



# Mitel 3300 ICP Release 3.3 using T1 PRI DMS-100 to Cisco Unified CallManager 4.0

November 27, 2007 Revision 2

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## Introduction

This is an application note for connectivity of Mitel 3300 ICP Release 3.3 PBX with Cisco Unified CallManager (CUCM) Release 4.0 using Cisco 6608-T1 PRI DMS-100 as MGCP gateway.

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

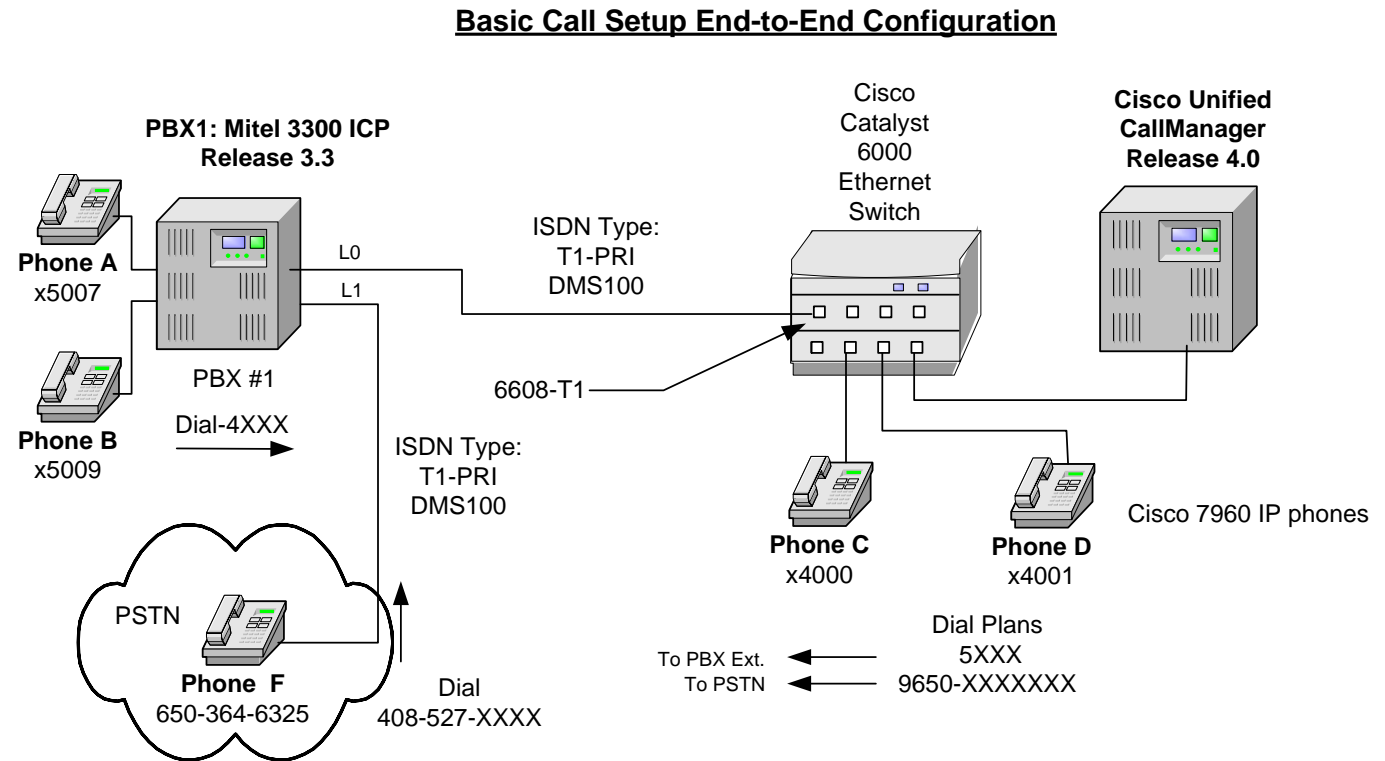
Connectivity is achieved by using the standard PRI DMS-100 protocol. The Cisco Unified CallManager as well as the Mitel 3300 PBX can be configured as either NETWORK or USER side but Mitel PRI trunk does not support sending Calling Number when configured as USER side. Therefore it is recommended that Mitel PBX be configured as NETWORK side and Cisco gateway as USER side.

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



## Network Topology

Figure 1. Network Topology



## Limitations

### Calling Name and Number Features

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

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

Mitel PRI trunk does not support sending Calling Number when configured as USER side.

## System Components

### Hardware Requirements

Cisco Hardware:

Cisco Catalyst 6000 switch with 6608-T1 gateway

Cisco Unified CallManager 4.0

Mitel 3300 ICP PBX Hardware:



3300 Controller P/N 56004538

3300 Universal NSU P/N 56002115

SX2000 Expansion Chassis P/N 144236601

### **Software Requirements**

PBX Software 3.3

Cisco Unified CallManager 4.0

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

### **Features**

#### **Features Supported**

Calling Number

Calling Name

#### **Features Not Supported**

Connected Number

Connected Name

### **Configuration**

#### **Configuring the Mitel 3300 ICP PBX**

#### **System Hardware Modules**



Alarm Status: Major 2004-Feb-19 14:27:34

Data Refresh Help Exit

System Message:

Selection:

Maintenance and Diagnostics

- Maintenance and Diagnostics
  - Alarm Details
  - Maintenance Commands
    - All
  - Logs
  - System Hardware Profile
    - System Hardware Modules
    - System Hardware Compute Co
  - IP Telephones
    - Backup
    - Restore

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### System Hardware Modules

Slot Number	Module ID, Driver ID	Variant ID	Card Description
1	12,1	n/a	Dual FIM - Multimode 820nm
2	12,1	n/a	Dual FIM - Multimode 820nm
3	--	--	--
4	--	--	--
5	22,1	n/a	Echo Cancellation 64 Channels
6	--	--	--
7	--	--	--
8	47,6	n/a	SHARC Enhanced DSP - 4 circuit

### System Hardware Modules

Slot Number: 1  
Module ID, Driver ID: 12,1  
Minimum Reset Timing: 0  
Card Description: Dual FIM - Multimode 820nm  
PCB Assembly: 56001801  
PCB Revision Level: RC  
Processor Type: n/a  
Processor Speed (Core, Clock): 0,0  
MAC Address: 00:00:00:00:00:00  
Country Code: NA



## System Software Version

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection:

Maintenance and Diagnostics

- Maintenance and Diagnostics
  - Alarm Details
  - Maintenance Commands
    - All
  - Logs
  - System Hardware Profile
    - System Hardware Modules
    - System Hardware Compute Cards
  - IP Telephones
  - Backup
  - Restore

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### System Hardware Compute Cards

Slot ID	PCB Assembly and Rev Level	IP Address
1	143890303 R1.2	172.20.12.254
2	143890303 R1.2	172.20.12.253

### System Hardware Compute Cards

Slot ID:	1
PCB Assembly and Rev Level:	143890303 R1.2
Core Speed:	297000000
Bus Speed:	66000000
Memory Size:	268435456
MAC Address:	08:00:0f:0f:3e:95
IP Address:	172.20.12.254
BOOTROM Rev:	1.2/3 Jul 23 2002
Post Rev:	2.7 07/06/2002
Main Version:	3.3.10.1



**PRI Trunk configuration**

Site Options

```

-----
Connected Platform:      SX-2000 Light
PLATFORM:               PRI Card
Options:: CLIP / CLIR / Data / CBC / DDI /
Created with IMAT Version "7.2.0.3"
Database Version "DB08.00.00"

```

Link Mapping

```

=====
PBX      MVIP   PRI    Card          PRI    PRI    Physical
Link*   Link  Card  Variant          link # logical #  Type
-----
  1      4     1     Dual link card    1      1      T1/DSX1
  2      5     1     Dual link card    2      2      T1/DSX1

```

PRI Link Characteristics

```

=====
PRI      Protocol  Protocol  Test          Physical Characteristics
logical# Type      Variant   Call Number
-----
  1      DMS-100
          Invert D Channel: Off
          Network Side Interface: On
          Enbloc-only: Off
          Line Coding=B8ZS
          Framing=ESF
          Line Build Out=0-133 feet
          Invert Data=Disable
          Comment ""

  2      DMS-100
          Invert D Channel: Off
          Network Side Interface: Off
          Enbloc-only: Off
          Line Coding=B8ZS
          Framing=ESF
          Line Build Out=0-133 feet
          Invert Data=Disable
          Comment ""

```

Trunk Data

Incoming Call Characteristics

PBX



link#	Trunks*	DDI Delivery	CPN Delivery
1	01	Yes	Yes
1	02	Yes	Yes
1	03	Yes	Yes
1	04	Yes	Yes
1	05	Yes	Yes
1	06	Yes	Yes
1	07	Yes	Yes
1	08	Yes	Yes
1	09	Yes	Yes
1	10	Yes	Yes
1	11	Yes	Yes
1	12	Yes	Yes
1	13	Yes	Yes
1	14	Yes	Yes
1	15	Yes	Yes
1	16	Yes	Yes
1	17	Yes	Yes
1	18	Yes	Yes
1	19	Yes	Yes
1	20	Yes	Yes
1	21	Yes	Yes
1	22	Yes	Yes
1	23	Yes	Yes
2	01	Yes	Yes
2	02	Yes	Yes
2	03	Yes	Yes
2	04	Yes	Yes
2	05	Yes	Yes
2	06	Yes	Yes
2	07	Yes	Yes
2	08	Yes	Yes
2	09	Yes	Yes
2	10	Yes	Yes
2	11	Yes	Yes
2	12	Yes	Yes
2	13	Yes	Yes
2	14	Yes	Yes
2	15	Yes	Yes
2	16	Yes	Yes
2	17	Yes	Yes
2	18	Yes	Yes
2	19	Yes	Yes
2	20	Yes	Yes
2	21	Yes	Yes
2	22	Yes	Yes
2	23	Yes	Yes

=====  
CPN Substitutions Setup  
=====



Outgoing Call Characteristics

PBX

link# Trunks\*

```
-----
1      01-23      Fixed Bearer Capability:
                   Voice Speech, Data Null
                   Fixed Network Specific Facilities: Default (len=0)
                   Network: NI-2
                   Fixed CLIR: Voice Allow, Data Allow
                   Per Call Network Specific Facilities:
                   call by call on per call: No
                   Network: NI-2
                   0: Unassigned (len=0)
                   1: Unassigned (len=0)
                   2: Unassigned (len=0)
                   3: Unassigned (len=0)
                   4: Unassigned (len=0)
                   5: Unassigned (len=0)
                   6: Unassigned (len=0)
                   7: Unassigned (len=0)
                   8: Unassigned (len=0)
```

```
CPN Value:
Voice
    Default CPN:
    CPN Substitutions:
Data
    Default CPN:
    CPN Substitutions:
```

```
2      01-23      Fixed Bearer Capability:
                   Voice Speech, Data Null
                   Fixed Network Specific Facilities: Default (len=0)
                   Network: NI-2
                   Fixed CLIR: Voice Allow, Data Allow
                   Per Call Network Specific Facilities:
                   call by call on per call: No
                   Network: NI-2
                   0: Unassigned (len=0)
                   1: Unassigned (len=0)
                   2: Unassigned (len=0)
                   3: Unassigned (len=0)
                   4: Unassigned (len=0)
                   5: Unassigned (len=0)
                   6: Unassigned (len=0)
                   7: Unassigned (len=0)
                   8: Unassigned (len=0)
```

```
CPN Value:
Voice
    Default CPN:
    CPN Substitutions:
Data
    Default CPN:
    CPN Substitutions:
```

=====

PBX Trunk Range Assignments

TRA Id	Link	Trunk	Link	Trunk	AssocTRLs	TRA Description	Protocol
		Starting		Ending			





-----  
=====

Min/Max Limits Definitions

TRL Id	AssocSGLs	AssocISLs	Counts	CxC Service	Protocol/
/RejCause		/RejCause	Min Max	/Param	Description



## Link Descriptor Assignment

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection:

System Configuration

- System Configuration
  - System Capacity
  - Units/Modules
  - Trunks
    - Class of Service Options Assign
    - Analog Trunks
    - Digital Trunks
      - DPNSS
        - Link Descriptor Assignment**
        - Digital Link Assignment
        - MSDN-DPNSS-DASSII Tr
        - Trunk Service Assignmer
        - Digital Trunk Assignment
        - Network Synchronization
      - E1/CEPT
      - T1/D4
    - IP Networking/NET
    - Direct Trunk Select
    - Automatic Route Selection (AR
  - Devices
  - Music On Hold
  - Loudspeaker Paging
  - Telephone Paging
  - System Output Ports

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**Link Descriptor Assignment**

Number	Address for Message Control	BER - Maintenance Limit, 10 <sup>ms</sup> -n	BER - Service Limit, 10 <sup>ms</sup> -n	Data Call Alternate Digit Inversion
1	B	4	3	Yes
3	B	6	6	Yes
4		5	3	Yes
10	B	6	6	Yes
12	B	5	5	Yes
13	B	4	3	Yes
14	A	5	4	Yes

**Link Descriptor Assignment**

Number: 1  
 Address for Message Control: B  
 BER - Maintenance Limit, 10<sup>ms</sup>-n: 4  
 BER - Service Limit, 10<sup>ms</sup>-n: 3  
 Data Call Alternate Digit Inversion: Yes  
 Framing Losses in 24 hrs - Maintenance Limit: 255  
 Framing Losses in 24 hrs - Service Limit: 9000  
 Integrated Digital Access: ISDN NODE  
 Satellite Link Delay: NO  
 Slip Rate - Maintenance Limit: 255



## MSDN-DPNSS-DASSII Trunk Circuit Descriptor

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection:

System Configuration

- System Configuration
- System Capacity
- Units/Modules
- Trunks
  - Class of Service Options Assig
  - Analog Trunks
  - Digital Trunks
    - DPNSS
      - Link Descriptor Assignm
      - Digital Link Assignment
      - MSDN-DPNSS-DASSII Tr
      - Trunk Service Assignmer
      - Digital Trunk Assignment
      - Network Synchronization
    - E1/CEPT
    - T1/O4
  - IP Networking/XNET
  - Direct Trunk Select
  - Automatic Route Selection (AR
- Devices
- Music On Hold
- Loudspeaker Paging
- Telephone Paging
- System Output Ports

Add Change Delete

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### MSDN-DPNSS-DASSII Trunk Circuit Descriptor

Number	Card Type	Dual Seizure Priority	Far End Connection	Signalling Protocol	ISDN BRI Mode
13	UNIVERSAL E1	Incoming	Main PBX	MSDN-DPNSS	
25	CEPT	Incoming	Local Office	MSDN-DPNSS	
26	UNIVERSAL E1	Incoming	Main PBX	MSDN-DPNSS	
27	UNIVERSAL E1	Incoming	Local Office	MSDN-DPNSS	
28	UNIVERSAL T1	Incoming	Local Office	MSDN-DPNSS	
30	UNIVERSAL T1	Incoming	Toll Office	MSDN-DPNSS	



## Digital Trunk Assignment

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection: System Configuration

- System Configuration
  - System Capacity
  - Units/Modules
  - Trunks
    - Class of Service Options Assig
    - Analog Trunks
    - Digital Trunks
      - DPNSS
        - Link Descriptor Assignm
        - Digital Link Assignment
        - MSDN-DPNSS-DASSII Tr
        - Trunk Service Assignmer
        - Digital Trunk Assignment
        - Network Synchronization
      - E1/CEPT
      - T1/D4
    - IP NetworkingXNET
    - Direct Trunk Select
    - Automatic Route Selection (AR
  - Devices
  - Music On Hold
  - Loudspeaker Paging
  - Telephone Paging
  - System Output Ports

Change Clear

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Digital Trunk Assignment					
Cabinet	Shelf	Slot	Circuit	Card Type	Trunk Number
8	1	1	1	UNIVERSAL T1	801
8	1	1	2	UNIVERSAL T1	802
8	1	1	3	UNIVERSAL T1	803
8	1	1	4	UNIVERSAL T1	804
8	1	1	5	UNIVERSAL T1	805
8	1	1	6	UNIVERSAL T1	806
8	1	1	7	UNIVERSAL T1	807
8	1	1	8	UNIVERSAL T1	808
8	1	1	9	UNIVERSAL T1	809
8	1	1	10	UNIVERSAL T1	810

Digital Trunk Assignment

Cabinet: 8  
 Shelf: 1  
 Slot: 1  
 Circuit: 1  
 Card Type: UNIVERSAL T1  
 Trunk Number: 801  
 Trunk Service Number: 12  
 DTS Service Number:  
 Circuit Descriptor Number: 28  
 Interconnect Number: 1



## Trunk Service Assignment

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection:

- System Administration
  - System Administration
  - User Authorization Profiles
  - System Options
  - Automatic Route Selection (AR)
    - Trunk Service Assignment**
    - Trunk Group Assignment
    - Class of Restriction Group Assignment
    - System Account Code Definition
    - Independent Account Code
    - Default Account Code Definition
    - Call Progress Tone Detection
    - Digit Modification Assignment
    - Maximum Dialed Digits
    - Route Assignment
    - Route List Assignment (Optional)
    - Day and Time Zone Assignment
    - Route Plan Assignment (Optional)
    - ARS Digits Dialed Assignment
    - ARS Leading Digits Assignment
    - Interconnect Restriction
    - Node Identity Assignment
  - Automatic Call Distribution (ACD)
  - Call Handling
  - Telephone Management
  - Telephone Directory Management
  - Property Management System

Change Clear

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Trunk Service Number	Release Link Trunk	Class of Service	Class of Restriction	Baud Rate	Intercept Number	Trunk Label
1	NO	11	1	300	1	
2	NO	12	1	300	1	
3	NO	13	1	300	1	
4	NO	1	1	300	1	
5	NO	1	12	300	1	
6	NO	1	1	300	1	
7	NO	1	1	300	1	
8	NO	1	1	300	1	
9	NO	1	1	300	1	
10	NO	1	1	300	1	

**Trunk Service Assignment**

Trunk Service Number: 1  
 Release Link Trunk: NO  
 Class of Service: 11  
 Class of Restriction: 1  
 Baud Rate: 300  
 Intercept Number: 1  
 Non-dial In Trunks Answer Point - Day: 500  
 Non-dial In Trunks Answer Point - Night 1: 500  
 Non-dial In Trunks Answer Point - Night 2: 500  
 Dial In Trunks Incoming Digit Modification - Absorb:

Alarm Status:  Major 2004-Feb-20 12:02:30

Data Refresh Help Exit

System Message:

Selection:

- System Administration
  - System Administration
  - User Authorization Profiles
  - System Options
  - Automatic Route Selection (ARS)
    - Trunk Service Assignment
    - Trunk Group Assignment
    - Class of Restriction Group Assignment
    - System Account Code Definition
    - Independent Account Code
    - Default Account Code Definition
    - Call Progress Tone Detection
    - Digit Modification Assignment
    - Maximum Dialed Digits
    - Route Assignment
    - Route List Assignment (Optional)
    - Day and Time Zone Assignment
    - Route Plan Assignment (Optional)
    - ARS Digits Dialed Assignment
    - ARS Leading Digits Assignment
    - Interconnect Restriction
    - Node Identity Assignment
  - Automatic Call Distribution (ACD)
  - Call Handling
  - Telephone Management
  - Telephone Directory Management
  - Property Management System

Change Clear

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Trunk Service Assignment

Trunk Service Number	Release Link Trunk	Class of Service	Class of Restriction	Baud Rate	Intercept Number	Trunk Label
11	NO	1	1	300	1	
12	NO	1	1	300	1	
13	NO	1	1	300	1	
14	NO	1	1	300	1	
15	NO	1	1	300	1	
16	NO	1	1	300	1	
17	NO	1	1	300	1	
18	NO	1	1	300	1	
19	NO	1	1	300	1	
20	NO	1	1	300	1	

Trunk Service Assignment

Trunk Service Number: 12  
 Release Link Trunk: NO  
 Class of Service: 1  
 Class of Restriction: 1  
 Baud Rate: 300  
 Intercept Number: 1  
 Non-dial In Trunks Answer Point - Day:  
 Non-dial In Trunks Answer Point - Night 1:  
 Non-dial In Trunks Answer Point - Night 2:  
 Dial In Trunks Incoming Digit Modification - Absorb: 0



## Digit Modification Assignment

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection:

System Administration

- System Administration
- User Authorization Profiles
- System Options
- Automatic Route Selection (ARS)
  - Trunk Service Assignment
  - Trunk Group Assignment
  - Class of Restriction Group Assignment
  - System Account Code Definition
  - Independent Account Code
  - Default Account Code Definition
  - Call Progress Tone Detection
  - Digit Modification Assignment**
  - Maximum Dialed Digits
  - Route Assignment
  - Route List Assignment (Optional)
  - Day and Time Zone Assignment
  - Route Plan Assignment (Optional)
  - ARS Digits Dialed Assignment
  - ARS Leading Digits Assignment
  - Interconnect Restriction
  - Node Identity Assignment
- Automatic Call Distribution (ACD)
- Call Handling
- Telephone Management
- Telephone Directory Management
- Property Management System

Digit Modification Number	Number of Digits to Absorb	Digits to be Inserted	Final Tone Plan/Information Marker
1	1		
2	2		
3	0		
4	3		
5	0		
6	0		
7	0		
8	0		
9	0		
10	0		
11	0		
12	0		
13	0		
14	0		
15	0		
16	0		
17	0		
18	0		
19	0		

Page 1 of 3   Go to:  value:



## Route Assignment

Alarm Status: Major 2004-Feb-19 14:27:34 Data Refresh Help Exit

System Message:

Selection:

- System Administration
  - System Administration
  - User Authorization Profiles
  - System Options
  - Automatic Route Selection (ARS)
    - Trunk Service Assignment
    - Trunk Group Assignment
    - Class of Restriction Group Assignment
    - System Account Code Definition
    - Independent Account Code
    - Default Account Code Definition
    - Call Progress Tone Detection
    - Digit Modification Assignment
    - Maximum Dialed Digits
    - Route Assignment**
    - Route List Assignment (Optional)
    - Day and Time Zone Assignment
    - Route Plan Assignment (Optional)
    - ARS Digits Dialed Assignment
    - ARS Leading Digits Assignment
    - Interconnect Restriction
    - Node Identity Assignment
  - Automatic Call Distribution (ACD)
  - Call Handling
  - Telephone Management
  - Telephone Directory Management
  - Property Management System

Change Clear

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Route Number	Trunk Group Number	COR Group Number	Digit Modification Number	Digits Before Outpulsing	XNET Trunk Group Number	Route Type	Compression
1	1	1	1				Off
2	2	1	5				Off
3	3	1	3				Off
4		1	1				Off
5		1	1				Off
6		1	1				Off
7		1	1				Off
8		1	1				Off
9		1	1				Off
10		1	1				Off
11		1	1				Off
12	12	1	5				Off
13	13	1	4				Off
14	14	1	2				Off
15		1	1				Off
16		1	1				Off
17		1	1				Off
18		1	1				Off





## ARS Digits Dialing Plan

Alarm Status: Major 2004-Feb-20 12:02:30 Data Refresh Help Exit

System Message: New record successfully added.

**Selection:**

System Administration

- System Administration
- User Authorization Profiles
- System Options
- Automatic Route Selection (ARS)
  - Trunk Service Assignment
  - Trunk Group Assignment
  - Class of Restriction Group Assignment
  - System Account Code Definition
  - Independent Account Code
  - Default Account Code Definition
  - Call Progress Tone Detection
  - Digit Modification Assignment
  - Maximum Dialed Digits
  - Route Assignment
  - Route List Assignment (Optional)
  - Day and Time Zone Assignment
  - Route Plan Assignment (Optional)
  - ARS Digits Dialed Assignment**
  - ARS Leading Digits Assignment
  - Interconnect Restriction
  - Node Identity Assignment
- Automatic Call Distribution (ACD)
- Call Handling
- Telephone Management
- Telephone Directory Management
- Property Management System

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Digits Dialed	Number of Digits to Follow	Termination Type	Termination Number
100	1	Route	13
40	2	Route	2
49	2	Route	12
666	4	Route	13
7	Unknown	Route	1
80	Unknown	Route	2
90	Unknown	Route	3
91	Unknown	Route	13
950484	4	Route	3
650364	4	Route	12
527	4	Route	2



## Configuring the Cisco Unified CallManager

### 6608-T1 Gateway Configuration

System Route Plan Service Feature Device User Application Help

**Cisco CallManager Administration**  
For Cisco IP Telephony Solutions

CISCO SYSTEMS

## Gateway Configuration

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

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

Status: Update completed.

### 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=" &lt; None &gt;"/>
Location	<input type="text" value=" &lt; None &gt;"/>
AAR Group	<input type="text" value=" &lt; None &gt;"/>
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 DMS-100"/>
Protocol Side*	<input type="text" value="User"/>
Channel Selection Order*	<input type="text" value="Top Down"/>
Channel IE Type*	<input type="text" value="Timeslot Number"/>

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

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

Maximum Fax Rate*	<input type="text" value="14400bps"/>
Fax Payload Size*	<input type="text" value="20"/>
Non Standard Facilities Country Code*	<input type="text" value="65535"/>
Non Standard Facilities Vendor Code*	<input type="text" value="65535"/>
Fax/Modem Packet Redundancy*	<input type="checkbox"/>
NSE Type*	<input type="text" value="Non-IOS Gateways"/>
<b>Playout Delay Parameters</b>	
Initial Playout Delay*	<input type="text" value="40"/>
Minimum Playout Delay*	<input type="text" value="20"/>
Maximum Playout Delay*	<input type="text" value="150"/>
<b>Echo Canceller Configuration</b>	
Echo TailLength (ms)*	<input type="text" value="32 ms"/>
Minimum ERL (db)*	<input type="text" value="6 db"/>
<p>* 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</p>	
<p style="text-align: right;"><a href="#">Back to Find/List Gateways</a></p>	



## Enbloc Route Pattern Configuration

**Route Pattern/Hunt Pilot: 5XXX**

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

**Pattern Definition**

Route Pattern/Hunt Pilot\*

Partition

Description

Numbering Plan\*

Route Filter

MLPP Precedence

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

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone     Allow Overlap Sending     Urgent Priority

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

**Connected Party Transformations**

Connected Line ID Presentation

Connected Name Presentation

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**

Carrier Identification Code

Network Service Protocol

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



## Translation Pattern for Incoming PSTN Calls

### Translation Pattern Configuration

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

**Translation Pattern: 527.XXXX**  
Status: Ready

#### Pattern Definition

Translation Pattern	<input type="text" value="527.XXXX"/>
Partition	<input type="text" value="Incoming Trunk"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value="&lt; None &gt;"/>
Calling Search Space	<input type="text" value="Phones"/>
MLPP Precedence	<input type="text" value="Default"/>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="— 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	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

#### Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Default"/>

#### Called Party Transformations

Discard Digits	<input type="text" value="PreDot"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

\* indicates required item.

## PSTN Route Pattern Configuration



**Route Pattern/Hunt Pilot: 9.650XXXXXX**

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

**Pattern Definition**

Route Pattern/Hunt Pilot\*

Partition

Description

Numbering Plan\*

Route Filter

MLPP Precedence

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

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone     Allow Overlap Sending     Urgent Priority

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

**Connected Party Transformations**

Connected Line ID Presentation

Connected Name Presentation

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**

Carrier Identification Code

Network Service Protocol

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

## 7960 IP phone Configuration





# Phone Configuration

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

## Directory Numbers

### Base Phone

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

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

Status: Ready

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

## 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"/> <a href="#">(Select User ID)</a>
Device Pool*	<input type="text" value="Default"/> <a href="#">(View details)</a>
Calling Search Space	<input type="text" value="&lt; None &gt;"/>
AAR Calling Search Space	<input type="text" value="&lt; None &gt;"/>
Media Resource Group List	<input type="text" value="&lt; None &gt;"/>
User Hold Audio Source	<input type="text" value="&lt; None &gt;"/>
Network Hold Audio Source	<input type="text" value="&lt; None &gt;"/>
Location	<input type="text" value="&lt; None &gt;"/>
User Locale	<input type="text" value="&lt; None &gt;"/>
Network Locale	<input type="text" value="&lt; None &gt;"/>
Device Security Mode	<input type="text" value="Use System Default"/>
Built In Bridge	<input type="text" value="Default"/>
Privacy	<input type="text" value="Default"/>

### Phone Button Template Information

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


### Softkey Template Information

Softkey Template

### Expansion Module Information

Module 1

Module 2

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



# Directory Number Configuration

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

## Associated With

SEP000B5FD22FE8  
7960 (Line 1)

## Directory Number: 4000 (Phones)

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

## Directory Number

Directory Number\*   
Partition

## Directory Number Settings

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

## Call Forward and Pickup Settings

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

## MLPP Alternate Party Settings

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

## Line Settings for this Device

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



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



## Acronyms

Acronym	Definitions
CUCM	Cisco Unified CallManager



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Printed in the USA