CISCO SYSTEMS

Cisco CallManager 4.0-PBX Interoperability: Lucent/Avaya Definity G3 MV1.3 PBX using 6608-T1 PRI NI2 with MGCP

Introduction

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

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

Network Topology

The following diagram shows the test setup for end-to-end interoperability with the Cisco CallManager connected to the PBX via 6608-T1 PRI link as MGCP gateway.

Basic Call Setup End-to-End Configuration
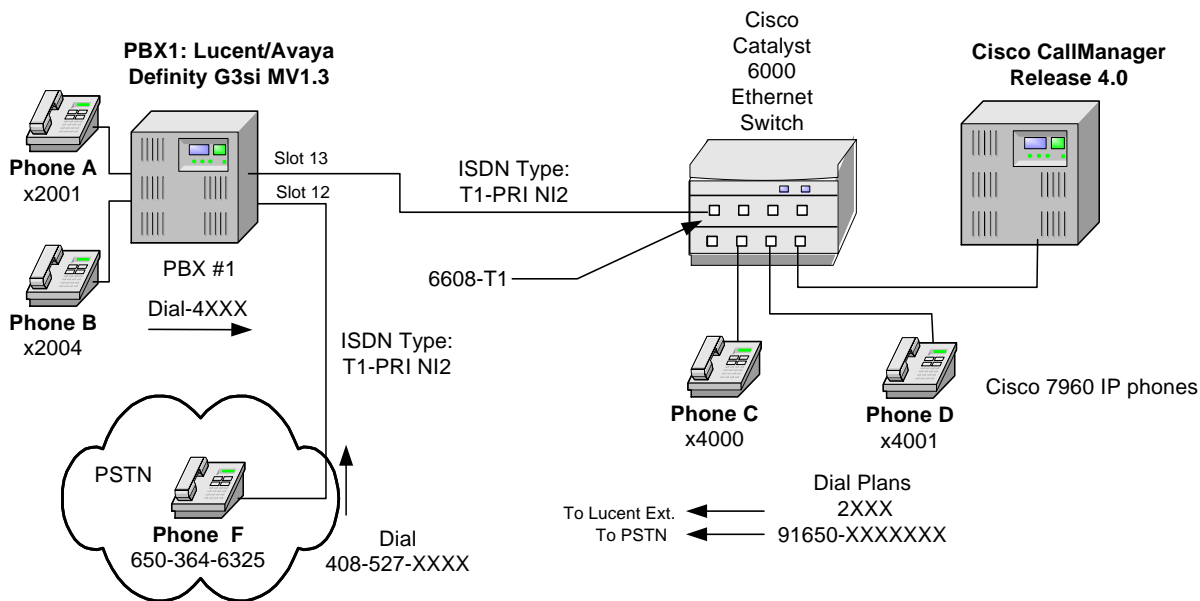
Limitations

When calling from a Lucent/Avaya digital phone to a Cisco 7960 IP phone, the Cisco IP phone displays the Calling Name and Number after the call is answered. The Lucent/Avaya phone displays "Connected Name" but does not display "Connected Number". The Cisco CallManager PRI trunk does not support sending "Connected Number" information in the connect message back to PBX.

EDCS# 352342

System Components

Hardware Requirements

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

Software Requirements

- PBX Software Release MV1.3
- Cisco CallManager Release 4.0

Features

Key Features Supported

- Calling/Called Number
- Calling/Connected Name

Key features not supported

- Connected Number not supported on CallManager 4.0

Configuration

Configuring the Lucent/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.

DS1 Circuit Pack

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Avaya Site Administration - [multivantage GEDI]                          _ □ ×
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[toolbar icons]  [multivantage ▼] [icons]

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 PRI
          Bit Rate: 1.544              Line Coding: b8zs
    Line Compensation: 1              Framing Mode: esf
       Signaling Mode: isdn-pri
              Connect: line-side
   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? y              Near-end CSU Type: other
                Alarm When PRI Endpoint Detached? y






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Signaling Group

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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? y          Max number of NCA TSC: 5
                          Primary D-Channel: 01A1324     Max number of CA TSC: 23
                                                      Trunk Group for NCA TSC: 13
           Trunk Group for Channel Selection: 13     X-Mobility/Wireless Type: NONE
                  Supplementary Service Protocol: a

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Trunk Group

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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-pvt
               Bit Rate: 1200      Synchronization: async    Duplex: full
  Disconnect Supervision - In? y  Out? y
  Answer Supervision Timeout: 0
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 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? n          Measured: none       Wideband Support? n
                                     Internal Alert? n         Maintenance Tests? y
                                  Data Restriction? n         NCA-TSC Trunk Member: [  ]
                                        Send Name: y          Send Calling Number: y

              Used for DCS? n
      Suppress # Outpulsing? n     Numbering Format: private
 Outgoing Channel ID Encoding: preferred      UUI IE Treatment: service-provider
          Charge Conversion: 1
            Decimal Point: none                 Replace Restricted Numbers? y
           Currency Symbol: [  ]               Replace Unavailable Numbers? n
             Charge Type: units                   Send Connected Number: y

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

                                       US NI Delayed Calling Name Update? n

            SBS? n  Network (Japan) Needs Connect Before Disconnect? n




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`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
   GROUP MEMBER ASSIGNMENTS      Total Administered Members:  23


          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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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
    GROUP MEMBER ASSIGNMENTS      Total Administered Members:  23

          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:            [        ]  [        ]   [  ]

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Uniform Dialing Plan

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

1 | 2 | 3 |

DIAL PLAN ANALYSIS TABLE

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						

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Ready   NUM

Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

change uniform-dialplan 4 | send (return) | help (f5) | cancel (esc) | enter (f3) | schedule (f9) | next (f7) | previous (f8)

| 1 | 2 |

UNIFORM DIAL PLAN TABLE

Percent Full: 0

Matching Pattern	Len	Del	Insert Digits	Net	Conv	Node Num	Matching Pattern	Len	Del	Insert Digits	Net	Conv	Node Num
4	4	0	444	aar	n							n	
5	4	0	555	aar	n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	
					n							n	

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Avaya Site Administration - [multivantage GEDI]

File Edit View System Action Tools Window Help

`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 Min	Max	Route Pattern	Call Type	Node Num	ANI Reqd
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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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 FRL NPA Pfx Hop Toll No.  Inserted                          DCS/ IXC
        No          Mrk Lmt List Del  Digits                            QSIG
                                 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][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]



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PSTN DS1 Circuit Pack Configuration

Avaya Site Administration - [multivantage GEDI]

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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? y          Near-end CSU Type: other
```

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PSTN Signaling Group

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: MV1.2 to PSTN on V6     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
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Right-click in a field to see a list of valid entries or help text

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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? n         Measured: none      Wideband Support? n
                                                               Maintenance Tests? y
                               Data Restriction? n    NCA-TSC Trunk Member:
                                    Send Name: y     Send Calling Number: y
                 Used for DCS? n
         Suppress # Outpulsing? n    Numbering Format: public
     Outgoing Channel ID Encoding: preferred    UUI IE Treatment: service-provider

                                              Replace Restricted Numbers? n
                                             Replace Unavailable Numbers? n
                                                  Send Connected Number: y

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

                                       US NI Delayed Calling Name Update? n

              SBS? n   Network (Japan) Needs Connect Before Disconnect? n
```

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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

INCOMING CALL HANDLING TREATMENT

Service/ Feature	Called Len	Called Number	Del	Insert	Per Call CPN/BN	Night Serv
public-ntwrk	10	408527	6			

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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
    GROUP MEMBER ASSIGNMENTS   Total Administered Members: 15

           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

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PSTN Access Code (9)

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 File  Edit  View  System  Action  Tools  Window  Help                        _ ≅ ×

 [toolbar icons]                    multivantage          ▼ [icons]

 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: [8 ]
        Auto Route Selection (ARS) - Access Code 1: [9 ]      Access Code 2: [    ]
                  Automatic Callback Activation: [    ]      Deactivation: [    ]
       Call Forwarding Activation Busy/DA: [*66 ]  All: [*67 ]  Deactivation: [*69 ]
                     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: [    ]




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PSTN Dialing Plan

Avaya Site Administration - [multivantage GEDI]

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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 Min	Max	Route Pattern	Call Type	Node Num	ANI Reqd
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

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

multivantage ▼

1

Pattern Number: 111 Pattern Name: [   ]

	Grp No	FRL	NPA	Pfx Mrk	Hop Lmt	Toll List	No. Del Dgts	Inserted Digits		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

	BCC VALUE 0 1 2 3 4 W	TSC	CA-TSC Request	ITC	BCIE Service/Feature	BAND	No. Dgts Subaddress	Numbering Format	LAR
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

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

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Configuring Cisco CallManager

6608-T1 Gateway Configuration

Cisco CallManager 4.0 Administration - Gateway Configuration - Microsoft Internet Explorer

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Back ▾ → ▾ ⊗ ⊡ ⟋ | ◯Search ⌗Favorites ⟋Media ⟋ | ⌗▾ ⟋

Address ⟋ http://cm-klingon/CCMAdmin/gatewayconfig.asp?pkid={DF71136E-4975-4B2C-BDE6-C24A840B4ABC}&type=1 | ⟋Go | Links »

PCM Type*	µ-law
Delay for first restart (1/8 sec ticks)	32
Delay between restarts (1/8 sec ticks)	4

☑ Inhibit restarts at PRI initialization

☑ Enable status poll

Call Routing Information

Inbound Calls

Significant Digits*	All
Calling Search Space	Incoming Trunk
AAR Calling Search Space	< None >
Prefix DN	

Outbound Calls

Calling Line ID Presentation*	Default
Calling Party Selection*	Originator
Called party IE number type unknown*	Unknown
Calling party IE number type unknown*	Unknown
Called Numbering Plan*	Private
Calling Numbering Plan*	Private
Number of digits to strip*	0
Caller ID DN	
SMDI Base Port*	0

PRI Protocol Type Specific Information

☑ Display IE Delivery

☑ Redirecting Number IE Delivery – Outbound

☑ Redirecting Number IE Delivery – Inbound

☑ Send Extra Leading Character In DisplayIE***

☐ Setup non-ISDN Progress Indicator IE Enable****

⟋ Local intranet

Cisco CallManager 4.0 Administration - Gateway Configuration - Microsoft Internet Explorer

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Back → Search Favorites Media

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

☐ MCDN Channel Number Extension Bit Set to Zero**

☐ Send Calling Name In Facility IE

☐ Interface Identifier Present**

Interface Identifier Value**	0
Connected Line ID Presentation (QSIG Inbound Call)*	Default
Connected PBX Model	None

Product Specific Configuration

Clock Reference*	Network
TX-Level CSU*	0dB
FDL Channel*	ATT 54016
Framing*	ESF
Audio Signal Adjustment into IP Network*	NoDbPadding
Audio Signal Adjustment from IP Network*	NoDbPadding
Yellow Alarm*	Bit2
Zero Suppression*	B8ZS
Digit On Duration(50-500ms)*	100
Interdigit Duration(50-500msec)*	100
SNMP Community String	public
Disable SNMP Set operations*	☐
Debug Port Enable*	☑
Hold Tone Silence Duration*	0
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*	14400bps

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

⇐ Back ▾ ⇒ ▾ ⊗ ② ⚑ | ② Search ⊞ Favorites ⊛ Media ③ | ⊵▾ ⊜

Address ⊜ http://cm-klingon/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*	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	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

Overlap Sending Route Pattern Configuration

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

File Edit View Favorites Tools Help

⇐ Back ▾ ⇒ ▾ ⊗ 🔄 ⌂ | 🔍 Search 📷 Favorites 🎬 Media 🌐 | 🔁▾ 🖨

Address http://cm-klingon/CCMAdmin/routepatternconfig.asp?pkid={E959BFF6-5645-4444-9E24-2768AFCAAD03} | ⌐Go Links »

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

File   Edit   View   Favorites   Tools   Help

⇐ Back ▾ → ▾ ⊗ ⊡ ⌂ | ⊗Search ⊠Favorites ⊜Media ⊗ | ⊞▾ ⊜

Address ⊜ http://cm-klingon/CCMAdmin/routepatternconfig.asp?pkid={A0E58AC2-80ED-4857-9D43-DCC43AA6EA56}   ▼ ⌐Go   Links »

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

[Copy]   [Update]   [Delete]

Pattern Definition

Route Pattern/Hunt Pilot*	91650XXXXXXX
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

7960 IP phone Configuration

Cisco CallManager 4.0 Administration - Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back   →   Stop   Refresh   Home   Search   Favorites   Media   History   Mail   Print

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

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 Phones

Line 2 - Add new DN

Phone: SEP000B5FD22FE8 (Auto 4000)
Registration: Registered with Cisco CallManager 172.20.32.254
IP Address: 172.20.32.102
Status: Ready

[Copy]   [Update]   [Delete]   [Reset Phone]

Phone Configuration (Model = Cisco 7960)

Device Information

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

Phone Button Template Information

Phone Button Template*	Standard 7960 (View button list)

Softkey Template Information

Softkey Template	< None >

Expansion Module Information

Module 1	< None >
Module 2	< None >

Local intranet

Cisco CallManager 4.0 Administration - Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

⇐ Back ▾ ⇒ ▾ ⊗ ⟳ ⌂ | ⊕ Search ⊞ Favorites ⊛ Media ⊛ | ⬚▾ ⊜

Address http://cm-klingon/CCMAdmin/phoneconfig.asp?pkid={23EE0A35-0B85-42D6-8B13-18D674D3F2CE}   ▾ ⬦Go   Links »

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	— Not Selected —
Log In User ID	< None >
Log In Time	< None >
Log Out Time	< None >

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain	(e.g., "0000FF")
MLPP Indication	Default
MLPP Preemption	Default

Product Specific Configuration   ⓘ

Disable Speakerphone	☐
Disable Speakerphone and Headset	☐
Forwarding Delay*	Disabled
PC Port*	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Enabled
PC Voice VLAN Access*	Enabled

⊟ Local intranet

Directory Number Configuration

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	☐		< None > ▼
Forward Busy	☐		< None > ▼
Forward No Answer	☐		< 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	
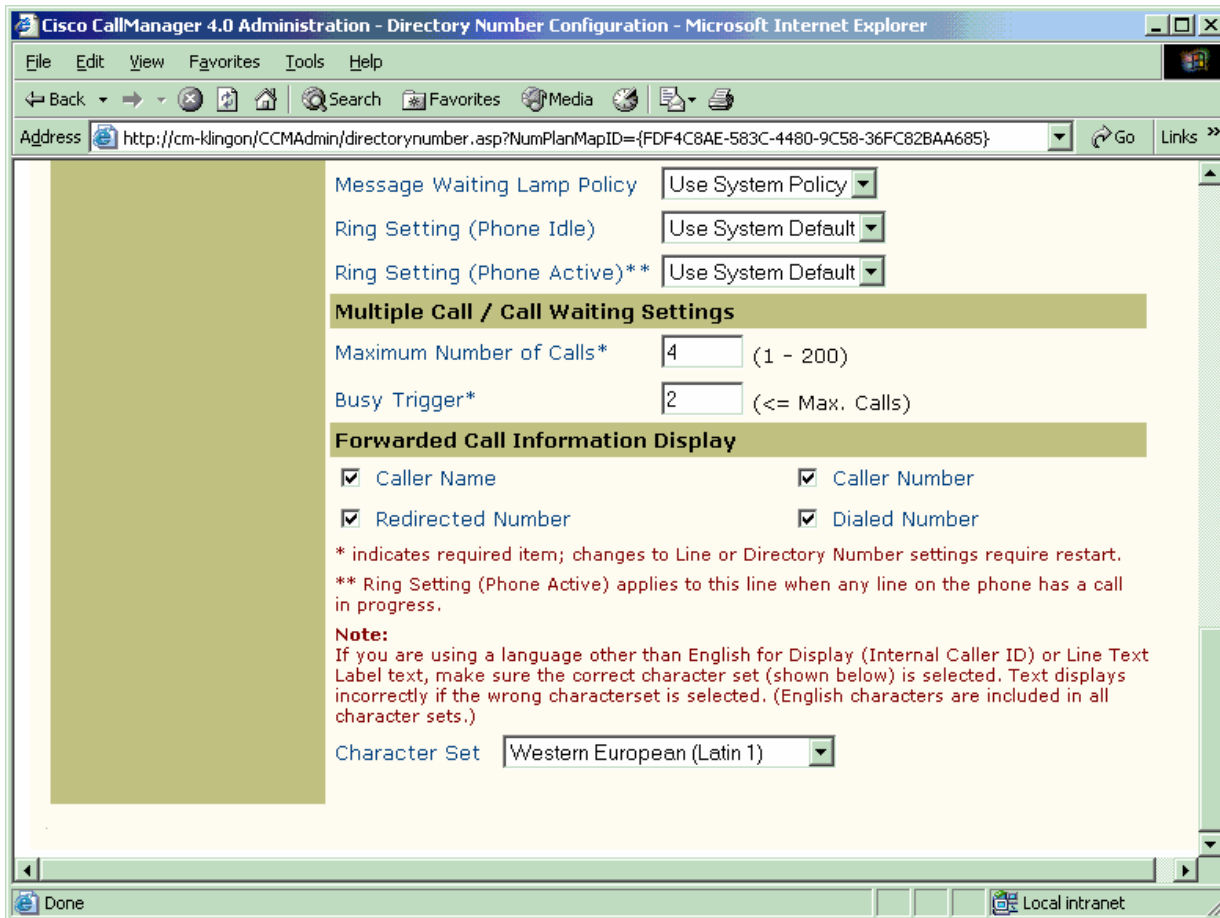
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