

Configuring AudioCodes' Mediant[™] 2000 in the Cisco[™] PGW 2200 - MGCP Version



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Structure of this Configuration Guide

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Abbreviations and Conventions

Each abbreviation, unless widely used, is spelled out in full when first used. Only industrystandard terms are used throughout this document.

In this document:

- GW refers to Gateway
- MG refers to AudioCodes' Media Gateway
- PGW refers to Cisco's softswitch PGW 2200

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Refer to the following AudioCodes documentation for related information:

Document #	Manual Name
LTRT-00698	AudioCodes' Mediant 2000 User's Manual
LTRT-00701	AudioCodes' Mediant 2000 Fast Track Installation Guide
LTRT-00819	AudioCodes' TP Boards Series Release Notes
LTRT-00304	AudioCodes' TP-1610 User's Manual
LTRT-00100	AudioCodes' Interoperability List

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Notice

This configuration guide describes the steps to be taken when configuring AudioCodes' **Mediant 2000** Media Gateways in Cisco's PGW. Information contained in this document is believed to be accurate and reliable at the time of printing. However, due to ongoing product improvements and revisions, AudioCodes cannot guarantee the accuracy of printed material after the Date Published nor can it accept responsibility for errors or omissions. Updates to this document and other documents can be viewed and downloaded by registered Technical Support customers at http://www.audiocodes.com/ under Support/Product Documentation.

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1 Configuring Mediant 2000 in Cisco PGW 2200 - MGCP Version

1.1 Introduction

This configuration guide describes:

- How to configure AudioCodes' Mediant 2000 MGCP version in Cisco's PGW 2200.
- How to prepare the Mediant 2000 with the correct *ini* file.

Figure 1 illustrates a layout of a network in which Cisco's PGW 2200 softswitch interoperates with AudioCodes' equipment. Note that AudioCodes' Mediant 2000 interoperates with the MGCP *and* H.323 configured Cisco PGW, even though this Configuration Guide focuses exclusively on MGCP.

Figure 1: Interoperability Layout with Cisco's PGW 2200 Softswitch



AudioCodes' Mediant 2000 interoperates with the MGCP and H.323 configured Cisco PGW.

1

1.2 Adding, Defining a New External Node

> To add a new external node, take these steps:

- 1. Start Cisco's Voice Services Provisioning Tool (VSPT) to upload the updated PGW 2200 configuration.
- 2. Select the MGC Config radio button and expand the External Nodes tree.
- **3.** In the right pane of the screen (shown in Figure 2), define Mediant 2000 details.
- 4. Name: unique name to identify this new Mediant 2000 (e.g., Mediant-2K)
- 5. **Description**: you can add a short description regarding this Mediant 2000.
- **6. Type**: from the drop-down list, choose AS5400 as the Mediant 2000 gateway type.

Configuration Editor – Mediant–2K–Config 🛛 🖓 🗆					
File View Tools Help					
MGC Config O Traffic Number Analysis	Add an External	Node			
9- 10.10.10.10	Name:	Mediant-2K			
- Interfaces	Description:	Audio Codes Mediant2000 MGCP			
• Signaling	Type:	A\$5400 🗸			
• extnode-5400					
• extnode-5400-2					
extnode-hsi					
extnode-sit					
- 1025-1					
		Add			

Figure 2: Adding a New Mediant 2000

7. Click the **Add** button located at the bottom of the screen; the new Mediant 2000 is added to the External Nodes tree (refer to Figure 3).

Figure 3: Gateway Attributes

-	Cor	nfiguration Editor – Mediant–2K–Config 👘 🔤
File View Tools Help		
MGC Config Traffic Number Analysis	Attributes	
<pre> P-10.10.10.10</pre>	Name: Description: Type: GW Domain: DS1 Type: IP Address #1: IP Address #2:	Mediare 2K Addio Codes Mediare 2000 MG CP A65400 Mediare - Comain E1 10.10.20 10.10.

- 8. The new Mediant 2000 will be added to the External Nodes list (refer to Figure 3). Click on the new external node that you just added under the External Nodes tree (e.g., Mediant-2K); the pane on the right of the screen displays the fields below.
- **9. GW Domain**: Define the unique domain name that the new external node is part of (e.g., Mediant-Domain). This domain name is the MGCP gateway name that will be used later in the Mediant 2000 configuration.
- 10. In the **DS-1** drop-down list, choose the trunk type: E1 or T1.
- 11. In IP Address #1 field, type the Mediant 2000 IP address (e.g., 10.10.10.20).
- 12. Click the **Modify** button located at the bottom of the screen (refer to Figure 3).
- **13.** Expand the newly added gateway's tree, select the **MGCP** sub-tree and define the MGCP signaling info displayed under '**Add an MGCP Signaling Path**' in the right pane of the screen (refer to Figure 4).



-	Configuration Editor – Mediant–2K–Config 🔗 🖉			
File View Tools Help				
MGC Config O Traffic				
O Number Applysis	Add an MGCP Signa	aling Path		
	Manage		_	
- 10.10.10.10 → Interfaces	Name.	sigMigcp-2	-	
Signaling	Description:	Mgoppath signaling service		
- External Nodes	External Node:	Mediant-2K		
extnode-5400		Properties		
• extnode-5400-2				
extnode-hsi				
exthode-sit				
• Mediant-2K				
⊢c7				
- CAS				
- IPFAS				
P-MGCP				
BEBBIONBET				
		Add		

Figure 4: Add an MGCP Signaling Path

- **14.** The **Name** should be any unique signaling MGCP name that will identify this gateway (e.g., SigMgcp-2).
- **15.** In the **Description** field, you can add a description of this Mediant 2000 MGCP.
- **16.** The **External Node** field should be automatically updated with the Mediant 2000 name that you typed in Step 4.
- 17. Click the Add button located at the bottom of the screen (refer to Figure 4).
- **18.** Expand the sub-tree **Links** under the MGCP tree and select a MGCP signaling name.

Figure 5: MGCP Attributes

Configuration Editor – Mediant–2K–Config 🛛 🗸 🗆					
File View Tools Help					
MGC Config O Traffic					
Number Analysis					
∲-10.10.10.10 Name:	SigMgop-1-1				
- Interfaces Description	n: Iplink #1 to SigMgcp-1				
P Signaling Interface:	enet-1				
P External Nodes					
• extnode-5400-2	IP_Addr1				
extnode-hsi Port:	2427				
extnode-sit Priority:	1 🗸				
Peer Add C Mediant-2K Peer Add	***: 10.10.10.20				
- C7 Peer Port	2427				
- CAS IP Gatew	yr				
IP Net Ma	k:				
Gervice: Service:	SigMgop-1				
¢- Links					
L SigMgcp-1-1					
BEBBIONDET					
	Modify Delete				

- **19.** The **Name** should be any unique signaling MGCP name that will identify this MGCP link (e.g., SigMgcp-1-1).
- 20. In the **Description** field, you can add a description of this Mediant 2000 MGCP link.
- **21.** In the **Interface** drop-down list, choose the PGW Ethernet interface that will communicate with this new external node (e.g., enet-1).
- 22. In the Port field, type the PGW's MGCP listening UDP port. The standard port is 2427.
- In the Peer Port field, type the gateway's MGCP listening UDP port. The standard port is 2427.
- 24. If the new Mediant 2000 is located in a different subnet of the PGW, update the IP Gateway and IP Net Mask fields. Update the IP Gateway field with an appropriate router that the PGW will use in order to access this other subnet only if it not the default router that the PGW is using. Update the IP Net Mask field with an appropriate subnet mask that the PGW will use in order to access this other subnet only if it is not the default subnet that the PGW is using.
- 25. Click the Modify button located at the bottom of the screen (refer to Figure 5).

1.3 Defining Gateway Traffic Attributes

- > To define gateway traffic attributes, take these steps:
- 1. Choose the **Traffic** radio button and select the **Trunk Groups** tree.
- 2. To add a Trunk Group to the new node, click the **Add** button located at the bottom of the screen, shown in Figure 6.

	Configu	ration Editor – Med	liant-2K-Config			
File View Tools Help						
O MGC Config			Trunk Groups			_
P-Traffic	Trkgrp #	CLLI	Sigsrv	Trunk Type	# of Trunks	
Ç-Traffic	Trikgrp #	CLU	Sigarv	Trunk Type	#of Trunks	
		Ad	Total: 26	Delete		

Figure 6: Trunk Groups

- 3. Define the Mediant 2000 Trunk Group properties (refer to Figure 7).
- 4. In the **TrunkGroup** tab, the VSPT supplies a new Trunk Group Number.
- 5. CLLI: define the Common Language Location Identifier (CLLI) code that can be specified against the trunk group (e.g., Mediant2K).
- 6. In the **Signaling Service** drop-down list, choose the SS7 signaling link that carries all the SS7 messages regarding the new Mediant 2000 CIC's (refer to Figure 7).

	Configu	iration Editor – Mediant–2K–Config 🛛 👘 🗖
File View Tools Help		
O MGC Config I Traffic	Trunk Group Data and Prop	perty
P-Traffic	TrunkGroup Prop-1	Prop-2 Prop-3 Prop-4 SIP-1 SIP-2
©-Traffic → Profiles → Trunks → Trunks → CodecString → BearerCap → Routing	TrunkGroup Prop-1 Trunk Group Number CLLI Signaling Service Trunk Type Queueable Type Select Sequence VSF Priority	Prop.2 Prop.4 SIP.1 SIP.2 1026

Figure 7: Trunk Group Date and Property

- 7. Click the **Prop-1** tab and in the Prop-1 pane (refer to Figure 8), verify that the **Detect Fax Modem Tone** field is configured to 'Yes'.
- 8. In the **Customer Group ID** field, define the appropriate digit analysis group ID that this group belongs to (e.g., TEST).



Figure 8: Prop-1

🗕 Configuration Editor – Mediant–2K–Config 🛛 📝 🗐							
File View Tools Help							
MGC Config Traffic Number Analysis	Trunk Group Data and Property Trunk Group Prop-1 Prop-2 Prop-3 Prop-4 SIP-1 SIP-2						
P-Traffic	TrunkGroup Prop-1 Prop-2 I Ring No Answer(0-255) Glare COT Percentage (0-100) Satellite Numbering Plan Area (0 or 200-393) Customer Group ID Compression Type Echo Canceller Required External COT Detect Fax Modem Tone Wait OrigSDP Timer(0-50) Wait TermSDP Timer(0-50) Send Address in Cgpn	Prop-4 SIP-1 SIP-2 100 Image: Size of the size of th					
	4						

9. In the **Prop-3** tab (refer to Figure 9), verify that the **Incoming Trkgrp Fax Support** field is configured to 'T.38 Fax'.

Figure 9: Prop-3

-		Configuratio	n Editor – Mediant–2K–Config
File View Tools Help			
O MGC Config	Traffic	Trunk Group Data and Property	
Troffie		TrunkGroup Prop-1 Prop-	2 Prop-3 Prop-4 SIP-1 SIP-2
 P-Traffic Profiles Trunk Groups Trunks CodecString BearerCap Routing 		Binternational Prefix BNational Prefix ADigitCCPrefix BDigitCCPrefix BDigConnecteditCCrm CCOrigin Ta 11mePeriod (1-180 sec) Ta 21imePeriod (1-180 sec) Ta 31imePeriod (1-180 sec)	nul ind ind ind isabled ind isabled id isabled id i
		Expiry/WarnToneType	NULL
		ExpiryWarnToneDuration	1
		Unselect	
		GwDefaultCodecString	NULL
	1000	AllowH323Hairpin	Not Allowed
	11111	EISUP link to H323 Platform	Not Connected
	1000	Incoming Trkgrp Fax Support	T.38 Fax
		<u></u>	OK Cancel

- **10.** Click the **OK** button located at the bottom of the screen.
- **11.** To verify that the new Mediant 2000 is configured in the database, select the **Trunk Groups** tree (refer to Figure 10).

-	Configu	ıration Editor – Me	diant-2K-Config		· 🗆
File View Tools Help					
O MGC Config	Trunk Groups				
P- Traffic	Trkgrp #	CLLI	Sigsrv	Trunk Type	#of Trunks
Profiles Trunk Groups Trunks CodecString BearerCap Routing	1926	jwediant2K	ss7p-1	TOM_ISUP	ja
			Total: 26		
		Ad	d Modify View	Delete	

Figure 10: Trunk Groups List

- > To attach the Mediant 2000 trunk to the trunk group, take the following steps:
- 1. Select **Trunks** under the **Traffic** tree (refer to Figure 11).



Configuration Editor – M2K–1–Test						
File View Tools Help						
O MGC Config Traffic						
	Trunks					
O Number Analysis						
P− Traffic	Trunk Group Number 1004 💌					
- Profiles		-				
- Trunk Groups		span		Gateway	Endpoint	
- Trunks	2	ffff	34	ext-5400	56/DS1-0/1@ext-5400	555
Codecstring	3	ffff	35	ext-5400	56/DS1-0/3@ext-5400	
BearerCap	4	ffff	36	ext-5400	\$6/D\$1-0/4@ext-5400	
e= Routing	5	ffff	37	ext -5400	\$6/D\$1-0/5@ext-5400	
	6	ffff	38	ext-5400	S6/DS1-0/6@ext-5400	
	7	ffff	39	ext-5400	\$6/D\$1-0/7@ext-5400	
	8	ffff	40	ext-5400	\$6/D\$1-0/8@ext-5400	
	10	1111	41	ext-5400	50/DS1-0/9@ext-5400	
	11	ffff	43	ext-5400	56/DS1-0/11@ext-5400	
	12	ffff	44	ext-5400	\$6/D\$1-0/12@ext-5400	
	13	ffff	45	ext-5400	\$6/D\$1-0/13@ext-5400	
	14	ffff	46	ext-5400	\$6/D\$1-0/14@ext-5400	
	15	ffff	47	ext-5400	S6/DS1-0/15@ext-5400	
	16	ffff	48	ext-5400	\$6/D\$1-0/16@ext-5400	
	1/	1111	49	ext-54UU	56/D S1-U/1/@ext-5400	
	10	****	61	ext 5400	56/D 51-0/16@ext 5400	
	20	ffff	52	ext-5400	56/DS1-0/20@ext-5400	
	21	ffff	53	ext-5400	\$6/D\$1-0/21@ext-5400	
	22	ffff	54	ext-5400	\$6/D\$1-0/22@ext-5400	
	23	ffff	55	ext-5400	\$6/D\$1-0/23@ext-5400	
	24	ffff	56	ext-5400	\$6/D\$1-0/24@ext-5400	
	25	ffff	57	ext-5400	\$6/D\$1-0/25@ext-5400	
	20	****	50	ext-5400	50/DS1-0/20@ext-5400	
	28	ffff	60	ext-5400	56/DS1-0/28@ext-5400	
	29	ffff	61	ext-5400	S6/DS1-0/29@ext-5400	
	30	ffff	62	ext-5400	\$6/D\$1-0/30@ext-5400	
	31	ffff	63	ext-5400	\$6/D\$1-0/31@ext-5400	-
				Total: 31		
		Г				
			Add Appen	d Delete Del	ete All	

Figure 11: Trunks

2. Click the Add button at the bottom of the right-hand pane; the screen enabling Attaching a Mediant 2000 Trunk to the Trunk Group opens (refer to Figure 12).

-	Configurati	ion Editor – Mediant–2K–Config	
File View Tools Help			
O MGC Config			
O Number Analysis	Trunk Group Number:	1026	
©- Traffic			
- Profiles	Media Gateway Name:	Mediant-2K	▼
- Trunk Groups	MGCP Domain:	Mediant-Domain	
- Trunks CodesString	First CIC Number (0-65535):	1	
- BearerCap	Slot Number:	2	•
• Routing	DS1 Number:	1	-
	First DS0 Number:	1	=
	DS1 Type:	E	- 1
	Trunk Group Signaling Type	\$\$7	-
	Number of Trunk members:	31	
	Cancel	More > Fini	sh
×			

Figure 12: Attaching a Mediant 2000 Trunk to the Trunk Group

- 3. In the **Trunk Group Number** drop-down list, choose the Trunk Group Number that the Mediant 2000 belongs to (refer to Section 1.3, Step 4).
- 4. In the **Media Gateway Name** drop-down list, choose the new gateway name that you configured under Section 1.2, Step 4); the **MGCP Domain** field is updated automatically.
- 5. In the **First CIC Number (0-65535)** field, type the first CIC number that belongs to the trunk connected to the Mediant 2000.
- 6. In the **Slot Number** drop-down list, choose a slot number. Note that the slot numbers do not correspond to the slot number definition of the Mediant 2000 (refer to parameter TrunkName on page 20). It is one more than it. For example, from the drop-down list, choose 2 for the slot 1 number definition.
- 7. In the DS1 Number drop-down list, choose the trunk number. Note that the DS1 numbers do not correspond to the physical DS1/trunk connected to the Mediant 2000. It is one more than it. For example, from the drop-down list, choose 1 for the physical trunk number 0.
- 8. In the **Number of Trunk Members** field, type the number of B-channel/CIC that this trunk is responsible for. E.g., when using a full E1 trunk, type 31. (refer to parameter ProtocolType on page 20)
- 9. Click the **Finish** button located at the bottom of the screen (refer to Figure 12).
- **10.** To verify the Mediant 2000 CIC's number clock on the Trunk, the CIC list is displayed (refer to Figure 13).



Configuration Editor – Mediant–2K–Config 🛛 👘 🗔						
File View Tools Help						
O MGC Config						
O Number Analysis	Trunks					
O- Traffic						
- Profiles			Trunk	Group Number 1026 🔻		
— Trunk Groups	Trunk #	Span	CIC	Gateway	Endpoint	
- Trunks	1	1111	1	Mediant-2K	S1/DS1-0/1@Mediant-Domain	
- CodecString	2	ffff	2	Mediant-2K	S1/DS1-0/2@Mediant-Domain	
- BearerCap	3	1111	3	Mediant-2K	S1/DS1-U/3@Mediant-Domain	
C Routing	5	ffff	5	Mediant-2K	S1/DS1-D/5@Mediant-Domain	
	6	1111	6	Mediant-2K	S1/DS1-0/6@Mediant-Domain	
	7	ffff	7	Mediant-2K	S1/DS1-0/7@Mediant-Domain	
	8	ffff	8	Mediant-2K	S1/DS1-0/8@Mediant-Domain	
	9	ffff	9	Mediant-2K	S1/DS1-D/9@Mediant-Domain	
	10	ffff	10	Mediant-2K	S1/DS1-0/10@Mediant-Domain	
	11	ffff	11	Mediant-2K	S1/DS1-D/11@Mediant-Domain	
	12	1111	12	Mediant-2K	S1/DS1-D/12/grivediant-Domain	
	14	ffff	14	Mediant-2K	S1/DS1-D/14@Mediant-Domain	
	15	1111	15	Mediant-2K	S1/DS1-0/15@Mediant-Domain	
	16	ffff	16	Mediant-2K	S1/DS1-D/16@Mediant-Domain	
	17	ffff	17	Mediant-2K	S1/DS1-0/17@Mediant-Domain	
	18	ffff	18	Mediant-2K	S1/DS1-D/18@Mediant-Domain	
	19	ffff	19	Mediant-2K	S1/DS1-D/19@Mediant-Domain	
	20	ffff	20	Mediant-2K	S1/DS1-0/20@Mediant-Domain	
	21	1111	21	Mediant-2K	S1/DS1-D/21@Mediant-Domain	
	22	****	22	Mediant-2K	S1/DS1-D/22@Mediant-Domain	
	23	ffff	23	Mediant-2K	S1/DS1-D/24@Mediant-Domain	
	25	1111	25	Mediant-2K	S1/DS1-0/25@Mediant-Domain	
	26	ffff	26	Mediant-2K	S1/DS1-0/26@Mediant-Domain	
	27	ffff	27	Mediant-2K	S1/DS1-0/27@Mediant-Domain	
	28	ffff	28	Mediant-2K	S1/DS1-D/28@Mediant-Domain	
	29	ffff	29	Mediant-2K	S1/DS1-D/29@Mediant-Domain	
	30	ffff	30	Mediant-2K	S1/DS1-0/30@Mediant-Domain	
	31	1111	31	Mediant-2K	S1/DS1-D/31@Mediant-Domain	
				Total: 31		
			Add App	end Delete D	elete All	

Figure 13: CIC List

1.4 Activating the MGCP Link in the PGW via MML (Man Machine Language)

- > To activate the MGCP link in the PGW via MML, take these steps:
- 1. Access the PGW machine using Telnet or Terminal.
- 2. Access the configuration level using the command mml.
- 3. Activate the MGCP link using the command set-iplnk:<IP-Link>:IS, where <IP-Link> is the signaling MGCP name. Refer to Step 14. For example, if the MGCP name is sigmgcp-2, type the command set-iplnk:sigmgcp-2:IS

1.5 Preparing the Gateway to Work with Cisco PGW 2200

> To prepare the Gateway, take the following steps:

- **1.** Define the following parameters in the *ini* file that relate to configuring the Mediant 2000 to work with the Cisco PGW:
 - CallAgentIP = <IP address of the Cisco PGW 2200>
 - MGControlProtocolType = 1
 - CallAgentPort = 2427 (should be the same as Step 22 on page 11 under Section 1.2)
 - GatewayMGCPPort = 2427 (should be the same as Step 23 on page 11 under Section 1.2)
 - FaxTransportMode = 1 (to define T.38 relay transfer mode)
 - UseT38orFRF11 = 1
 - V21ModemTransportType = 0
 - V22ModemTransportType = 0
 - V23ModemTransportType = 0
 - V32ModemTransportType = 0
 - V34ModemTransportType = 0
 - MGCPCompatibilityProfile = 4
 - EndpointName ="
 - TrunkName = <Gateway's slot name and number, e.g., 'S3/DS1-' where the 3 indicates slot number 3 and the corresponding configuration in the PGW will be one more, i.e., 4; refer to Step 6, Slot Number, on page 17>
 - EndpointPrefix ="
 - UseBracketsWithGatewayName = 0
 - UseWildCardWithRSIP = 1
 - MGCPVersion = 'MGCP 0.1' (unless the PGW supports another MGCP version that you can type in this field)
 - GatewayName = <the same as the definition in MGCP Domain Name field; refer to Step 9 under Section 1.2 (e.g. ' Mediant-Domain')>
 - DTMFTransportType = 0
 - ProtocolType = <6 for E1 Transparent with 30 B-channels/CIC or 5 for E1 Transparent with 31 B-channels/CIC or 4 for T1 Transparent>
 - ClockMaster = 0
 - TDMBusClockSource = 4
 - LineCode = <0 for B8ZS line code (for T1 trunks only) or 1 for AMI line code or 2 for HDB3 line code (for E1 trunks only)>
 - PCMLawSelect = <1 for Alaw E1, 3 for Ulaw T1>
 - TDMBusType = 2
 - TDMBusSpeed = 3
- 2. After setting the *ini* file, save it in the directory in which the BOOTP application is configured.
- **3.** Download the new version (including the *ini* file) you just configured (refer to AudioCodes' Mediant 2000 User's Manual).

1.6 Example Configuration

- To configure a Mediant 2000 with the gateway name <u>S1/DS1-2/*@Mediant2000</u>, take these steps:
- 1. In the *ini* file, configure:
 - → TrunkName = 'S1/DS1-'
 - → GatewayName = 'Mediant2000'
- 2. Connect the physical trunk to trunk number 2
- **3.** In the PGW VSPT, configure:
 - → MGCP Domain Name field = Mediant2000 (refer to Step 9 under Section 1.2)
 - \rightarrow Slot Number = 2 (refer to Step 6, parameter Slot Number, on page 17)
 - \rightarrow DS1 Number = 3 (refer to Step 7, parameter DS1 Number, on page 17)



1.7 Version Compatibility

Product	Version
AudioCodes Mediant 2000	4.2 Fix1
Cisco PGW	9.3.2
Cisco VSPT	2.3.2

This Configuration Guide applies to the following product versions:

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