



Cisco CallManager Release 4.0-PBX Interoperability: Avaya Definity G3 MV1.3 PBX to a Cisco 6608 Gateway using T1 QSIG with MGCP

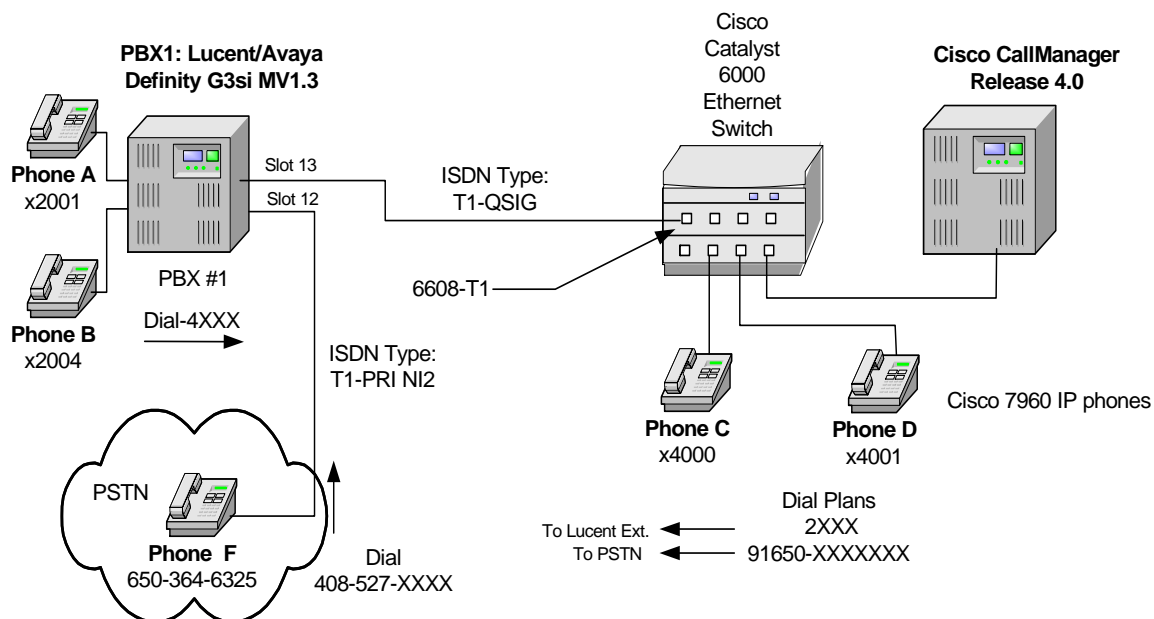
Introduction

- This is an Application Note for Connectivity of Lucent/Avaya Definity G3si MV1.3 Private Branch eXchange (PBX) with Cisco CallManager Release 4.0 using Cisco Catalyst 6000 Ethernet Switch 6608-T1 Q signaling (QSIG) voice gateway as Media Gateway Control Protocol (MGCP) gateway.
- The Network Topology diagram shows the test setup for end-to-end interoperability with the Cisco CallManager connected to the PBX via 6608-T1 QSIG voice gateway as MGCP gateway.
- Connectivity is achieved by using the primary rate interface (PRI) International Organization for Standardization (ISO) QSIG T1 protocol type on the MGCP gateway and QSIG protocol (with option “b” for Supplementary Service Protocol) on the Avaya PBX.
- Basic calls worked fine in both directions with Calling/Connected Name and Calling/Connected Number features support.



Network Topology

Basic Call Setup End-to-End Configuration



System Components

Hardware Requirements

- Cisco Hardware
 - Cisco Catalyst 6000 switch with 6608-T1 gateway
 - Cisco CallManager 4.0
- Lucent/Avaya Definity G3si MV1.3 PBX Hardware
 - TN464F, DS1 INTFC 24/32

Software Requirements

- PBX Software Release
 - PBX Software MV1.3
 - System: G3siV11 Software Version: R011i.03.0.526.5
- Cisco CallManager Release
 - Cisco CallManager 4.0



Features Supported

- CLIP-Calling Line (Number) Identification Presentation
- CLIR-Calling Line (Number) Identification Restriction
- CNIP-Calling Name Identification Presentation
- CNIR-Calling Name Identification Restriction
- COLP-Connected Line (Number) Identification Presentation
- COLR- Connected Line (Number) Identification Restriction
- CONP-Connected Name Identification Presentation
- CONR- Connected Name Identification Restriction
- CT-Call Transfer (by join)
- CFU-Call Forwarding Unconditional (by join)
- CFB-Call Forwarding Busy (by join)
- CFNR-Call Forwarding No Reply (by join)
- MWI- Message Waiting Indication (lamp ON, lamp OFF) ¹

Features Not Supported

- Cisco CallManager Release 4.0 does not support sending Alerting Name or Busy Name Identification information.

¹ MWI was tested with CallManager 4.0 configured with Cisco Unity as the message center PINX and PBX users as remote subscribers.



Configuration

Configuration Sequence and Tasks

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.
5. Configure Stations for qsig-MWI



Configuring the Lucent/Avaya Definity G3si MV1.3 PBX

DS1 Circuit Pack

Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

change ds1 a13 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 | 2 |

DS1 CIRCUIT PACK

Location:	01A13	Name:	T1 QSIG
Bit Rate:	1.544	Line Coding:	b8zs
Line Compensation:	1	Framing Mode:	esf
Signaling Mode:	isdn-pri	Interface:	peer-slave
Connect:	pbx	Peer Protocol:	Q-SIG
TN-C7 Long Timers?	n	Side:	b
Interworking Message:	PROGress	CRC?	n
Interface Companding:	mulaw	DCP/Analog Bearer Capability:	3.1kHz
Idle Code:	11111111		

Slip Detection? n

Near-end CSU Type:

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

Ready NUM



Signaling Group

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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

SIGNALING GROUP

Group Number: 13	Group Type: isdn-pri	Max number of NCA TSC: 5
Associated Signaling? u	Primary D-Channel: 01A1324	Max number of CA TSC: 23
Trunk Group for Channel Selection: 13	Supplementary Service Protocol: b	Trunk Group for NCA TSC: 13
		X-Mobility/Wireless Type: NONE

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

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Trunk Group

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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

Group Number: 13 Group Type: isdn CDR Reports:
Group Name: QSIG TIE to V9 COR: 1 TN: 1 TAC: 613
Direction: two-way Outgoing Display? Carrier Medium: PRI/BRI
Dial Access? 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: b Digit Handling (in/out): overlap/enbloc
Digit Treatment: Digits:
Trunk Hunt: ascend QSIG Value-Added?
Digital Loss Group: 13
Calling Number - Delete: Insert: Numbering Format: lev0-pvt
Bit Rate: 1200 Synchronization: async Duplex: full
Disconnect Supervision - In? Out?
Answer Supervision Timeout: 0

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Avaya Site Administration - [multivantage GEDI]

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?	<input type="checkbox"/> n	Measured:	<input type="text" value="none"/>	Wideband Support?	<input type="checkbox"/> n
		Internal Alert?	<input type="checkbox"/> n	Maintenance Tests?	<input checked="" type="checkbox"/> y
		Data Restriction?	<input type="checkbox"/> n	NCA-TSC Trunk Member:	<input type="text"/>
		Send Name:	<input checked="" type="checkbox"/> y	Send Calling Number:	<input checked="" type="checkbox"/> y
Used for DCS?	<input type="checkbox"/> n	Hop Dgt?	<input type="checkbox"/> n		
Suppress # Outpulsing?	<input type="checkbox"/> n	Numbering Format:	<input type="text" value="private"/>		
Outgoing Channel ID Encoding:	<input type="text" value="preferred"/>	UUI IE Treatment:	<input type="text" value="service-provider"/>		
Charge Conversion:	<input type="text" value="1"/>				
Decimal Point:	<input type="text" value="none"/>	Replace Restricted Numbers?	<input checked="" type="checkbox"/> y		
Currency Symbol:	<input type="text"/>	Replace Unavailable Numbers?	<input type="checkbox"/> n		
Charge Type:	<input type="text" value="units"/>	Send Called/Busy/Connected Number:	<input checked="" type="checkbox"/> y		
Send UUI IE?	<input type="checkbox"/> n				
Send UCID?	<input type="checkbox"/> n				
Send Codeset 6/7 LAI IE?	<input checked="" type="checkbox"/> y	Ds1 Echo Cancellation?	<input type="checkbox"/> n		
Path Replacement with Retention?	<input type="checkbox"/> n				
Path Replacement Method:	<input type="text" value="better-route"/>				
SBS?	<input type="checkbox"/> n	Network (Japan) Needs Connect Before Disconnect?	<input type="checkbox"/> n		

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

Ready



Avaya Site Administration - [multivantage GEDI]

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

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Avaya Site Administration - [multivantage GEDI]

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



Avaya Site Administration - [multivantage GEDI]

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 Req'd
	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

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Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

multivantage

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	Hop	Toll	No.	Inserted	DCS/ IXC
No	Mrk	Lmt	List	Del	Dgts			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

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

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CLIR (Calling Line Identification Restriction) Trunk Configuration

Avaya Site Administration - [multivantage GED1]

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 10

TRUNK FEATURES

ACA Assignment?	<input type="checkbox"/> n	Measured:	<input type="text" value="none"/>	Wideband Support?	<input type="checkbox"/> n
		Data Restriction?	<input type="checkbox"/> n	Maintenance Tests?	<input type="checkbox"/> y
		Send Name:	<input type="checkbox"/> y	NCA-TSC Trunk Member:	<input type="text"/>
Used for DCS?	<input type="checkbox"/> n	Hop Dgt?	<input type="checkbox"/> y	Send Calling Number:	<input type="text" value="r"/>
Suppress # Outpulsing?	<input type="checkbox"/> n	Numbering Format:	<input type="text" value="private"/>		
Outgoing Channel ID Encoding:	<input type="text" value="preferred"/>	UUI IE Treatment:	<input type="text" value="service-provider"/>		
Charge Conversion:	<input type="text" value="1"/>			Replace Restricted Numbers?	<input type="checkbox"/> y
Decimal Point:	<input type="text" value="none"/>			Replace Unavailable Numbers?	<input type="checkbox"/> n
Currency Symbol:	<input type="text"/>			Send Called/Busy/Connected Number:	<input type="checkbox"/> y
Charge Type:	<input type="text" value="units"/>				
Send UUI IE?	<input type="checkbox"/> n				
Send UCID?	<input type="checkbox"/> n				
Send Codeset 6/7 LAI IE?	<input type="checkbox"/> y			Ds1 Echo Cancellation?	<input type="checkbox"/> n
Path Replacement with Retention?	<input type="checkbox"/> n				
Path Replacement Method:	<input type="text" value="better-route"/>				
SBS?	<input type="checkbox"/> n	Network (Japan) Needs Connect Before Disconnect?			<input type="checkbox"/> n

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

Ready



COLR (Connected Line Identification Restriction) TrunkConfiguration

Avaya Site Administration - [multivantage GED1]

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 10

TRUNK FEATURES

ACA Assignment?	<input type="checkbox"/> n	Measured:	<input type="text" value="none"/>	Wideband Support?	<input type="checkbox"/> n
				Maintenance Tests?	<input checked="" type="checkbox"/> y
		Data Restriction?	<input type="checkbox"/> n	NCA-TSC Trunk Member:	<input type="text"/>
		Send Name:	<input checked="" type="checkbox"/> y	Send Calling Number:	<input checked="" type="checkbox"/> y
Used for DCS?	<input type="checkbox"/> n	Hop Dgt?	<input checked="" type="checkbox"/> y		
Suppress # Outpulsing?	<input type="checkbox"/> n	Numbering Format:	<input type="text" value="private"/>		
Outgoing Channel ID Encoding:	<input type="text" value="preferred"/>	UUI IE Treatment:	<input type="text" value="service-provider"/>		
Charge Conversion:	<input type="text" value="1"/>			Replace Restricted Numbers?	<input checked="" type="checkbox"/> y
Decimal Point:	<input type="text" value="none"/>			Replace Unavailable Numbers?	<input type="checkbox"/> n
Currency Symbol:	<input type="text"/>			Send Called/Busy/Connected Number:	<input checked="" type="checkbox"/> r
Charge Type:	<input type="text" value="units"/>				
Send UUI IE?	<input type="checkbox"/> n				
Send UCID?	<input type="checkbox"/> n				
Send Codeset 6/7 LAI IE?	<input checked="" type="checkbox"/> y			Ds1 Echo Cancellation?	<input type="checkbox"/> n
Path Replacement with Retention?	<input type="checkbox"/> n				
Path Replacement Method:	<input type="text" value="better-route"/>				
SBS?	<input type="checkbox"/> n	Network (Japan) Needs Connect Before Disconnect?			<input type="checkbox"/> n

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

Ready



CNIR/CONR (Calling/Connected Name Identification Restriction) Trunk Configuration

Avaya Site Administration - [multivantage GED1]

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 10

TRUNK FEATURES

ACA Assignment?	<input type="checkbox"/> n	Measured:	<input type="text" value="none"/>	Wideband Support?	<input type="checkbox"/> n
				Maintenance Tests?	<input checked="" type="checkbox"/> y
		Data Restriction?	<input type="checkbox"/> n	NCA-TSC Trunk Member:	<input type="text"/>
		Send Name:	<input type="text" value="r"/>	Send Calling Number:	<input checked="" type="checkbox"/> y
Used for DCS?	<input type="checkbox"/> n	Hop Dgt?	<input checked="" type="checkbox"/> y		
Suppress # Outpulsing?	<input type="checkbox"/> n	Numbering Format:	<input type="text" value="private"/>		
Outgoing Channel ID Encoding:	<input type="text" value="preferred"/>	UUI IE Treatment:	<input type="text" value="service-provider"/>		
Charge Conversion:	<input type="text" value="1"/>			Replace Restricted Numbers?	<input checked="" type="checkbox"/> y
Decimal Point:	<input type="text" value="none"/>			Replace Unavailable Numbers?	<input type="checkbox"/> n
Currency Symbol:	<input type="text"/>			Send Called/Busy/Connected Number:	<input checked="" type="checkbox"/> y
Charge Type:	<input type="text" value="units"/>				
Send UUI IE?	<input type="checkbox"/> n				
Send UCID?	<input type="checkbox"/> n				
Send Codeset 6/7 LAI IE?	<input checked="" type="checkbox"/> y			Ds1 Echo Cancellation?	<input type="checkbox"/> n
Path Replacement with Retention?	<input type="checkbox"/> n				
Path Replacement Method:	<input type="text" value="better-route"/>				
SBS?	<input type="checkbox"/> n	Network (Japan) Needs Connect Before Disconnect?			<input type="checkbox"/> n

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

Ready



Configuring the PSTN

PSTN DS1 Circuit Pack Configuration

The screenshot shows the Avaya Site Administration - [multivantage GED] window. The title bar includes the application name and standard window controls. The menu bar contains File, Edit, View, System, Action, Tools, Window, and Help. The toolbar includes icons for file operations and a search field containing 'multivantage'. The main area displays the configuration for a DS1 Circuit Pack, with a dropdown menu set to 'change ds1 a12' and a row of function keys: send (return), help (f5), cancel (esc), enter (f3), schedule (f9), next (f7), and previous (f8). The configuration fields are as follows:

DS1 CIRCUIT PACK	
Location:	01A12
Bit Rate:	1.544
Line Compensation:	1
Signaling Mode:	isdn-pri
Connect:	network
TN-C7 Long Timers?	n
Interworking Message:	PROGress
Interface Companding:	mulaw
Idle Code:	11111111
Name:	T1 PSTN PRI
Line Coding:	b8zs
Framing Mode:	esf
Country Protocol:	1
Protocol Version:	b
CRC?	n
DCP/Analog Bearer Capability:	3.1kHz
Slip Detection?	y
Near-end CSU Type:	other

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 Signaling Group

Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

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

1 2 3 4 5

SIGNALING GROUP

Group Number: 12 Group Type: isdn-pri

Associated Signaling? Max number of NCA TSC:

Primary D-Channel: Max number of CA TSC:

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

Supplementary Service Protocol: X-Mobility/Wireless Type:

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

Ready



PSTN Trunk Configuration

Avaya Site Administration - [multivantage GEDI]

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 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



Avaya Site Administration - [multivantage GEDI]

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: UI IE Treatment:
Replace Restricted Numbers?
Replace Unavailable Numbers?
Send Connected Number:
Send UI 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



Avaya Site Administration - [multivantage GEDI]

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)

Avaya Site Administration - [multivantage GEDI]

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:

Abbreviated Dialing List2 Access Code:

Abbreviated Dialing List3 Access Code:

Abbreviated Dial - Prgm Group List Access Code:

Announcement Access Code:

Answer Back Access Code:

Auto Alternate Routing (AAR) Access Code:

Auto Route Selection (ARS) - Access Code 1: Access Code 2:

Automatic Callback Activation: Deactivation:

Call Forwarding Activation Busy/DA: All: Deactivation:

Call Park Access Code:

Call Pickup Access Code:

CAS Remote Hold/Answer Hold-Unhold Access Code:

CDR Account Code Access Code:

Change COR Access Code:

Change Coverage Access Code:

Data Origination Access Code:

Data Privacy Access Code:

Directed Call Pickup Access Code:

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

Ready



PSTN Dialing Plan

Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

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 Reqd
	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

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

Ready NUM



Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

multivantage

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	To11 List	No. Del	Inserted Dgts	DCS/ QSIG Intw	IXC
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
1:	y y y y y n	n		rest					nat1-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

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

Ready NUM



Configure Station for QSIG MWI

Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

change station 2001 send [return] help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4

STATION

Extension: 2001	Lock Messages? <input type="checkbox"/> n	BCC: 0
Type: 6408D+	Security Code: <input type="text"/>	TN: <input type="checkbox"/> 1
Port: 01A0404	Coverage Path 1: <input type="text"/>	COR: <input type="checkbox"/> 1
Name: Sadie the horse	Coverage Path 2: <input type="text"/>	COS: <input type="checkbox"/> 1
	Hunt-to Station: <input type="text"/>	

STATION OPTIONS

Loss Group: <input type="checkbox"/> 2	Personalized Ringing Pattern: <input type="checkbox"/> 1
Data Module? <input type="checkbox"/> n	Message Lamp Ext: <input type="text"/> 2001
Speakerphone: <input type="checkbox"/> 2-way	Mute Button Enabled? <input type="checkbox"/> u
Display Language: <input type="text"/> english	
	Media Complex Ext: <input type="text"/>
	IP SoftPhone? <input type="checkbox"/> n
	Remote Office Phone? <input type="checkbox"/> n

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

Ready NUM



Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

change station 2001 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4

STATION

FEATURE OPTIONS

LWC Reception:	none	Auto Select Any Idle Appearance?	n
LWC Activation?	y	Coverage Msg Retrieval?	y
LWC Log External Calls?	n	Auto Answer:	none
CDR Privacy?	n	Data Restriction?	n
Redirect Notification?	y	Idle Appearance Preference?	n
Per Button Ring Control?	n	Restrict Last Appearance?	y
Bridged Call Alerting?	n		
Active Station Ringing:	single		
H.320 Conversion?	n	Per Station CPN - Send Calling Number?	
Service Link Mode:	as-needed		
Multimedia Mode:	basic	Audible Message Waiting?	n
MWI Served User Type:	qsiq-mwi	Display Client Redirection?	n
		Select Last Used Appearance?	n
		Coverage After Forwarding?	s
		Multimedia Early Answer?	n
		Direct IP-IP Audio Connections?	y
		IP Audio Hairpinning?	y
Emergency Location Ext:	2001		

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

Ready NUM



Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

change station 2001 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4

STATION

SITE DATA

Room:	<input type="text"/>	Headset?	<input type="text" value="n"/>
Jack:	<input type="text"/>	Speaker?	<input type="text" value="n"/>
Cable:	<input type="text"/>	Mounting:	<input type="text" value="d"/>
Floor:	<input type="text"/>	Cord Length:	<input type="text" value="0"/>
Building:	<input type="text"/>	Set Color:	<input type="text"/>

ABBREVIATED DIALING

List1:	<input type="text"/>	List2:	<input type="text"/>	List3:	<input type="text"/>
--------	----------------------	--------	----------------------	--------	----------------------

BUTTON ASSIGNMENTS

1:	<input type="text" value="call-appr"/>	5:	<input type="text"/>
2:	<input type="text" value="call-appr"/>	6:	<input type="text"/>
3:	<input type="text" value="call-appr"/>	7:	<input type="text" value="call-fwd"/> Ext: <input type="text"/>
4:	<input type="text"/>	8:	<input type="text" value="cfwd-bsyda"/> Ext: <input type="text"/>

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

Ready



Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

change station 2001 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2 3 4

STATION

SOFTKEY BUTTON ASSIGNMENTS

1: **directory**

2: **drop**

3: **int-aut-an**

4: **timer**

5: **priority**

6: **auto-cback**

7: **abr-prog**

8: **abr-spchar** Char: ~p

9: **lwc-store**

10: **ringer-off**

11: **btn-view**

12: **admin**

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

Ready NUM



Configuring Cisco CallManager

6608-T1 Gateway Configuration

Cisco CallManager 4.0 Administration - Gateway Configuration - Microsoft Internet Explorer

Address: <http://cm-klngon/CCMAdmin/gatewayconfig.asp?pkid={DF71136E-4975-4B2C-BDE6-C24A840B4ABC}&type=1>

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

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 ISO QSIG T1"/>
Protocol Side*	<input type="text" value="Network"/>
Channel Selection Order*	<input type="text" value="Top Down"/>
Channel IE Type*	<input type="text" value="Timeslot Number"/>

Local intranet



Cisco CallManager 4.0 Administration - Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://cm-klngon/CCMAdmin/gatewayconfig.asp?pkid={DF71136E-4975-4B2C-BDE6-C24A840B4ABC}&type=1> Go Links >>

PCM Type*	<input type="text" value="µLaw"/>
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****

Local intranet



Cisco CallManager 4.0 Administration - Gateway Configuration - Microsoft Internet Explorer

Address: http://cm-klington/CCMAdmin/gatewayconfig.asp?pkid={DF71136E-4975-4B2C-BDE6-C24A840B4ABC}&type=1

MCDN Channel Number Extension Bit Set to Zero**

Send Calling Name In Facility IE

Interface Identifier Present**

Interface Identifier Value**

Connected Line ID Presentation (QSIG Inbound Call)*

Connected PBX Model

Product Specific Configuration

Clock Reference*

TX-Level CSU*

FDL Channel*

Framing*

Audio Signal Adjustment into IP Network*

Audio Signal Adjustment from IP Network*

Yellow Alarm*

Zero Suppression*

Digit On Duration(50-500ms)*

Interdigit Duration(50-500msec)*

SNMP Community String

Disable SNMP Set operations*

Debug Port Enable*

Hold Tone Silence Duration*

Port Used for Voice Calls*

Port Used for Modem Calls*

Port Used for Fax Calls*

Fax and Modem Parameters

Fax Relay Enable*

Fax Error Correction Mode Override*

Maximum Fax Rate*



Cisco CallManager 4.0 Administration - Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://cm-klngon/CCMAdmin/gatewayconfig.asp?pkid={DF71136E-4975-4B2C-BDE6-C24A840B4ABC}&type=1> Go Links >>

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](#)

Local intranet



Partitions Configuration

The screenshot shows the Cisco CallManager 4.0 Administration interface in Microsoft Internet Explorer. The browser title is "Cisco CallManager 4.0 Administration - Find and List Partitions - Microsoft Internet Explorer". The address bar shows the URL: `http://cm-kingon/CCMAdmin/routepartitionlist.asp?findBy=name&match=begins&pattern=&submit1=Find&rows=20`. The page has a navigation menu with items: System, Route Plan, Service, Feature, Device, User, Application, Help. The main heading is "Find and List Partitions" with a link "Add a New Partition". Below the heading, it says "2 matching record(s) for Partition Name begins with """. There is a search form with "Find Partitions where Partition Name" followed by a dropdown menu set to "begins with", an empty text input field, and a "Find" button. Below the search form, it says "and show 20 items per page" and "To list all items, click Find without entering any search text." The search results are displayed in a table with the heading "Matching record(s) 1 to 2 of 2". The table has two columns: "Partition Name" and "Description". The first row is "Incoming Trunk" with description "Incoming Trunk". The second row is "Phones" with description "Phones". Below the table, there is a "Delete Selected" button, navigation links "First Previous Next Last", and a page indicator "Page 1 of 1". The status bar at the bottom shows "Local intranet".

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

Find and List Partitions [Add a New Partition](#)

2 matching record(s) for Partition Name begins with ""

Find Partitions where Partition Name

and show items per page

To list all items, click Find without entering any search text.

Matching record(s) 1 to 2 of 2

<input type="checkbox"/>	Partition Name	Description
<input type="checkbox"/>	Incoming Trunk	Incoming Trunk
<input type="checkbox"/>	Phones	Phones

First Previous Next Last Page of 1

Local intranet



Calling Search Space Configuration

The screenshot shows the Cisco CallManager 4.0 Administration web interface in Microsoft Internet Explorer. The browser title is "Cisco CallManager 4.0 Administration - Calling Search Space Configuration - Microsoft Internet Explorer". The address bar shows the URL: `http://cm-klngon/CCMAdmin/callingsearchspace.asp?pkid={9106F9C5-B86A-4C9E-A3A3-BA0F27017989}`. The navigation menu includes System, Route Plan, Service, Feature, Device, User, Application, and Help. The main header displays "Cisco CallManager Administration For Cisco IP Telephony Solutions" and the Cisco Systems logo.

Calling Search Space Configuration

[Add New Calling Search Space](#)
[Back to Find/List Calling Search Spaces](#)
[Dependency Records](#)

Calling Search Space: Incoming Trunk
Status: Ready

Copy Update Delete Restart Devices

Calling Search Space Information

Calling Search Space Name* Incoming Trunk
Description

Route Partitions for this Calling Search Space

Find Partitions containing Find
Available Partitions Phones
Selected Partitions* (ordered by highest priority) Incoming Trunk

* indicates required item

Local intranet



Cisco CallManager 4.0 Administration - Calling Search Space Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://cm-klington/CCMAdmin/callingsearchspace.asp?pkid={607F7659-E6E6-4AB2-A2CC-3A124448754B} Go Links

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Calling Search Space Configuration

[Add New Calling Search Space](#)
[Back to Find/List Calling Search Spaces](#)
[Dependency Records](#)

Calling Search Space: Phones (in use)
Status: Ready

Copy Update Delete Restart Devices

Calling Search Space Information

Calling Search Space Name* Phones
Description

Route Partitions for this Calling Search Space

Find Partitions containing Find
Available Partitions Incoming Trunk

Selected Partitions* (ordered by highest priority) Phones

* indicates required item

Done Local intranet



Enbloc Route Pattern Configuration

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://cm-klngon/CCMAdmin/routepatternconfig.asp?pkid={C26A5255-B1A4-403E-A274-612D32EE2E60}> Go Links

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"/>

Done Local intranet



Overlap Sending Route Pattern Configuration

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://cm-klington/CCMAdmin/routepatternconfig.asp?pkid={E959BFF6-5645-4444-9E24-2768AFCAAD03}

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

Copy Update Delete

Pattern Definition

Route Pattern/Hunt Pilot* 9.X

Partition < None >

Description

Numbering Plan* North American Numbering Plan

Route Filter < None >

MLPP Precedence Default

Gateway or Route/Hunt List* S0/DS1-0@SDA0001C9D93A98 (Edit)

Route Option

Route this pattern

Block this pattern - Not Selected -

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 Default

Calling Name Presentation Default

Connected Party Transformations

Connected Line ID Presentation Default

Connected Name Presentation Default

Called Party Transformations

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol - Not Selected -

Network Service Service Parameter Name Service Parameter Value

- Not Selected - < Not Exist >

Done Local intranet



PSTN Route Pattern Configuration

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

Address: http://cm-klngon/CCMAdmin/routepatternconfig.asp?pkid={A0E58AC2-80ED-4857-9D43-DCC43AA6EA56}

Route Pattern/Hunt Pilot: 91650XXXXXX

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* 91650XXXXXX

Partition < None >

Description

Numbering Plan* North American Numbering Plan

Route Filter < None >

MLPP Precedence Default

Gateway or Route/Hunt List* S0/DS1-0@SDA0001C9D93A98 (Edit)

Route Option

Route this pattern

Block this pattern — Not Selected —

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) 408527

Calling Line ID Presentation Default

Calling Name Presentation Default

Connected Party Transformations

Connected Line ID Presentation Default

Connected Name Presentation Default

Called Party Transformations

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol — Not Selected —

Network Service Service Parameter Name Service Parameter Value

— Not Selected — < Not Exist >

Done Local intranet



Route Pattern for Remote Voicemail Subscribers (Avaya Stations)

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://cm-klngon/CCMAdmin/routepatternconfig.asp?pkid={7A752694-A84D-414D-92BD-EA4733151573}

Route Pattern/Hunt Pilot: 111.2XXX

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*	111.2XXX
Partition	< None >
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route/Hunt List*	S0/DS1-0@SDA0001C9D93A98 (Edit)
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern
	<input type="checkbox"/> Provide Outside Dial Tone <input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> 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	Default
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

Discard Digits	PreDot
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	

ISDN Network-Specific Facilities Information Element

Carrier Identification Code		
Network Service Protocol	< Not Selected >	
Network Service	Service Parameter Name	Service Parameter Value
< Not Selected >	< Not Exist >	

Done Local intranet



Route Pattern for Cisco Unity Voicemail

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

Address: http://cm-kingon/CCMAdmin/routepatternconfig.asp?pkid={00F4BC16-DECD-4E94-86B8-E7156C5006B7}

Route Pattern/Hunt Pilot: 499X

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*	499X
Partition	Phones
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route/Hunt List*	UnityHuntList (Edit)
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern — Not Selected —

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	Default
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

Discard Digits	< None >
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	

ISDN Network-Specific Facilities Information Element

Carrier Identification Code		
Network Service Protocol	— Not Selected —	
Network Service	Service Parameter Name	Service Parameter Value
— Not Selected —	< Not Exist >	



Cisco Unity Voicemail HuntList

The screenshot shows the Cisco CallManager 4.0 Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `http://cm-kingon/CCMAdmin/routelistmainconfig.asp?pkid={C0689627-534D-45CA-AACA-90A2C00FE547}`. The page title is "Cisco CallManager Administration - Route/Hunt List Configuration".

The main content area is titled "Route/Hunt List Configuration" and features a navigation menu at the top: System, Route Plan, Service, Feature, Device, User, Application, Help. Below the navigation menu is the Cisco CallManager Administration logo and the Cisco Systems logo.

The configuration page is for a "Route/Hunt List: UnityHuntList" with a status of "Ready". It includes several sections:

- Route/Hunt List Details:** A sidebar on the left shows "CiscoUM1" as the selected group.
- Route/Hunt List Information:** Contains fields for "Route/Hunt List Name*" (UnityHuntList), "Description", and "Cisco CallManager Group*" (Default). A checkbox "Enable this Route/Hunt List" is checked.
- Route/Hunt List Member Information:** Includes buttons for "Add Route Group" and "Add Line Group". A list of "Selected Groups*" (ordered by highest priority) contains "CiscoUM1". A "Removed Groups" section is empty.

Buttons for "Copy", "Update", "Delete", and "Reset" are located below the "Status" field. A note at the bottom states: "* indicates required item".



Cisco Unity Voicemail Line Group

Cisco CallManager 4.0 Administration - Line Group Configuration - Microsoft Internet Explorer

Address: http://cm-kingon/CCMAdmin/linegroupconfig.asp?Action=Update&pkid={A31668E7-267F-4CF3-A540-3034B3169534}

Line Group Configuration

[Add new Line Group](#)
[Back to Find/List Line Groups](#)
[Dependency Records](#)

Directory Numbers

- 7710 4990
- 7719 4991

Line Group: CiscoUM1
Status: Ready

Line Group Information

Line Group Name*

RNA Reversion Timeout*

Distribution Algorithm*

Hunt Options

No Answer*

Busy**

Not Available**

Line Group Member Information

Find Directory Numbers to add to Line Group

Route Partition

Directory Numbers Contains

Available DN/Route Partition
(Do not include directory numbers of application-controlled IP phones, or application-monitored IP phones in the line group.)

Current Line Group Members

Selected DN/Route Partition*

Removed DN/Route Partition
(to be removed from Line Group when you click Update)

Done Local intranet



Cisco Unity Subscriber

Cisco Unity - Subscribers - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address <http://unity1/Web/SA/FrameASP/SubsFrame.asp?DirId=92eccfa82a96604189bd793312a43379&Alias=SAvaya&Server=> Go Links »

Subscribers

- [Profile](#)
- [Account](#)
- [Phone Password](#)
- [Private Lists](#)
- [Conversation](#)
- [Call Transfer](#)
- [Greetings](#)
- [Caller Input](#)
- [Messages](#)
- [Message Notification](#)
- [Alternate Extensions](#)

Sadie Avaya

Profile

Subscriber Information

First name:

Last name:

Display name:

Class of service: [View](#)

Extension:

Fax ID:

Recorded voice: Volume

Active schedule: [View](#)

Time zone:

Set subscriber for self-enrollment at next login

List in phone directory

Show subscriber in e-mail server address book

Exchange Information

Alias:

Server:

[Log off](#)

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Local intranet



Translation Pattern for Incoming Calls

Cisco CallManager 4.0 Administration - Translation Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://cm-klington/CCMAdmin/translationconfig.asp?pkid={89B55D17-7179-4943-A5CF-EED9D09BF290}> Go Links

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 4XXX
Status: Ready

Copy Update Delete

Pattern Definition

Translation Pattern	<input type="text" value="4XXX"/>
Partition	Incoming Trunk
Description	<input type="text"/>
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	Phones
MLPP Precedence	Default
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="-- Not Selected --"/>

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	Default
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

Discard Digits	< None >
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

* indicates required item.

Done Local intranet



PSTN Route Pattern Configuration

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

Address: http://cm-klngon/CCMAdmin/routepatternconfig.asp?pkid={A0E58AC2-80ED-4857-9D43-DCC43AA6EA56}

Route Pattern/Hunt Pilot: 91650XXXXXX

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* 91650XXXXXX
Partition < None >
Description
Numbering Plan* North American Numbering Plan
Route Filter < None >
MLPP Precedence Default
Gateway or Route/Hunt List* S0/DS1-0@SDA0001C9D93A98 (Edit)
Route Option
 Route this pattern
 Block this pattern - Not Selected -

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) 408527
Calling Line ID Presentation Default
Calling Name Presentation Default

Connected Party Transformations

Connected Line ID Presentation Default
Connected Name Presentation Default

Called Party Transformations

Discard Digits < None >
Called Party Transform Mask
Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code
Network Service Protocol - Not Selected -
Network Service Service Parameter Name Service Parameter Value
- Not Selected - < Not Exist >

Done Local intranet



CLIR Route Pattern Configuration

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

Address: http://cm-kingon/CCMAdmin/routepatternconfig.asp?pkid={C26A5255-B1A4-403E-A274-612D3EE2E60}&status=uc

Route Pattern/Hunt Pilot: 2XXX

Status: Update completed
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*	2XXX	
Partition	< None >	
Description		
Numbering Plan*	North American Numbering Plan	
Route Filter	< None >	
MLPP Precedence	Default	
Gateway or Route/Hunt List*	S0/DS1-0@SDA0001C9D93A98 (Edit)	
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern — Not Selected —	
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending	<input type="checkbox"/> 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	Restricted
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

Discard Digits	< None >
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	

ISDN Network-Specific Facilities Information Element

Carrier Identification Code		
Network Service Protocol	— Not Selected —	
Network Service	Service Parameter Name	Service Parameter Value
— Not Selected —	< Not Exist >	

Local intranet



CNIR Route Pattern Configuration

Cisco CallManager 4.0 Administration - Route Pattern/Hunt Pilot Configuration - Microsoft Internet Explorer

Address: http://cm-klngon/CCMAdmin/routepatternconfig.asp?pkid={C26A5255-B1A4-403E-A274-612D32EE2E60}&status=uc

Route Pattern/Hunt Pilot: 2XXX

Status: Update completed
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* 2XXX

Partition < None >

Description

Numbering Plan* North American Numbering Plan

Route Filter < None >

MLPP Precedence Default

Gateway or Route/Hunt List* S0/DS1-0@SDA0001C9D93A98 (Edit)

Route Option

Route this pattern

Block this pattern -- Not Selected --

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 Default

Calling Name Presentation Restricted

Connected Party Transformations

Connected Line ID Presentation Default

Connected Name Presentation Default

Called Party Transformations

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol -- Not Selected --

Network Service	Service Parameter Name	Service Parameter Value
-- Not Selected --	< Not Exist >	

Done Local intranet



COLR Translation Pattern Configuration

Cisco CallManager 4.0 Administration - Translation Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://cm-klngon/CCMAdmin/translationconfig.asp?pkid={89B55D17-7179-4943-A5CF-EED9D09BF290}&status=uc

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 4XXX
Status: Update completed

Copy Update Delete

Pattern Definition

Translation Pattern	4XXX
Partition	Incoming Trunk
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	Phones
MLPP Precedence	Default
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern -- Not Selected --
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input checked="" type="checkbox"/> 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	Default
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Restricted
Connected Name Presentation	Default

Called Party Transformations

Discard Digits	< None >
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	

* indicates required item.

Done Local intranet



CONR Translation Pattern Configuration

Cisco CallManager 4.0 Administration - Translation Pattern Configuration - Microsoft Internet Explorer

Address: http://cm-kingon/CCMAdmin/translationconfig.asp?pkid={89B55D17-7179-4943-A5CF-EED9D09BF290}&status=uc

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 4XXX
Status: Update completed

Copy Update Delete

Pattern Definition

Translation Pattern	4XXX
Partition	Incoming Trunk
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	Phones
MLPP Precedence	Default
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern — Not Selected —
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input checked="" type="checkbox"/> 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	Default
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Restricted

Called Party Transformations

Discard Digits	< None >
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	

* indicates required item.

Done Local intranet



7960 IP phone Configuration

Cisco CallManager 4.0 Administration - Phone Configuration - Microsoft Internet Explorer

Address: <http://cm-klngon/CCMAdmin/phoneconfig.asp?pkid={23EE0A35-0B85-42D6-8B13-18D674D3F2CE}>

Phone Configuration

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

Directory Numbers

Base Phone

- Line 1 - 4000 in 7795 Phones
- Line 2 - Add new DN 7795

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*	<input type="text" value="Standard 7960"/> (View button list)
------------------------	---

Softkey Template Information

Softkey Template	<input type="text" value="< None >"/>
------------------	---

Expansion Module Information

Module 1	<input type="text" value="< None >"/>
Module 2	<input type="text" value="< None >"/>

Local intranet



Cisco CallManager 4.0 Administration - Phone Configuration - Microsoft Internet Explorer

Address: http://cm-kingon/CCMAdmin/phoneconfig.asp?pkid={23EE0A35-0B85-42D6-8B13-18D674D3F2CE}

Firmware Load Information (leave blank to use default)

Phone Load Name

Module 1 Load Name (Module 1 selection required)

Module 2 Load Name (Module 2 selection required)

Cisco IP Phone - External Data Locations (leave blank to use default)

Information

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

Extension Mobility (Device Profile) Information

Enable Extension Mobility Feature

Log Out Profile

Log In User ID

Log In Time

Log Out Time

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain (e.g., "0000FF")

MLPP Indication

MLPP Preemption

Product Specific Configuration

Disable Speakerphone

Disable Speakerphone and Headset

Forwarding Delay*

PC Port*

Settings Access*

Gratuitous ARP*

PC Voice VLAN Access*

Local intranet



Cisco CallManager 4.0 Administration - Directory Number Configuration - Microsoft Internet Explorer

Address: http://cm-klington/CCMAdmin/directorynumber.asp?NumPlanMapID={FDF4C8AE-583C-4480-9C58-36FC82BAA685}

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

Update Remove from Device Reset Devices

Directory Number
Directory Number* 4000
Partition Phones

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

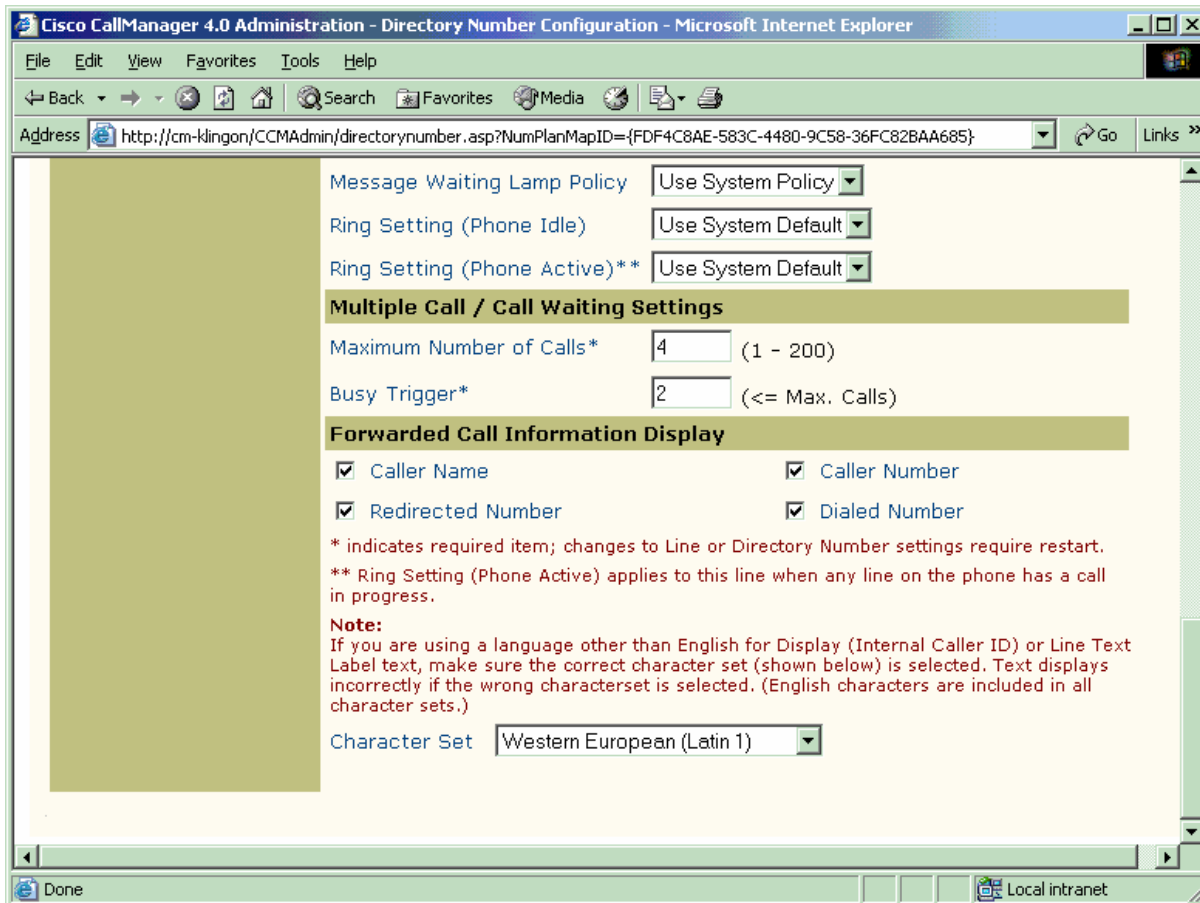
Call Forward and Pickup Settings

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

MLPP Alternate Party Settings
Target (Destination)
Calling Search Space <None >
No Answer Ring Duration (seconds)

Line Settings for this Device
Display (Internal Caller ID) JOHN DOE
Line Text Label
External Phone Number Mask

Done Local intranet



Acronyms

Acronym	Definitions
CCM	Cisco CallManager
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CNIP	Calling Name Identification Presentation
CNIR	Calling Name Identification Restriction
COLP	Connected Line (Number) Identification Presentation
COLR	Connected Line (Number) Identification Restriction



CONP	Connected Name Identification Presentation
CONR	Connected Name Identification Restriction
CT	Call Transfer
MWI	Message Waiting Indicator
PSTN	Public Switched Telephone Network

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