d: 10 Unopened: 10	
	OUTGOING MAILBOX Order: fifo Category Order: unfda	
	Retention Times(days), File Cab: 10 Delivered/Nondeliverable: 5	
	Voice Mail Message (seconds), Maximum Length: 1200 Minimum Needed: 32	
	Call Answer Message (seconds), Maximum Length: 1200 Minimum Needed: 8	
	End of Message Warning Time (seconds):	
	Maximum Mailing Lists: 25 Total Entries in all Lists: 250	
	Mailbox Size (seconds), Maximum: 8400 Minimum Guarantee: O	
	enter command: display cos l	
	Cancel Refresh Enter ClearFld Help Choices NextPage PrevPage	

# 7. General Test Approach and Test Results

All feature and serviceability test cases were performed manually. The verification included viewing call states on the Avaya telephones and IPC turrets and viewing QSIG traces. All test cases were executed and a number of observations were made. These observations and the impact they have on the interoperability of the systems can be viewed in the IPC test schedule document in reference [3].

# 8. Verification Steps

The following steps can be used to verify that Avaya Communication Manager and Avaya Modular Messaging are configured correctly to support QSIG integration with the Alliance MX product.

status t	runk 4			Page 1
		TRUNK	GROUP STATUS	
Member	Port	Service State	Mtce Connected Ports Busy	
0004/001	01A0901	in-service/idle	no	
,		in-service/idle	no	
,		in-service/idle	no	
		in-service/idle	no	
		in-service/idle	no	
		in-service/idle in-service/idle	no no	
		in-service/idle	no	

# 9. Conclusion

This Application Notes describe how to configure Avaya Communication Manager, Avaya Modular Messaging or Avaya INTUITY<sup>TM</sup> AUDIX® LX to support the IPC Information System Alliance MX using QSIG.

# 10. Additional References

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

- [1] Documentation for Avaya Communication Manager (5.1), Media Gateways and Servers, January 2008, available at: <u>http://support.avaya.com</u>
- [2] Modular Messaging Release 4.0 with the Avaya MSS Messaging Application Server (MAS) Administration Guide, May 2008, available at <a href="http://support.avaya.com">http://support.avaya.com</a>
- [3] ISO QSIG Interworking Test Schedule Between IPC MX Dealerboard Release 15.2 and Avaya Communication Manager Rel.5.1, February 2009, available on request from IPC <u>mark.rideout@ipc.com</u> or Avaya <u>niu@avaya.com</u>.
- [4] AVAYA S8300 & S87x0/S8500 with C-LAN Connectivity Date: 03/08 Rev: E Intg Type: CLAN, March 2008, available at <u>http://support.avaya.com</u>

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