

Avaya Solution & Interoperability Test Lab

# Configuring Connectivity between Avaya Communication Manager, the Avaya Meeting Exchange S6200 Conferencing Server and the Cantata Technology Integrated Media Gateway 1010 Utilizing CAS and SIP - Issue 1.0

#### Abstract

These Application Notes present the procedures for configuring connectivity between Avaya Communication Manager, the Avaya Meeting Exchange S6200 Conferencing Server (Avaya Meeting Exchange) and the Cantata Technology Integrated Media Gateway 1010 (IMG). The IMG provided T1 CAS to SIP gateway functionality between Avaya Communication Manager and Avaya Meeting Exchange. This configuration enables telephones registered to either Avaya Communication Manager, or Avaya SIP Enablement Services access to a rich set of audio conferencing options provided by Avaya Meeting Exchange via the IMG.

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 present the procedures for configuring connectivity between Avaya Communication Manager, the Avaya Meeting Exchange S6200 Conferencing Server (Avaya Meeting Exchange) and the Cantata Technology Integrated Media Gateway 1010 (IMG). The IMG provided Channel Associated Signaling (CAS) connectivity to Avaya Communication Manager, as well as SIP connectivity to Avaya Meeting Exchange. This configuration enables telephones registered to either Avaya Communication Manager, or Avaya SIP Enablement Services access to a rich set of audio conferencing options provided by Avaya Meeting Exchange via the IMG.

**Figure 1** illustrates the sample configuration utilized for this compliance tested solution. Avaya Communication Manager provided endpoint aggregation and media gateway functionality. For example, any telephone or trunk type associated with Avaya Communication Manager can interoperate with Avaya Meeting Exchange via the IMG. For this sample configuration, SIP, H.323, Digital and Analog telephones were utilized.

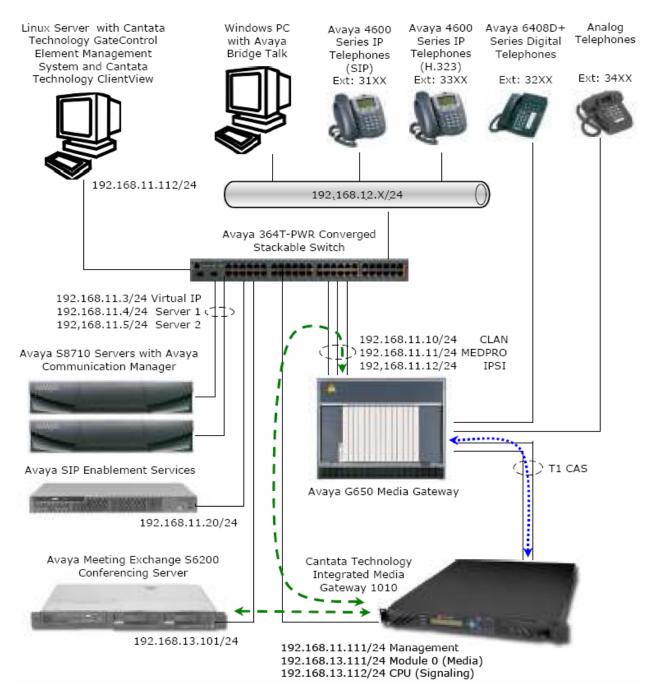
Avaya Meeting Exchange is a SIP-based voice conferencing solution that runs on an S6200 server and provides mid-market enterprise customers with an IP based audio conferencing system. For this sample configuration, Avaya Meeting Exchange was provisioned to accept calls from Avaya Communication Manager via the IMG through call branding that supported both direct and scan call flows. A direct call flow allows access to conferences provisioned on Avaya Meeting Exchange without entering a passcode. Conversely, to enter a conference via a basic call flow requires a passcode. Avaya Meeting Exchange was also administered for outbound calling, which enabled call origination from Avaya Meeting Exchange to participants registered to either Avaya Communication Manager, or Avaya SIP Enablement Services.

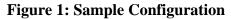
The IMG provides network connectivity for voice services, enabling the delivery of VoIP services via SIP into ISDN-PRI, CAS and SS7 networks, as well as IP to IP transcoding for network peering applications. For this sample configuration, the IMG provided SIP connectivity to Avaya Meeting Exchange and T1 CAS connectivity to Avaya Communication Manager.

It should be noted that Avaya Communication Manager supports direct SIP connectivity with Avaya Meeting Exchange. However, the premise of this compliance test effort was to validate the media gateway functionality of the IMG. Therefore, Avaya Communication Manager was configured for T1 CAS connectivity with the IMG, and the IMG was configured for SIP connectivity with Avaya Meeting Exchange. To account for the SIP telephones in this sample configuration, Avaya SIP Enablement Services was utilized as a SIP registration server only.

The end-to-end signaling and media connectivity is as follows:

- Signaling (SIP) and media (RTP) connectivity between Avaya Meeting Exchange and the IMG is depicted by the green dashed line.
- T1 signaling and media (CAS) connectivity between Avaya Communication Manager and the IMG is depicted by the blue dotted line.





REB; Reviewed: SPOC 2/5/2008

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# 2. Equipment and Software Validated

The following equipment and software versions were used for this sample configuration:

Equipment	Software Version
Avaya S8710 Servers	Avaya Communication Manager 4.0
	(R014x.00.1.731.2)
Avaya G650 Media Gateway	
• Avaya TN2312BP (IPSI)	HW12 FW040
• Avaya TN799DP (C-LAN)	HW01 FW024
• Avaya TN2302AP (MEDPRO)	HW20 FW117
Avaya Meeting Exchange S6200 Conferencing Server	40102h
	mx7_1.3.00-84
Avaya Bridge Talk	4.0.03a
Avaya SIP Enablement Services	SES04.0-04.0.033.6
Avaya C364T-PWR Converged Stackable Switch	4.5.14
Avaya 4600 Series IP Telephones	2.8 (H.323)
Avaya 4600 Series IP Telephones	2.2.2 (SIP)
Avaya 6408D+ Digital Telephones	
Analog Telephones	
Cantata Technology Integrated Media Gateway 1010	10.3.3
Cantata Technology GateControl Element	10.3.3.174
Management System	
Cantata Technology ClientView	10.3.3.174

#### **Table 1: Equipment and Software Versions**

# 3. Avaya Communication Manager Configuration

This section displays the configuration for enabling Avaya Communication Manager to interoperate with Avaya Meeting Exchange via the IMG.

Avaya Communication Manager was administered from the System Access Terminal (SAT). In these Application Notes, the SAT screens are shown with a gray shaded background. In some instances, the information from the original screen has been edited or annotated for brevity or clarity in presentation. For example, entries and/or fields in the SAT screens that were either modified or were required for these Application Notes are displayed with boldface type. Refer to [1] and [2] for additional information regarding the configuration displayed in this section.

### 3.1. Verify Licensing

The following steps verify licensing on Avaya Communication Manager that is required to support the configuration displayed in these Application Notes. If a required feature is not enabled or there is insufficient capacity, contact an authorized Avaya account representative to make the appropriate changes.

Step	Description							
3.1.1	Issue the command "display system-parameters customer-options" and proceed to Page 3.							
	Verify that the <b>ARS/AAR Dialing without FAC</b> field is enabled.	-						
	Note: The ARS/AAR Dialing without FAC feature allows direct access to Automatic	c Alternate						
	Routing (AAR) and Automatic Route Selection (ARS) from the dial plan analysis tabl							
	display system-parameters customer-options Page 3 of	11						
	OPTIONAL FEATURES							
	Abbreviated Dialing Enhanced List? n Audible Message Waiting?	У						
	Access Security Gateway (ASG)? n Authorization Codes?	-						
	Analog Trunk Incoming Call ID? n Backup Cluster Automatic Takeover?	n						
	A/D Grp/Sys List Dialing Start at 01? n CAS Branch?	n						
	Answer Supervision by Call Classifier? n CAS Main?							
	ARS? y Change COR by FAC?							
	ARS/AAR Partitioning? y Computer Telephony Adjunct Links?	-						
	ARS/AAR Dialing without FAC? y Cvg Of Calls Redirected Off-net?							
	ASAI Link Core Capabilities? n DCS (Basic)?							
	ASAI Link Plus Capabilities? n DCS Call Coverage?							
	Async. Transfer Mode (ATM) PNC? n DCS with Rerouting? Async. Transfer Mode (ATM) Trunking? n	n						
	ATM WAN Spare Processor? n Digital Loss Plan Modification?	n						
	ATMS? n DS1 MSP?							
	Attendant Vectoring? y DS1 Echo Cancellation?	n						
	(NOTE: You must logoff & login to effect the permission changes.)							
	(NOTE: TOU MUSE TOGOTT & TOGTT CO EFfect the permission changes.)							

### 3.2. Configure Connectivity

This section describes the steps for configuring CAS trunking between Avaya Communication Manager and the IMG.

Step	Description						
3.2.1							
	add dsl 1a07	DS1 CI	RCUIT PACK	Page 1	of 2		
	Location: Bit Rate: Line Compensation: Signaling Mode:	1.544 1	Name: Line Coding: Framing Mode:				
	Interface Companding: Idle Code:						
	Slip Detection?	n	Near-end CSU Type: o	other			

Step	Description						
3.2.2	Issue the command " <b>add trunk-group</b> < <b>n</b> >", where <b>n</b> is the number of an unallocated trunk						
	group and administer settings as displayed.						
	• Enter a descriptive name for the trunk group in the <b>Group Name</b> field.						
	• Set the <b>Group Type</b> field to <b>tie</b> .						
	• Enter a number in the <b>TAC</b> (Trunk Access Code) field that is consistent with the						
	configuration for the dial plan.						
	• Set the <b>Trunk Type</b> field to a value that is compatible with the IMG media gateway						
	settings.						
	<ul> <li>Configure additional fields with boldface type as displayed and use default settings for</li> </ul>						
	remaining fields.						
	Tomuming Holds.						
	add trunk-group 7 Page 1 of 21						
	TRUNK GROUP						
	Group Number: 7 Group Type: tie CDR Reports: y Group Name: CAS Trunk to IMG-1010 COR: 1 TN: 1 TAC: 107						
	Direction: two-way Outgoing Display? y Trunk Signaling Type:						
	Dial Access? y Busy Threshold: 255 Night Service:						
	Queue Length: 0 Incoming Destination:						
	Comm Type: voice Auth Code? n Trunk Flash? n						
	Trunk Type (in/out): wink/wink						

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### 3.3. Configure Call Routing

This section describes the steps for configuring call routing from Avaya Communication Manager to Avaya Meeting Exchange via the IMG. For this sample configuration, ARS/AAR dialing without FAC is utilized to route calls to Avaya Meeting Exchange. Note that other forms of call routing may be utilized.

Step	Description								
3.3.1	Issue the comma	und " <b>cha</b>	nge di	alplan analy	ysis" and adminis	ster settings	s to route	e any n	umbers
			0		ength via AAR as	0		5	
			, anns	e algits in i	ingen via i nica:	, anspiayea.	•		
	change dialplar	1 analvg	iq				Page	1 of	12
	change araipian	i unuryb	10				ruge	1 01	12
				DIAL PLAN	ANALYSIS TABLE				
						Perc	cent Ful	11:	1
	Dialed	Total	Call	Dialed	Total Call	Dialed	Total	Call	
	String	Length		String	Length Type	String	Length	і Туре	
	0	1	fac						
	1	3	dac						
	2	3	aar						
	3	5	ext						
	4	3	aar						
	5	3	aar						
	6 7	3 5	aar						
	8	5	ext fac						
	9	2	dac						
	*	1	fac						
	#	3	fac						

Step	Description									
3.3.2	Issue the command "change route-pattern <n>", where n is the number of an unallocated</n>									
	route pattern. Administer settings to utilize the trunk group provisioned in <b>Step 3.2.2</b> to route									
	calls from Avaya Communication Manager to the IMG.									
	-	trunk group that was provisioned in Step	<b>3</b> 2 2 in the <b>Grn No</b>							
	field.	tunk group that was provisioned in Step	<b>5.2.2</b> In the <b>GIP</b> 100							
	• To disable restrictions f	or call routing via this route pattern, set the	ne Facility Restriction							
	Level ( <b>FRL</b> ) field to the									
		-	a default attings for							
		lds with boldface type as displayed and u	se default settings for							
	remaining fields.									
	change route-pattern 7	E	Page 1 of 3							
	Pattern	Number: 7 Pattern Name: CAS Rt To ]	IMG							
		SCCAN? n Secure SIP? n								
	Grp FRL NPA Pfx Hop Toll No Mrk Lmt List	No. Inserted Del Digits	DCS/ IXC OSIG							
		3	Intw							
	1:70	Dgts 0								
	1:70 2:	Dgts	Întw n user n user							
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	<b>1: 7 0</b> 2: 3: 4: 5: 6:	Dgts 0 ITC BCIE Service/Feature PARM No.	Intw n user n user n user n user n user Numbering LAR Format							
	1: 7 0 2: 3: 4: 5: 6: BCC VALUE TSC CA-TSC	Dgts 0 ITC BCIE Service/Feature PARM No. Dgts	Intw n user n user n user n user n user Numbering LAR Format							
	1: 7 0 2: 3: 4: 5: 6: BCC VALUE TSC CA-TSC 0 1 2 M 4 W Request	Dgts 0 ITC BCIE Service/Feature PARM No. Dgts Subaddre	Intw n user n user n user n user n user n user Numbering LAR Format							
	1: 7 0 2: 3: 4: 5: 6: BCC VALUE TSC CA-TSC 0 1 2 M 4 W Request 1: y y y y y n n 2: y y y y y n n 3: y y y y n n	Dgts 0 ITC BCIE Service/Feature PARM No. Dgts Subaddre rest	Intw n user n user n user n user n user Numbering LAR Format ss none							
	1: 7 0 2: 3: 4: 5: 6: BCC VALUE TSC CA-TSC 0 1 2 M 4 W Request 1: y y y y y n n 2: y y y y y n n 3: y y y y y n n 4: y y y y n n	Dgts 0 ITC BCIE Service/Feature PARM No. Dgts Subaddre rest rest	Intw n user n user n user n user n user n user Numbering LAR Format ss none none							
	1: 7 0 2: 3: 4: 5: 6: BCC VALUE TSC CA-TSC 0 1 2 M 4 W Request 1: y y y y y n n 2: y y y y y n n 3: y y y y n n	Dgts 0 ITC BCIE Service/Feature PARM No. Dgts Subaddre rest rest rest rest	Intw n user n user n user n user n user n user Numbering LAR Format ess none none none							

Step	Description								
3.3.3	Issue the command "change aar analysis x" and add entries in the table to utilize the route								
	pattern provisioned in St	ep <b>3.3.2</b> .							
	• Enter a number in	the Dialed St	tring field	that will	be util	ized by Avay	a Meet	ing	
	Exchange to map	to call brandir	ng for a dir	ect call	flow (se	ee Step 4.3.2	).		
	• Enter the number	of the route pa	attern prov	isioned	in <b>Step</b>	3.3.2 in the <b>I</b>	Route <b>F</b>	Pattern	
	field.								
	<ul> <li>Configure additio remaining fields.</li> </ul>	nal fields with	boldface t	ype as c	lisplaye	d and use det	fault set	ttings for	
	1 1								
	change aar analysis 5					Page	1 of	2	
		AAR DI	GIT ANALY	SIS TABI	ΞE				
						Percent Fu	111:	1	
	Dialed String 502	Total Min Max 3 3	Route Pattern 7	Call Type aar	Node Num	ANI Reqd n			
	501	3 3	7	aar		n			

## 4. Avaya Meeting Exchange Configuration

This section displays the configuration for enabling Avaya Meeting Exchange to interoperate with Avaya Communication Manager via the IMG. Call routing, call branding and SIP connectivity are administered on Avaya Meeting Exchange via a Command Line Interface (CLI) accessed via a telnet connection. Conference related attributes are administered and maintained via the Avaya Bridge Talk application. Refer to [3], [4] and [5] for additional information regarding the configuration displayed in this section.

## 4.1. Configure Connectivity

This section describes the steps for configuring SIP connectivity between Avaya Meeting Exchange and other SIP User Agents (UA). The provisioning depicted in this section was administered via the CLI.

Step	Description
4.1.1	
	IMG by editing the <b>system.cfg</b> file as follows:
	• From the <b>/usr/ipcb/config</b> directory, edit the <b>system.cfg</b> file with a text editor.
	<ul> <li>Enter the IP address of Avaya Meeting Exchange (as defined in the /etc/hosts file) for the IPAddress variable.</li> </ul>
	<ul> <li>Enter a SIP URI for Avaya Meeting Exchange that conforms to SIP standards for the MyListener variable. This entry is used to populate the "From" header field in SIP INVITE messages from Avaya Meeting Exchange. To enable SIP connectivity on port 5060, this entry must contain 5060 and transport=tcp. The user field, S6200, must conform to SIP standards and is selected to uniquely identify this server. For example, S6200 will be inserted in the "From" header field of SIP INVITE messages from Avaya Meeting Exchange are invoked. This allows end-users to identify a call from Avaya Meeting Exchange that conforms to SIP standards for the respContact variable. This entry is used to provide the IMG a Contact address to use for acknowledging SIP messages from Avaya Meeting Exchange.</li> <li>Enter a value in seconds for the sessionRefreshTimerValue and minSETimerValue variables. These entries correspond to the Min-SE timer in SIP INVITE messages from Avaya Meeting Exchange.</li> </ul>
	<pre># ip address of the server IPAddress=192.168.13.101</pre>
	<pre># request we will be listening to MyListener=sip:S6200@192.168.13.101:5060;transport=tcp</pre>
	<pre># if this setting is populated will Overwrite the contact field in responses respContact=<sip:s6200@192.168.13.101:5060;transport=tcp></sip:s6200@192.168.13.101:5060;transport=tcp></pre>
	<pre># diff serv this value will appear on the TOS field of the IP packet DiffServTOSValue=0 # vlan value EthernetVlanValue=0</pre>
	<pre># initipcb process keep-alive time (seconds) processKeepAlivePollTime=11</pre>
	<pre># softms time interval (microseconds) softmsTimeInterval=20000</pre>
	<pre># bridgeTranslator time interval (seconds) bridgetranslatorTimeInterval=6</pre>
	sessionRefreshTimerValue=86400 minSETimerValue=86400

### 4.2. Configure Call Routing

The following steps show procedures to enable call routing for Avaya Meeting Exchange, where call routing is defined as follows:

- For outbound calls from Avaya Meeting Exchange, telephone number to URI translations are utilized. These translations associate a telephone number pattern with a corresponding SIP URI, thus allowing call origination from Avaya Meeting Exchange.
- For inbound calls to Avaya Meeting Exchange, URI to telephone number translations are utilized. These translations associate calls to Avaya Meeting Exchange with corresponding call branding, based on incoming SIP URIs.

The provisioning depicted in this section was administered via the CLI.

Step	Description
4.2.1	Administer settings to enable outbound calling from Avaya Meeting Exchange to Avaya Communication Manager via the IMG by adding telephone number to URI translations to the <b>telnumToUri.tab</b> file as follows:
	<ul> <li>From the /usr/ipcb/config directory, edit the telnumToUri.tab file with a text editor.</li> <li>Add rules, separated by either tabs or single spaces, as a line in the file to route outbound calls from Avaya Meeting Exchange to the IMG. Metacharacters such as * (refers to a character string) or ? (refers to a single character) may be utilized.         <ul> <li>The rule entered under the TelnumPattern column matches any five digit pattern with a leading "3".</li> <li>The rule entered under the TelnumConversion column routes the call to the IP address of the CPU on the IMG via SIP/TCP. To enable SIP connectivity utilizing TCP, the rule must syntactically conform to SIP standards regarding URI and contain 5060 and transport=tcp. Avaya Meeting Exchange will replace \$0 with the dialed number in outgoing SIP INVITE messages. For example, if <i>31001</i> is dialed, Avaya Meeting Exchange will format a SIP INVITE message with the following line in the SIP URI and "To" header field:</li></ul></li></ul>
	<ul> <li>Note: Alternatively, call routing to Avaya Communication Manager via the IMG could have been enabled with the following entry:</li> <li>sip:\$0@192.168.13.112:5060;transport=tcp, where * is a wildcard and routes any dialed digits to the IMG.</li> </ul>
	<pre># telnum to uri conversion table # # This file is for dialing out from the Bridge to an external party. The # digits that are dialed are converted into the Request URI in the SIP INVITE. # For example, if the digits dialed were 936543 and one of the patterns was # "93????" a match would take place. If the conversion for that match was # \$1 then the Request URI for the SIP INVITE would be sip:936543@10.221.11.250 #THE COMMENT COLLUM OR ANY OF THE COLLUMS SHOULD HAVE NO SPACES TelnumPattern TelnumConversion comment</pre>

Step	Description
4.2.2	Administer settings to associate incoming calls to Avaya Meeting Exchange with
	corresponding call branding by adding URI to telephone number translations to the
	UriToTelnum.tab file. These translations extract a value for the Direct Inward Dial (DID, also
	known as DDI in Europe).
	• From the /usr/ipcb/config directory, edit the UriToTelnum.tab file with a text editor.
	• Add rules, separated by either tabs or single spaces, as a line in the file to match the
	pattern of the "To" header field in SIP INVITE messages from the IMG. If the match is
	successful, the DID is extracted from the "To" header field. Metacharacters such as * or
	? may be utilized.
	• The rules under the <b>TelnumPattern</b> and <b>TelnumConversion</b> columns work in
	conjunction. Assume the IMG sends a SIP INVITE message with the following
	"To" header field. The rule "* <sip:*@*" following:<="" matches="" th="" the=""></sip:*@*">
	<ul> <li>To: <sip:502@192.168.13.101>, where \$2 utilizes 502 (the variable</sip:502@192.168.13.101></li> </ul>
	mapped to the second *) as the DID value for the call.
	• Enable an undefined caller to receive a prompt for operator assistance by adding an
	entry for a wildcard as the last line in this file. This entry accounts for the condition of
	an unmatched "To" header field.
	<i>Note</i> : Entries in this file are read sequentially, therefore, the entry for the wildcard must be the
	last line in the file. Otherwise, all calls to Avaya Meeting Exchange would match the wildcard
	and thus receive a prompt for operator assistance.
	H nominet IIDT to tolour contraint toble
	# request URI to telnum conversion table #
	# This table converts the Request URI in the SIP INVITE request to the # appropriate value specified when a pattern is matched. For example, if the
	# request Uri was " <sip:3333@10.220.10.4>" and one of the patterns was</sip:3333@10.220.10.4>
	# " <sip:*@*" a="" conversion="" for="" if="" match="" place.="" take="" that="" the="" was<br="" would=""># \$1 then 3333 would be passed as the ddi for the call. If the conversion for</sip:*@*">
	# that match were "0000" then 0000 would be passed as their ddi for the call.
	#THE COMMENT COLLUM OR ANY OF THE COLLUMS SHOULD HAVE NO SPACES
	TelnumPattern TelnumConversion comment
	<b>"*<sip:*@*" \$2<="" b=""> IMG1010 * <b>\$0</b> wildcard</sip:*@*"></b>
4.2.3	Reboot Avaya Meeting Exchange for changes to take effect.
	[S6200]> init 6

### 4.3. Configure Call Branding

The following steps provide examples of how to provision direct and scan call branding by utilizing the Call Branding Utility (CBUTIL) on Avaya Meeting Exchange. A command line utility, CBUTIL enables administrators to assign a specific annunciator message, line name, company name, system function, reservation group and prompt sets to a maximum of 30,000 DNIS or DID entries. Avaya Meeting Exchange parses these entries in numerically ascending order, with the wildcard character "?" last in the list. For example, 129? follows 1299. The last entry in the table consists entirely of wildcard characters. The number of characters in this entry corresponds to the number of DNIS/DDI digits specified in the Digit Parameters configuration.

Step	Description				
4.3.1	<ul> <li>Prior to utilizing the CBUTIL utility, set the UNIX shell environment as follows:</li> <li>If not already logged on, login to the Avaya Meeting Exchange console to access the</li> </ul>				
	CLI with the appropriate credentials.				
	<ul> <li>At the command prompt, enter "tcsh" to set the UNIX shell environment.</li> <li>At the command prompt, enter "cbutil" to view a list and description of commands associated with the call branding utility.</li> </ul>				
	# tcsh .tcshrc on /dev/pts002				
	You are connected to the root account. Your environment has been set to vt220.				
	This system currently has release 40102h of software installed.				
	S6200-> <b>cbutil</b> cbutil Copyright 2004 Avaya, Inc. All rights reserved.				
	Usage: cbutil <command/> [command-specific args] where <command/> may be one of:				
	addAdd an entry to the Call Branding tableremoveRemove an entry from the Call Branding tableupdateUpdate an entry in the Call Branding table				
	lookupDisplay an entry in the Call Branding tablecountDisplay the number of entries in the Call Branding tablelistList entries in the Call Branding table				
	<pre>dnissize Set system configured max dnis length (1-16) Note: This command should only be used when the bridge is not running. Use "cbutil<command/> -help" to get help on a specific command</pre>				

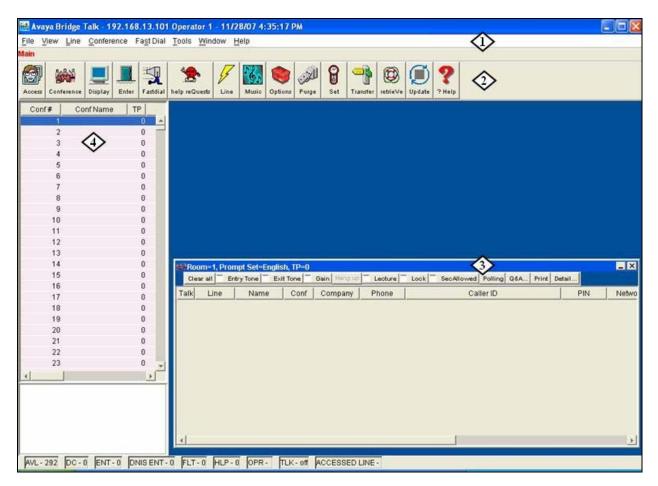
Step	Description
4.3.2	
	• Add an entry to the call branding table to map the DID value obtained from procedures in <b>Step 4.2.2</b> to a conference by entering <b>cbutil add 502 0 301 1 n direct</b> at the command prompt. The syntax for this command is case insensitive and is defined as follows.
	cbutil add <dnis> <rg> <msg> <ps> <ucps> <func> [-l <ln> -c <cn>], where, o <dnis> DNIS</dnis></cn></ln></func></ucps></ps></msg></rg></dnis>
	o <rs>Reservation groupo<msg>Annunciator message numbero<ps>Prompt set number (0-20)</ps></msg></rs>
	<ul> <li><ucps> Use conference prompt set (y/n)</ucps></li> <li><func> One of: DIRECT/SCAN/ENTER/HANGUP/AUTOVL/FLEX</func></li> <li>-1 &lt;"ln"&gt; Optional line name to associate with caller</li> <li>-c &lt;"cn"&gt; Optional company name to associate with caller</li> </ul>
	S6200-> <b>cbutil add 502 0 301 1 n direct</b> cbutil Copyright 2004 Avaya, Inc. All rights reserved.
4.3.3	Repeat Step 4.3.2 to add an entry to the call branding table for a scan call flow. S6200-> cbutil add 501 0 1 1 n scan cbutil Copyright 2004 Avaya, Inc. All rights reserved.
4.3.4	At the command prompt, enter "cbutil list" to verify the entries provisioned in Step 4.3.2 and Step 4.3.3. <i>Note:</i> The last entry in the call branding table, with a DNIS value ???, was added previously and is a wild card entry. This entry captures any wrong number (e.g., unmatched DID values) and places the call into the enter queue for operator assistance.
	S6200-> <b>cbutil list</b> cbutil Copyright 2004 Avaya, Inc. All rights reserved.
	DNIS Grp Msg PS CP Function Line Name Company Name
	501         0         1         1         N         SCAN           502         0         301         1         N         DIRECT           ???         0         208         1         N         ENTER

### 4.4. Administer Conferences

The following steps utilize Avaya Bridge Talk to provision conferences on Avaya Meeting Exchange. Avaya Bridge Talk is an application that runs on a standard Windows based PC and is utilized for provisioning and managing conferencing applications on Avaya Meeting Exchange. Refer to [5] for information regarding the PC requirements. If any of the features displayed in the Avaya Bridge Talk screen captures are not present, contact an authorized Avaya sales representative to make the appropriate changes.

**Figure 2** illustrates the main window of the Avaya Bridge Talk application. The following is a brief description of the task areas of the window that were utilized for these Application Notes.

- 1. The Menu Bar, which includes menus for both Avaya Meeting Exchange specific and Windows-based commands.
- 2. The Main Tool Bar, which includes commands for entering command-line text.
- 3. The Conference Room, which displays information about features and attributes for individual conferences; and lists participants, moderators and their status.
- 4. The Conference Navigator, which displays a portion of the conferences currently running on the bridge as well as individual conference attributes or features.



#### Figure 2: Avaya Bridge Talk Main Window

REB; Reviewed: SPOC 2/5/2008

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18 of 60 S6200AcmImgCas

Step	Description								
4.4.1	Create a new dial list for outbound calling from Avaya Meeting Exchange. From the Avaya								
	Bridge Talk Menu Bar, select <b>Fast Dial</b> $\rightarrow$ New. From the New Dial List window that is								
	displayed, add participants to the dial list as follows:								
	• Enter a descriptive label for this dial list in the <b>Name</b> field.								
	• Add entries to the dial list by clicking on the <b>Add</b> button for each participant.								
	• Enter a descriptive label for each participant in the <b>Name</b> field.								
	• Enter a number in the <b>Telephone</b> field that corresponds to telephones registered to either Avaya Communication Manager or Avaya SIP Enablement Services.								
	• Enable conference participants on the dial list to enter the conference without a passed by sheeking the <b>Directly to Conf</b> box								
	passcode by checking the <b>Directly to Conf</b> box.								
	<ul> <li>Refer to [5] for provisioning the remaining fields in this screen.</li> <li>Click on the Save button on the bottom of the screen.</li> </ul>								
	• Click on the Save button on the bottom of the screen.								
	🔯 New Dial List								
	Name AvayaCM Optional Access Code: 00000000000 🔽 Directly to Conf								
	Conferee List								
	✓ Display As Entered     Add     Remove								
	Name Company Moderator Q&A Priority Telephone								
	SIP_31002 31002 Digital_32002 32002								
	H.323_33002								
	Analog_34002								
	<u>S</u> ave Cancel <u>P</u> rint Help								

Step	Description
4.4.2	Schedule conferences that utilize the call branding for a direct call flow provisioned in Section
	4.3 as follows. From the Menu Bar, click View → Conference Scheduler. From the
	<b>Conference Scheduler</b> window that is displayed, click <b>File → Schedule Conference</b> . From
	the Schedule Conference window that is displayed, administer settings as follows:
	• Enter a unique passcode in the <b>Conferee Code</b> field to allow access to this conference.
	• Enter a unique passcode in the Moderator Code field to allow access to this
	conference with moderator/host privileges.
	Note: Enable direct access (without entering a passcode) to this conference by
	ensuring the Moderator Code has associated call branding for a direct call
	flow (see <b>Step 4.3.2</b> ).
	• Enter a descriptive label for this conference in the <b>Conference Name</b> field.
	• Administer settings to enable an auto blast dial by setting the Auto Blast field to Auto
	and selecting the dial list provisioned in Step 4.4.1 in the Dial List field.
	• Select a dial list by clicking on the <b>Dial List</b> button.
	o [Not Shown] Select a dial list from the Create, Select or Edit Dial List window
	that is displayed.
	• Refer to [5] for provisioning of the remaining fields in this screen.
	• Click on the <b>OK</b> button on the bottom of the screen.
	Schedule Conference [Operator Access]
	Conference Information
	Status: ENABLED T Mode: UNATTENDED T Conference Type: DAILY T
	Confirmation No.: 2 Conference ID: Weekend: YES
	Name: Billing Code Prompt DISABLED 💽
	Telephone: Accounting Code: OFF Start Date (mm/dd/yyy): 11/30/2006
	Sign-in Name: operator Security Passcode: OFF 🔄 End Date (mm/dd/www):
	Res Group: 0 Change Conf Opt: 0N 💌
	Conferee Code: 1502 Op Help Available: ON 💌 Name Record/Play: OFF 🛒
	Moderator Code: 502 Block Dialout: OFF SNRP Annunciator: Browse
	Conference Name: DNIS Direct Auto Blast: Auto Y PIN Mode: OFF
	Dial List AvayaCM Blast Annunciator:242 Browse PIN List:
	Conference Features
	Start Time:       12:00       AM       End Time:       12:00       AM       Code Duration:       0         Entry Tone:       Tone       Exit Tone:       Tone       Maximum Lines:       24
	Auto Extend Duration:     ON     Image: Conference Viewer:     Image: Conference Viewer:
	OK Cancel Help
L	

## 5. Cantata Technology Integrated Media Gateway 1010 Configuration

This section displays the configuration for enabling the IMG to interoperate with Avaya Communication Manager as well as Avaya Meeting Exchange.

The IMG was administered with the Cantata Technology ClientView (ClientView) application which is accessible from the Cantata Technology GateControl Element Management System (GCEMS). Refer to the Cantata website for on-line documentation regarding the IMG, ClientView and GCEMS.

Note that this section displays the provisioning that was utilized for this sample configuration and does not show exhaustive procedures for administering an initial configuration. For example, the screens for adding "new" elements to this sample configuration are not shown. However, the sequence of these procedures is relevant, as the configuration was administered in the order presented. Refer to the on-line help available on the Cantata website regarding procedures/commands to administer an initial configuration. **Figure 3** illustrates the main window of the ClientView application that was utilized to provision the IMG. The following panes appear in the main window:

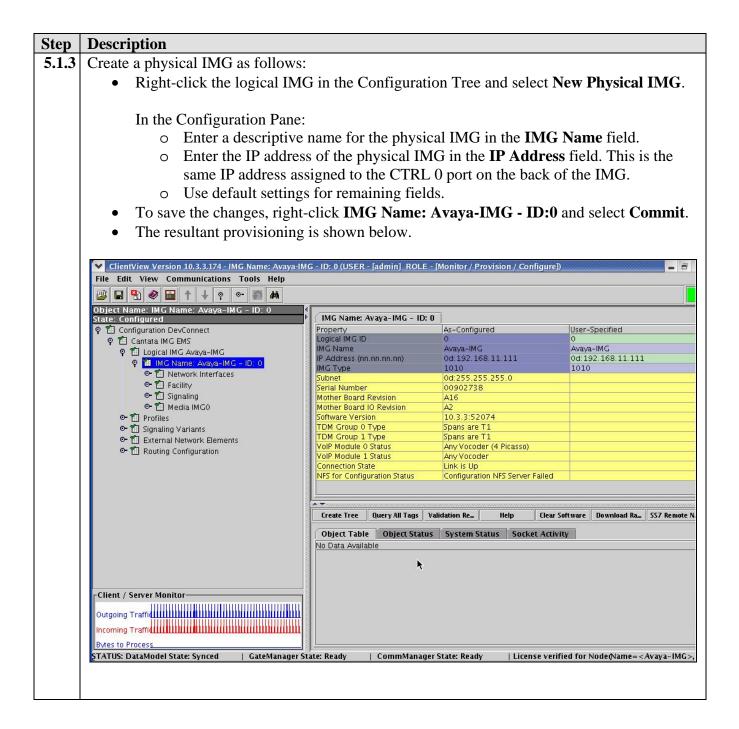
- The **Configuration Tree**, which is located in the top-left portion of the main window. This pane contains all of the items that can be configured. Right-click an item to access additional configuration items. Creating an entry in the Configuration Tree opens the corresponding Configuration Pane.
- The **Configuration Pane**, which is located in the top-right portion of the main window. This pane shows the properties of the selected object. This pane is used to view and edit the configuration.
  - The column titled **As-Configured**, shows the current configuration for parameters, as defined by the **Property** column. Enter or edit values in the **User-Specified** column.

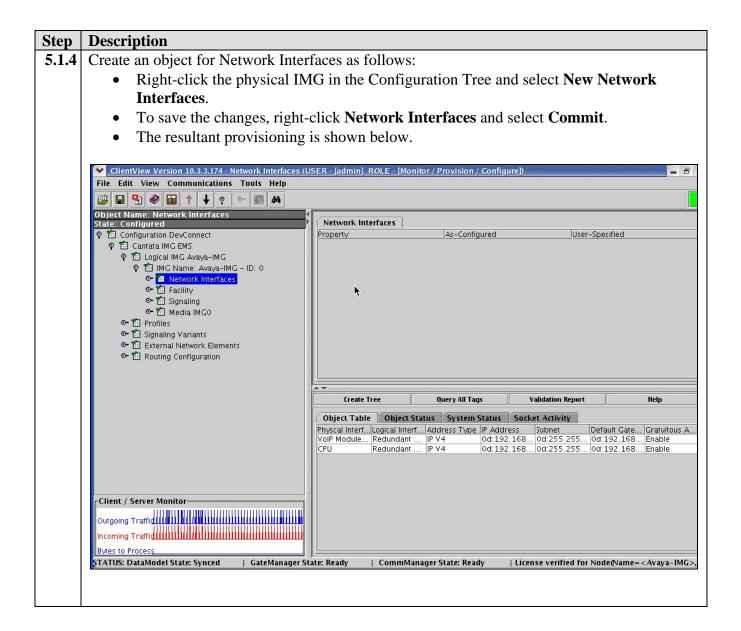
着 ClientView - Cantata IMG EMS	(USER – [admi	n] ROLE -	[Monitor / Pr	ovision / Cor	ifigure])	
File Edit View Communications	s Tools Help					
	<b>#</b>					
Object Name: Cantata IMG EMS State: Configured	Cantata IMG	EMS				
🛛 🛍 Configuration default	Property		As-Confi	aured	User-Specifi	ed
Cantata IMG EMS	IP Address 1		Training			
	Port Number 1	F	1312			
	Connection Sta	ate 1	Active			
Configuration	IP Address 2					
Tree	Port Number 2		1312			
	Connection Sta		Configu	untion Day		
	Number of App	Count	Configu	uration Pan	ie	
Monitor Pane	Buttons	]				
					nonononononononon I	10000000000000000000000000000000000000
	Validation	Help	Clear Logs	Switch Over	MRTG Seri	Create Tree
Client / Server Monitor	Object Table	Object :	Informatio	n Pane	Socket Activ	ity
	Index	App ID	Host Na			p Version
Outgoing Traffic	1	1	Training			.03.02.09
	2	100	Training	I.GCE Datal	vlanager 10	.03.02.09
Incoming Traffic				Incorporation		
Bytes to Process				000000000000		
STATUS: DataModel State: Synced	GateManage	er State: Re	ady   Com	nmManager St	tate: Ready	GateMan

#### Figure 3: Cantata Technology ClientView Main Window

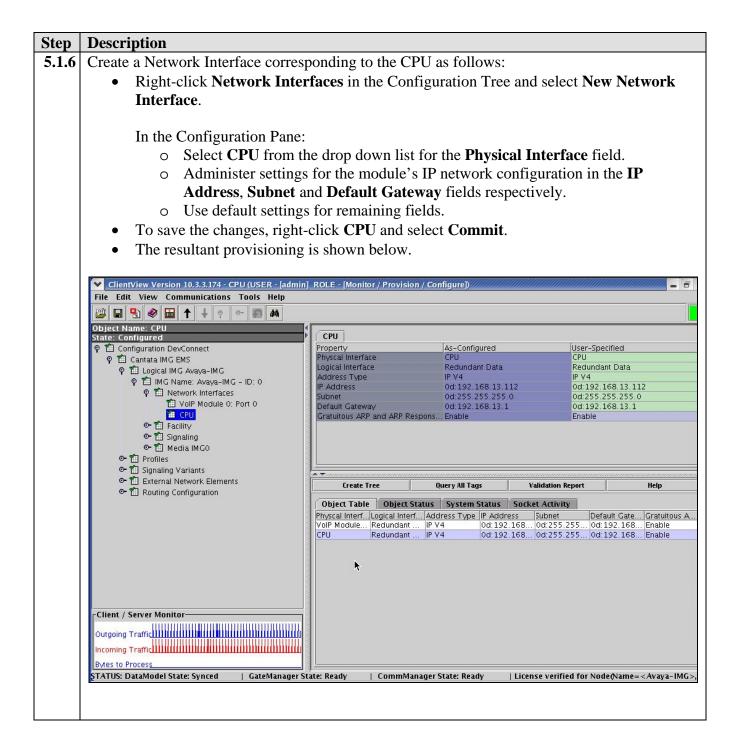
Step	Description							
5.1.1	A default configuration file named "default" is created when ClientView connects to GCEMS.							
	To save the configuration file with a new name:							
	• Right-click <b>Configuration default</b> in the Configuration Tree and select <b>Modify</b> .							
	Object Name: Time of Day Tables State: Unknown							
	🕈 🛍 Configuration default							
	In the Configuration Pane:							
	<ul> <li>Enter a descriptive name in the Filename field.</li> </ul>							
	• To save the changes, right-click <b>Configuration DevConnect</b> and select <b>Commit</b> .							
	• The resultant provisioning is shown below.							
	ClientView Version 10.3.3.174 - Configuration DevConnect (USER - [admin] ROLE - [Monitor / Provision / Configure])     File Edit View Communications Tools Help							
	Object Name: Configuration DevConnect State: Configured Configured							
	As-Configuration DevConnect     Property     As-Configured     User-Specified							
	←          Cantata IMG EMS         Filename         DevConnect         DevConnect         DevConnect							
	▶							
	Create Tree Query All Tags Validation Report Help Refresh Config							
	Object Table Object Status System Status Socket Activity							
	No Data Available							
	Client / Server Monitor							
	Bytes to Process STATUS: DataModel State: Synced   GateManager State: Ready   CommManager State: Ready   License verified for Node(Name= <avaya-img>,</avaya-img>							
	Envirosi Davanovei State Synce   Satemanagei State neavy   Comminimanagei State Neavy   Litense venneu isi MudeUNdine=							

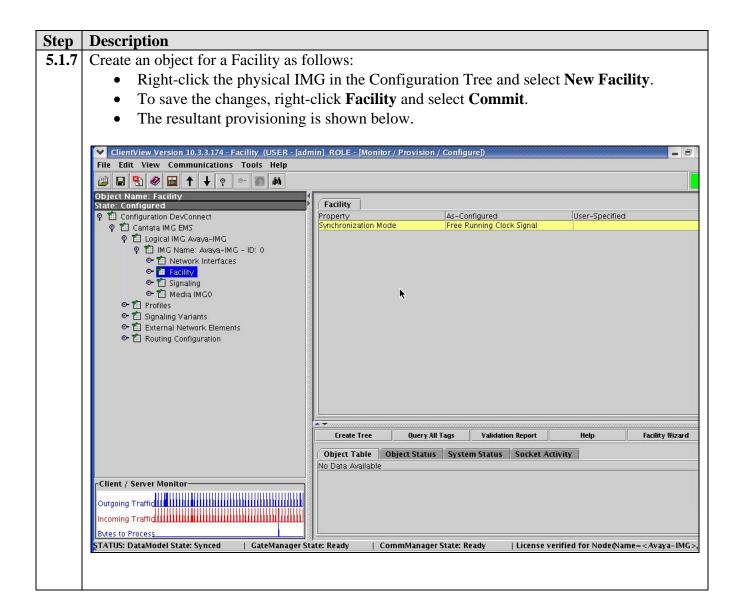
Step	Description					
5.1.2	Create a logical IMG as follows:					
	Right-click Cantata IMG E	MS in the	e Configurati	ion Tree	e and select Ne	w Logical
	IMG.					
	💡 📶 Cantata IMG EMS					
	• New Logical IMG					
	In the Configuration Pane:	C (1	1 1 1 1 1 1		NT C' 11	
	• Enter a descriptive n		U			•4
	• To save the changes, right-c	0		aya-IM	G and select C	ommit.
	• The resultant provisioning is	s shown b	elow.			
	ClientView Version 10.3.3.174 - Logical IMG Avaya-IMG	(USER - [admin	] ROLE - [Monitor / F	Provision / G	onfigure])	
	File Edit View Communications Tools Help					
	Object Name: Logical IMG Avaya-IMG State: Configured	Logical IMG Av				1
	♀ 1 Configuration DevConnect ♀ 1 Cantata IMG EMS	Property Name		Configured Iva-IMG	User-Sp Avaya-II	
	<ul> <li></li></ul>			<b>k</b>		
	👁 🋍 Signaling Variants					
	Image: Contract of the second sec					
		Create Tree	Ouerse	All Tags	Validation Report	Help
			Object Status Sys		Socket Activity	licip
		IMG Name	Logical IMG I		IP Address (nn.nn.nn.nn)	IMG Type
		Avaya-IMG	0		0d:192.168.11.111	1010
	Client / Server Monitor					
	Bytes to Process					
	STATUS: DataModel State: Synced   GateManager Stat	e: Ready	CommManager State:	: Ready	License verified for No	de(Name= <avaya-img)< th=""></avaya-img)<>

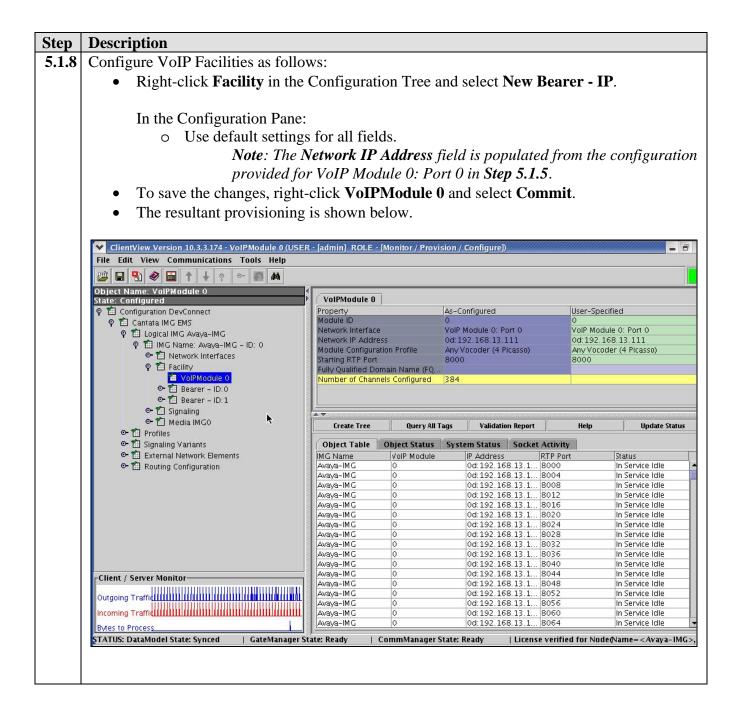


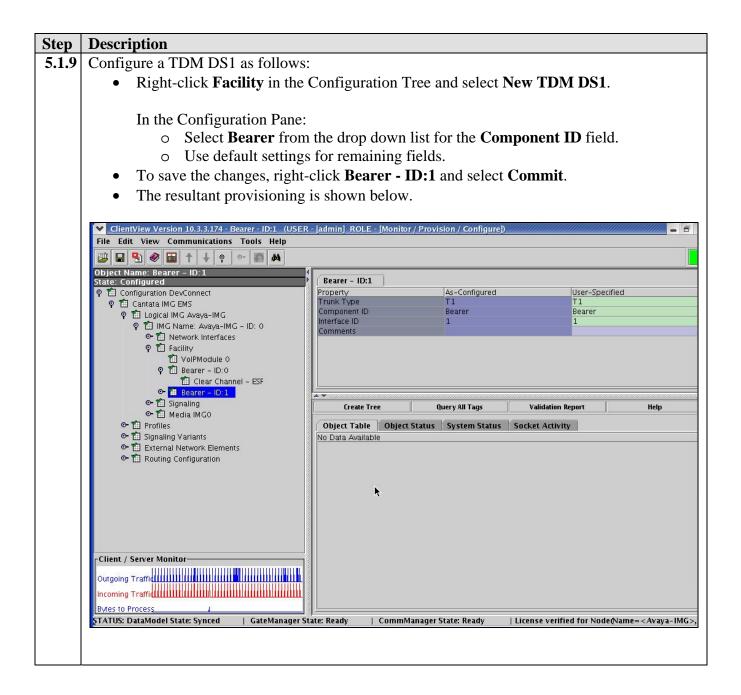


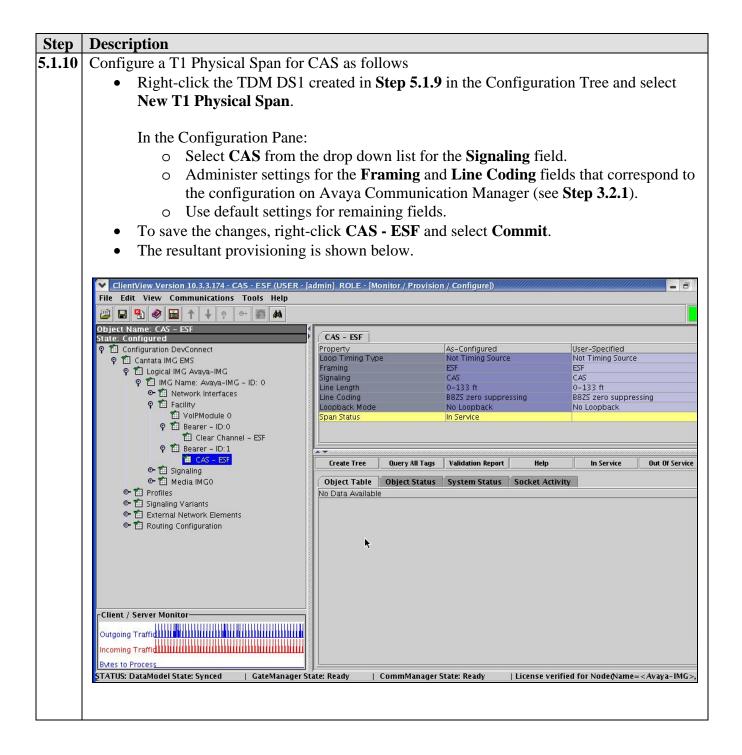
5.1.5	_	onding to							
	Right-click Network Inter	responding to VoIP Module 0: Port (			Port 0	0 as follows:			
	0	• Right-click Network Interfaces in the Configuration Tree and select New Network							
	Interface.								
	In the Configuration Pane:								
	• Select VoIP Module 0: Port 0 from the drop down list for the Physical								
	Interface field.								
	• Administer settings					-	1 in the <b>H</b>	•	
	Address, Subnet ar			•	respec	tively.			
	• Use default settings		U		( ) 1		• • /		
	• To save the changes, right-			le 0: Por	t U and	select C	ommit.		
	• The resultant provisioning i	is shown	below.						
	ClientView Version 10.3.3.174 - VoIP Module 0: Port (	0 (LISER - [admi		nitor / Provisio		ro D			
	File Edit View Communications Tools Help	UCSEN [aum	IL KOLE IN	ninon / Provisio	ni / conniger	ej)			
	Object Name: VoIP Module 0: Port 0 State: Configured	VolP Module	0: Port 0						
	P	Property Physcal Interfa	ce	As-Config VolP Mod	ured ule 0: Port 0		er-Specified IP Module 0: Por	t 0	
	ଡ଼ 🛍 Logical IMG Avaya-IMG စု 🛍 IMG Name: Avaya-IMG - ID: 0	Subnet 0d:255.255.2			it Data	a Redundant Data IP V4			
	P 🛍 Network Interfaces				0d:192.168.13.111 0d:255.255.255.0		0d:192.168.13.111 0d:255.255.255.0		
	H VolP Module 0: Port 0 H CPU	Default Gateway         0d:192.168.13.1         0d:192.168.13.1           Gratuitous ARP and ARP Respons Enable         Enable							
	© 11 Facility ⊙ 11 Signaling								
	er ∰ Media IMG0 er ∰ Profiles								
	👁 🛍 Signaling Variants	 ▲ ▼ 100000000000000000000000000000000000							
	<ul> <li>T External Network Elements</li> <li>T Routing Configuration</li> </ul>	Create T	ree	Query All Tag	5	Validation Repo	n	Help	
		Object Table		tus System S Address Type		ket Activity	Default Gate	. Gratuitous A	
		VoIP Module CPU			0d:192.168	0d:255.255	0d:192.168 0d:192.168	. Enable	
		-							
		h.							
	Client / Server Monitor-								
	Incoming Traffid								
	Bytes to Process								
	STATUS: DataModel State: Synced   GateManager St	ate: Ready	CommMana	iger State: Read	y   Lic	ense verified f	or Node(Name=	<avaya-img:< th=""></avaya-img:<>	

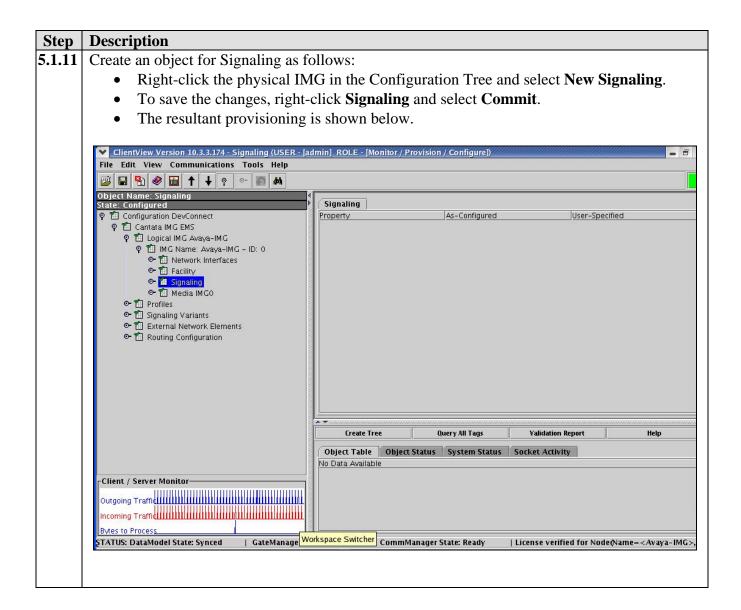




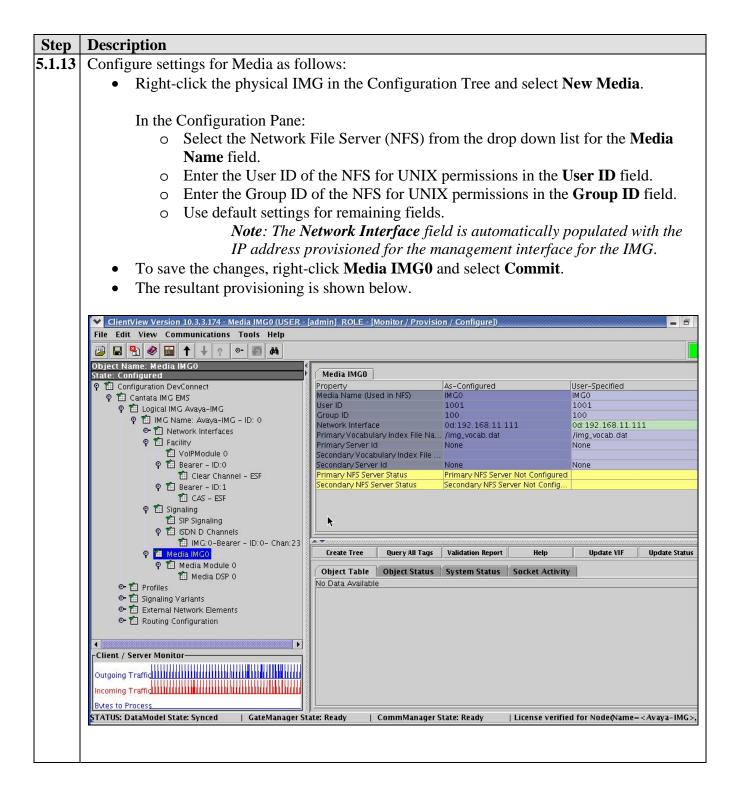




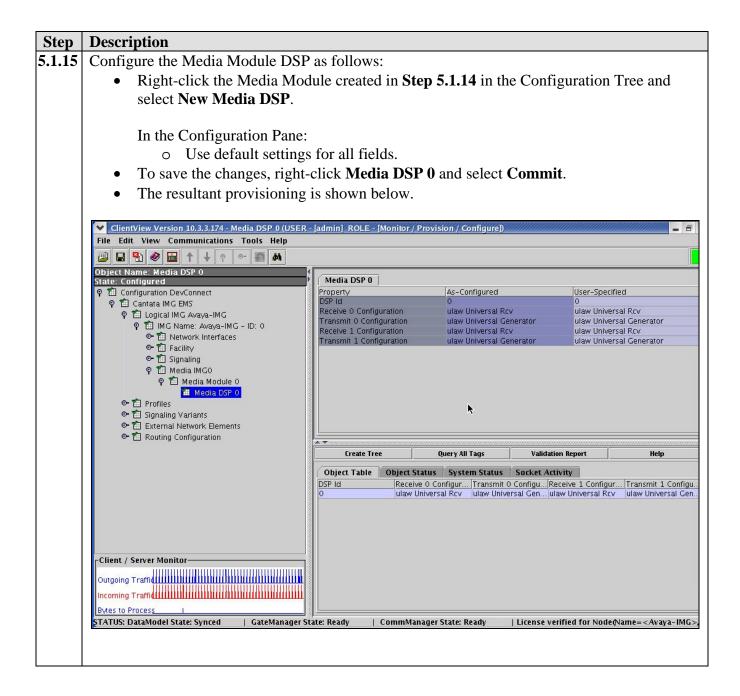


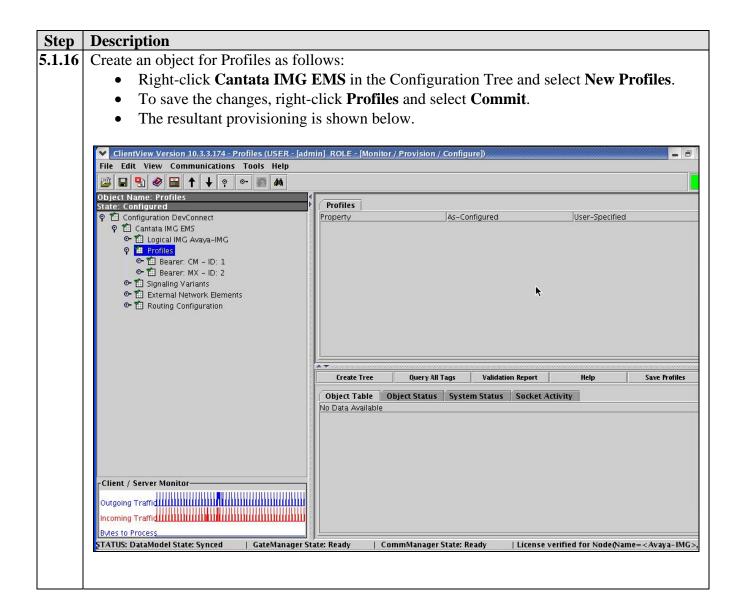


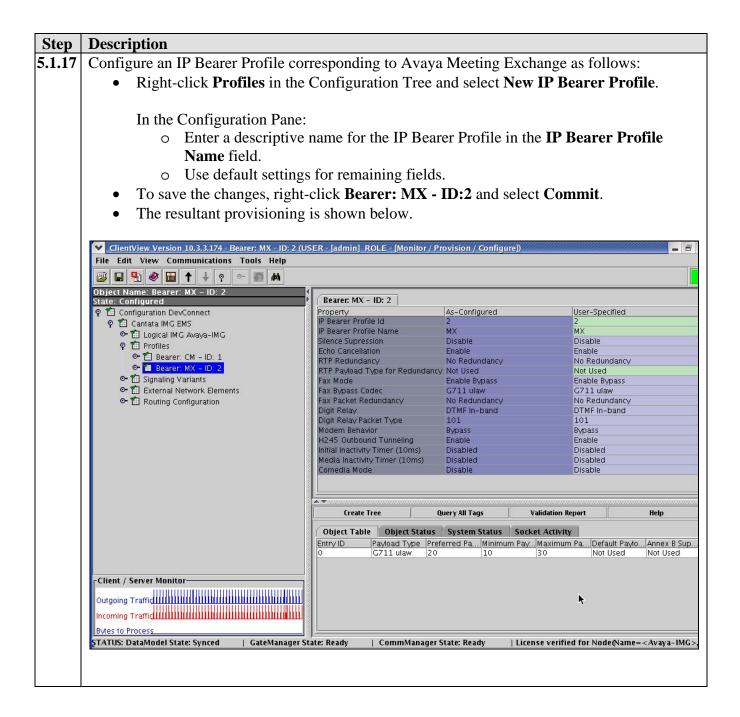
Step	Description							
5.1.12	Configure SIP Signaling to enable	SIP connectivity bet	ween the IMG and	other SIP UAs as				
	follows							
	• Right-click <b>Signaling</b> in the Configuration Tree and select <b>New SIP</b> .							
	In the Confirmentian Dense							
	In the Configuration Pane:							
		s assigned to the CPU	on the IMG in Ste	<b>p 5.1.6</b> in the <b>SIP</b>				
	Signaling IP Addr							
	<ul> <li>Enter values in the Local SIP Port and Default Transport Type fields that correspond to the configuration on Avaya Meeting Exchange (see Step 4.1.1).</li> <li>Use default settings for remaining fields.</li> </ul>							
	0	e						
	• To save the changes, right-	0 0	and select <b>Commit</b> .					
	• The resultant provisioning	is shown below.						
	ClientView Version 10.3.3.174 - SIP Signaling (USER File Edit View Communications Tools Help	l - [admin] ROLE - [Monitor / Provi	sion / Configure])					
	□ □ □ ◆ □ ↑ ↓ ? • ■ ▲							
	Object Name: SIP Signaling	SIP Signaling						
	State: Configured	Property	As-Configured	User-Specified				
	စု 🛍 Cantata IMG EMS	SIP Signaling IP Address Local SIP Port	0d:192.168.13.112 5060	0d:192.168.13.112 5060				
	💡 🛍 Logical IMG Avaya-IMG 🂡 🋍 IMG Name: Avaya-IMG - ID: 0	SIP Compact Header	Disable	Disable				
	🗢 🛍 Network Interfaces	Default Transport Type Default SIP UserName (AOR)	TCP CANTATA-IMG0	TCP CANTATA-IMG0				
	💡 籠 Facility 籠 VolPModule 0	Default SIP Authentication UserNa.						
	P 🛍 Bearer – ID:0	Default SIP Authentication Passwo Enable SIP-T	No	No				
	📫 Clear Channel – ESF	SIP-T Behavior	Not Used	Not Used				
	♀ 🛍 Bearer - ID:1 🛍 CAS - ESF	Privacy Support Remote IMG's SIP Profile	Off Default Profile	Off Default Profile				
	🛛 🛍 Signaling	Fully Qualified Domain Name (FQ						
	<ul> <li>✓ SIP Signaling</li> <li>✓ 🏦 ISDN D Channels</li> </ul>							
	© 1 Media IMG0	•						
	e- 12 Profiles	Create Tree Q	uery All Tags Validation R	leport Help				
	<ul> <li>● 1 Signaling Variants</li> <li>● 1 External Network Elements</li> </ul>		System Status Socket Activit	y I				
	🗢 🛍 Routing Configuration	No Data Available						
		▶						
	Client / Server Monitor							
	Outgoing Traffid							
	Incoming Traffic IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII							
	Bytes to Process							
	STATUS: DataModel State: Synced   GateManager St	r) tate: Ready   CommManager S	itate: Ready   License verifi	ed for Node(Name= <avaya-img>,</avaya-img>				

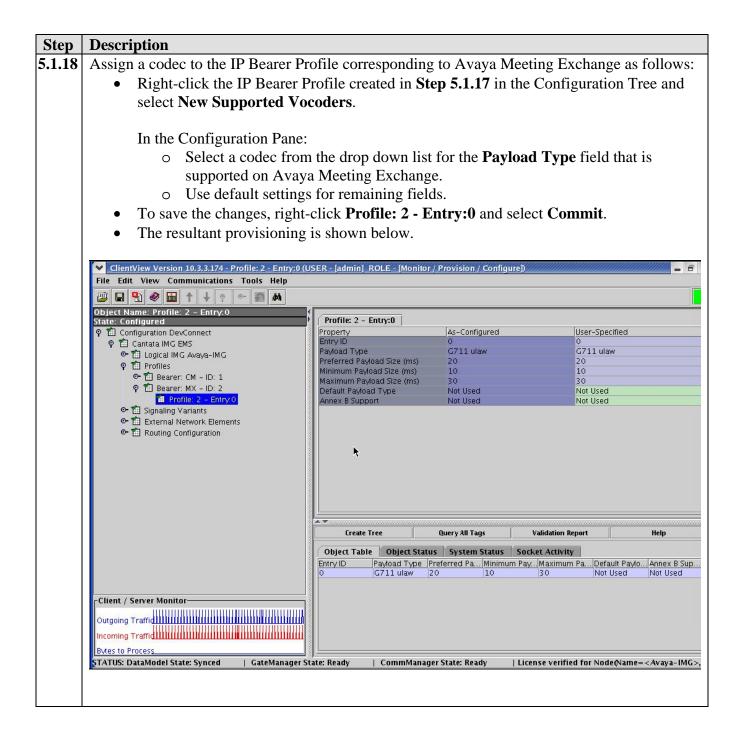


ep	Description							
.14	Create an object for a Media Modu	le as follows:						
	• Right-click Media IMGO in the Configuration Tree and select New Media Module.							
	<ul> <li>Use default settings for all fields.</li> </ul>							
	<ul> <li>To save the changes, right-click Media Module 0 and select Commit.</li> </ul>							
				ct Commit.				
	• The resultant provisioning	is shown below						
	ClientView Version 10.3.3.174 - Media Module 0 (USE	ER - [admin] ROLE - [Moni	tor / Provision / Configure])					
	File Edit View Communications Tools Help							
	📴 🖬 🌯 🍘 🕇 🕹 🕈 🚮 👫							
	Object Name: Media Module 0 State: Configured	Media Module 0						
	🕈 🛍 Configuration DevConnect	Property	As-Configured	User-Spec	ified			
	🕈 🛍 Cantata IMG EMS	Module Interface Id Module Name	0 On-Board	0 On-Board				
	💡 🛍 Logical IMG Avaya-IMG 🂡 🋍 IMG Name: Avaya-IMG - ID: 0	induite marine	on board	on board	29. 			
	• 11 Network Interfaces							
	🗢 🛍 Facility							
	ତ୍ୟ 🖆 Signaling ଡ଼ି 🛍 Media IMG0							
	P Media Module 0							
	🛍 Media DSP 0							
	© 1 Profiles							
	<ul> <li>Isignaling Variants</li> <li>Image: Strength Strength</li> <li>Image: Strength Strength</li> </ul>							
	• 1 Routing Configuration							
		Create Tree	Query All Tags	Validation Report	Help			
		Object Table Object	Status System Status	Socket Activity				
			eive O Configur Transmit O (		ur Transmit 1 Configu			
	Client / Server Monitor	0 ulaw	Universal Rcv ulaw Univers	al Gen ulaw Universal Ro	v ulaw Universal Gen			
	Outgoing Traffig							
	Incoming Traffid							
	Distance of Distance of the State							
	Bytes to Process							
	STATUS: DataModel State: Synced   GateManager St	ate: Ready   CommM	anager State: Ready	License verified for Node	e(Name= <avaya-img></avaya-img>			
		ate: Ready   CommM	anager State: Ready	License verified for Node	e(Name= <avaya-img>,</avaya-img>			



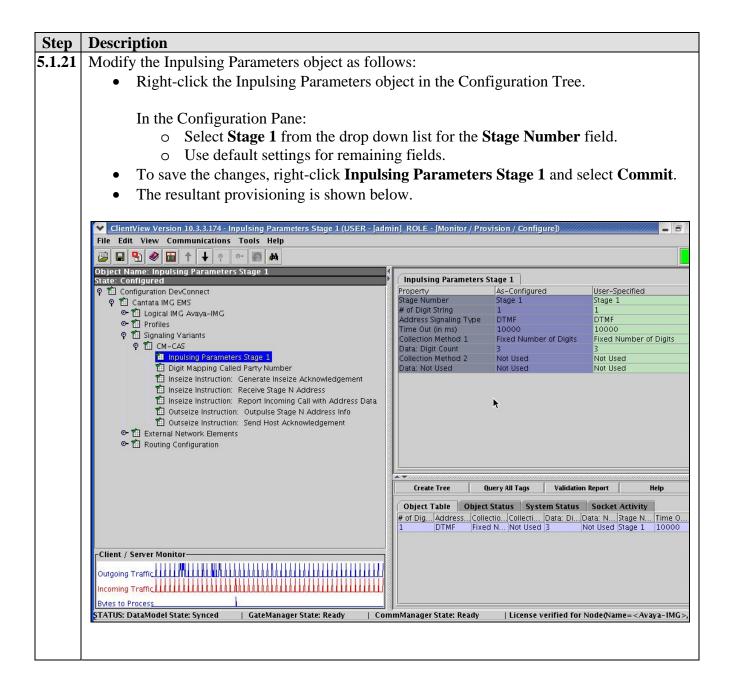




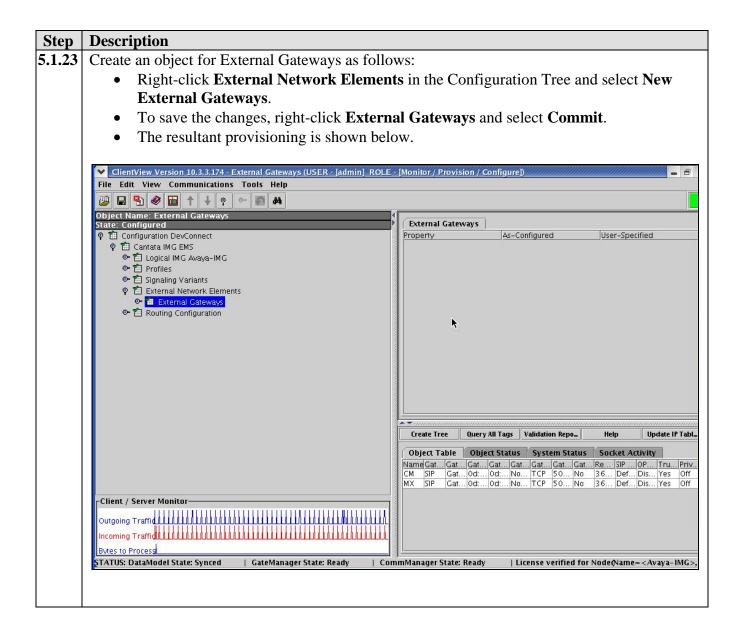


Step	Description					
5.1.19	Create an object for Signaling Vari	ants as follows:				
	• Right-click Cantata IMG EMS in the Configuration Tree and select New Signaling					
	Variants.					
	• To save the changes, right-click <b>Signaling Variants</b> and select <b>Commit</b> .					
	• The resultant provisioning i	s shown below.				
		SER - [admin] ROLE - [Monitor / Provision / Configure])				
	File Edit View Communications Tools Help					
	Defect Name: Signaling Variants					
	State: Configured	Signaling Variants				
	Ŷ	Property As-Configured User-Specified				
	🗢 🛍 Logical IMG Avaya-IMG					
	ତିକ 🟦 Profiles ଡ଼ି 🕌 Signaling Variants					
	<ul> <li>Configuration</li> <li>Configuration</li> </ul>	•				
		Create Tree Query All Tags Validation Re. Help Export Varian. Import Varian. Delete Varian				
		Object Table Object Status System Status Socket Activity				
		No Data Available				
	Client / Server Monitor					
	Outgoing Traffic UNIN III UNIN III UNIN IIII UNIN IIIIIIII					
	Incoming Traffic IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					
	Bytes to Process	ter Dandu CommManager Chater Dandu Licence usefied for ModeAlameAugus_ MACs				
	STATUS: DataModel State: Synced   GateManager Sta	ate: Ready   CommManager State: Ready   License verified for Node(Name= <avaya-img>,</avaya-img>				

Step	Description				
5.1.20	Configure a Signaling Variant to enable CAS c	onnectivity with	n Avaya Comm	unication	
	Manager as follows:				
	• Right-click Signaling Variants in the Configuration Tree and select New Signaling				
	Variant.				
	In the Configuration Pane:				
	<ul> <li>Enter a descriptive name for the Signaling Variant in the Variant Name fie</li> </ul>				
	• Select <b>CAS</b> from the drop down				
	<ul> <li>Use default settings for remainir</li> </ul>		• •		
	on Avaya Communication Mana	0		,5 materi tilose	
	5	C			
	• To save the changes, right-click <b>CM-C</b>				
	• Right-click on <b>CM-CAS</b> to add			uration, the	
	objects shown in the configuration		ded.		
	• The resultant provisioning is shown below	ow.			
	ClientView Version 10.3.3.174 - CM-CAS (USER - [admin] ROLE - [Monitor / File Edit View Communications Tools Help	Provision / Configure])		_ 7	
	Object Name: CM-CAS				
	State: Configured  P Tal Configuration DevConnect	CM-CAS Property	As-Configured	User-Specified	
	စု 🛍 Cantata IMG EMS	Variant Name	CM-CAS CAS	CM-CAS CAS	
	Image: Contract of the second sec	Variant Type Base Variant	T1 Signaling	T1 Signaling	
	🕈 🋍 Signaling Variants	Variant Id Trunk Type	1 E + M	1 E + M	
	CM-CAS     Inpulsing Parameters Stage 1	In Start Dial Out Start Dial	Wink Start Wink Start	Wink Start Wink Start	
	🛍 Digit Mapping Called Party Number 📩	Address Signaling Type	DTMF	DTMF	
	Inseize Instruction: Generate Inseize Acknowledgement Inseize Instruction: Receive Stage N Address	Outbound Multi-String Busy Out Flag	Disabled Busy Out Disabled(Default)	Disabled Busy Out Disabled(Default)	
	🛍 Inseize Instruction: Report Incoming Call with Address Data				
	<ul> <li>Outseize Instruction: Outpulse Stage N Address Info</li> <li>Outseize Instruction: Send Host Acknowledgement</li> </ul>				
	C 1 External Network Elements C 1 Routing Configuration				
		Create Tree Query All	Tags Validation Repo_	Help Save Variant Ta.	
			Status System Status		
		Stage N # of Dig Addr Stage 1 1 DTM	ess Time O Collectio Da 10000 Fixed N 3	ata: DiCollectioData: N Not Used Not Used	
	Client / Server Monitor				
	Bytes to Process STATUS: DataModel State: Synced   GateManager State: Ready   Com	 ImManager State: Ready	License verified for N	ode(Name= <avaya-img>,</avaya-img>	
	Contraction of the state of the	anager stater neady	, creative refinea for N	and straya and s	



Step	Description			
5.1.22	Create an object for External Network Elements	s as follows:		
	• Right-click Cantata IMG EMS in the C	Configuration Tree	and select N	ew External
	Network Elements.			
	• To save the changes, right-click <b>Extern</b>	al Network Eleme	ents and sele	ct Commit.
	• The resultant provisioning is shown belo			
	ClientView Version 10.3.3.174 - External Network Elements (USER - [admin	] ROLE - [Monitor / Provision /	Configure])	
	File Edit View Communications Tools Help			
	Diject Name: External Network Elements	( <u> </u>		
	State: Configured  9 1 Configuration DevConnect	External Network Elements Property As-	-Configured	User-Specified
	P 🛍 Cantata IMG EMS	inoperty jas.	-configured	Joser-Specified
	● 値 Logical IMG Avaya-IMG ● 値 Profiles			
	<ul> <li>➡ Signaling Variants</li> <li>➡ External Network Elements</li> </ul>			
	Configuration			
		Create Tree Query	All Tags Validation	Report Help
		Object Table Object Stat	us System Status	Socket Activity
		No Data Available		
	Client / Server Monitor			
	Bytes to Process ( STATUS: DataModel State: Synced   GateManager State: Ready   Con	 nmManager State: Ready	License verified for M	lode(Name= <avaya-img>,</avaya-img>



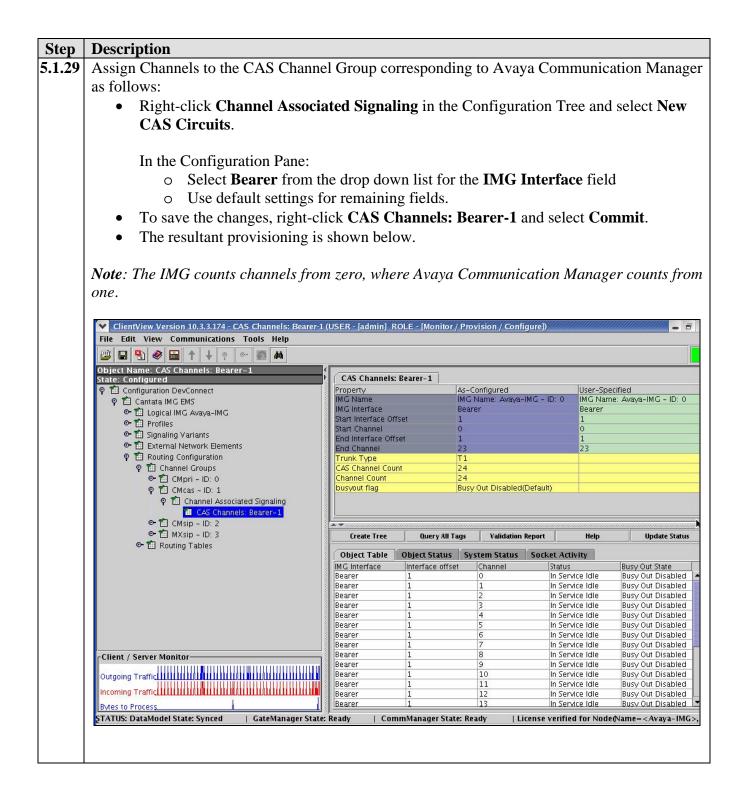
Descr	ription					
Configure an External Gateway corresponding to Avaya Meeting Exchange as follows:						
• Right-click External Gateways in the Configuration Tree and select New External						
Gateway.						
Gauway.						
In the Configuration Dance						
In the Configuration Pane:						
<ul> <li>Enter a descriptive name for the IP Bearer Profile in the Name field.</li> <li>Select SIP from the drop down list for the Gateway Signaling Protocol field.</li> </ul>						
	• Enter the IP a	ddress of Avaya Meeti	ng Exchange in th	e Gateway IP Addres		
field.						
	• Use default se	ettings for remaining fi	elds.			
	Note:	The settings for the Ga	teway Transport	Type and Gateway		
		<b>te Port</b> fields are comp		• -		
		ng Exchange (see Step		giguranon on maya		
		• • •	,			
•	•	right-click MX and sel	ect Commit.			
•	The resultant provision	oning is shown below.				
and the second s	rsdell:1 (excelsw)					
	🎯 🧟 🕂 Az 🚺 🚱 📆			192.168.11.112:1		
-	ntView Version 10.3.3.174 - MX (USER - lit View Communications Tools H		Configure)			
	😫 🍭 🛅 🕇 🕂 o 💀 🗿 🌢					
	ame: MX	4				
State: C	onfigured		1	luss essentia		
100 Contractor	onfiguration DevConnect ] Cantata IMG EMS	Property Name	As-Configured	User-Specified MX		
	• 🛍 Logical IMG Avaya-IMG • 🛍 Profiles	Gateway Signaling Protocol Gateway Address Type	SIP Gateway IP Address	SIP Gateway IP Address		
28	- 🛗 Fromes - 🛍 Signaling Variants	Gateway IP Address Gateway Mask	0d:192.168.13.101 0d:255.255.255.255	0d:192.168.13.101 0d:255.255.255.255		
Ŷ	External Network Elements	Gateway Host Name (ex. img1010.	Not Used	Not Used		
	♀ 11 External Gateways 11 CM	Gateway Transport Type Gateway Remote Port	TCP 5060	TCP 5060		
	MX	Gateway Registration Required	No	No		
o	- 📶 Routing Configuration	Registration Expiration Interval (sec) SIP Profile	3600 Default Profile	3600 Default Profile		
		OPTIONS Keep Alive Trusted	Disable Yes	Disable Yes		
		Privacy	Off	Off		
				*		
			Query All Tags Validat	tion Report Help		
		Object Table Object Status	System Status Socket Activi	ity		
		Object Table         Object Status           Name         Gate         Gate         Gate           CM         SIP         Gate         Od: 1         Od: 2	System Status Socket Activi e Gate Gate Gate Gate 2 Not U TCP 5060 No	ity aRegis5IP PrOPTI Trusted Priva 3600 Defa Disable Yes Off		
		Object Table Object Status Name Gate Gate Gate Gate	System Status Socket Activi e Gate Gate Gate Gate 2 Not U TCP 5060 No	ity 2 Regis 5IP Pr OPTI Trusted Priva		
	' Server Monitor	Object Table         Object Status           Name         Gate         Gate         Gat           CM         SIP         Gate         Od: 1         Od: 1           MX         SIP         Gate         Od: 1         Od: 1	System Status Socket Activi e Gate Gate Gate Gate 2 Not U TCP 5060 No	ity aRegis5IP PrOPTITrusted Priva 3600 DefaDisable Yes Off		
Outgoing	Traffid. III. III. III. III. III. III. III. I	Object Table Object Status Name Gate Gate Gate Gat M SIP Gate Od: 1 Od: MX SIP Gate Od: 1 Od:	System Status Socket Activi e Gate Gate Gate Gate 2 Not U TCP 5060 No	ity aRegis5IP PrOPTITrusted Priva 3600 DefaDisable Yes Off		
Outgoing		Object Table Object Status Name Gate Gate Gate Gat M SIP Gate Od: 1 Od: MX SIP Gate Od: 1 Od:	System Status Socket Activi e Gate Gate Gate Gate 2 Not U TCP 5060 No	ity aRegis5IP PrOPTITrusted Priva 3600 DefaDisable Yes Off		
Outgoing Incoming Bytes to	) Traffi <b>d. III. III. III. III. III. III. III. I</b>	Object Table     Object Status       Name     Gate     Gate       CM     SIP     Gate       MX     SIP     Gate	System Status Socket Activi a Gate Gate Gate Gate 2 Not U TCP 5060 No 2 Not U TCP 5060 No	ity a Regis 5IP Pr OPTI Trusted Priva 3600 Defa Disable Yes Off 3600 Defa Disable Yes Off		
Outgoing Incoming Bytes to	) Traffi <b>d. III. III. III. III. III. III. III. I</b>	Object Table Object Status Name Gate Gate Gat CM SIP Gate Od: 1 Od: MX SIP Gate Od: 1 Od;	System Status Socket Activi a Gate Gate Gate Gate 2 Not U TCP 5060 No 2 Not U TCP 5060 No	ity aRegis5IP PrOPTI Trusted Priva 3600 Defa Disable Yes Off		

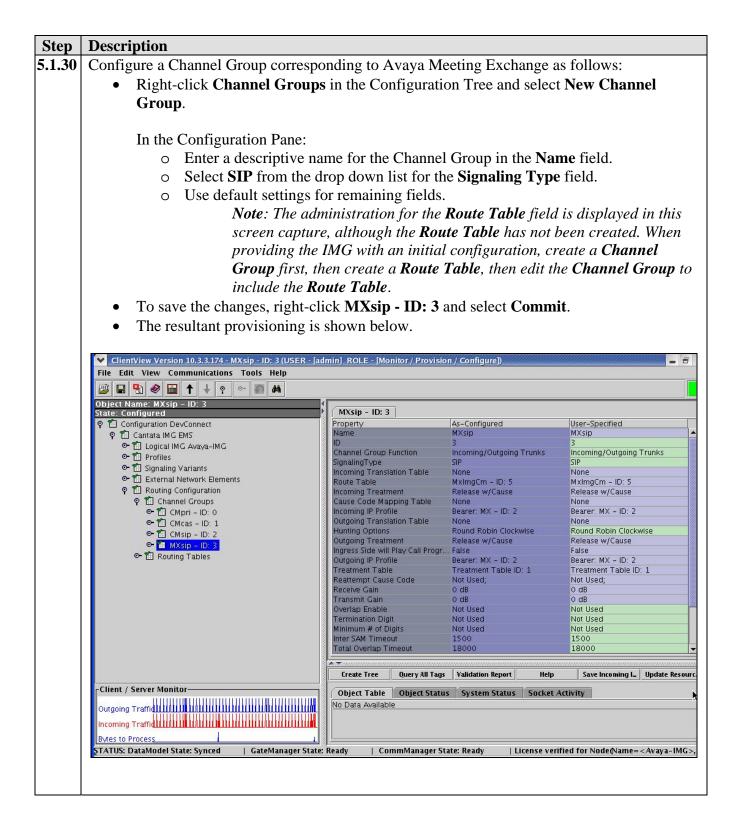
Step	Description				
5.1.25	Create an object for Routing Co	onfiguration as follows:			
	<ul> <li>Right-click Cantata IMG EMS in the Configuration Tree and select New Routing</li> </ul>				
	Configuration.				
	• To save the changes, right-click <b>Routing Configuration</b> and select <b>Commit</b> .				
	<ul> <li>The resultant provisioning is shown below.</li> </ul>				
	ine resultant provisionin				
	ClientView Version 10.3.3.174 - Routing Configu	rration (USER - [admin] ROLE - [Monitor / Provision / Configure])			
	File Edit View Communications Tools Help				
	🖉 🖬 😫 🏈 🖬 🕇 🕂 🤋 🗠 🌌 🛤				
	Object Name: Routing Configuration State: Configured	Routing Configuration			
	P      Configuration DevConnect     P      Contata IMG EMS	Property As-Configured User-Specified			
	ଙ 🛍 Logical IMG Avaya-IMG				
	<ul> <li>Image: Profiles</li> <li>Image: Signaling Variants</li> </ul>				
	🗢 🛍 External Network Elements	<b>h</b>			
	Routing Configuration				
		د ج Create Tree Query All _ Validation _ Help Download _ Resource _ Incoming _ GW ID Table Verify Rou_			
		Object Table Object Status System Status Socket Activity			
		No Data Available			
	Client / Server Monitor				
	Outgoing Traffide III IIII III III III III III IIII II				
	Incoming Traffic III IIII IIII IIII IIII IIII IIII I				
	Bytes to Process				
	STATUS: DataModel State: Synced   GateManag	er State: Ready   CommManager State: Ready   License verified for Node(Name= <avaya-img>,</avaya-img>			

Step	Description						
5.1.26	Create an object for Channel G	roups as fo	ollows:				
	• Right-click <b>Routing Co</b>	• Right-click <b>Routing Configuration</b> in the Configuration Tree and select <b>New Channel</b>					
	Groups.						
	-	ht-click C	hannel G	roups and	select Co	ommit	
	<ul> <li>To save the changes, right-click Channel Groups and select Commit.</li> <li>The resultant provisioning is shown below.</li> </ul>						
		115 15 5110 1					
	ClientView Version 10.3.3.174 - Channel Groups	(USER - [admin	ROLE - [Monito	r / Provision / Cor	nfigure])		_ =
	File Edit View Communications Tools Help						
	🔛 🖶 🔮 🐼 🖬 🕇 🕇 🕈 🗠 🚳 🛤						
	Object Name: Channel Groups State: Configured	Channel Grou	ps				
	🕈 🛍 Configuration DevConnect	Property	5.5.J	As-Configured		User-Specified	
	♀ <sup>1</sup>						
	<ul> <li>● 11 Profiles</li> <li>● 11 Signaling Variants</li> </ul>						
	<ul> <li>In Signaling variants</li> <li>In External Network Elements</li> </ul>						
	Routing Configuration     Configuration     Mannel Groups			►.			
	• 1 Channel Groups • 1 Routing Tables						
		▲ ▼					
		Create Tree	Query A	ll Tags Valid	lation Report	Help	MRTG Scripts
		Object Table	Object Status		Socket Activit		
			ame Signal Mpri ISDN	ingType Incoming C 0	Incoming A	Outgoing C Outgoing 0 0	A Average Ho 0
		1 C	Micas CAS	0	0	0 0	0
	Client / Server Monitor		Msip SIP Xsip SIP	0	0	0 0	0
	Outgoing Traffic	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
	Incoming Traffic						
	Bytes to Process						
	STATUS: DataModel State: Synced   GateManag	jer State: Ready	CommMar	ager State: Ready	License	verified for Node(Name	e= <avaya-img>,</avaya-img>

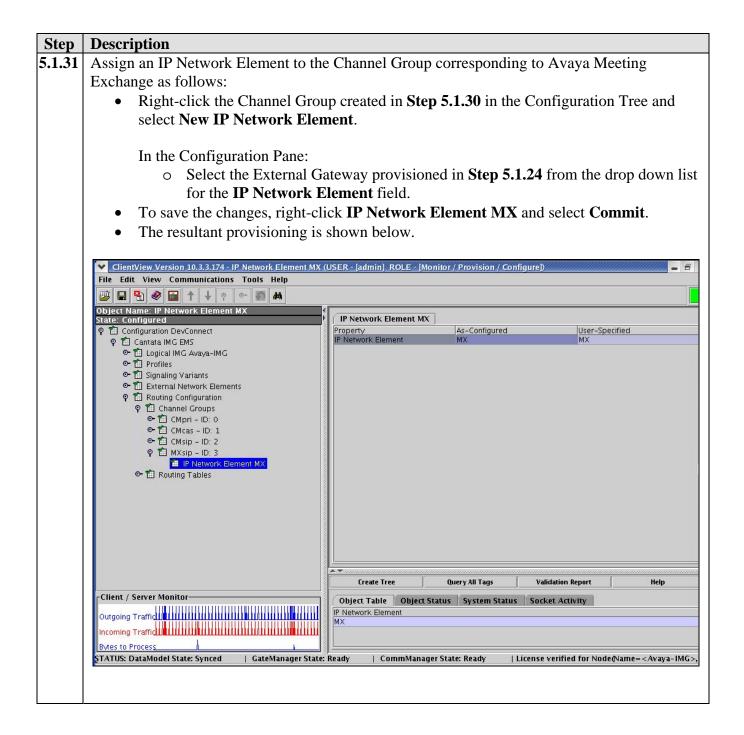
.1.27	Description						
	•	ponding to Avaya Co	mmunication Ma	nager as follows:			
	• Right-click Channel Groups in the Configuration Tree and select New Channel						
	Group.						
	•						
	In the Configuration Pane:						
	• Enter a descriptive name for the Channel Group in the <b>Name</b> field.						
	-	ne drop down list for t	-				
		s for remaining fields.					
	-	dministration for the	Route Table field	is displayed in this			
		ure, although the <b>Rou</b>	v	1 +			
	1	ie IMG with an initial					
		then create a <b>Route</b> 2					
	- •		<b>adie</b> , inen ean in	le Channel Group 10			
		Route Table.		• /			
	• To save the changes, right-		and select Comm	it.			
	• The resultant provisioning	is shown below.					
	ClientView Version 10.3.3.174 - CMcas - ID: 1 (USER	- [admin] ROLE - [Monitor / Provisio	n / Configure])				
	File Edit View Communications Tools Help						
	Image:	4					
	State: Configured	CMcas - ID: 1 Property	As-Configured	User-Specified			
	P 1 Contiguration Development P 1 Cantata IMG EMS	Name	CMcas	CMcas			
	Image: Second Secon	ID Channel Group Function	1 Incoming/Outgoing Trunks	1 Incoming (Outgoing Trunks			
				Incoming/Outgoing Trunks			
	👁 🛍 Signaling Variants	SignalingType	CAS	CAS			
	🗢 🛍 External Network Elements	SignalingType Incoming Translation Table Route Table	CAS None MxImgCm - ID: 5	CAS None MxImgCm - ID: 5			
	<ul> <li>The External Network Elements</li> <li>The Routing Configuration</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Treatment	CAS None MxImgCm - ID: 5 Release w/Cause	CAS None MxImgCm - ID: 5 Release w/Cause			
	<ul> <li>● 11 External Network Elements</li> <li>● 11 Routing Configuration</li> <li>● 11 Channel Groups</li> <li>● 11 CMpri – ID: 0</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile	CAS None MxImgCm - ID: 5 Release w/Cause None None Not Used	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used			
	<ul> <li>● 1 External Network Elements</li> <li>● 1 Routing Configuration</li> <li>● 1 Channel Groups</li> <li>● 1 Channel Groups</li> <li>● 1 Channel Groups</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table	CAS None MxImgCm – ID: 5 Release w/Cause None Not Used None	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None			
	<ul> <li>♥ 1 External Network Elements</li> <li>♥ 1 Routing Configuration</li> <li>♥ 1 Channel Groups</li> <li>♥ 1 Chapri - ID: 0</li> <li>♥ 1 CMpri - ID: 1</li> <li>♥ 1 CMsip - ID: 2</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause			
	<ul> <li>● 1 External Network Elements</li> <li>● 1 Routing Configuration</li> <li>● 1 Channel Groups</li> <li>● 1 Channel Groups</li> <li>● 1 Channel Groups</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used;	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used;			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table	CAS None MxImgCm - ID: 5 Release w/Cause None None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1	CAS None MxImgCm - ID: 5 Release w/Cause None None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable	CAS None MxImgCm - ID: 5 Release w/Cause None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; 0 dB Not Used Not Used	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; O dB Not Used			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr. Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit	CAS None MxImgCm - ID: 5 Release w/Cause None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB Not Used Not Used	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; O dB O dB Not Used			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB Not Used Not Used Not Used Not Used Not Used	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; 0 dB 0 dB 0 dB Not Used Not Used Not Used Not Used			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr. Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit	CAS None MxImgCm - ID: 5 Release w/Cause None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB Not Used Not Used	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; O dB O dB Not Used Not Used Not Used			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout	CAS None MxImgCm - ID: 5 Release w/Cause None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; 0 dB 0 dB Not Used Not Used Not Used Not Used Not Used Not Used 1500 18000	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; O dB Not Used Not Us			
	<ul> <li>External Network Elements</li> <li>Routing Configuration</li> <li>Routing Configuration</li> <li>Channel Groups</li> <li>CMpri - ID: 0</li> <li>CMpri - ID: 1</li> <li>CM CMass - ID: 1</li> <li>CM Sip - ID: 2</li> <li>CM Xsip - ID: 3</li> <li>CM Routing Tables</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Translation Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB 0 dB Not Used Not Used 1500 18000	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB Not Used Not Used Not Used 1500 18000  Save Incoming L Update Resource			
	<ul> <li>              € External Network Elements          </li> <li>             Routing Configuration         </li> <li>             P              Channel Groups          </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> </ul> <li> </li> <li>             Charnel Groups         </li> <li>             Charnel Groups         </li> <li></li>	SignalingType Incoming Translation Table Route Table Incoming Translation Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB 0 dB Not Used Not Used 1500 18000	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB Not Used Not Used Not Used 1500 18000  Save Incoming L Update Resource			
	<ul> <li>External Network Elements</li> <li>Routing Configuration</li> <li>Routing Configuration</li> <li>Channel Groups</li> <li>CMpri - ID: 0</li> <li>CMpri - ID: 1</li> <li>CM CMass - ID: 1</li> <li>CM Sip - ID: 2</li> <li>CM Xsip - ID: 3</li> <li>CM Routing Tables</li> </ul>	SignalingType Incoming Translation Table Route Table Incoming Translation Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB 0 dB Not Used Not Used 1500 18000	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB Not Used Not Used Not Used 1500 18000  Save Incoming L Update Resource			
	Client / Server Monitor	SignalingType Incoming Translation Table Route Table Incoming Translation Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used 0 dB 0 dB 0 dB Not Used Not Used 1500 18000	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB Not Used Not Used I500 18000  Save Incoming L Update Resource			
	Client / Server Monitor	SignalingType Incoming Translation Table Route Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Translation Table Hunting Options Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB O dB Not Used Not Used 1500 18000	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; O dB O dB O dB Not Used Not Used Not Used Not Used Save Incoming L Update Resourc Activity			
	Client / Server Monitor Outgoing Traffic	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout Object Table Object Status No Data Available	CAS None MxImgCm – ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB Not Used Not Used Not Used Not Used Not Used Not Used Soo 18000 Validation Report Help S System Status Socket /	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Not Used Not Used; O dB O dB O dB O dB O dB O dB Not Used Not Used Not Used Not Used Not Used Save Incoming L Update Resourc Activity			
	Client / Server Monitor Outgoing Traffic	SignalingType Incoming Translation Table Route Table Incoming Treatment Cause Code Mapping Table Incoming IP Profile Outgoing Treatment Ingress Side will Play Call Progr Outgoing IP Profile Treatment Table Reattempt Cause Code Receive Gain Transmit Gain Overlap Enable Termination Digit Minimum # of Digits Inter SAM Timeout Total Overlap Timeout Object Table Object Status No Data Available	CAS None MxImgCm – ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used O dB O dB O dB Not Used Not Used Not Used Not Used Not Used Not Used Soo 18000 Validation Report Help S System Status Socket /	CAS None MxImgCm - ID: 5 Release w/Cause None Not Used None Round Robin Clockwise Release w/Cause False Not Used Treatment Table ID: 1 Not Used; O dB O dB O dB O dB Not Used Not Used Not Used Save Incoming L Update Resourc Activity			

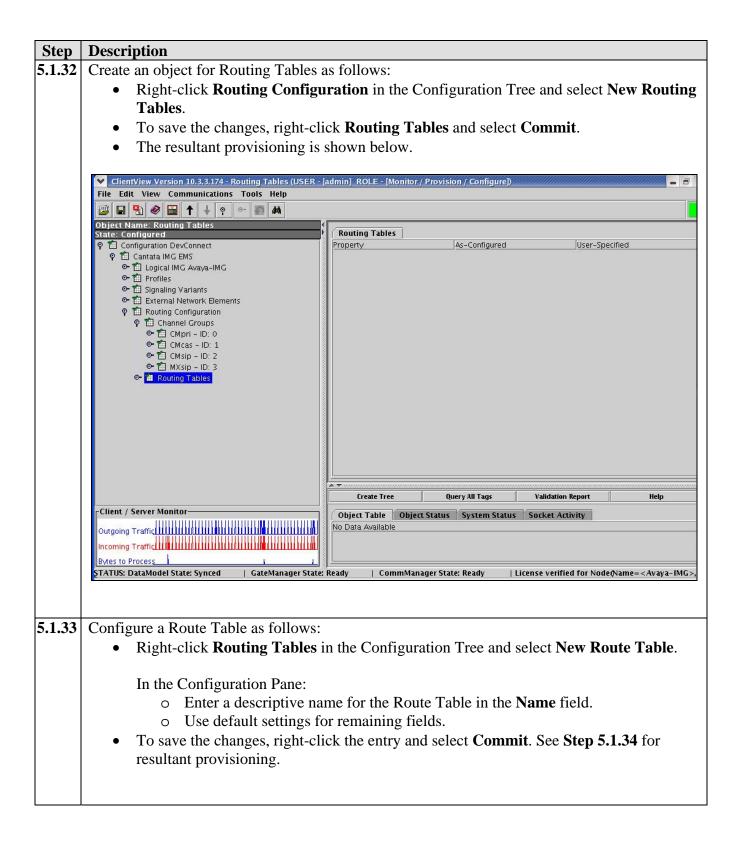
Step	Description			
5.1.28	Create an object for Channel Associa	ited Signaling as follows:		
	• Right-click the Channel Grou	p created in <b>Step 5.1.27</b> in the Configuration Tree and		
	select New Channel Associa	ted Signaling.		
		sioned in <b>Step 5.1.20</b> from the drop down list for the <b>CAS</b>		
	<ul> <li>Variant field.</li> <li>To save the changes, right-click Channel Associated Signaling and select Commit.</li> </ul>			
	• The resultant provisioning is	6 6		
	The resultant provisioning is			
	✓ ClientView Version 10.3.3.174 - Channel Associated Sign	aling (USER - [admin] ROLE - [Monitor / Provision / Configure])		
	File Edit View Communications Tools Help			
	Object Name: Channel Associated Signaling State: Configured	Channel Associated Signaling		
	P 1     Configuration DevConnect     P 1     Cantata IMG EMS	Property         As-Configured         User-Specified           CAS Variant         CM-CAS         CM-CAS		
	ି 🗢 🖆 Logical IMG Avaya-IMG			
	<ul> <li>Image: Profiles</li> <li>Image: Image: Profiles</li> <li>Image: Image: Profiles</li> <li>Image: Image: Profiles</li> <li>Image: Pro</li></ul>			
	👁 🛍 External Network Elements			
	ዋ 🛅 Routing Configuration ዋ 🛍 Channel Groups			
	◎ 1 CMpri – ID: 0 ♀ 1 CMcas – ID: 1			
	💡 📶 Channel Associated Signaling	h		
	CAS Channels: Bearer-1			
	👁 🛍 MXsip - ID: 3			
	ତ୍ୟ 🛍 Routing Tables			
		Create Tree Query All Tags Validation Report Help		
	Client / Server Monitor	Object Table Object Status System Status Socket Activity		
	Outgoing Traffic	No Data Available		
	Bytes to Process 1 STATUS: DataModel State: Synced   GateManager State:			
	<u></u>			





REB; Reviewed: SPOC 2/5/2008





Step	Description					
5.1.34	Add route entries to the Route Table provisioned in <b>Step 5.1.33</b> as follows:					
	• To add a route entry corresponding to Avaya Communication Manager, right-click the					
	Route Table in the Configuration Tree and select Add Route Entry.					
	• Enter a pattern to match extensions on Avaya Communication Manager, where					
	& is a wildcard, in the Router String field in the New Entry dialog box.					
	• Select the Channel Group provisioned in Step 5.1.27 from the drop down list					
	for the <b>Outgoing Channel Group</b> field.					
	<i>Note</i> : This is displayed below under the <b>Route Action List</b> column.					
	• Click <b>OK</b> in the <b>New Entry</b> dialog box.					
	• To add a route entry corresponding to Avaya Meeting Exchange, right-click the Route					
	Table in the Configuration Tree and select Add Route Entry.					
	• Enter a pattern to match the provisioning for call branding on Avaya Meeting					
	Exchange, where & is a wildcard, in the Router String field in the New Entry					
	dialog box.					
	• Select the Channel Group provisioned in <b>Step 5.1.30</b> from the drop down list					
	for the <b>Outgoing Channel Group</b> field.					
	<b>Note</b> : This is displayed below under the <b>Route Action List</b> column.					
	• Click <b>OK</b> in the <b>New Entry</b> dialog box.					
	• The resultant provisioning is shown below.					
	ClientView Version 10.3.3.174 - MxImgCm - ID: 5 (USER - [admin] ROLE - [Monitor / Provision / Configure])					
	File Edit View Communications Tools Help					
	Object Name: MxImgCm - ID: 5 State: Configured MxImgCm - ID: 5					
	Configuration DevConnect     Property     As-Configured     User-Specified					
	Contracting C					
	Contraction of a provine state of the s					
	©  ☐ External Network Element ♀  ☐ Routing Configuration					
	우 웹 Channel Groups 아랍 CMpri - ID: 0					
	● TII CMcas - ID: 1 ● TII CMsip - ID: 2					
	🗢 🖆 MXsip - ID: 3 P 🖆 Routing Tables Create Tree Query All Tags Validation Rep. Help Save Route Ta. Delete All Rou. Import From C. Export To CSV					
	MxImgCm - ID: 5 Object Table Object Status System Status Socket Activity					
	Object Table         Object Table         Object Status         Socket Activity           Entry ID         EnableRoute Crite         Router String         In Channel         Match ING         Criteria Val         Route Action List           0         True         Dialed Nu         34         Not Used         Not Used         Channel Group         CMcas - ID: 1           1         True         Dialed Nu         54         Not Used         Not Used         Channel Group         MXsip - ID: 3					
	Entry ID Enable Route Crite Router String In Channel Match IMG Criteria Val Route Action Type Route Action List O True Dialed Nu 3& Not Used Not Used Not Used Channel Group CMcas - ID: 1					
	Entry ID Enable Route Crite Router String In Channel Match IMG Criteria Val Route Action Type Route Action List O True Dialed Nu 3& Not Used Not Used Not Used Channel Group CMcas - ID: 1					
	Entry ID Enable Route Crite Router String In Channel Match IMG Criteria Val Route Action Type Route Action List O True Dialed Nu 3& Not Used Not Used Not Used Channel Group CMcas - ID: 1					
	Entry ID EnableRoute Crite Router String In Channel Match IMG Criteria Val Route Action Type Route Action List O True Dialed Nu 3& Not Used Not Used Not Used Channel Group CMcas - ID: 1 1 True Dialed Nu 5& Not Used Not Used Channel Group MXsip - ID: 3					
	Entry ID Enable Route Crite Router String In Channel Match IMG Criteria Val Route Action Type Route Action List O True Dialed Nu 3& Not Used Not Used Not Used Channel Group CMcas - ID: 1					
	Entry ID EnableRoute Crite Router String In Channel Match IMG Criteria Val Route Action List O True Dialed Nu 3& Not Used Not Used Not Used Channel Group CMcas - ID: 1 1 True Dialed Nu 5& Not Used Not Used Channel Group MXsip - ID: 3					
	Intry ID EnableRoute Crite Router String. In Channel Match IMG Criteria Val Route Action List     O True Dialed Nu 3& Not Used Not Used Channel Group CMcas - ID: 1     True Dialed Nu 5& Not Used Not Used Channel Group MXsip - ID: 3      Client / Server Monitor  Outgoing Traffid A an					
	Client / Server Monitor Outgoing Traffuture of Traces					
	Image: State: Synced       GateManager State: Ready       CommManager State: Ready       License verified for Node(\ame= <avaya-img>&gt; v</avaya-img>					

## 6. Interoperability Compliance Testing

#### 6.1. General Test Approach

The general test approach was to place calls between Avaya Communication Manager and Avaya Meeting Exchange via the IMG, utilizing the sample configuration displayed in **Figure 1**. The main objectives were to verify the following:

- Inbound calling from Avaya Communication Manager to scheduled and demand conferences provisioned on Avaya Meeting Exchange via the Cantata IMG 1010:
  - DNIS direct call branding (<u>without</u> participant-access-code)
  - SCAN call branding (<u>with participant-access-code</u>)
- Outbound calling from Avaya Meeting Exchange to telephones registered to either Avaya Communication Manager or Avaya SIP Enablement Services via the Cantata IMG 1010:
  - o Auto/manual blast dial
  - Originator dial-out
  - Operator fast dial
- The following feature testing was executed:
  - Operator dial-out (Audio Path)
  - Operator dial-in (Audio Path)
  - Dial-out to a Flexible Digital Auxiliary Port Interface (FDAPI) channel for audio recording
  - Line Transfer initiated from Avaya Bridge Talk
  - Conference Transfer initiated from Avaya Bridge Talk
  - Moderator/participant conferencing features provided by Avaya Meeting Exchange
- The following sub-set of the SIPPING-19 supplementary features was verified:
  - Call hold
  - o Attended/unattended call transfer
  - Call forward
  - Three-way conference
- The following transport methods for signaling were tested between Avaya Meeting Exchange and the Cantata IMG 1010:
  - o TCP
  - o UDP
- The following transport methods for signaling/media were tested between Avaya Communication Manager and the Cantata IMG 1010:
  - o T1 CAS (Robbed-Bit)
- The following CODECS were tested:
  - o G711MU
- Voice quality was subjectively verified using endpoints participating in a Conference.
- DTMF transmission was verified.

#### 6.2. Test Results

All test cases, as defined by the general test approach, passed.

REB; Reviewed:	Solution & Interoperability Test Lab Application Notes	56 of 60
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# 7. Verification Steps

The following steps were used to verify the administrative steps presented in these Application Notes and are applicable for similar configurations in the field.

Step	Description	n			
7.1.1	Verify CAS	connectivity between Avaya Communication Manager and the IMG by retrievir	ng		
	status regar	ding the trunk group provisioned in <b>Step 3.2.2</b> . From a SAT session:			
	• Issu	e the command "status trunk <n>", where n is the number of the trunk group to</n>			
	verit				
		ify that all members in the trunk group are <b>in-service/idle</b> .			
	v ven	ity that an memoers in the trank group are <b>m-set vice/fuic</b> .			
7.1.2	Validate sig	gnaling and media connectivity for inbound calls to Avaya Meeting Exchange fro	m		
	U	munication Manager via the IMG. This is accomplished by verifying that the tru			
	•	l in <b>Step 3.2.2</b> is utilized when a call from a phone registered to either Avaya			
	-				
		ation Manager, or Avaya SIP Enablement Services dials in to a conference			
	provisioned on Avaya Meeting Exchange. From a SAT session:				
	• Issu	• Issue the command "list trace tac <n>", where n is the TAC defined for the trunk</n>			
	group.				
	Fror	m a telephone registered to either Avaya Communication Manager, or Avaya SIP			
	Enal	blement Services dial 502 to enter the conference provisioned in Section 4.4 as			
		blement Services, dial <b>502</b> to enter the conference provisioned in <b>Section 4.4</b> as			
	mod	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> .			
	mod Note: The the provisioned repeated to				
	mod <i>Note</i> : The th provisioned repeated to Exchange to	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting o Avaya Communication Manager via the IMG.			
	mod Note: The the provisioned repeated to	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting o Avaya Communication Manager via the IMG.			
	mod <i>Note</i> : The th provisioned repeated to Exchange to	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting o Avaya Communication Manager via the IMG.			
	mod <i>Note</i> : The th provisioned repeated to Exchange to	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG. Page 1			
	mod Note: The the provisioned repeated to Exchange to list trace	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG. Tac 107 Page 1 LIST TRACE			
	mod Note: The the provisioned repeated to Exchange to list trace time 14:33:09 14:33:09	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG. Tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number & Name 33006 H.323 33006 V			
	mod Note: The the provisioned repeated to Exchange to list trace time 14:33:09 14:33:09 14:33:09	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG. tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number & Name 33006 H.323 33006 V dial 502 route:AAR			
	mod Note: The tr provisioned repeated to Exchange to list trace time 14:33:09 14:33:09 14:33:09 14:33:09	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG. Tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number & Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330			
	mod Note: The triprovisioned repeated to Exchange to list trace time 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09	lerator via the call branding for a direct call flow provisioned in <b>Step 4.3.2</b> . race below shows a station ( <b>33006</b> ) that dialed ( <b>502</b> ) and utilized the call routing l in <b>Section 3.3</b> to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG. Tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number & Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330 dial 502 route:AAR			
	mod <i>Note: The triprovisioned</i> <i>repeated to</i> <i>Exchange to</i> list trace time 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09	<pre>lerator via the call branding for a direct call flow provisioned in Step 4.3.2. race below shows a station (33006) that dialed (502) and utilized the call routing in Section 3.3 to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting o Avaya Communication Manager via the IMG. tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number &amp; Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330 dial 502 route:AAR route-pattern 7 preference 1 cid 0x330</pre>			
	mod Note: The tr provisioned repeated to Exchange to list trace time 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09	<pre>lerator via the call branding for a direct call flow provisioned in Step 4.3.2. race below shows a station (33006) that dialed (502) and utilized the call routing in Section 3.3 to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG.  tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number &amp; Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330 dial 502 route:AAR route-pattern 7 preference 1 cid 0x330 seize trunk-group 7 member 8 cid 0x330</pre>			
	mod Note: The tr provisioned repeated to Exchange to list trace time 14:33:09	<pre>lerator via the call branding for a direct call flow provisioned in Step 4.3.2. race below shows a station (33006) that dialed (502) and utilized the call routing l in Section 3.3 to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number &amp; Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330 dial 502 route:AAR route-pattern 7 preference 1 cid 0x330 seize trunk-group 7 member 8 cid 0x330 dial 502 route:AAR</pre>			
	mod Note: The tr provisioned repeated to Exchange to list trace time 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09	<pre>lerator via the call branding for a direct call flow provisioned in Step 4.3.2. race below shows a station (33006) that dialed (502) and utilized the call routing lin Section 3.3 to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting to Avaya Communication Manager via the IMG.  tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number &amp; Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330 dial 502 route:AAR route-pattern 7 preference 1 cid 0x330 dial 502 route:AAR outpulse done 502</pre>			
	mod Note: The tr provisioned repeated to Exchange to list trace time 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:09 14:33:12	<pre>lerator via the call branding for a direct call flow provisioned in Step 4.3.2. race below shows a station (33006) that dialed (502) and utilized the call routing l in Section 3.3 to route the call to Avaya Meeting Exchange. This step may be verify signaling and media connectivity for outbound calls from Avaya Meeting tac 107 Page 1 LIST TRACE data Calling party station 33006 cid 0x330 Calling Number &amp; Name 33006 H.323 33006 V dial 502 route:AAR term trunk-group 7 cid 0x330 dial 502 route:AAR route-pattern 7 preference 1 cid 0x330 seize trunk-group 7 member 8 cid 0x330 dial 502 route:AAR</pre>			

Step	Description				
7.1.3	<b>A</b>	rom Avaya Meeting Exchange are managed	l correctly e.g.		
	-				
	participants are added/removed from conferences. This is accomplished by utilizing the Avaya Bridge Talk application				
	Bridge Talk application.				
	From a telephone	registered to either Avaya Communication	n Manager, or Avaya SIP		
	Enablement Serv	ices, dial 502 to enter a conference as Mod	erator (without passcode)		
	Enablement Services, dial <b>502</b> to enter a conference as <b>Moderator</b> (without pa while simultaneously invoking the associated auto blast dial feature for this cor				
	(see <b>Step 4.4.2</b> ).	usiy myoking the associated auto blast dia	feature for this conference		
	· • •				
		ged on, log in to the Avaya Bridge Talk ap	plication with the		
	appropriate crede	ntials.			
	• From the Confer	ence Navigator, double-click the appropriat	e entry to open the		
	corresponding Co	• • • • •	· ····· · · · · · · · · · · · · · · ·		
			c 1 1 : (1		
	-	e participants are added/removed from con	terences by observing the		
	Conference Navi	gator and/or Conference Room windows.			
	🌉 Avaya Bridge Talk - 192.168.13.101 0	perator 1 - 8/16/07 9:40:43 PM			
	<u> Eile View Line Conference Fast Dial Tools</u>	<u> W</u> indow <u>H</u> elp			
	Main				
		🕨 📝 🚺 🍘 🔊 🖁 📲 🕲 🗐 🏆 👘			
	Access Conference Display Enter Fastdial help re	Quests Line Music Options Purge Set Transfer retrieVe Update ? Help			
	C Conf Name TP Conf ID C	🏝 Help Requests 📃 🔀			
	1 DNIS Direct 5 00000000002 00  2 0	🚨 Enter Queue			
	3 0	Line Pending Queue			
	4 0	Line Name Progr Company Phone Caller II			
	6 0				
	7 0				
	9 0				
	10 0	# Room=1, Prompt Set=English, DNIS Direct, TP=5			
	11 0 12 0	Clear all V Entry Tone V Exit Tone Gain Hang up Lecture Look V Sec/			
	13 0	Line Name Conf Company Phone Caller ID PIN	Network Current Base QA		
	14 0 15 0	* 15IP_31002 C1 31002	VOIP Normal Normal		
	16 0	* 2 Digital_32002 C1 32002 * 3 H.323_33002 C1 33002	VOIP Normal Normal VOIP Normal Normal		
	17 0 18 0	4 Analog_34002 C1 34002	VOIP Normal Normal		
	19 0	26 502 C1 33006	VOIP Moderator Moderator		
	20 0				
	21 0 22 0				
	23 0				
	<				
	0 : Rec/Play Channel 1 Availabl				
	0 : Rec/Play Channel 1 Unavaila				
		<	5		
	< >				
	AVL-287 DC-0 ENT-0 FLT-0 HLP-0	OPR - TLK - off ACCESSED LINE -			

## 8. Conclusion

These Application Notes present a compliance-tested solution comprised of Avaya Communication Manager, the Avaya Meeting Exchange S6200 Conferencing Server and the Cantata Technology Integrated Media Gateway 1010. This solution enables connectivity between Avaya Communication Manager and the Avaya Meeting Exchange S6200 Conferencing Server via the Cantata Technology Integrated Media Gateway 1010 utilizing standards based SIP and CAS connectivity.

### 9. Additional References

Avaya references are available at http://support.avaya.com.

- [1] Administrator Guide for Avaya Communication Manager, Issue 3.1, Doc ID: 03-300509, February 2007.
- [2] Administration for Network Connectivity for Avaya Communication Manager, Issue 12, Doc ID: 555-233-504, February 2007.
- [3] *Meeting Exchange 4.1 Administration and Maintenance S6200/S6800 Media Server*, Issue 1, Doc ID 04-601168, July 2006.
- [4] *Meeting Exchange 4.1 Configuring S6200, S6500 and S6800 Conferencing Servers*, Issue 1, Doc ID 04-601338, July 2006.
- [5] Avaya Meeting Exchange Groupware Edition Version 4.1 User's Guide for Bridge Talk, Doc ID 04-600878, Issue 2, July 2006.

Cantata references are available at: http://www.cantata.com/.

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