



Avaya Definity G3si MV1.3 using T1 PRI NI2 to Cisco Unified CallManager 4.0

November 26, 2007 Revision 2

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Introduction

This is an application note for connectivity of Avaya Definity G3si MV1.3 PBX with Cisco Unified CallManager (CUCM) Release 4.0 using Cisco 6608-T1 PRI NI2 as MGCP gateway.

The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified CallManager connected to the PBX via 6608-T1 PRI link as MGCP gateway.

Connectivity is achieved by using the industry standard PRI NI-2 protocol. The Avaya Definity G3si MV1.3 PBX as well as the Cisco Unified CallManager can be configured as either NETWORK or USER side.

Basic calls worked fine in both directions with Calling/Connected Name and Calling Number features support.

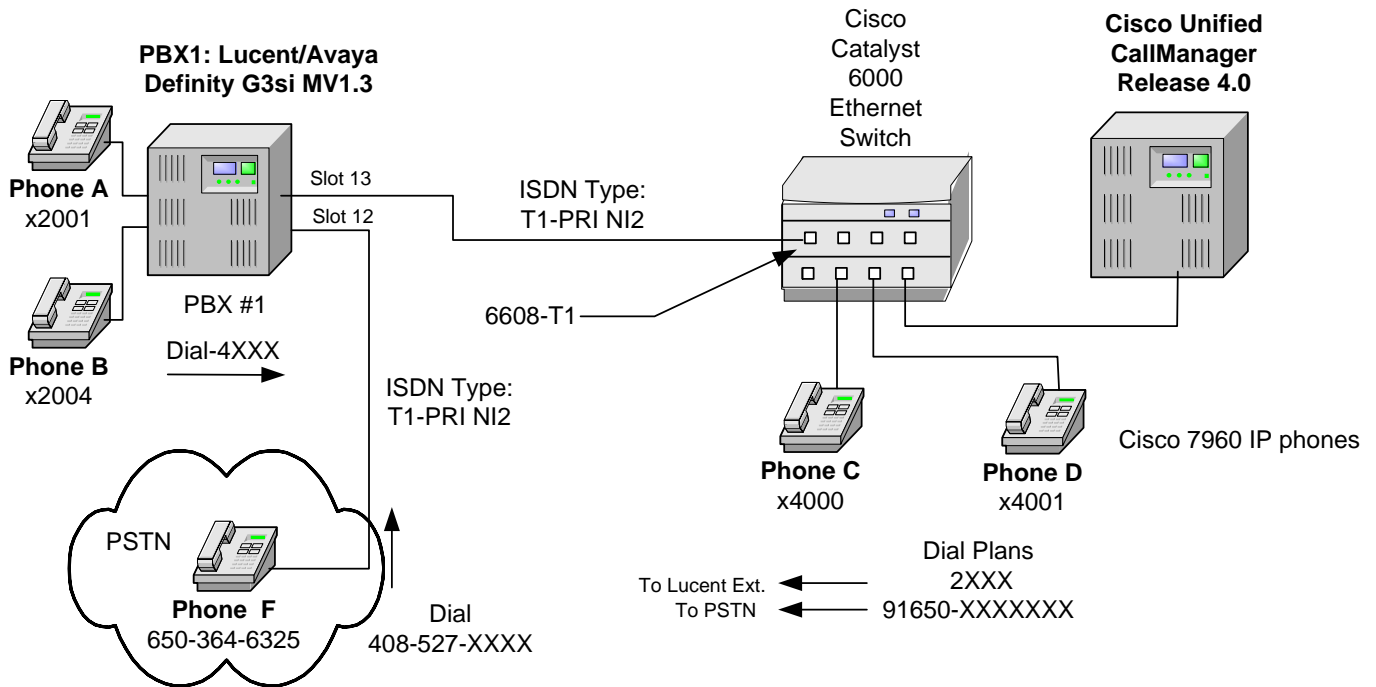
Cisco Unified CallManager PRI trunk does not support sending "Connected Number" information in the connect message back to PBX.



Network Topology

Figure 1. Network Topology

Basic Call Setup End-to-End Configuration



Limitations

Calling Name and Number Features

When calling from Avaya digital phone to Cisco 7960 IP phone, IP phone displays Calling Name and Number after the call is answered. Avaya phone however displays "Connected Name" but did not display "Connected Number". It was verified using ISDN protocol analyzer that the Cisco Unified CallManager PRI trunk does not support sending "Connected Number" information in the connect message back to PBX.

System Components

Hardware Requirements

Cisco Hardware:

Cisco Catalyst 6000 switch with 6608-T1 gateway

Cisco Unified CallManager 4.0

Avaya Definity G3si MV1.3 PBX Hardware:

TN464F, DS1 INTFC 24/32

Software Requirements

PBX Software MV1.3



Cisco Unified CallManager 4.0

Cisco WS-X6608-T1 gateway Version 7.6(2)

Features

Features Supported

Calling/Called Number

Calling/Connected Name

Features Not Supported

Connected Number not supported on Cisco Unified CallManager 4.0

Configuration

Configuring the Avaya Definity G3si MV1.3 PBX

Configure in the following sequence:

1. Add the new circuit pack.
2. Add the new signaling group.
3. Add the new trunk group.
4. Add Uniform Dialing Plan.



Configuration Menus and Commands

DS1 Circuit Pack

change ds1 a13

1 2

DS1 CIRCUIT PACK

Location:	01A13	Name:	T1 PRI
Bit Rate:	1.544	Line Coding:	b8zs
Line Compensation:	1	Framing Mode:	esf
Signaling Mode:	isdn-pri	Country Protocol:	1
Connect:	line-side	Protocol Version:	b
TN-C7 Long Timers?	n	CRC?	n
Interworking Message:	PROGress	DCP/Analog Bearer Capability:	3.1kHz
Interface Companding:	mulaw		
Idle Code:	11111111		

Slip Detection? Near-end CSU Type: other

Alarm When PRI Endpoint Detached?

Right-click in a field to see a list of valid entries or help text

Ready



Signaling Group

File Edit View System Action Tools Window Help

multivantage

change signaling-group 13 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5

SIGNALING GROUP

Group Number: 13 Group Type: isdn-pri

Associated Signaling? 0 Max number of NCA TSC: 5

Primary D-Channel: 01A1324 Max number of CA TSC: 23

Trunk Group for Channel Selection: 13 Trunk Group for NCA TSC: 13

Supplementary Service Protocol: a X-Mobility/Wireless Type: NONE

Right-click in a field to see a list of valid entries or help text

Ready NUM



Trunk Group

File Edit View System Action Tools Window Help

multivantage

change trunk-group 13 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9

TRUNK GROUP

Group Number: 13 Group Type: isdn CDR Reports: y
Group Name: T1 PRI to 6608-T1 COR: 1 TN: 1 TAC: 613
Direction: two-way Outgoing Display? y Carrier Medium: PRI/BRI
Dial Access? y Busy Threshold: 99 Night Service:
Queue Length: 0
Service Type: tie Auth Code? n TestCall ITC: rest
Far End Test Line No:
TestCall BCC: 4

TRUNK PARAMETERS

Codeset to Send Display: 0 Codeset to Send National IEs: 6
Max Message Size to Send: 260 Charge Advice: during-on-request
Supplementary Service Protocol: a Digit Handling (in/out): overlap/enbloc
Digit Treatment: Digits:
Trunk Hunt: ascend QSIG Value-Added? n
Digital Loss Group: 13
Calling Number - Delete: Insert: Numbering Format: lev0-put
Bit Rate: 1200 Synchronization: async Duplex: full
Disconnect Supervision - In? y Out? y
Answer Supervision Timeout: 0

Right-click in a field to see a list of valid entries or help text

Ready NUM



File Edit View System Action Tools Window Help

change trunk-group 13 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9

TRUNK FEATURES

ACA Assignment? Measured: Wideband Support?
Internal Alert? Maintenance Tests?
Data Restriction? NCA-TSC Trunk Member:
Send Name: Send Calling Number:

Used for DCS?
Suppress # Outpulsing? Numbering Format:
Outgoing Channel ID Encoding: UUI IE Treatment:
Charge Conversion:
Decimal Point: Replace Restricted Numbers?
Currency Symbol: Replace Unavailable Numbers?
Charge Type: Send Connected Number:

Send UUI IE?
Send UCID?
Send Codeset 6/7 LAI IE? Ds1 Echo Cancellation?

US NI Delayed Calling Name Update?

SBS? Network (Japan) Needs Connect Before Disconnect?

Right-click in a field to see a list of valid entries or help text

Ready



File Edit View System Action Tools Window Help

change trunk-group 13 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9

TRUNK GROUP
Administered Members (min/max): 1/23
Total Administered Members: 23

GROUP MEMBER ASSIGNMENTS

	Port	Code	Sfx	Name	Night	Sig Grp
1:	01A1301	TN464	F			13
2:	01A1302	TN464	F			13
3:	01A1303	TN464	F			13
4:	01A1304	TN464	F			13
5:	01A1305	TN464	F			13
6:	01A1306	TN464	F			13
7:	01A1307	TN464	F			13
8:	01A1308	TN464	F			13
9:	01A1309	TN464	F			13
10:	01A1310	TN464	F			13
11:	01A1311	TN464	F			13
12:	01A1312	TN464	F			13
13:	01A1313	TN464	F			13
14:	01A1314	TN464	F			13
15:	01A1315	TN464	F			13

Right-click in a field to see a list of valid entries or help text

Ready NUM



File Edit View System Action Tools Window Help

change trunk-group 13 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9

TRUNK GROUP
Administered Members (min/max): 1/23
Total Administered Members: 23

GROUP MEMBER ASSIGNMENTS

	Port	Code	Sfx	Name	Night	Sig Grp
16:	01A1316	TN464	F			13
17:	01A1317	TN464	F			13
18:	01A1318	TN464	F			13
19:	01A1319	TN464	F			13
20:	01A1320	TN464	F			13
21:	01A1321	TN464	F			13
22:	01A1322	TN464	F			13
23:	01A1323	TN464	F			13
24:						
25:						
26:						
27:						
28:						
29:						
30:						

Right-click in a field to see a list of valid entries or help text

Ready NUM



Uniform Dialing Plan

File Edit View System Action Tools Window Help

multivantage

change dialplan analysis send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3

Percent Full: 7

Dialed String	Total Length	Call Type	Dialed String	Total Length	Call Type	Dialed String	Total Length	Call Type
0	1	attd						
16	4	ext						
20	4	ext						
3	4	ext						
4	4	ext						
5	4	ext						
6	3	dac						
8	1	fac						
9	1	fac						
*	3	fac						



File Edit View System Action Tools Window Help

multivantage

change aar analysis 444 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2

AAR DIGIT ANALYSIS TABLE

Percent Full: 8

Dialed String	Total		Route Pattern	Call Type	Node Num	ANI Reqd
	Min	Max				
444	7	7	104	lev0	2	n
469	10	10	11	aar		n
5	7	7	254	aar		n
555	7	7	105	lev0	3	n
6	7	7	254	aar		n
600	7	7	11	aar		n
605	7	7	5	aar		n
608	7	7	8	aar		n
609	7	7	9	aar		n
611	7	7	11	lev0	10	n
612	7	7	13	aar		n
613	4	28	13	aar		n
614	3	28	14	aar		n
615	7	7	15	aar		n
616	7	7	16	aar		n

Right-click in a field to see a list of valid entries or help text

Ready NUM



File Edit View System Action Tools Window Help

change route-pattern 104 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1

Pattern Number: 104 Pattern Name:

Grp No	FRL	NPA	Pfx Mrk	Hop Lmt	Toll List	No. Del	Inserted Dgts	DCS/ IXC QSIG Intw
1:	13	0		6		3		n user
2:	14	0		6		3		n user
3:								n user
4:								n user
5:								n user
6:								n user

1:	BCC VALUE					TSC	CA-TSC Request	ITC	BCIE	Service/Feature	BAND	No. Dgts	Numbering Format	LAR Subaddress
	0	1	2	3	4									
1:	y	y	y	y	y	n	y	as-needed	bothept				lev0-pvt	none
2:	y	y	y	y	y	n	y	as-needed	bothept				lev0-pvt	none
3:	y	y	y	y	y	n	n		rest					none
4:	y	y	y	y	y	n	n		rest					none
5:	y	y	y	y	y	n	n		rest					none
6:	y	y	y	y	y	n	n		rest					none



PSTN DS1 Circuit Pack Configuration

File Edit View System Action Tools Window Help

multivantage

change ds1 a12 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2

DS1 CIRCUIT PACK

Location:	01A12	Name:	T1 PSTN PRI
Bit Rate:	1.544	Line Coding:	b8zs
Line Compensation:	1	Framing Mode:	esf
Signaling Mode:	isdn-pri		
Connect:	network		
TN-C7 Long Timers?	n	Country Protocol:	1
Interworking Message:	PROGress	Protocol Version:	b
Interface Companding:	mulaw	CRC?	n
Idle Code:	11111111		

DCP/Analog Bearer Capability: 3.1kHz

Slip Detection? u

Near-end CSU Type: other

Right-click in a field to see a list of valid entries or help text

Ready

NUM



PSTN Signaling Group

The screenshot shows a configuration window titled "multivantage" with a menu bar (File, Edit, View, System, Action, Tools, Window, Help) and a toolbar. The main area displays the configuration for "SIGNALING GROUP" for group number 12. The configuration parameters are as follows:

Parameter	Value
Group Number	12
Group Type	isdn-pri
Associated Signaling?	u
Primary D-Channel	01A1224
Trunk Group for Channel Selection	12
Supplementary Service Protocol	a
Max number of NCA TSC	5
Max number of CA TSC	23
Trunk Group for NCA TSC	12
X-Mobility/Wireless Type	NONE

At the bottom of the window, there is a status bar with the text "Right-click in a field to see a list of valid entries or help text" and "Ready". A "NUM" button is visible in the bottom right corner.



PSTN Trunk Configuration

File Edit View System Action Tools Window Help

change trunk-group 12 send [return] help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9 10

TRUNK GROUP

Group Number: 12 Group Type: isdn CDR Reports: y
Group Name: MU1.2 to PSTN on U6 COR: 1 TN: 1 TAC: 612
Direction: two-way Outgoing Display? y Carrier Medium: PRI/BRI
Dial Access? y Busy Threshold: 99 Night Service:
Queue Length: 0
Service Type: public-ntwrk Auth Code? n TestCall ITC: rest
Far End Test Line No:
TestCall BCC: 4

TRUNK PARAMETERS

Codeset to Send Display: 0 Codeset to Send National IEs: 7
Max Message Size to Send: 260 Charge Advice: none
Supplementary Service Protocol: a Digit Handling (in/out): enbloc/enbloc

Trunk Hunt: ascend QSIG Value-Added? n
Digital Loss Group: 13
Calling Number - Delete: Insert: Numbering Format:
Bit Rate: 1200 Synchronization: async Duplex: full
Disconnect Supervision - In? y Out? n
Answer Supervision Timeout: 0

Right-click in a field to see a list of valid entries or help text

Ready NUM



File Edit View System Action Tools Window Help

multivantage

change trunk-group 12 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9 10

TRUNK FEATURES

ACA Assignment? Measured: Wideband Support?
Maintenance Tests?
Data Restriction? NCA-TSC Trunk Member:
Send Name: Send Calling Number:
Used for DCS?
Suppress # Outpulsing? Numbering Format:
Outgoing Channel ID Encoding: UII IE Treatment:
Replace Restricted Numbers?
Replace Unavailable Numbers?
Send Connected Number:
Send UII IE?
Send UCID?
Send Codeset 6/7 LAI IE? Ds1 Echo Cancellation?
US NI Delayed Calling Name Update?
SBS? Network (Japan) Needs Connect Before Disconnect?

Right-click in a field to see a list of valid entries or help text

Ready



File Edit View System Action Tools Window Help

change trunk-group 12 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7 8 9 10

TRUNK GROUP
Administered Members (min/max): 1/15
Total Administered Members: 15

GROUP MEMBER ASSIGNMENTS

	Port	Code	Sfx	Name	Night	Sig Grp
1:	01A1201	TN464	F			12
2:	01A1202	TN464	F			12
3:	01A1203	TN464	F			12
4:	01A1204	TN464	F			12
5:	01A1205	TN464	F			12
6:	01A1206	TN464	F			12
7:	01A1207	TN464	F			12
8:	01A1208	TN464	F			12
9:	01A1209	TN464	F			12
10:	01A1210	TN464	F			12
11:	01A1211	TN464	F			12
12:	01A1212	TN464	F			12
13:	01A1213	TN464	F			12
14:	01A1214	TN464	F			12
15:	01A1215	TN464	F			12

Right-click in a field to see a list of valid entries or help text

Ready NUM



PSTN Access Code (9)

File Edit View System Action Tools Window Help

change feature-access-codes send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4 5 6 7

FEATURE ACCESS CODE (FAC)

Abbreviated Dialing List1 Access Code:	<input type="text"/>
Abbreviated Dialing List2 Access Code:	<input type="text"/>
Abbreviated Dialing List3 Access Code:	<input type="text"/>
Abbreviated Dial - Prgm Group List Access Code:	<input type="text"/>
Announcement Access Code:	<input type="text"/>
Answer Back Access Code:	<input type="text"/>
Auto Alternate Routing (AAR) Access Code:	<input type="text" value="8"/>
Auto Route Selection (ARS) - Access Code 1:	<input type="text" value="9"/>
Access Code 2:	<input type="text"/>
Automatic Callback Activation:	<input type="text"/>
Deactivation:	<input type="text"/>
Call Forwarding Activation Busy/DA: <input type="text" value="*66"/> All:	<input type="text" value="*67"/>
Deactivation:	<input type="text" value="*69"/>
Call Park Access Code:	<input type="text"/>
Call Pickup Access Code:	<input type="text"/>
CAS Remote Hold/Answer Hold-Unhold Access Code:	<input type="text"/>
CDR Account Code Access Code:	<input type="text"/>
Change COR Access Code:	<input type="text"/>
Change Coverage Access Code:	<input type="text"/>
Data Origination Access Code:	<input type="text"/>
Data Privacy Access Code:	<input type="text"/>
Directed Call Pickup Access Code:	<input type="text"/>



PSTN Dialing Plan

change ars analysis 165 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 | 2

ARS DIGIT ANALYSIS TABLE
Location: all Percent Full: 8

Dialed String	Total		Route Pattern	Call Type	Node Num	ANI Req'd
	Min	Max				
165	11	11	111	fnpa		n
166	11	11	deny	fnpa		n
167	11	11	deny	fnpa		n
168	11	11	deny	fnpa		n
169	11	11	deny	fnpa		n
170	11	11	deny	fnpa		n
1700	11	11	deny	fnpa		n
171	11	11	deny	fnpa		n
172	11	11	deny	fnpa		n
173	11	11	deny	fnpa		n
174	11	11	deny	fnpa		n
175	11	11	deny	fnpa		n
176	11	11	deny	fnpa		n
177	11	11	deny	fnpa		n
178	11	11	deny	fnpa		n



File Edit View System Action Tools Window Help

change route-pattern 111 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1

Pattern Number: 111 Pattern Name:

Grp No	FRL No	NPA	Pfx Mrk	Hop Lmt	Toll List	No. Del	Inserted Dgts	DCS/ IXC QSIG Intw
1:	12	0	408					n user
2:								n user
3:								n user
4:								n user
5:								n user
6:								n user

Grp No	BCC VALUE					TSC	CA-TSC Request	ITC	BCIE	Service/Feature	BAND	No. Dgts	Numbering Format	LAR Subaddress
	0	1	2	3	4									
1:	y	y	y	y	y	n	n	rest					natl-pub	none
2:	y	y	y	y	y	n	n	rest						none
3:	y	y	y	y	y	n	n	rest						none
4:	y	y	y	y	y	n	n	rest						none
5:	y	y	y	y	y	n	n	rest						none
6:	y	y	y	y	y	n	n	rest						none



Configuring the Cisco Unified CallManager

6608-T1 Gateway Configuration

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Gateway Configuration

[Back to Find/List Gateways](#)
[Dependency Records](#)

Product : Cisco Catalyst 6000 T1 VoIP Gateway
Gateway : S0/DS1-0@SDA0001C9D93A98
Device Protocol: Digital Access PRI
Registration: Registered with Cisco CallManager 172.20.32.254
IP Address: [172.20.32.112](#)

Status: Ready

Device Information

MAC Address*	<input type="text" value="0001C9D93A98"/>
Description	<input type="text" value="SDA0001C9D93A98"/>
Device Pool*	<input type="text" value="Default"/>
Network Locale	<input type="text" value="United States"/>
Media Resource Group List	<input type="text" value=" < None >"/>
Location	<input type="text" value=" < None >"/>
AAR Group	<input type="text" value=" < None >"/>
Load Information	<input type="text"/>

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain (e.g., "0000FF")	<input type="text"/>
MLPP Indication	<input type="text" value="Off"/>
MLPP Preemption	<input type="text" value="Disabled"/>

Interface Information

PRI Protocol Type*	<input type="text" value="PRI NI2"/>
Protocol Side*	<input type="text" value="User"/>
Channel Selection Order*	<input type="text" value="Top Down"/>
Channel IE Type*	<input type="text" value="Timeslot Number"/>

PCM Type*	<input type="text" value="μ-law"/>
Delay for first restart (1/8 sec ticks)	<input type="text" value="32"/>
Delay between restarts (1/8 sec ticks)	<input type="text" value="4"/>
<input checked="" type="checkbox"/> Inhibit restarts at PRI initialization	
<input checked="" type="checkbox"/> Enable status poll	
Call Routing Information	
Inbound Calls	
Significant Digits*	<input type="text" value="All"/>
Calling Search Space	<input type="text" value="Incoming Trunk"/>
AAR Calling Search Space	<input type="text" value="< None >"/>
Prefix DN	<input type="text"/>
Outbound Calls	
Calling Line ID Presentation*	<input type="text" value="Default"/>
Calling Party Selection*	<input type="text" value="Originator"/>
Called party IE number type unknown*	<input type="text" value="Unknown"/>
Calling party IE number type unknown*	<input type="text" value="Unknown"/>
Called Numbering Plan*	<input type="text" value="Private"/>
Calling Numbering Plan*	<input type="text" value="Private"/>
Number of digits to strip*	<input type="text" value="0"/>
Caller ID DN	<input type="text"/>
SMDI Base Port*	<input type="text" value="0"/>
PRI Protocol Type Specific Information	
<input checked="" type="checkbox"/> Display IE Delivery	
<input checked="" type="checkbox"/> Redirecting Number IE Delivery - Outbound	
<input checked="" type="checkbox"/> Redirecting Number IE Delivery - Inbound	
<input checked="" type="checkbox"/> Send Extra Leading Character In DisplayIE***	
<input type="checkbox"/> Setup non-ISDN Progress Indicator IE Enable****	

<input checked="" type="checkbox"/>	MCDN Channel Number Extension Bit Set to Zero**
<input type="checkbox"/>	Send Calling Name In Facility IE
<input checked="" type="checkbox"/>	Interface Identifier Present**
Interface Identifier Value**	<input type="text" value="0"/>
Connected Line ID Presentation (QSIG Inbound Call)*	<input type="text" value="Default"/>
Connected PBX Model	<input type="text" value="None"/>
Product Specific Configuration i	
Clock Reference*	<input type="text" value="Network"/>
TX-Level CSU*	<input type="text" value="0dB"/>
FDL Channel*	<input type="text" value="ATT 54016"/>
Framing*	<input type="text" value="ESF"/>
Audio Signal Adjustment into IP Network*	<input type="text" value="NoDbPadding"/>
Audio Signal Adjustment from IP Network*	<input type="text" value="NoDbPadding"/>
Yellow Alarm*	<input type="text" value="Bit2"/>
Zero Suppression*	<input type="text" value="B8ZS"/>
Digit On Duration(50-500ms)*	<input type="text" value="100"/>
Interdigit Duration(50-500msec)*	<input type="text" value="100"/>
SNMP Community String	<input type="text" value="public"/>
Disable SNMP Set operations*	<input type="checkbox"/>
Debug Port Enable*	<input checked="" type="checkbox"/>
Hold Tone Silence Duration*	<input type="text" value="0"/>
Port Used for Voice Calls*	<input checked="" type="checkbox"/>
Port Used for Modem Calls*	<input checked="" type="checkbox"/>
Port Used for Fax Calls*	<input checked="" type="checkbox"/>
Fax and Modem Parameters	
Fax Relay Enable*	<input checked="" type="checkbox"/>
Fax Error Correction Mode Override*	<input checked="" type="checkbox"/>
Maximum Fax Rate*	<input type="text" value="14400bps"/>

Fax Payload Size*	<input type="text" value="20"/>
Non Standard Facilities Country Code*	<input type="text" value="65535"/>
Non Standard Facilities Vendor Code*	<input type="text" value="65535"/>
Fax/Modem Packet Redundancy*	<input type="checkbox"/>
NSE Type*	<input type="text" value="Non-IOS Gateways"/>

Playout Delay Parameters

Initial Playout Delay*	<input type="text" value="40"/>
Minimum Playout Delay*	<input type="text" value="20"/>
Maximum Playout Delay*	<input type="text" value="150"/>

Echo Canceller Configuration

Echo TailLength (ms)*	<input type="text" value="32 ms"/>
Minimum ERL (db)*	<input type="text" value="6 db"/>

* indicates required item
** applicable to DMS-100 protocol only
*** applicable to DMS-100 protocol and DMS-250 protocol only
**** may be required to force ringback from some PBXs

[Back to Find/List Gateways](#)



Enbloc Route Pattern Configuration

Route Pattern/Hunt Pilot: 2XXX

Status: Ready
Note: Any update to this Route Pattern or Hunt Pilot automatically resets the associated gateway or Route/Hunt List

[Copy](#) [Update](#) [Delete](#)

Pattern Definition

Route Pattern/Hunt Pilot*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route/Hunt List* [\(Edit\)](#)

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value=" — Not Selected —"/>	<input type="text" value=" < Not Exist >"/>	<input type="text"/>



Overlap Sending Route Pattern Configuration

Route Pattern/Hunt Pilot: 9.X

Status: Ready
Note: Any update to this Route Pattern or Hunt Pilot automatically resets the associated gateway or Route/Hunt List

Pattern Definition

Route Pattern/Hunt Pilot*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route/Hunt List* (Edit)

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value=" — Not Selected —"/>	<input type="text" value=" < Not Exist >"/>	<input type="text"/>



PSTN Route Pattern Configuration

Route Pattern/Hunt Pilot: 91650XXXXXXX

Status: Ready
Note: Any update to this Route Pattern or Hunt Pilot automatically resets the associated gateway or Route/Hunt List

Pattern Definition

Route Pattern/Hunt Pilot*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route/Hunt List* [\(Edit\)](#)

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value="— Not Selected —"/>	<input type="text" value="< Not Exist >"/>	<input type="text"/>

7960 IP phone Configuration

Phone Configuration

[Add a new phone](#)
[Add/Update Speed Dials](#)
[Subscribe/Unsubscribe Services](#)
[Dependency Records](#)
[Back to Find/List Phones](#)

Directory Numbers

Base Phone

- 7912 Line 1 - 4000 in
- 7919 Phones
- 7912 Line 2 - Add new DN
- 7919

Phone: SEP000B5FD22FE8 (Auto 4000)
Registration: Registered with Cisco CallManager 172.20.32.254
IP Address: [172.20.32.102](#)

Status: Ready

Phone Configuration (Model = Cisco 7960)

Device Information

MAC Address*	<input type="text" value="000B5FD22FE8"/>
Description	<input type="text" value="Auto 4000"/>
Owner User ID	<input type="text"/> (Select User ID)
Device Pool*	<input type="text" value="Default"/> (View details)
Calling Search Space	<input type="text" value="< None >"/>
AAR Calling Search Space	<input type="text" value="< None >"/>
Media Resource Group List	<input type="text" value="< None >"/>
User Hold Audio Source	<input type="text" value="< None >"/>
Network Hold Audio Source	<input type="text" value="< None >"/>
Location	<input type="text" value="< None >"/>
User Locale	<input type="text" value="< None >"/>
Network Locale	<input type="text" value="< None >"/>
Device Security Mode	<input type="text" value="Use System Default"/>
Built In Bridge	<input type="text" value="Default"/>
Privacy	<input type="text" value="Default"/>

Phone Button Template Information

Phone Button Template* [\(View button list\)](#)


Softkey Template Information

Softkey Template

Expansion Module Information

Module 1

Module 2

Firmware Load Information (leave blank to use default)	
Phone Load Name	<input type="text"/>
Module 1 Load Name	<input type="text"/> (Module 1 selection required)
Module 2 Load Name	<input type="text"/> (Module 2 selection required)
Cisco IP Phone - External Data Locations (leave blank to use default)	
Information	<input type="text"/>
Directory	<input type="text"/>
Messages	<input type="text"/>
Services	<input type="text"/>
Authentication Server	<input type="text"/>
Proxy Server	<input type="text"/>
Idle	<input type="text"/>
Idle Timer (seconds)	<input type="text"/>
Extension Mobility (Device Profile) Information	
<input type="checkbox"/> Enable Extension Mobility Feature	
Log Out Profile	<input type="text" value="-- Not Selected --"/>
Log In User ID	< None >
Log In Time	< None >
Log Out Time	< None >
Multilevel Precedence and Preemption (MLPP) Information	
MLPP Domain	<input type="text"/> (e.g., "0000FF")
MLPP Indication	<input type="text" value="Default"/>
MLPP Preemption	<input type="text" value="Default"/>
Product Specific Configuration 	
Disable Speakerphone	<input type="checkbox"/>
Disable Speakerphone and Headset	<input type="checkbox"/>
Forwarding Delay*	<input type="text" value="Disabled"/>
PC Port*	<input type="text" value="Enabled"/>
Settings Access*	<input type="text" value="Enabled"/>
Gratuitous ARP*	<input type="text" value="Enabled"/>
PC Voice VLAN Access*	<input type="text" value="Enabled"/>

Directory Number Configuration

[Configure Device \(SEP000B5FD22FE8\)](#)
[Dependency Records](#)

Associated With

SEP000B5FD22FE8
 7960 (Line 1)

Directory Number: 4000 (Phones)

Status: Ready
 Note: Any update to this Directory Number automatically resets the associated devices

Directory Number

Directory Number*
 Partition

Directory Number Settings

Voice Mail Profile
 (Choose <None> to use default)
 Calling Search Space
 AAR Group
 User Hold Audio Source
 Network Hold Audio Source
 Auto Answer

Call Forward and Pickup Settings

		Voice Mail Destination	Calling Search Space
Forward All	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" < None >"/>
Forward Busy	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" < None >"/>
Forward No Answer	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" < None >"/>
No Answer Ring Duration		<input type="text"/> (seconds)	
Call Pickup Group		<input type="text" value=" < None >"/>	

MLPP Alternate Party Settings

Target (Destination)
 Calling Search Space
 No Answer Ring Duration (seconds)

Line Settings for this Device

Display (Internal Caller ID)
 Line Text Label
 External Phone Number Mask

Message Waiting Lamp Policy	<input type="text" value="Use System Policy"/>
Ring Setting (Phone Idle)	<input type="text" value="Use System Default"/>
Ring Setting (Phone Active)**	<input type="text" value="Use System Default"/>
Multiple Call / Call Waiting Settings	
Maximum Number of Calls*	<input type="text" value="4"/> (1 - 200)
Busy Trigger*	<input type="text" value="2"/> (<= Max. Calls)
Forwarded Call Information Display	
<input checked="" type="checkbox"/> Caller Name	<input checked="" type="checkbox"/> Caller Number
<input checked="" type="checkbox"/> Redirected Number	<input checked="" type="checkbox"/> Dialed Number
<p>* indicates required item; changes to Line or Directory Number settings require restart. ** Ring Setting (Phone Active) applies to this line when any line on the phone has a call in progress.</p>	
<p>Note: If you are using a language other than English for Display (Internal Caller ID) or Line Text Label text, make sure the correct character set (shown below) is selected. Text displays incorrectly if the wrong characterset is selected. (English characters are included in all character sets.)</p>	
Character Set	<input type="text" value="Western European (Latin 1)"/>



Acronyms

Acronym	Definitions
CUCM	Cisco Unified CallManager



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Printed in the USA