



# Alcatel 4400, Release 5.1 using E1 QSIG to Cisco Unified CallManager 4.1

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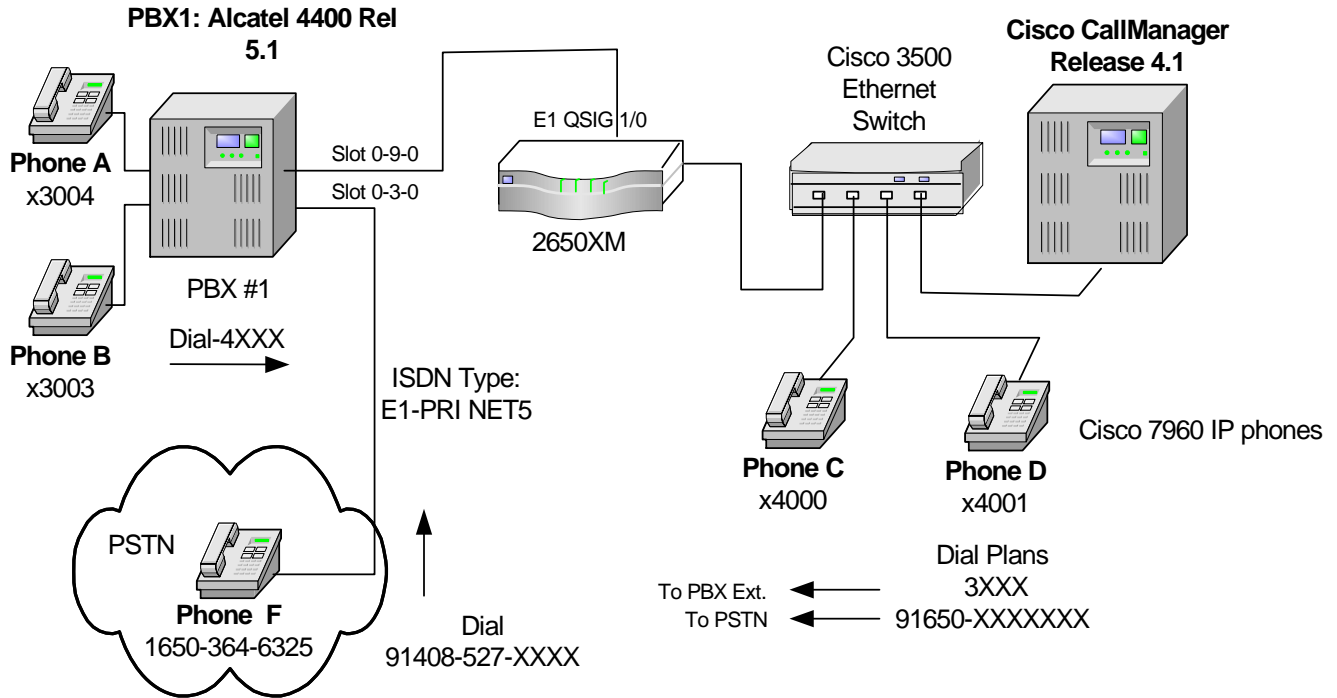
## Introduction

- This is an application note for connectivity of Alcatel 4400 Release 5.1 PBX with Cisco Unified CallManager Release 4.1 using 2650XM\_E1 QSIG 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 2650XM\_E1 QSIG link as MGCP gateway.
- Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway and ABC\_F (QSIG\_GF filtered) switch type on the Alcatel 4400 PBX.
- This Application Note uses the 2650XM\_E1 voice gateway, however other Cisco voice gateways are also an option to use since CallManager QSIG implementation does not depend on the physical interface.

## Network Topology

Figure 1. Basic Call Setup

### Basic Call Setup End-to-End Configuration



## Limitations

The following section lists known limitations, caveats, or integration issues.

### Basic Call with Overlap Sending

- Alcatel does not display connected number when configured for Overlap Sending. CCM does send connected name and number when answering the original call.

### Call Forward by Join

- Alcatel does not support call forwarding by join. Instead the Alcatel performs a reroute.

### Path Replacement for Call Transfer

- Alcatel did not update connected name and number after Path Replacement.



## Additional Network Feature Path Replacement for Call Diversion

- Alcatel does not send Path Replacement proposal for Call Diversion by forward switch.

## MWI

- Unfortunately Cisco has not been able to validate MWI functionality in our labs due to the fact that we do not have an internal voicemail system on our Alcatel PBX. However, Alcatel's documentation confirms that OmniPCX 4400 PBX's does support MWI as long as the Alcatel PBX is the message center PINX. Also MWI was confirmed to be working at a Cisco customer's site on an Alcatel 4400 Release 4.2 system supporting an internal Octel voicemail blade.
- With Cisco Unified CallManager configured as the message center PINX, Alcatel 4400 PBX Release 4.2 system does not support QSIG MWI.

## System Components

### Hardware Requirements

The following hardware is required:

- Cisco 2650XM router with 2MFT-E1 ports
- Cisco CallManager
- Alcatel 4400 PBX:
- Alcatel PRA2 Card (PRI Interface Card)

### Software Requirements

The following software is required:

- Alcatel PBX Software version 5.1
- Cisco Unified CallManager 4.1
- Cisco IOS Release or Cisco CatOS Release (for the gateway)

## Features

This section lists new and changed features and features that are not supported.

### 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
- Sending Alerting Name
- CT-Call Transfer (by join)



- CFU-Call Forwarding Unconditional (by join)
- CFB-Call Forwarding Busy (by join)
- CFNR-Call Forwarding No Reply (by join)
- CFU-Call Forwarding Unconditional (by Reroute)
- CFB-Call Forwarding Busy (by Reroute)
- CFNR-Call Forwarding No Reply (by Reroute)
- CCBS-Call Completion to Busy Subscriber
- CCNR-Call Completion No Reply
- ANF-PR-Additional Network Feature Path Replacement (for Call Transfer by join).
- ANF-PR-Additional Network Feature Path Replacement (for Call Diversion by forward switching)
- ANF-PR-Additional Network Feature Path Replacement (for Trombone connection)
- Message Waiting Indication is supported by Alcatel OmniPCX PBX's (lamp ON, lamp OFF, (See Limitation))

#### **Features Not Supported**

- None

#### **Configuration**

This section contains configuration menus and commands and describes configuration sequences and tasks.

#### **Configuring the Alcatel 4400**

1. Configure Board.
2. Configure Digital Access
3. Configure "ISO Function" System Parameter.
4. Configure PRI-ABC\_F Trunk Group
5. Configure PSTN Trunk Group
6. Configure Network Routing
7. Configure Network Routing "Own Node".
8. Configure Routing Prefix.
9. Configure Digital Station
10. Configure Digital Station Phone Facilities



## Configuration Menus and Commands

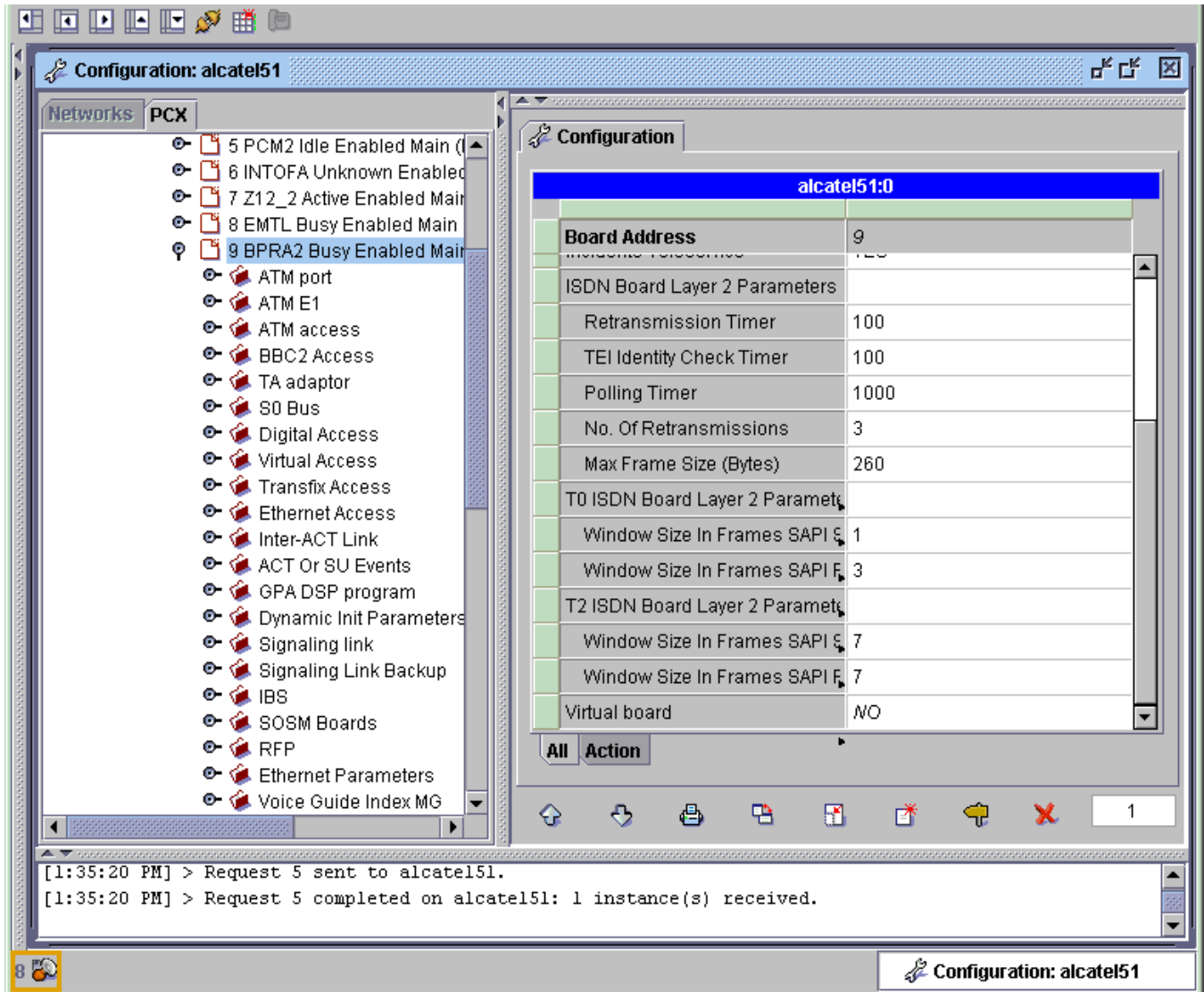
### Configure Board

The screenshot displays the Cisco Configuration Manager interface for configuring a board on a device named 'alcatel51'. The left pane shows a tree view of configuration options under 'PCX', with '9 BPRA2 Busy Enabled Main' selected. The right pane shows the configuration details for 'alcatel51:0' in a table format.

alcatel51:0	
Board Address	9
Interface Type	BPRA2
Usage State	Busy
Operational State	Enabled
Main/Standby State	Main (Master)
Number Of Sets Connected	4
Country Protocol Type	Default
Incidents Teleservice	YES
ISDN Board Layer 2 Parameters	
Retransmission Timer	100
TEI Identity Check Timer	100
Polling Timer	1000
No. Of Retransmissions	3
Max Frame Size (Bytes)	260

Below the table, there are buttons for 'All' and 'Action'. At the bottom of the window, a command window shows the following output:

```
[1:35:20 PM] > Request 5 sent to alcatel51.  
[1:35:20 PM] > Request 5 completed on alcatel51: 1 instance(s) received.
```



The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left pane shows a tree view of configuration categories under 'PCX', with '9 BPRA2 Busy Enabled Main' selected. The right pane shows the configuration details for 'alcatel51:0'.

alcatel51:0	
Board Address	9
ISDN Board Layer 2 Parameters	
Retransmission Timer	100
TEI Identity Check Timer	100
Polling Timer	1000
No. Of Retransmissions	3
Max Frame Size (Bytes)	260
T0 ISDN Board Layer 2 Parameters	
Window Size In Frames SAPI 5	1
Window Size In Frames SAPI 6	3
T2 ISDN Board Layer 2 Parameters	
Window Size In Frames SAPI 5	7
Window Size In Frames SAPI 6	7
Virtual board	NO

At the bottom of the window, a command line shows the following messages:

```
[1:35:20 PM] > Request 5 sent to alcatel51.
[1:35:20 PM] > Request 5 completed on alcatel51: 1 instance(s) received.
```



## Configure Digital Access

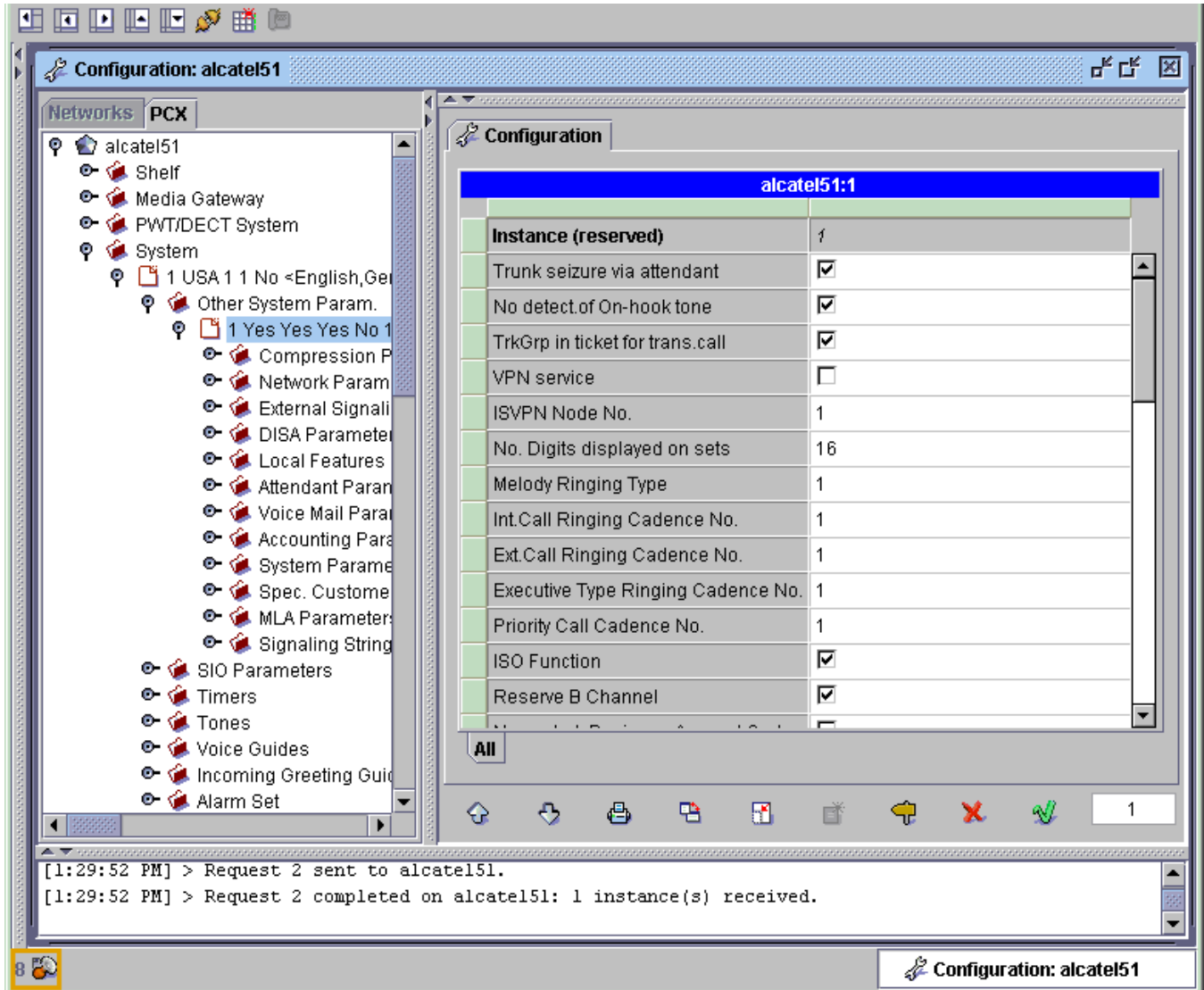
The screenshot displays the Cisco Configuration Manager interface for configuring digital access on an Alcatel 51 device. The left pane shows a tree view of configuration objects, with 'Digital Access' expanded to show instances 0 through 3. Instance 0 is selected. The right pane shows the configuration details for 'alcatel51:0:9'.

alcatel51:0:9	
<b>T0/T2 Access No.</b>	0
Access Type	T2
Access Board Type	BPRA2
Synchronization Priority	255
Network Mode	YES
Max No Of Used B Channels	30
Max No. Of Compressed B Chan	0
Tieline Mode	YES
With Alarm	NO
Reserved1	NO
Reserved2	NO
Network Date Time Update	NO
CRC4	YES

The bottom status bar shows the following messages:

```
[1:37:32 PM] > Request 6 sent to alcatel51.  
[1:37:32 PM] > Request 6 completed on alcatel51: 4 instance(s) received.
```

## Configure “ISO Function” System Parameter



The screenshot displays the Cisco Configuration Manager interface for configuring a system parameter on an Alcatel 51 device. The left pane shows a tree view of the configuration hierarchy, with 'System Parameters' selected. The right pane shows the configuration table for instance 'alcatel51:1'.

alcatel51:1	
<b>Instance (reserved)</b>	1
Trunk seizure via attendant	<input checked="" type="checkbox"/>
No detect of On-hook tone	<input checked="" type="checkbox"/>
TrkGrp in ticket for trans.call	<input checked="" type="checkbox"/>
VPN service	<input type="checkbox"/>
ISVPN Node No.	1
No. Digits displayed on sets	16
Melody Ringing Type	1
Int.Call Ringing Cadence No.	1
Ext.Call Ringing Cadence No.	1
Executive Type Ringing Cadence No.	1
Priority Call Cadence No.	1
ISO Function	<input checked="" type="checkbox"/>
Reserve B Channel	<input checked="" type="checkbox"/>

At the bottom of the window, a command window shows the following output:

```
[1:29:52 PM] > Request 2 sent to alcatel51.
[1:29:52 PM] > Request 2 completed on alcatel51: 1 instance(s) received.
```





## Configure PRI ABC\_F Trunk Group

**Configuration: alcatel51**

**Networks** PCX

- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1 Yes No
    - 1 T2 PRI-ABCF 1 No No -1 Yes No
    - 3 LIA E M 2W 1 No No -1 Yes
    - 4 T2 PRI-ABCF 1 No No -1 Yes No**
    - 5 NDDI (BCA) NDDI 1 No No -1 No
    - 6 NDDI (BCA) NDDI 1 No No -1 Yes
    - 7 T0 BRI-QSIG 1 No No -1 Yes No
    - 8 T0 BRI-ABCF 1 No No -1 Yes No
    - 9 T0 BRI-ISDN 1 No No -1 Yes No
    - 10 LIA E M 4W 1 No No -1 Yes
    - 11 LIA pcm2 1 No No -1 No
  - External Services
  - Inter-Node Links

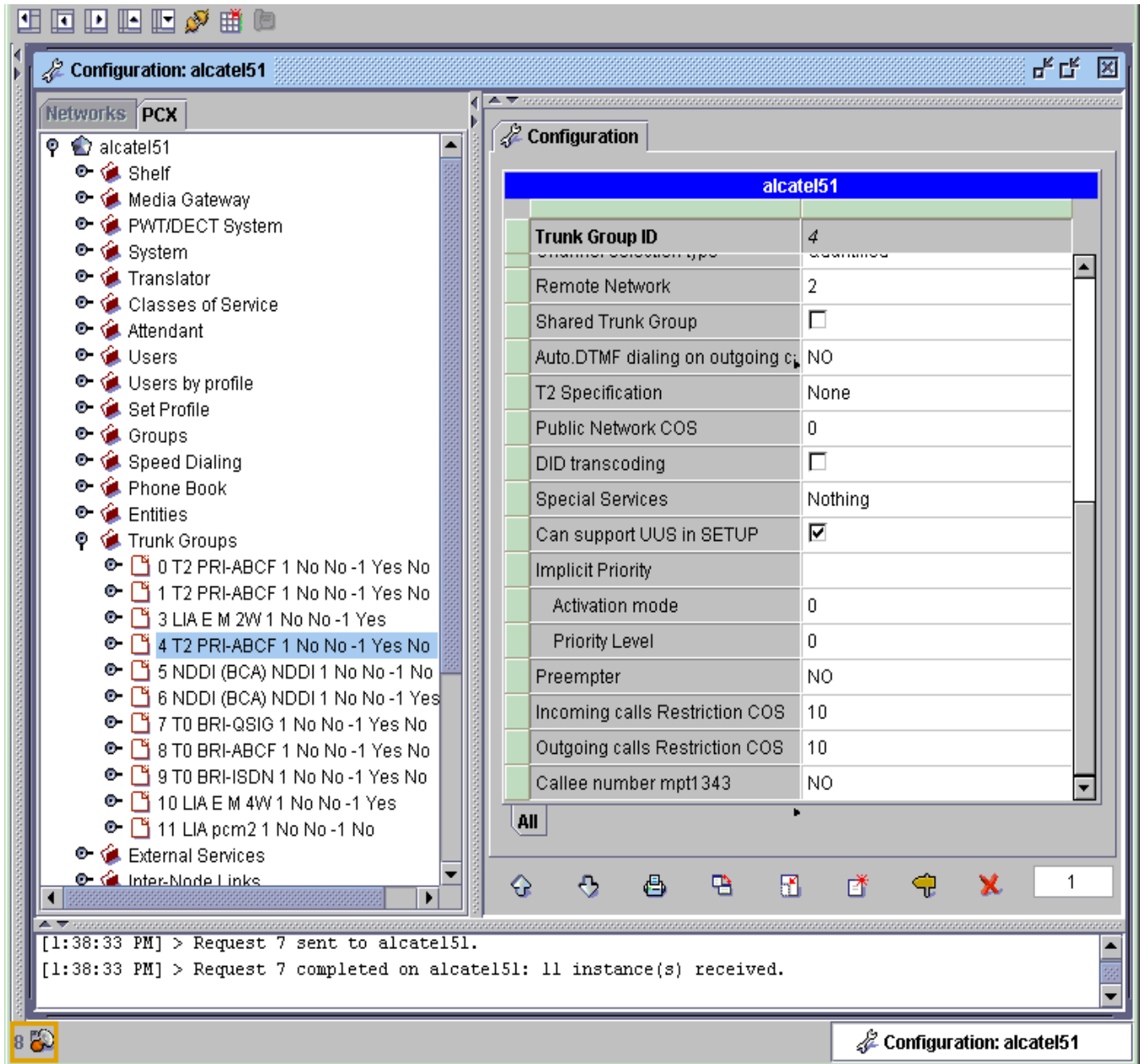
**Configuration**

alcatel51	
Trunk Group ID	4
Trunk Group Type	T2
Trunk Group Name	PRI-ABCF
Node number	1
Transcom Trunk Group	<input type="checkbox"/>
Auto.reserv.by Attendant	<input type="checkbox"/>
Overflow trunk group No.	-1
Tone on seizure	<input checked="" type="checkbox"/>
Private Trunk Group	<input type="checkbox"/>
Q931 Signal variant	ABC-F
SS7 Signal variant	No variant
Number Compatible With	-1
Number Of Digits To Send	4
Channel selection type	Quantified
Remote Network	2
Shared Trunk Group	<input type="checkbox"/>

All

[1:38:33 PM] > Request 7 sent to alcatel51.  
[1:38:33 PM] > Request 7 completed on alcatel51: 11 instance(s) received.

Configuration: alcatel51

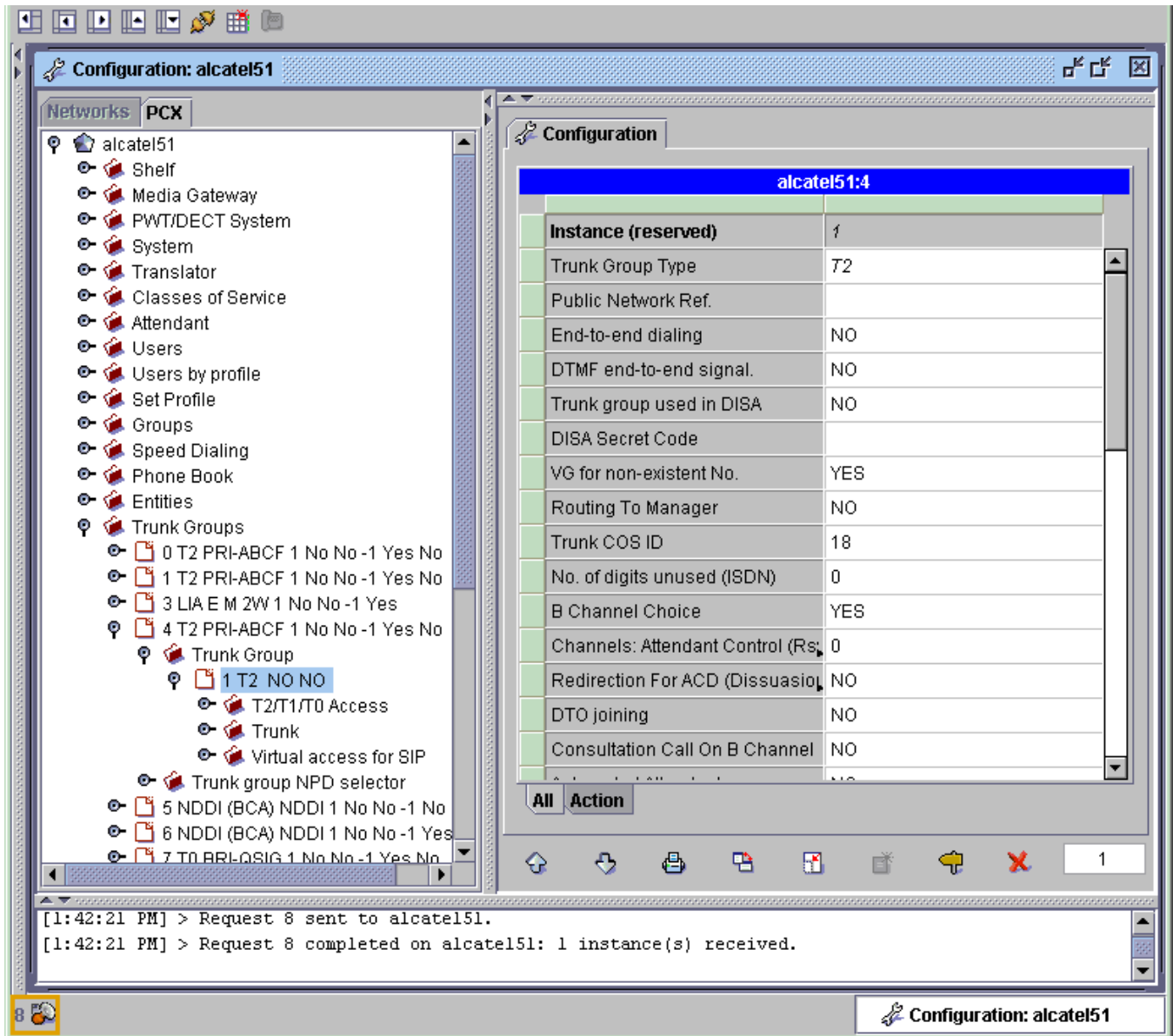


The screenshot displays the Cisco Configuration Manager interface for configuring a PCX (Personal Call Transfer) on a device named 'alcatel51'. The left pane shows a tree view of configuration objects, with 'Trunk Groups' expanded and '4 T2 PRI-ABCF 1 No No -1 Yes No' selected. The right pane shows the configuration details for this selected trunk group.

alcatel51	
Trunk Group ID	4
Trunk Group type	alcatel51
Remote Network	2
Shared Trunk Group	<input type="checkbox"/>
Auto.DTMF dialing on outgoing calls	NO
T2 Specification	None
Public Network COS	0
DID transcoding	<input type="checkbox"/>
Special Services	Nothing
Can support UUS in SETUP	<input checked="" type="checkbox"/>
Implicit Priority	
Activation mode	0
Priority Level	0
Preempter	NO
Incoming calls Restriction COS	10
Outgoing calls Restriction COS	10
Callee number mpt1343	NO

At the bottom of the window, a command window shows the following messages:

```
[1:38:33 PM] > Request 7 sent to alcatel51.
[1:38:33 PM] > Request 7 completed on alcatel51: 11 instance(s) received.
```



**Configuration: alcatel51**

**Networks PCX**

- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1 Yes No
    - 1 T2 PRI-ABCF 1 No No -1 Yes No
    - 3 LIA E M 2W 1 No No -1 Yes
    - 4 T2 PRI-ABCF 1 No No -1 Yes No
      - Trunk Group
        - 1 T2 NO NO
          - T2/T1/T0 Access
          - Trunk
          - Virtual access for SIP
        - Trunk group NPD selector
      - 5 NDDI (BCA) NDDI 1 No No -1 No
      - 6 NDDI (BCA) NDDI 1 No No -1 Yes
      - 7 T0 BRI-QSIG 1 No No -1 Yes No

**Configuration**

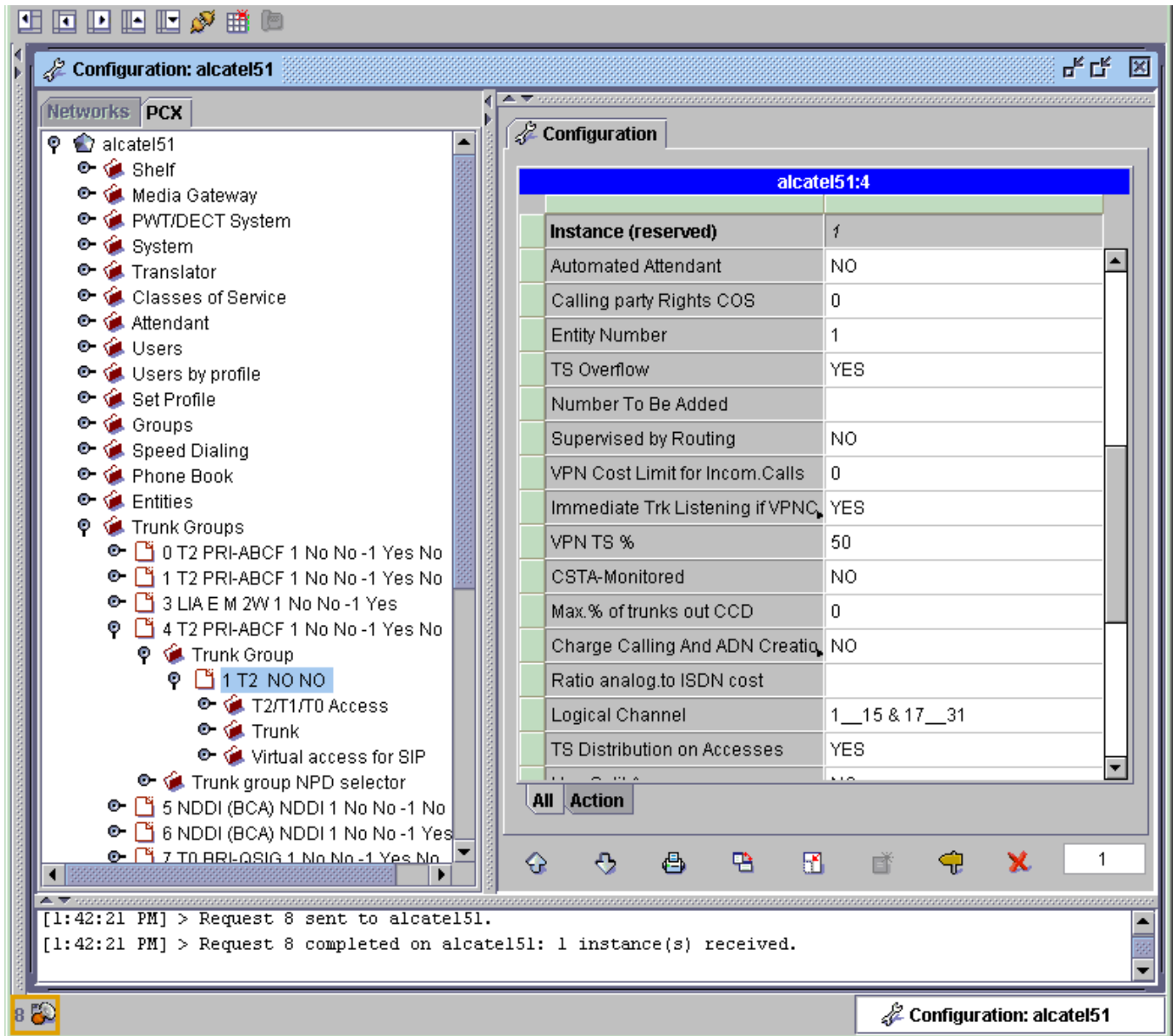
**alcatel51:4**

<b>Instance (reserved)</b>	1
Trunk Group Type	72
Public Network Ref.	
End-to-end dialing	NO
DTMF end-to-end signal.	NO
Trunk group used in DISA	NO
DISA Secret Code	
VG for non-existent No.	YES
Routing To Manager	NO
Trunk COS ID	18
No. of digits unused (ISDN)	0
B Channel Choice	YES
Channels: Attendant Control (Rs)	0
Redirection For ACD (Dissuasio	NO
DTO joining	NO
Consultation Call On B Channel	NO

**All Action**

[1:42:21 PM] > Request 8 sent to alcatel51.  
 [1:42:21 PM] > Request 8 completed on alcatel51: 1 instance(s) received.

**Configuration: alcatel51**

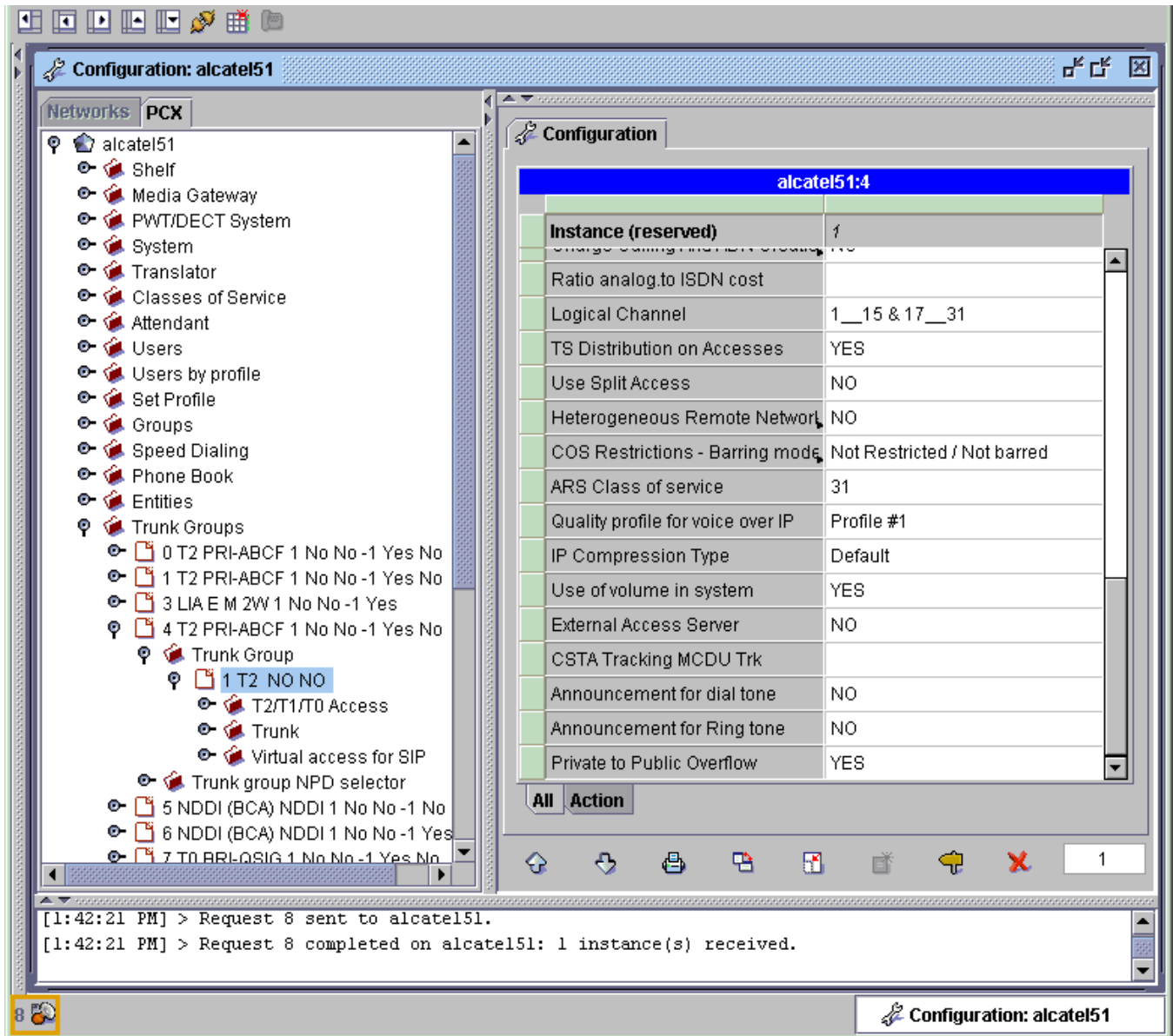


The screenshot displays the Cisco Configuration Manager interface for configuring a PCX (Personal Call Transfer) instance on an Alcatel 51 device. The left pane shows a hierarchical tree of configuration objects, with the selected path being: alcatel51 > Trunk Groups > 4 T2 PRI-ABCF 1 No No -1 Yes No > Trunk Group > 1 T2 NO NO. The right pane shows the configuration parameters for the selected instance, 'alcatel51:4'.

alcatel51:4	
Instance (reserved)	1
Automated Attendant	NO
Calling party Rights COS	0
Entity Number	1
TS Overflow	YES
Number To Be Added	
Supervised by Routing	NO
VPN Cost Limit for Incom.Calls	0
Immediate Trk Listening if VPNC	YES
VPN TS %	50
CSTA-Monitored	NO
Max.% of trunks out CCD	0
Charge Calling And ADN Creatio	NO
Ratio analog.to ISDN cost	
Logical Channel	1__15 & 17__31
TS Distribution on Accesses	YES
...	...

At the bottom of the interface, a command window shows the following messages:

```
[1:42:21 PM] > Request 8 sent to alcatel51.
[1:42:21 PM] > Request 8 completed on alcatel51: 1 instance(s) received.
```



**Configuration: alcatel51**

**Networks PCX**

- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1 Yes No
    - 1 T2 PRI-ABCF 1 No No -1 Yes No
    - 3 LIA E M 2W 1 No No -1 Yes
    - 4 T2 PRI-ABCF 1 No No -1 Yes No
      - Trunk Group
        - 1 T2 NO NO
          - T2/T1/T0 Access
          - Trunk
          - Virtual access for SIP
        - Trunk group NPD selector
      - 5 NDDI (BCA) NDDI 1 No No -1 No
      - 6 NDDI (BCA) NDDI 1 No No -1 Yes
      - 7 T0 BRI-QSIG 1 No No -1 Yes No

**Configuration**

**alcatel51:4**

<b>Instance (reserved)</b>	1
Ratio analog.to ISDN cost	
Logical Channel	1__15 & 17__31
TS Distribution on Accesses	YES
Use Split Access	NO
Heterogeneous Remote Network	NO
COS Restrictions - Barring mode	Not Restricted / Not barred
ARS Class of service	31
Quality profile for voice over IP	Profile #1
IP Compression Type	Default
Use of volume in system	YES
External Access Server	NO
CSTA Tracking MCDU Trk	
Announcement for dial tone	NO
Announcement for Ring tone	NO
Private to Public Overflow	YES

**All Action**

[1:42:21 PM] > Request 8 sent to alcatel51.  
 [1:42:21 PM] > Request 8 completed on alcatel51: 1 instance(s) received.

8 **Configuration: alcatel51**

Configuration: alcatel51

Networks PCX

- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1 Yes No
    - 1 T2 PRI-ABCF 1 No No -1 Yes No
    - 3 LIA E M 2W 1 No No -1 Yes
    - 4 T2 PRI-ABCF 1 No No -1 Yes No
      - Trunk Group
        - 1 T2 NO NO
          - T2/T1/T0 Access
            - 0-9-0 T2 -1 0111111
          - Trunk
          - Virtual access for SIP
        - Trunk group NPD selector
      - 5 NDDI (BCA) NDDI 1 No No -1 No
      - 6 NDDI (BCA) NDDI 1 No No -1 Yes

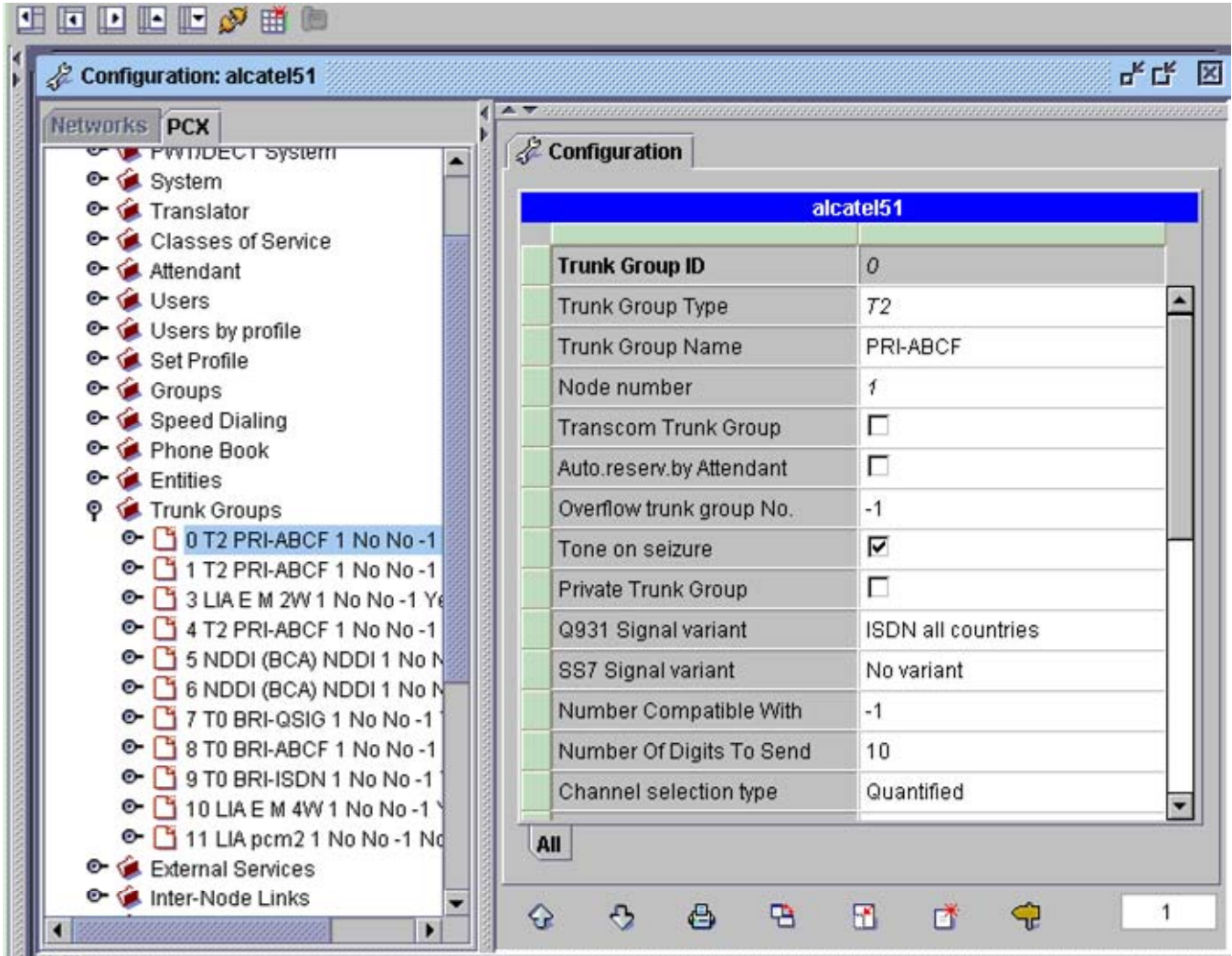
Configuration

alcatel51:4:1	
Physical Address	0-9-0
Access Type	T2
Access Cluster ID	-1
Time Slots T2	01111111111111111111011111111111

All Action

[1:43:33 PM] > Request 9 sent to alcatel51.  
 [1:43:33 PM] > Request 9 completed on alcatel51: 1 instance(s) received.

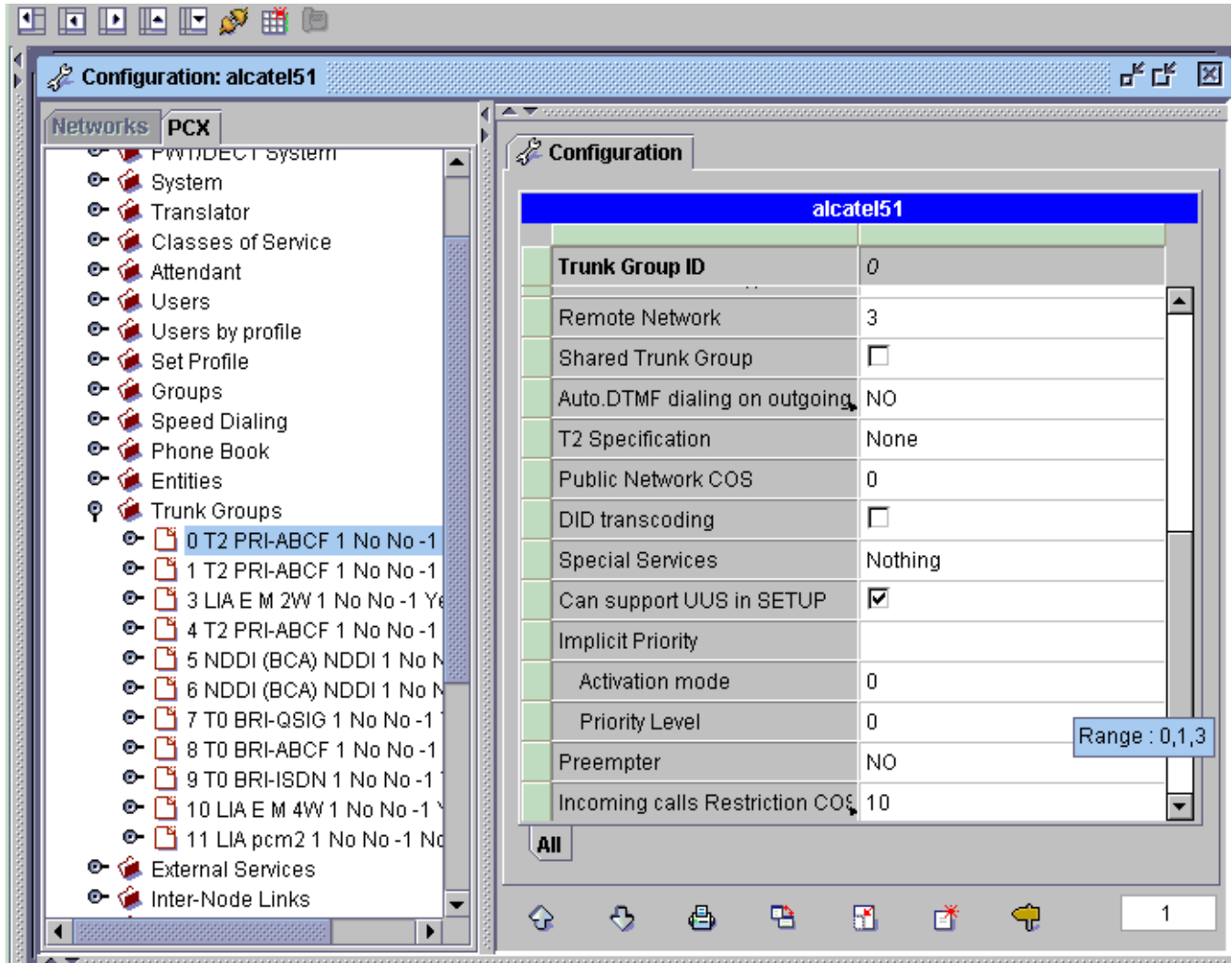
## Configure PSTN Trunk Group



The screenshot shows the configuration window for a PSTN Trunk Group in Cisco Unified Communications Manager. The left pane shows a tree view with 'Trunk Groups' expanded, and '0 T2 PRI-ABCF 1 No No -1' selected. The right pane shows the configuration details for this trunk group.

alcatel51	
Trunk Group ID	0
Trunk Group Type	T2
Trunk Group Name	PRI-ABCF
Node number	1
Transcom Trunk Group	<input type="checkbox"/>
Auto.reserv.by Attendant	<input type="checkbox"/>
Overflow trunk group No.	-1
Tone on seizure	<input checked="" type="checkbox"/>
Private Trunk Group	<input type="checkbox"/>
Q931 Signal variant	ISDN all countries
SS7 Signal variant	No variant
Number Compatible With	-1
Number Of Digits To Send	10
Channel selection type	Quantified



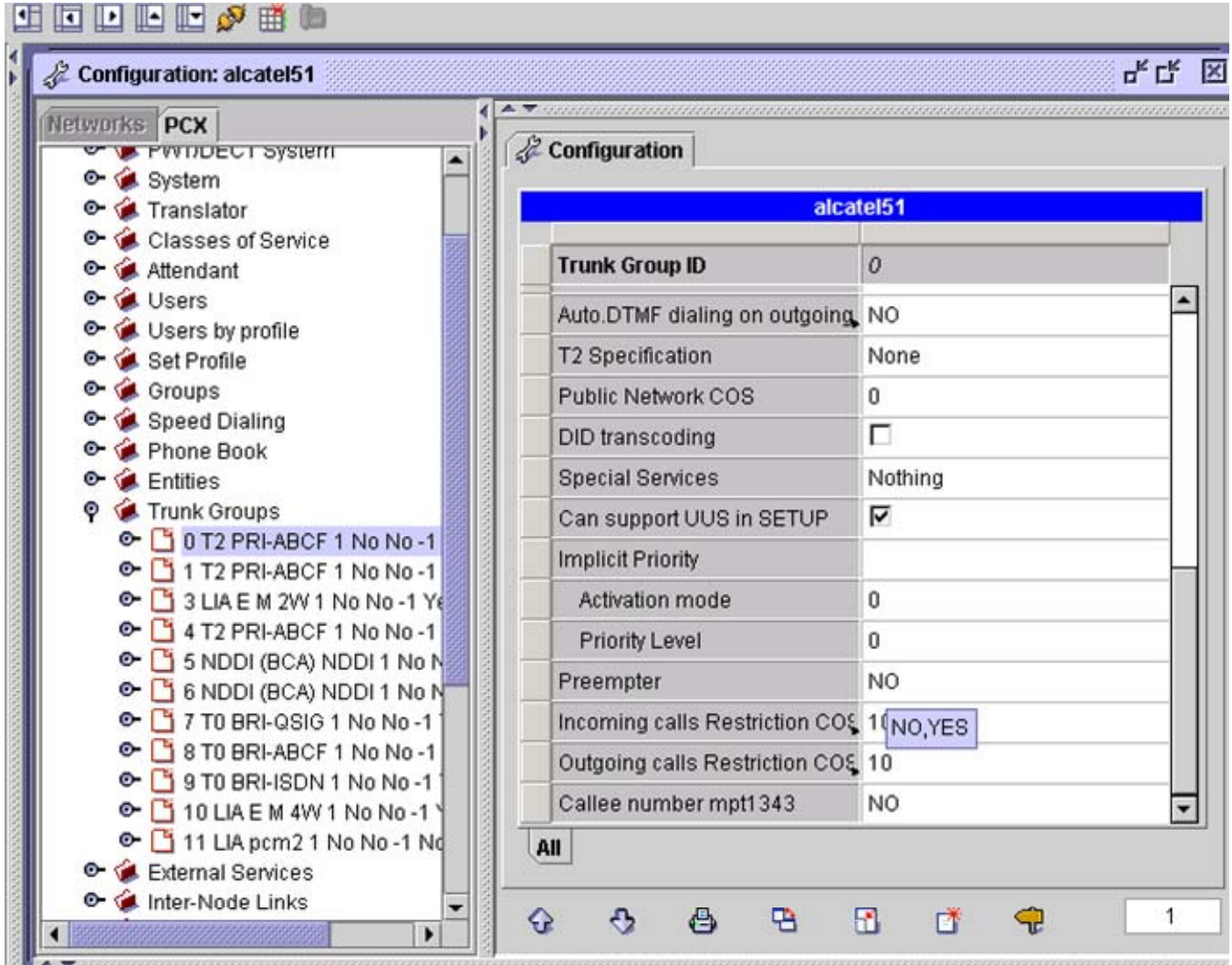


The screenshot displays the Cisco Configuration Manager interface for configuring a PCX (Private Call Transfer) on a device named 'alcatel51'. The left pane shows a tree view of configuration categories, with 'Trunk Groups' expanded to show a list of trunk groups. The right pane shows the configuration details for a selected trunk group.

alcatel51	
Trunk Group ID	0
Remote Network	3
Shared Trunk Group	<input type="checkbox"/>
Auto.DTMF dialing on outgoing	NO
T2 Specification	None
Public Network COS	0
DID transcoding	<input type="checkbox"/>
Special Services	Nothing
Can support UUS in SETUP	<input checked="" type="checkbox"/>
Implicit Priority	
Activation mode	0
Priority Level	0
Preempter	NO
Incoming calls Restriction COS	10

A tooltip indicates the valid range for the Trunk Group ID is 0, 1, 3.





Configuration: alcatel51

Networks PCX

- FWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1
      - Trunk Group
        - 1 T2 NO NO
          - T2/T1/T0 Access
          - Trunk
          - Virtual access fo
        - Trunk group NPD sele
      - 1 T2 PRI-ABCF 1 No No -1
      - 3 LIA E M 2W 1 No No -1 Ye
      - 4 T2 PRI-ABCF 1 No No -1
      - 5 NDDI (BCA) NDDI 1 No N
      - 6 NDDI (BCA) NDDI 1 No N
      - 7 T0 BRI-QSIG 1 No No -1

Configuration

alcatel51:0

<b>Instance (reserved)</b>	1
Trunk Group Type	T2
Public Network Ref.	
End-to-end dialing	NO
DTMF end-to-end signal.	NO
Trunk group used in DISA	NO
DISA Secret Code	
VG for non-existent No.	YES
Routing To Manager	NO
Trunk COS ID	19
No. of digits unused (ISDN)	0
B Channel Choice	YES
Channels: Attendant Control (F	0
Redirection For ACD (Dissuas	NO

All Action

1

Configuration: alcatel51

Networks PCX

- PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1
      - Trunk Group
        - 1 T2 NO NO
          - T2/T1/T0 Access
          - Trunk
          - Virtual access fo
        - Trunk group NPD selec
      - 1 T2 PRI-ABCF 1 No No -1
      - 3 LIA E M 2W 1 No No -1 Ye
      - 4 T2 PRI-ABCF 1 No No -1
      - 5 NDDI (BCA) NDDI 1 No N
      - 6 NDDI (BCA) NDDI 1 No N
      - 7 T0 BRI-QSIG 1 No No -1

Configuration

alcatel51:0

Instance (reserved)	1
DTO joining	NO
Consultation Call On B Chann	NO
Automated Attendant	NO
Calling party Rights COS	0
Entity Number	1
TS Overflow	YES
Number To Be Added	
Supervised by Routing	NO
VPN Cost Limit for Incom.Calls	0
Immediate Trk Listening if VPN	YES
VPN TS %	50
CSTA-Monitored	NO
Max.% of trunks out CCD	0

All Action

1

Configuration: alcatel51

Networks PCX

- PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
    - 0 T2 PRI-ABCF 1 No No -1
      - Trunk Group
        - 1 T2 NO NO
          - T2/T1/T0 Access
          - Trunk
          - Virtual access fo
        - Trunk group NPD sele
      - 1 T2 PRI-ABCF 1 No No -1
      - 3 LIA E M 2W 1 No No -1 Ye
      - 4 T2 PRI-ABCF 1 No No -1
      - 5 NDDI (BCA) NDDI 1 No N
      - 6 NDDI (BCA) NDDI 1 No N
      - 7 T0 BRI-QSIG 1 No No -1

Configuration

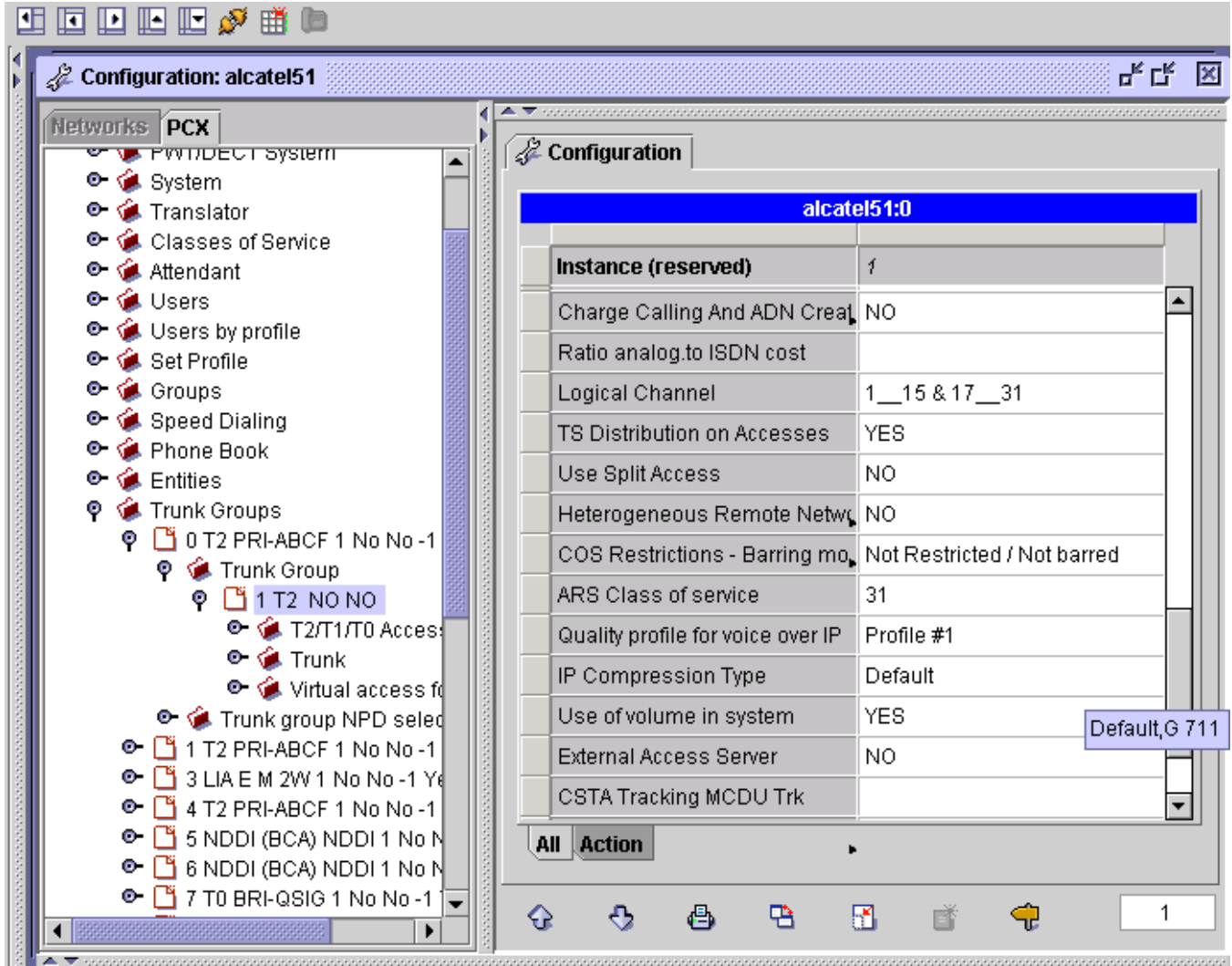
alcatel51:0

Instance (reserved)	1
DTO joining	NO
Consultation Call On B Chann	NO
Automated Attendant	NO
Calling party Rights COS	0
Entity Number	1
TS Overflow	YES
Number To Be Added	
Supervised by Routing	NO
VPN Cost Limit for Incom.Calls	0
Immediate Trk Listening if VPN	YES
VPN TS %	50
CSTA-Monitored	NO
Max.% of trunks out CCD	0

All Action

1

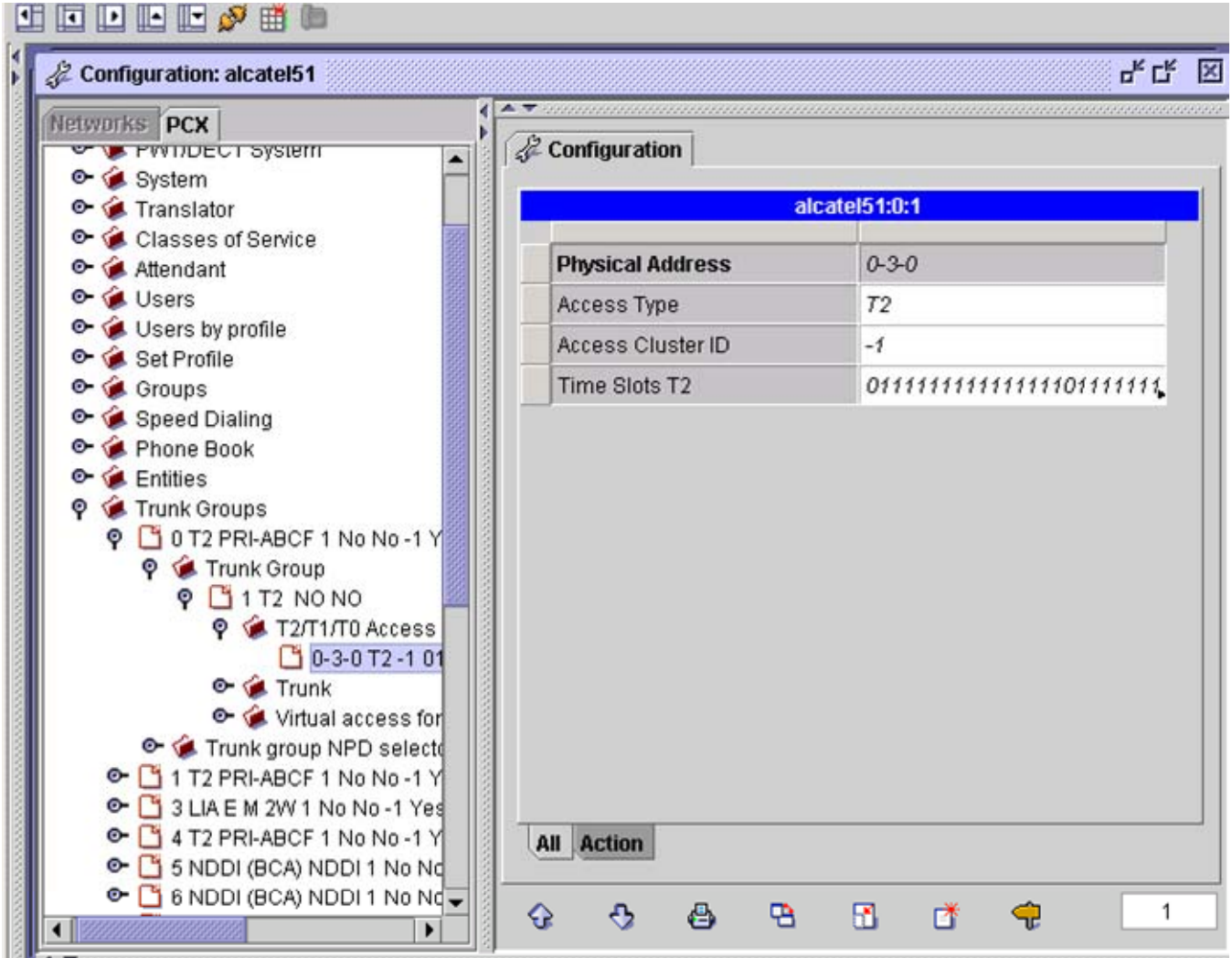




The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left pane shows a tree view of configuration objects under 'PCX', with 'Trunk Group' selected. The right pane shows the configuration details for 'alcatel51:0'.

alcatel51:0	
Instance (reserved)	1
Charge Calling And ADN Creat	NO
Ratio analog.to ISDN cost	
Logical Channel	1__15 & 17__31
TS Distribution on Accesses	YES
Use Split Access	NO
Heterogeneous Remote Netw	NO
COS Restrictions - Barring mo	Not Restricted / Not barred
ARS Class of service	31
Quality profile for voice over IP	Profile #1
IP Compression Type	Default
Use of volume in system	YES
External Access Server	NO
CSTA Tracking MCDU Trk	

At the bottom right of the configuration table, there is a tooltip that reads 'Default,G 711'. Below the table, there are 'All' and 'Action' buttons. The bottom status bar shows a page number '1'.



alcatel51:0:1	
Physical Address	0-3-0
Access Type	T2
Access Cluster ID	-1
Time Slots T2	011111111111111111110111111111



## Configure Network Routing

The screenshot displays the Cisco Configuration Manager interface for configuring network routing on device alcatel51. The left pane shows a tree view under 'Networks PCX' with 'alcatel51' expanded to 'Network Routing Table', where entry '2 1 QSIG-GF 11 0-1-1' is selected. The right pane shows the configuration details for 'alcatel51:1' in a table format.

alcatel51:1	
Network Number	2
Rank of First Digit to be Sent	1
Incoming identification prefix	
Protocol Type	QSIG-GF
Dialing Plan Descriptor ID	11
ARS Route list	0
Schedule number	-1
ATM Address ID	-1
Network call prefix	
City/Town Name	
Send City/Town Name	<input type="checkbox"/>
Associated Ext SIP gateway	-1

At the bottom of the window, a command line shows the following messages:

```
[1:48:19 PM] > Request 16 sent to alcatel51.  
[1:48:19 PM] > Request 16 completed on alcatel51: 16 instance(s) received.
```



## Configure Network Routing Own Node

The screenshot displays the Cisco Configuration Manager interface for configuring a node named 'alcatel51'. The left pane shows a tree view of configuration objects, with '3100 Local Features' selected. The right pane shows the configuration details for this object, including its number, prefix meaning, and associated local features.

alcatel51:1	
Number	3100
Prefix Meaning	Local Features
Local Features	PCX address in DPNSS

At the bottom of the interface, a command window shows the following output:

```
[1:46:31 PM] > Request 15 sent to alcatel51.  
[1:46:32 PM] > Request 15 completed on alcatel51: 94 instance(s) received.
```





## Configure Routing Prefix

The screenshot shows the Cisco Configuration Manager interface for configuring a routing prefix on a device named 'alcatel51'. The left pane shows a tree view of configuration objects, with '4 Routing No. 2 4 4' selected. The right pane shows the configuration details for 'alcatel51:1'.

alcatel51:1	
<b>Number</b>	4
Prefix Meaning	Routing No.
Network Number	2
Node Number/ABC-F Trunk Gro	4
Number of Digits	4
Number With Subaddress (ISDN	NO
Default X25 ID.pref.	NO

At the bottom of the window, a command window shows the following output:

```
[1:46:31 PM] > Request 15 sent to alcatel51.  
[1:46:32 PM] > Request 15 completed on alcatel51: 94 instance(s) received.
```



## Configure Digital Station

The screenshot displays the Cisco Configuration Manager interface for configuring a digital station. The left pane shows a tree view of the configuration hierarchy, with 'alcatel51' selected. The right pane shows the configuration details for 'alcatel51'.

alcatel51	
Directory Number	3004
Directory name	Big Doe
Directory First Name	
Location Node	1
Shelf Address	0
Board Address	2
Equipment Address	4
Set Type	4035T
Entity Number	1
Set Function	Default
Profile Name	
Key Profiles	None
Domain Identifier	0
Add On Module 1	None
Add On Module 2	None

Navigation tabs: General Characteristics, PIN, Assoc.Sets, Rights, Profile, VoiceMail, Facilities, Set Characteristics, Hotel, SIP\_Attributes, Miscellaneous, All, Action.

Log messages:

```
[1:50:23 PM] > Request 17 sent to alcatel51.  
[1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.
```

Configuration: alcatel51

Networks PCX

- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
    - 3001 Jack Doe 1 0 2 1 4035T 1
    - 3002 Jill Doe 1 0 2 2 4035T 1
    - 3003 Female Doe 1 0 2 3 4035T 1
    - 3004 Big Doe 1 0 2 4 4035T 1
    - 3005 Little Doe 1 0 2 5 4035T 1
    - 3006 Doe Doe 1 0 2 6 4035T 1
    - 3010 alcatel ipphone1 1 255 255 255
    - 3032 Mummy Doe 1 0 7 0 ANALOG 1
    - 3033 Daddy Doe 1 0 7 1 ANALOG 1
    - 3034 Brother Doe 1 0 7 2 ANALOG 1
    - 3035 Sister Doe 1 0 7 3 ANALOG 1
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
  - External Services
  - Inter-Node Links

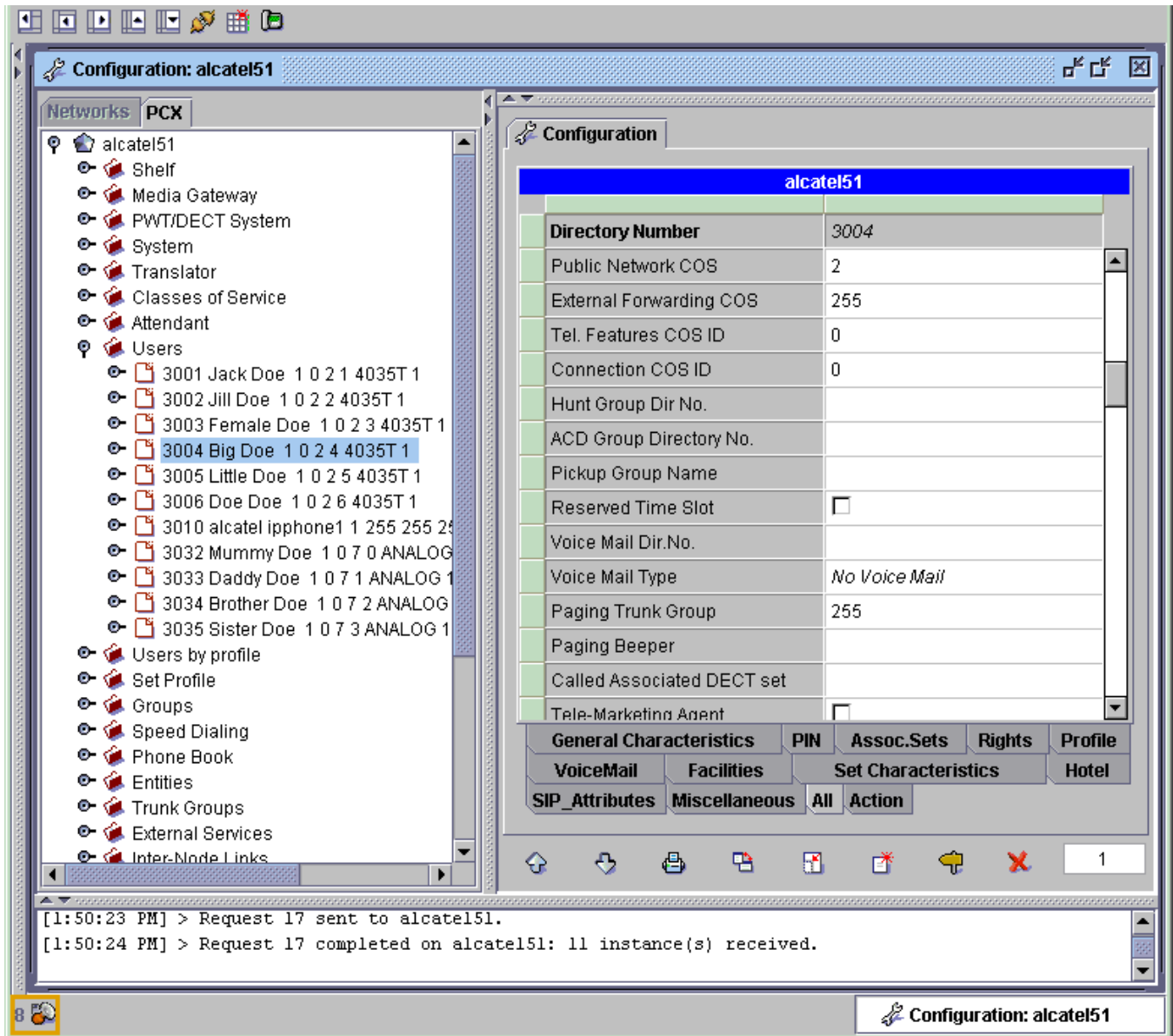
Configuration

alcatel51	
Directory Number	3004
Add On Module 3	None
External Alphanumeric Keyboard	None
Internal Alphanum.Keyboard	English
V24 Extension	<input type="checkbox"/>
S0 Extension	<input type="checkbox"/>
MAC/PC	NO
Z Adaptor	<input type="checkbox"/>
Language ID	1
Secret Code	****
Associated Set No.	3004
Cost Center ID	255
Cost Center Name	
Charging COS	Justified
Public Network COS	?

General Characteristics PIN Assoc.Sets Rights Profile  
 VoiceMail Facilities Set Characteristics Hotel  
 SIP\_Attributes Miscellaneous All Action

[1:50:23 PM] > Request 17 sent to alcatel51.  
 [1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.

Configuration: alcatel51



**Configuration: alcatel51**

**Networks PCX**

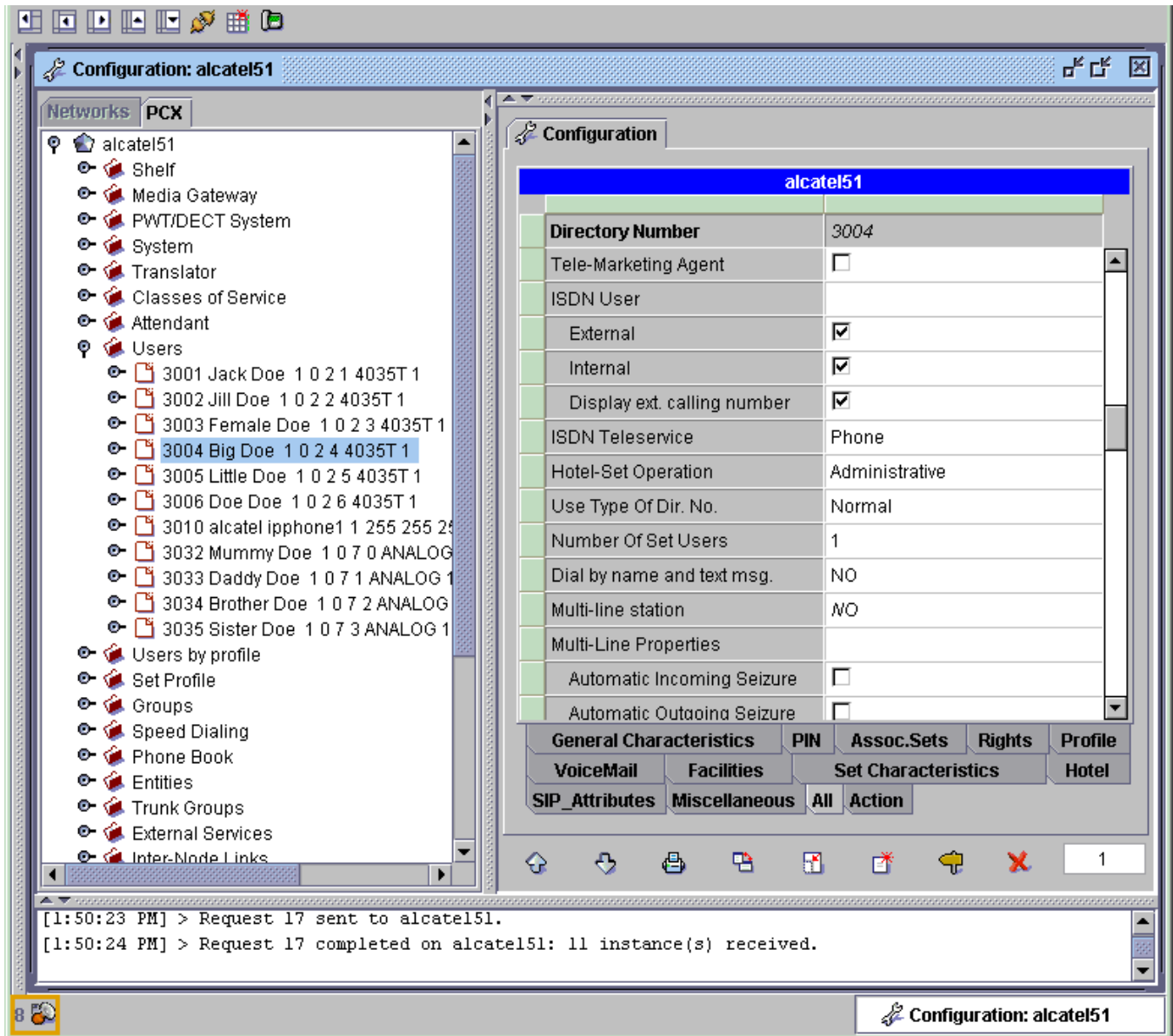
- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
    - 3001 Jack Doe 1 0 2 1 4035T 1
    - 3002 Jill Doe 1 0 2 2 4035T 1
    - 3003 Female Doe 1 0 2 3 4035T 1
    - 3004 Big Doe 1 0 2 4 4035T 1**
    - 3005 Little Doe 1 0 2 5 4035T 1
    - 3006 Doe Doe 1 0 2 6 4035T 1
    - 3010 alcatel ipphone1 1 255 255 255
    - 3032 Mummy Doe 1 0 7 0 ANALOG 1
    - 3033 Daddy Doe 1 0 7 1 ANALOG 1
    - 3034 Brother Doe 1 0 7 2 ANALOG 1
    - 3035 Sister Doe 1 0 7 3 ANALOG 1
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
  - External Services
  - Inter-Node Links

**Configuration**

alcatel51	
Directory Number	3004
Public Network COS	2
External Forwarding COS	255
Tel. Features COS ID	0
Connection COS ID	0
Hunt Group Dir.No.	
ACD Group Directory No.	
Pickup Group Name	
Reserved Time Slot	<input type="checkbox"/>
Voice Mail Dir.No.	
Voice Mail Type	No Voice Mail
Paging Trunk Group	255
Paging Beeper	
Called Associated DECT set	
Tele-Marketing Agent	<input type="checkbox"/>

General Characteristics | PIN | Assoc.Sets | Rights | Profile  
 VoiceMail | Facilities | Set Characteristics | Hotel  
 SIP\_Attributes | Miscellaneous | All | Action

[1:50:23 PM] > Request 17 sent to alcatel51.  
 [1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.



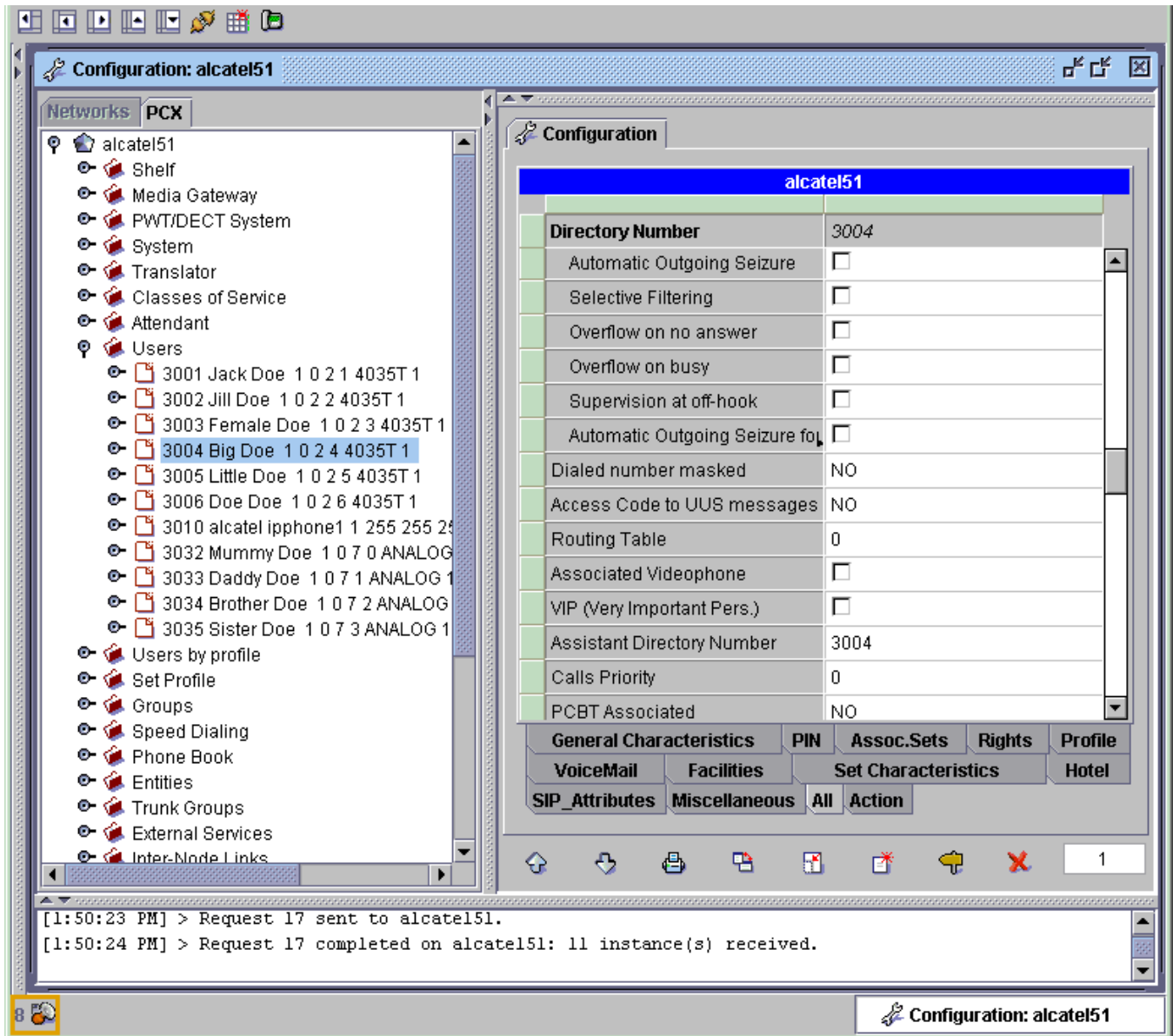
The screenshot displays the Cisco Configuration Manager interface for configuring a user on an Alcatel 51 system. The left pane shows a tree view of the configuration hierarchy, with the user '3004 Big Doe' selected. The right pane shows the configuration details for this user, including a table of properties and a set of tabs for further configuration options.

alcatel51	
Directory Number	3004
Tele-Marketing Agent	<input type="checkbox"/>
ISDN User	
External	<input checked="" type="checkbox"/>
Internal	<input checked="" type="checkbox"/>
Display ext. calling number	<input checked="" type="checkbox"/>
ISDN Teleservice	Phone
Hotel-Set Operation	Administrative
Use Type Of Dir. No.	Normal
Number Of Set Users	1
Dial by name and text msg.	NO
Multi-line station	NO
Multi-Line Properties	
Automatic Incoming Seizure	<input type="checkbox"/>
Automatic Outgoing Seizure	<input type="checkbox"/>

Configuration tabs: General Characteristics, PIN, Assoc.Sets, Rights, Profile, VoiceMail, Facilities, Set Characteristics, Hotel, SIP\_Attributes, Miscellaneous, All, Action.

Log messages at the bottom of the window:

```
[1:50:23 PM] > Request 17 sent to alcatel51.
[1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.
```



The screenshot displays the Cisco Configuration Manager interface for configuring a user on a device named 'alcatel51'. The left pane shows a tree view of the configuration hierarchy, with 'Users' expanded to show a list of users. The user '3004 Big Doe 1 0 2 4 4035T 1' is selected. The right pane shows the configuration details for this user, including a table of settings and a set of tabs for further configuration options.

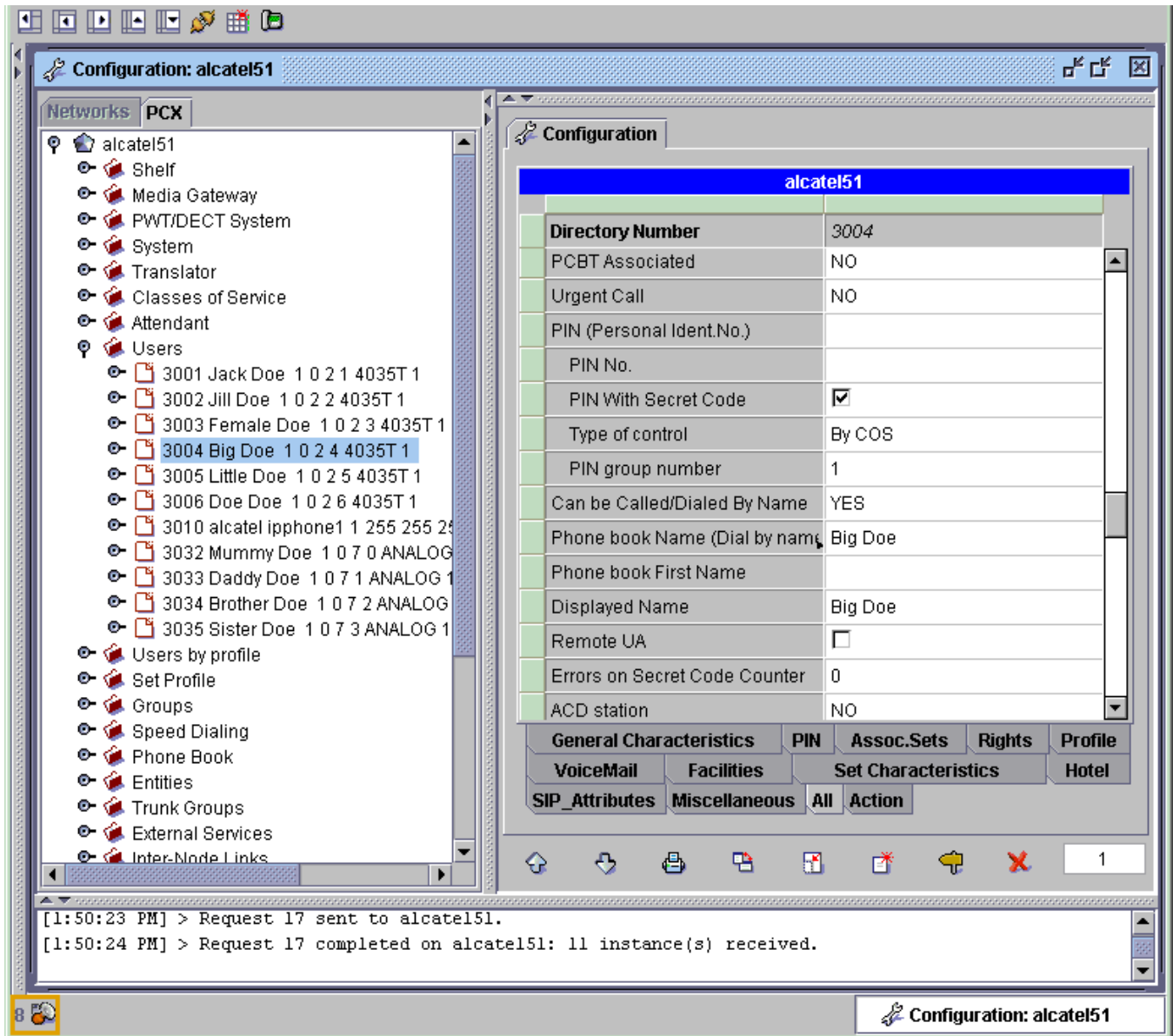
**Configuration: alcatel51**

**Configuration**

alcatel51	
<b>Directory Number</b>	3004
Automatic Outgoing Seizure	<input type="checkbox"/>
Selective Filtering	<input type="checkbox"/>
Overflow on no answer	<input type="checkbox"/>
Overflow on busy	<input type="checkbox"/>
Supervision at off-hook	<input type="checkbox"/>
Automatic Outgoing Seizure for	<input type="checkbox"/>
Dialed number masked	NO
Access Code to UUS messages	NO
Routing Table	0
Associated Videophone	<input type="checkbox"/>
VIP (Very Important Pers.)	<input type="checkbox"/>
Assistant Directory Number	3004
Calls Priority	0
PCBT Associated	NO

**General Characteristics**   **PIN**   **Assoc.Sets**   **Rights**   **Profile**  
**VoiceMail**   **Facilities**   **Set Characteristics**   **Hotel**  
**SIP\_Attributes**   **Miscellaneous**   **All**   **Action**

[1:50:23 PM] > Request 17 sent to alcatel51.  
 [1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.



The screenshot displays the Cisco Configuration Manager interface for configuring a PCX (Personal Call Extension) on a device named 'alcatel51'. The left pane shows a tree view of the configuration hierarchy, with 'Users' expanded to show a list of users. The user '3004 Big Doe 1 0 2 4 4035T 1' is selected. The right pane shows the configuration details for this user, including fields for Directory Number, PIN, and various call control options. Below the configuration table are several tabs for different configuration areas, and a status bar at the bottom shows the current page number '1'.

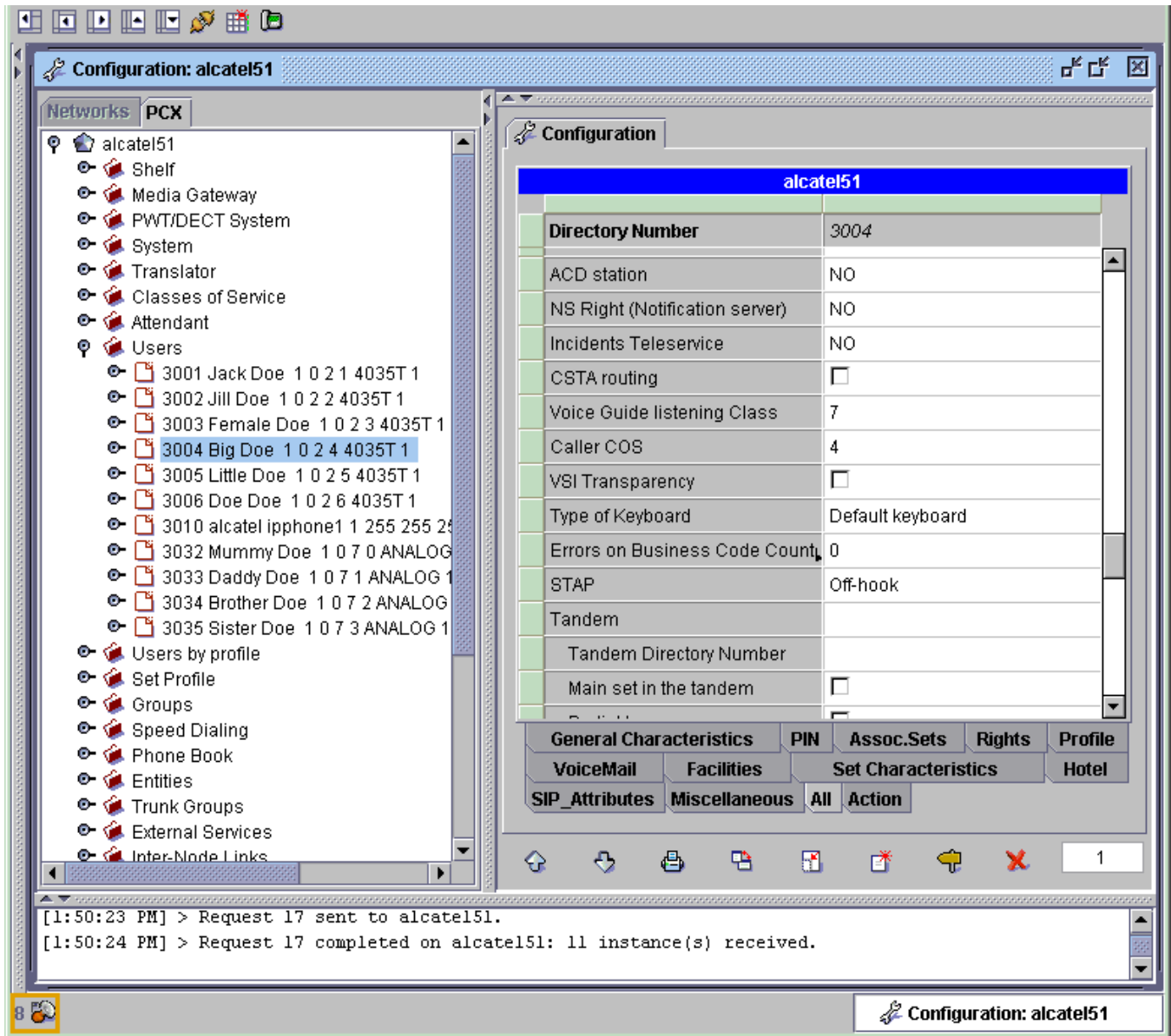
alcatel51	
Directory Number	3004
PCBT Associated	NO
Urgent Call	NO
PIN (Personal Ident.No.)	
PIN No.	
PIN With Secret Code	<input checked="" type="checkbox"/>
Type of control	By COS
PIN group number	1
Can be Called/Dialed By Name	YES
Phone book Name (Dial by name)	Big Doe
Phone book First Name	
Displayed Name	Big Doe
Remote UA	<input type="checkbox"/>
Errors on Secret Code Counter	0
ACD station	NO

Configuration tabs: General Characteristics, PIN, Assoc.Sets, Rights, Profile, VoiceMail, Facilities, Set Characteristics, Hotel, SIP\_Attributes, Miscellaneous, All, Action.

Status bar: 1

Log messages:

```
[1:50:23 PM] > Request 17 sent to alcatel51.
[1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.
```



The screenshot displays the Cisco Configuration Manager interface for configuring a user on an Alcatel 51 device. The left pane shows a tree view of the configuration hierarchy, with the user '3004 Big Doe' selected. The right pane shows the configuration details for this user, including a directory number of 3004 and various service settings.

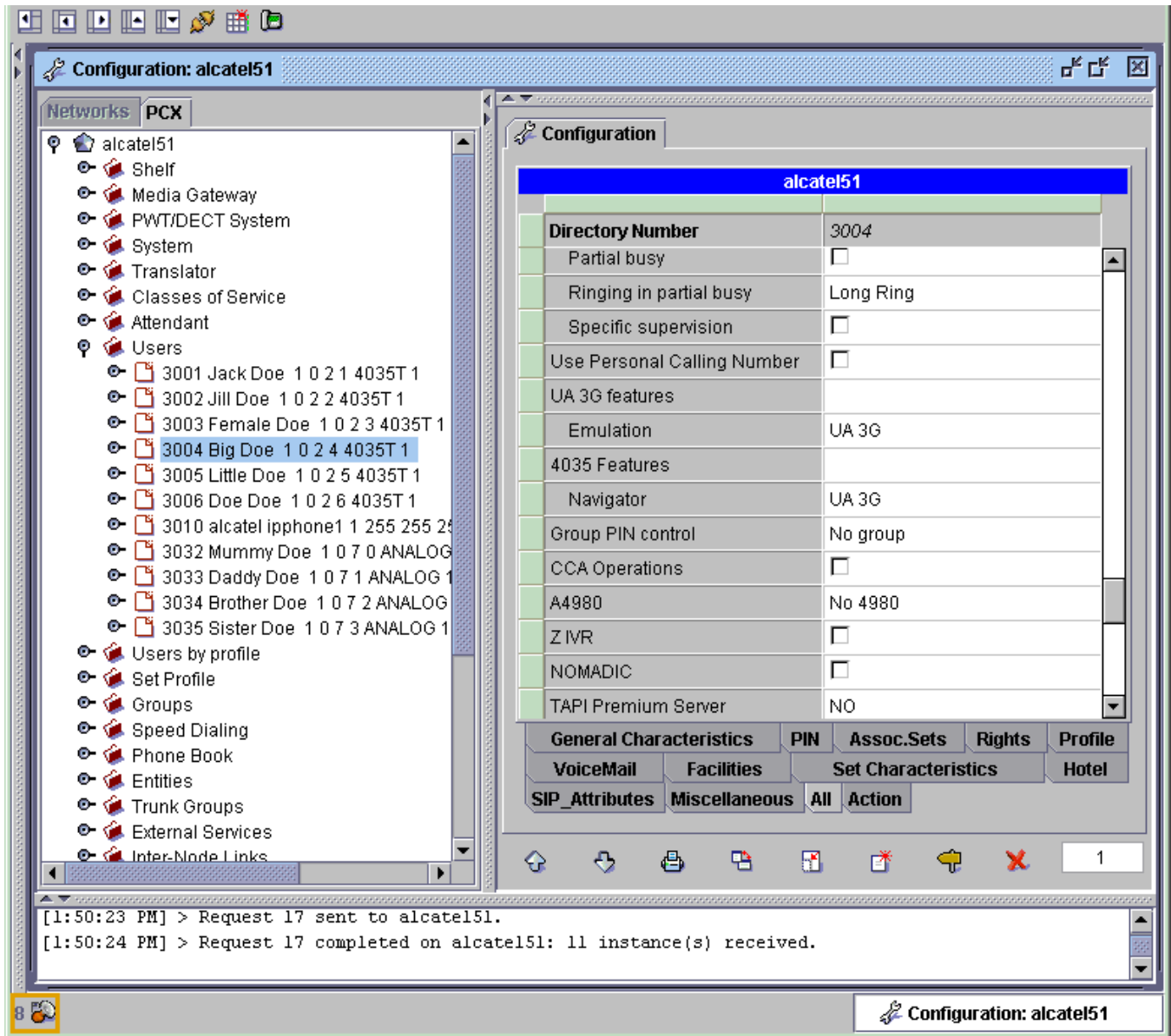
alcatel51	
Directory Number	3004
ACD station	NO
NS Right (Notification server)	NO
Incidents Teleservice	NO
CSTA routing	<input type="checkbox"/>
Voice Guide listening Class	7
Caller COS	4
VSI Transparency	<input type="checkbox"/>
Type of Keyboard	Default keyboard
Errors on Business Code Count	0
STAP	Off-hook
Tandem	
Tandem Directory Number	
Main set in the tandem	<input type="checkbox"/>

Navigation tabs at the bottom of the configuration pane include: General Characteristics, PIN, Assoc.Sets, Rights, Profile, VoiceMail, Facilities, Set Characteristics, Hotel, SIP\_Attributes, Miscellaneous, All, and Action.

The status bar at the bottom shows the following messages:

```
[1:50:23 PM] > Request 17 sent to alcatel51.
[1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.
```





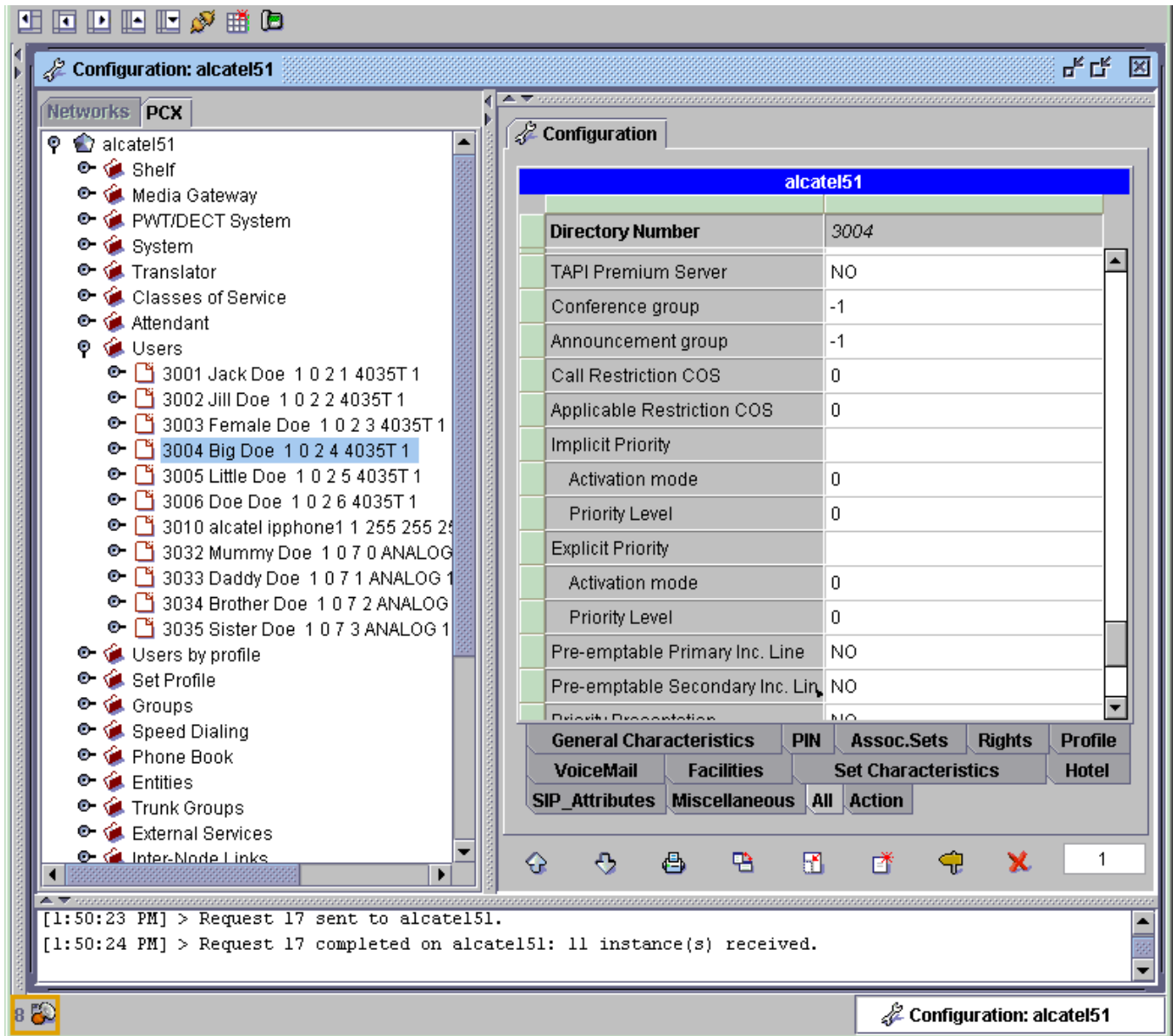
The screenshot displays the Cisco Configuration Manager interface for configuring a PCX (Personal Calling Number) on a device named 'alcatel51'. The left pane shows a tree view of the configuration hierarchy, with 'Users' > '3004 Big Doe' selected. The right pane shows the configuration details for this user, including a table of settings and a set of tabs for further configuration options.

alcatel51	
Directory Number	3004
Partial busy	<input type="checkbox"/>
Ringing in partial busy	Long Ring
Specific supervision	<input type="checkbox"/>
Use Personal Calling Number	<input type="checkbox"/>
UA 3G features	
Emulation	UA 3G
4035 Features	
Navigator	UA 3G
Group PIN control	No group
CCA Operations	<input type="checkbox"/>
A4980	No 4980
Z IVR	<input type="checkbox"/>
NOMADIC	<input type="checkbox"/>
TAPI Premium Server	NO

Configuration tabs: General Characteristics, PIN, Assoc.Sets, Rights, Profile, VoiceMail, Facilities, Set Characteristics, Hotel, SIP\_Attributes, Miscellaneous, All, Action.

Log messages at the bottom of the window:

```
[1:50:23 PM] > Request 17 sent to alcatel51.
[1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.
```



**Configuration: alcatel51**

**Networks PCX**

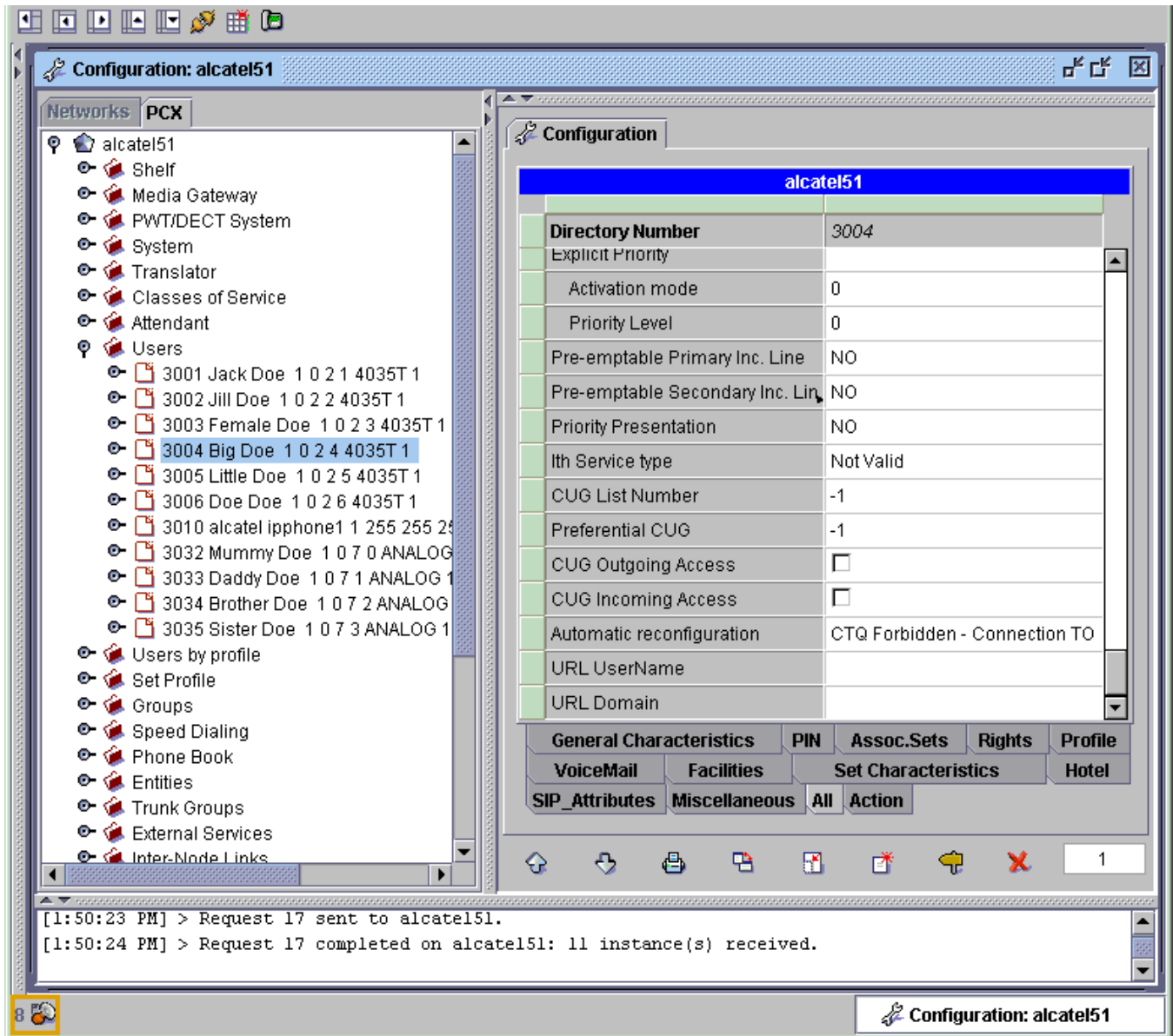
- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
    - 3001 Jack Doe 1 0 2 1 4035T 1
    - 3002 Jill Doe 1 0 2 2 4035T 1
    - 3003 Female Doe 1 0 2 3 4035T 1
    - 3004 Big Doe 1 0 2 4 4035T 1**
    - 3005 Little Doe 1 0 2 5 4035T 1
    - 3006 Doe Doe 1 0 2 6 4035T 1
    - 3010 alcatel ipphone1 1 255 255 255
    - 3032 Mummy Doe 1 0 7 0 ANALOG 1
    - 3033 Daddy Doe 1 0 7 1 ANALOG 1
    - 3034 Brother Doe 1 0 7 2 ANALOG 1
    - 3035 Sister Doe 1 0 7 3 ANALOG 1
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
  - External Services
  - Inter-Node Links

**Configuration**

alcatel51	
Directory Number	3004
TAPI Premium Server	NO
Conference group	-1
Announcement group	-1
Call Restriction COS	0
Applicable Restriction COS	0
Implicit Priority	
Activation mode	0
Priority Level	0
Explicit Priority	
Activation mode	0
Priority Level	0
Pre-emptable Primary Inc. Line	NO
Pre-emptable Secondary Inc. Line	NO
Priority Description	NO

General Characteristics | PIN | Assoc.Sets | Rights | Profile  
 VoiceMail | Facilities | Set Characteristics | Hotel  
 SIP\_Attributes | Miscellaneous | All | Action

[1:50:23 PM] > Request 17 sent to alcatel51.  
 [1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.



The screenshot displays the Cisco Configuration Manager interface for configuring a user on an Alcatel 51 device. The left pane shows a tree view of the configuration hierarchy, with 'Users' expanded to show a list of users. The user '3004 Big Doe 1 0 2 4 4035T 1' is selected. The right pane shows the configuration details for this user, including a table of attributes and a set of tabs for further configuration options.

**Configuration: alcatel51**

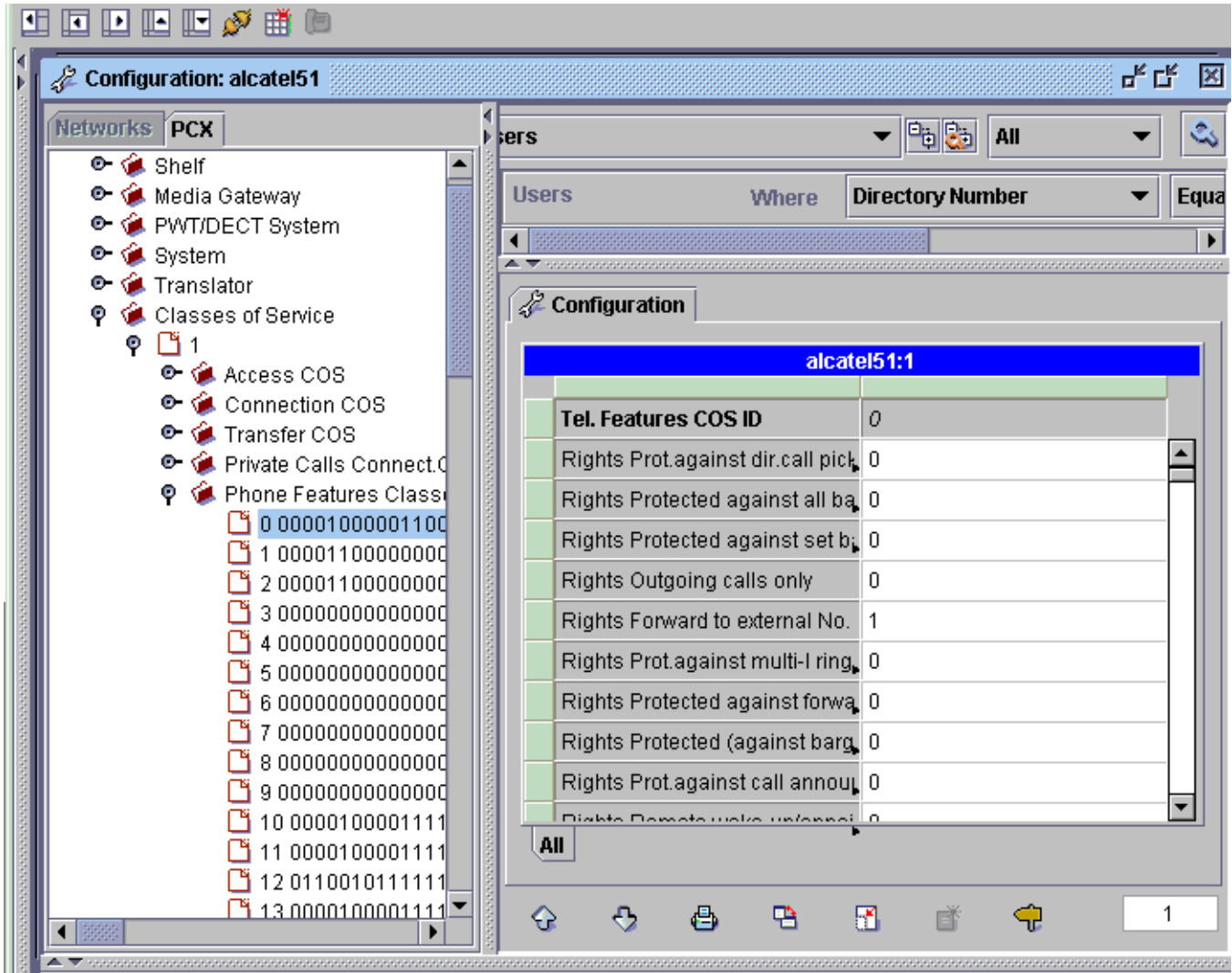
**Configuration**

alcatel51	
Directory Number	3004
Explicit Priority	
Activation mode	0
Priority Level	0
Pre-emptable Primary Inc. Line	NO
Pre-emptable Secondary Inc. Lin	NO
Priority Presentation	NO
lth Service type	Not Valid
CUG List Number	-1
Preferential CUG	-1
CUG Outgoing Access	<input type="checkbox"/>
CUG Incoming Access	<input type="checkbox"/>
Automatic reconfiguration	CTQ Forbidden - Connection TO
URL UserName	
URL Domain	

**General Characteristics**   **PIN**   **Assoc.Sets**   **Rights**   **Profile**  
**VoiceMail**   **Facilities**   **Set Characteristics**   **Hotel**  
**SIP\_Attributes**   **Miscellaneous**   **All**   **Action**

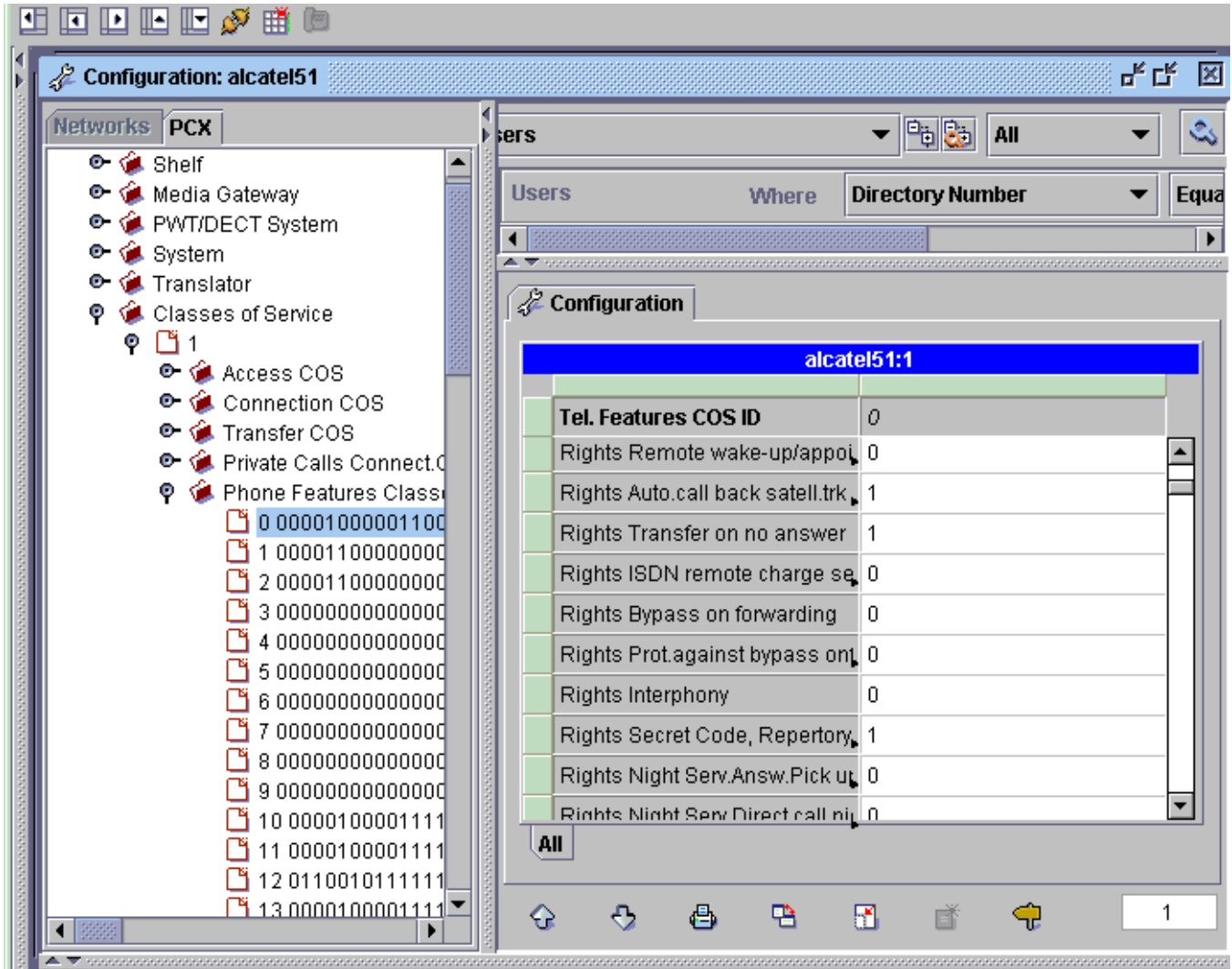
[1:50:23 PM] > Request 17 sent to alcatel51.  
 [1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.

## Configure Digital Station Phone Facilities



The screenshot displays the Cisco Configuration Manager interface for configuring Digital Station Phone Facilities. The left pane shows a tree view under 'Classes of Service' with 'Phone Features Class' expanded to show a list of 13 classes. The right pane shows the configuration for 'alcatel51:1' with a table of features and their values.

alcatel51:1	
Tel. Features COS ID	0
Rights Prot.against dir.call pick	0
Rights Protected against all ba	0
Rights Protected against set b	0
Rights Outgoing calls only	0
Rights Forward to external No.	1
Rights Prot.against multi-l ring	0
Rights Protected against forwa	0
Rights Protected (against barg	0
Rights Prot.against call annou	0
Rights Remote calls un/answ	0



**Configuration: alcatel51**

**Networks** **PCX**

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

**Users** **Where** **Directory Number** **Equa**

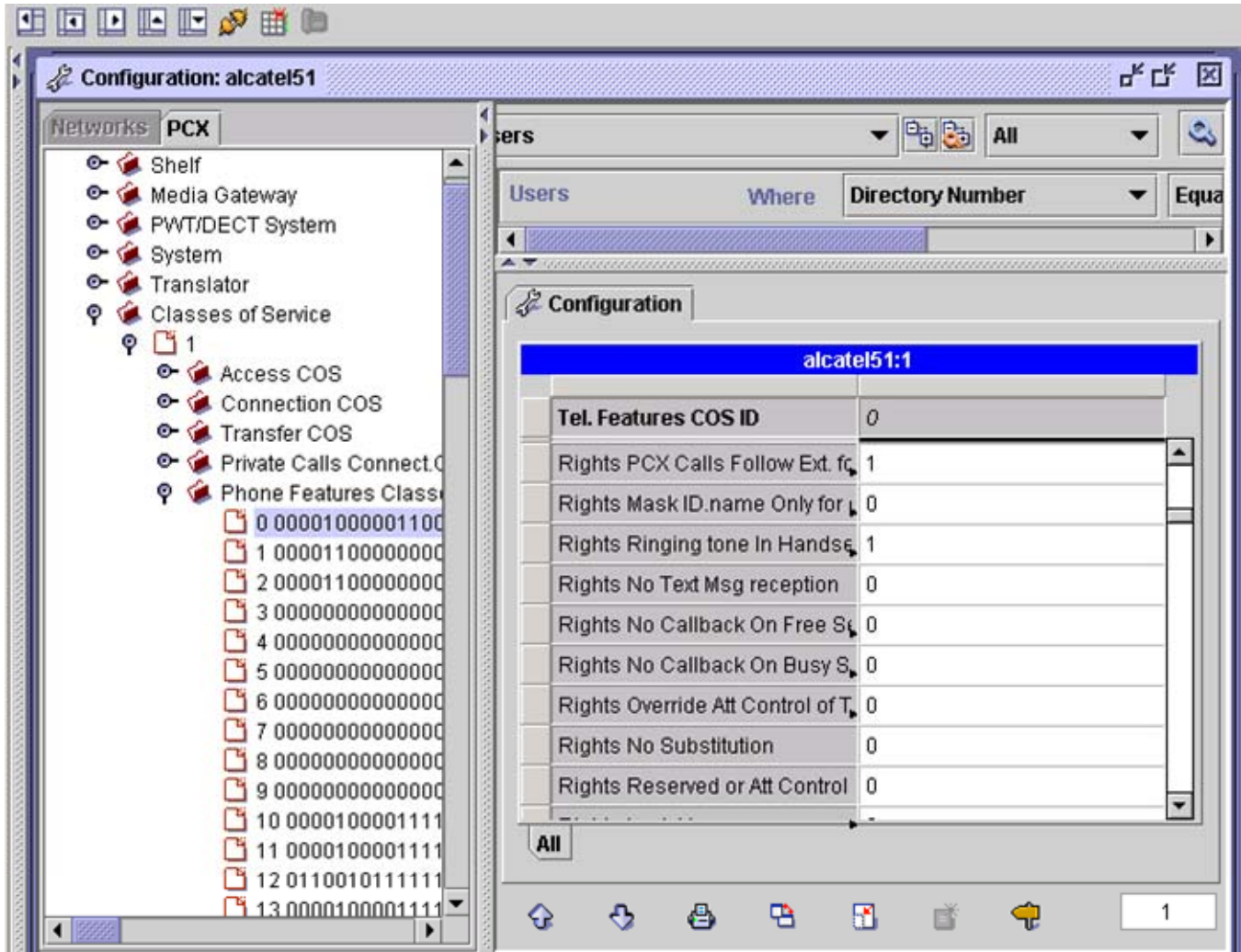
**Configuration**

**alcatel51:1**

<b>Tel. Features COS ID</b>	0
Rights Remote wake-up/appoi	0
Rights Auto.call back satell.trk	1
Rights Transfer on no answer	1
Rights ISDN remote charge se	0
Rights Bypass on forwarding	0
Rights Prot.against bypass on	0
Rights Interphony	0
Rights Secret Code, Repertory	1
Rights Night Serv.Answ.Pick up	0
Rights Night Serv Direct call ni	0

**All**

1

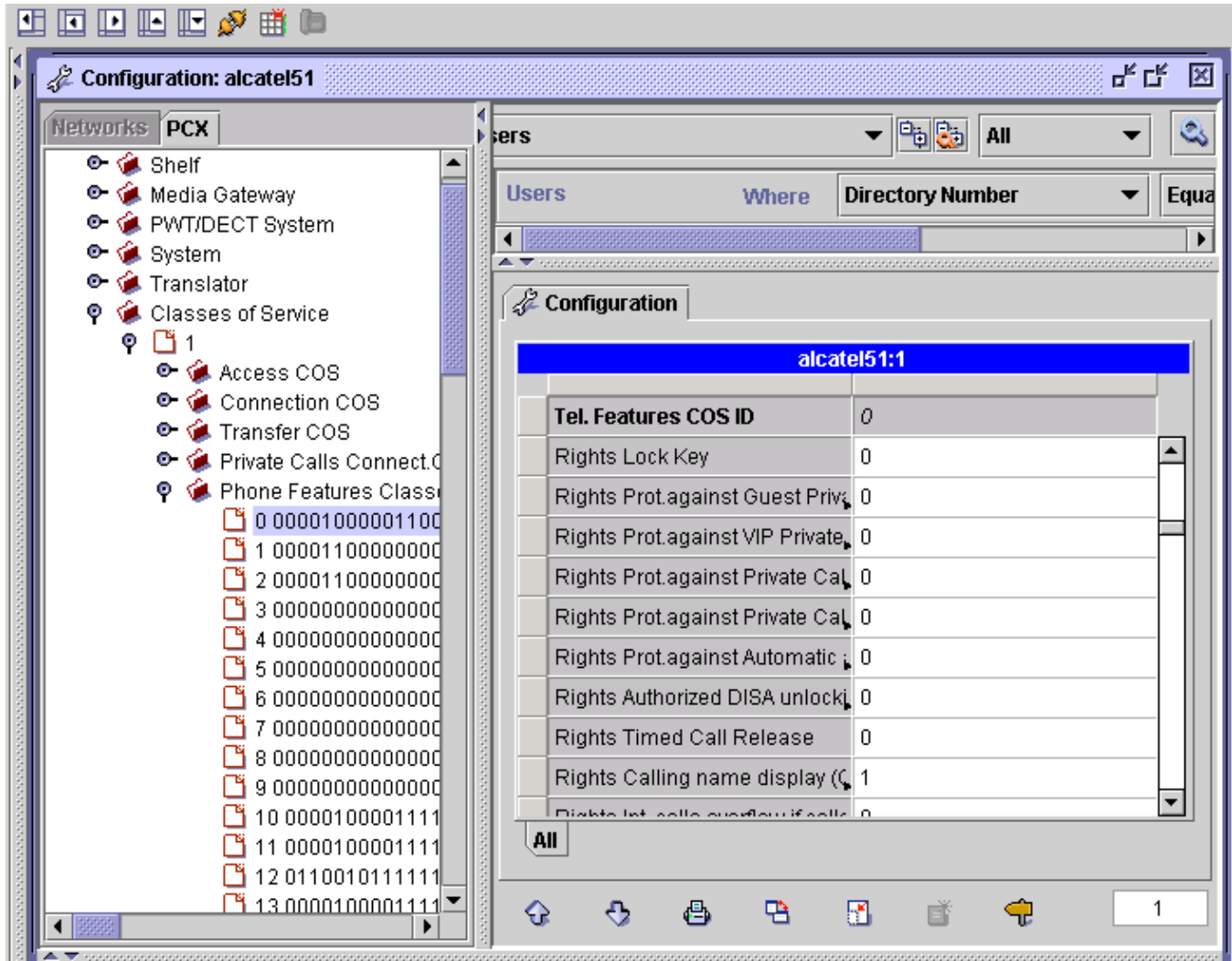


The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left-hand pane shows a hierarchical tree structure under 'Networks' > 'PCX'. The right-hand pane shows the configuration for 'alcatel51:1', which is a table of telephony features and their associated COS IDs.

alcatel51:1	
Tel. Features COS ID	0
Rights PCX Calls Follow Ext. f	1
Rights Mask ID.name Only for	0
Rights Ringing tone In Handse	1
Rights No Text Msg reception	0
Rights No Callback On Free S	0
Rights No Callback On Busy S	0
Rights Override Att Control of T	0
Rights No Substitution	0
Rights Reserved or Att Control	0

The left pane tree structure includes:

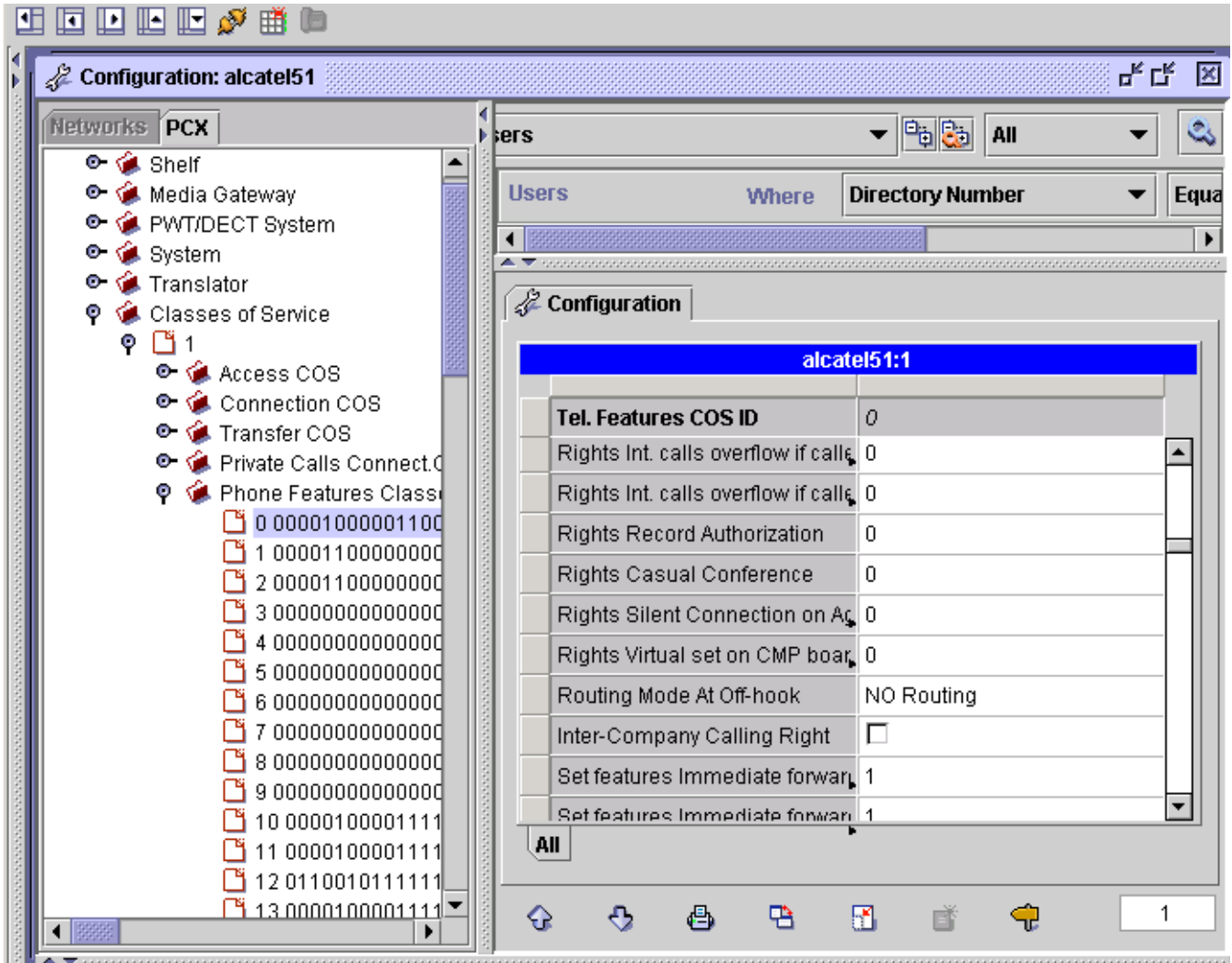
- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.C
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111



The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left pane shows a tree view under 'PCX' with 'Phone Features Class' expanded to show a list of 13 classes. The right pane shows the configuration for 'alcatel51:1' with a table of features and their values.

alcatel51:1	
Tel. Features COS ID	0
Rights Lock Key	0
Rights Prot.against Guest Priv	0
Rights Prot.against VIP Private	0
Rights Prot.against Private Ca	0
Rights Prot.against Private Ca	0
Rights Prot.against Automatic	0
Rights Authorized DISA unlocki	0
Rights Timed Call Release	0
Rights Calling name display (C	1
Rights let calls overflow if calls	0





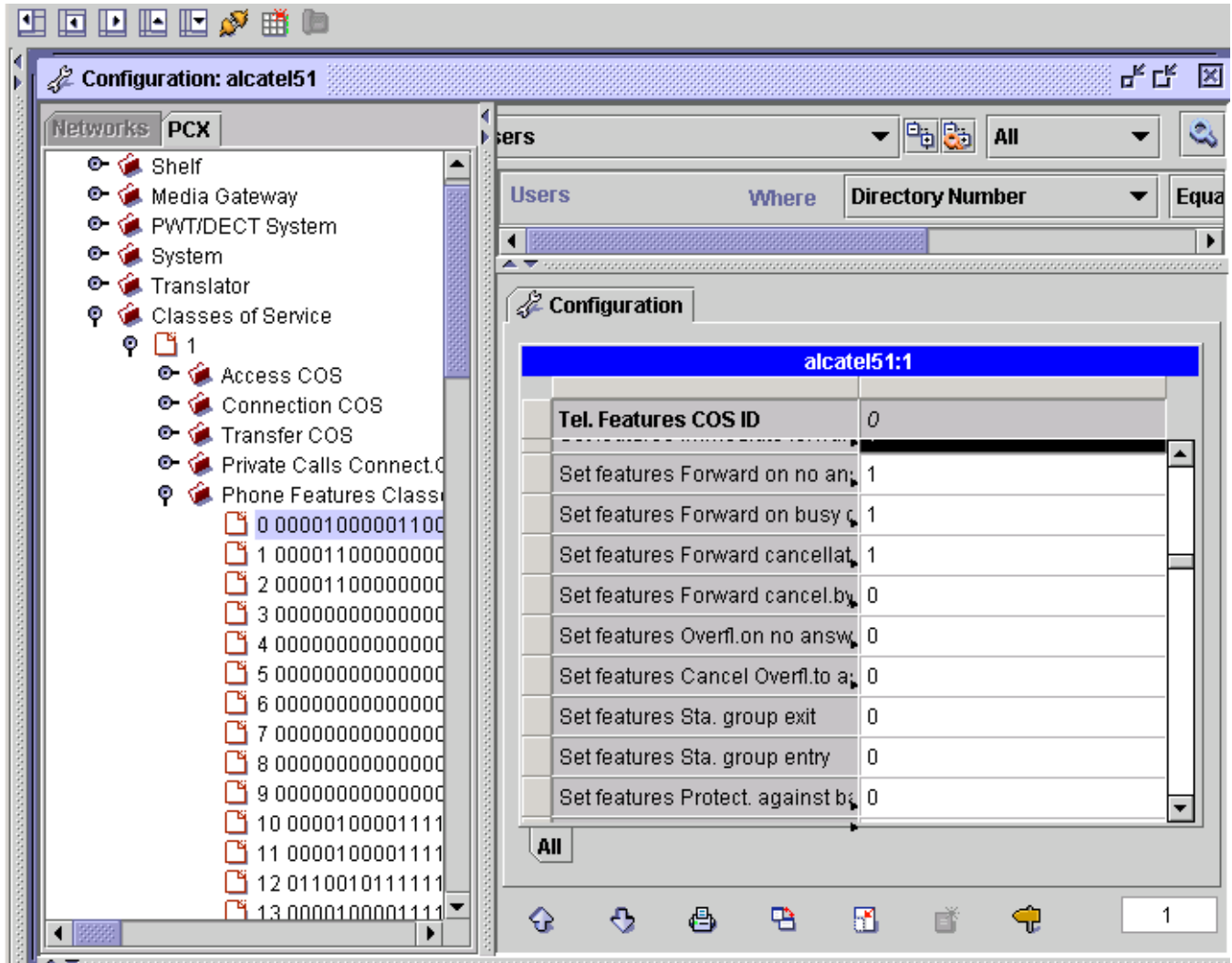
The screenshot shows the Cisco Unified Communications Manager (CUCM) configuration interface. The main window is titled "Configuration: alcatel51". On the left, a tree view shows the configuration hierarchy: Networks > PCX > Classes of Service > 1. The right pane displays the configuration for "alcatel51:1" with a table of settings.

alcatel51:1	
Tel. Features COS ID	0
Rights Int. calls overflow if call	0
Rights Int. calls overflow if call	0
Rights Record Authorization	0
Rights Casual Conference	0
Rights Silent Connection on Ag	0
Rights Virtual set on CMP boar	0
Routing Mode At Off-hook	NO Routing
Inter-Company Calling Right	<input type="checkbox"/>
Set features Immediate forward	1
Set features Immediate forward	1

At the bottom of the left pane, a list of 13 classes of service is visible, each with a unique 13-digit alphanumeric key:

- 0 00001000001100
- 1 00001100000000
- 2 00001100000000
- 3 00000000000000
- 4 00000000000000
- 5 00000000000000
- 6 00000000000000
- 7 00000000000000
- 8 00000000000000
- 9 00000000000000
- 10 0000100001111
- 11 0000100001111
- 12 0110010111111
- 13 0000100001111



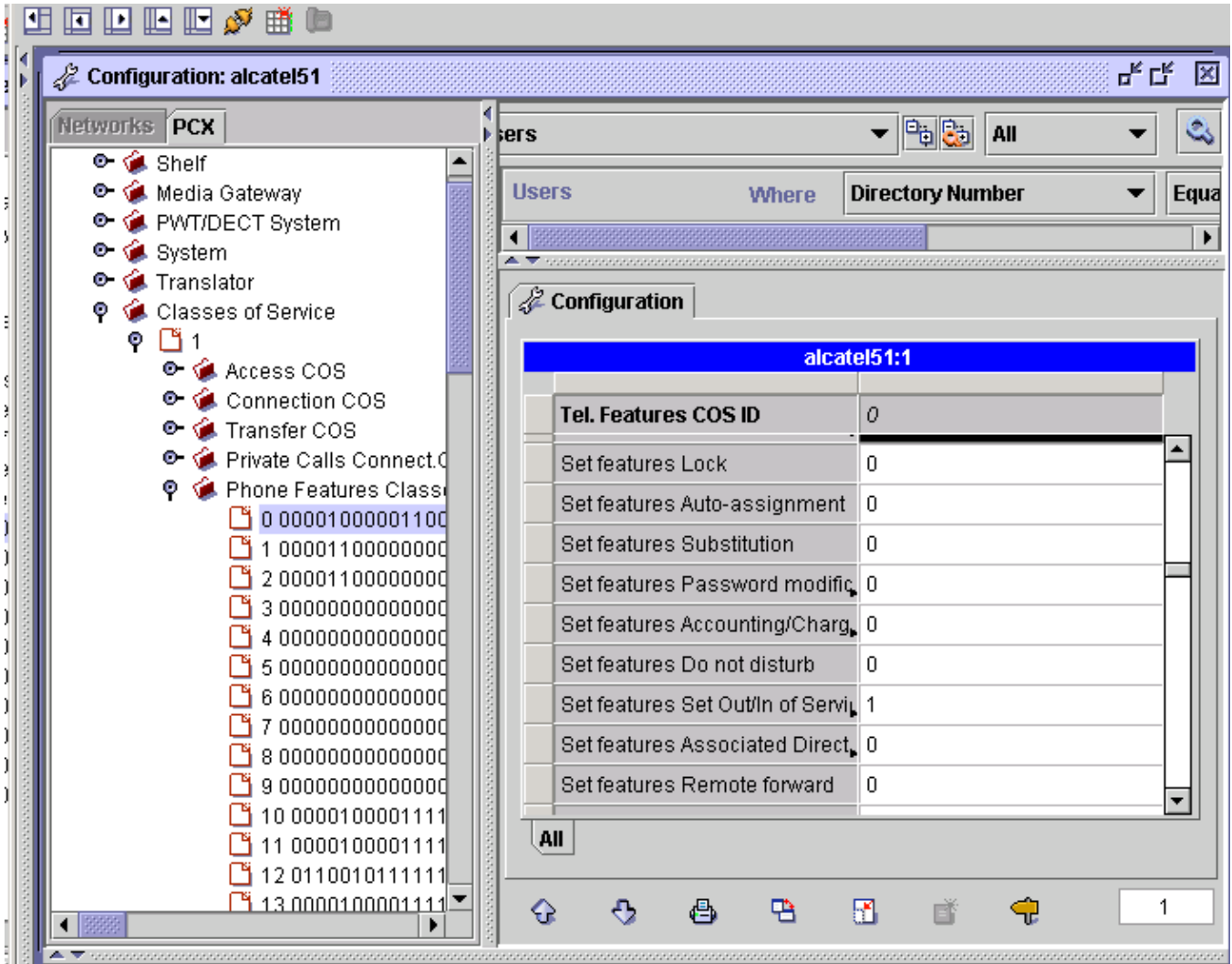


The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left-hand pane shows a hierarchical tree structure under 'PCX' (Personal Call Extension) configuration. The tree includes categories like Shelf, Media Gateway, PWT/DECT System, System, Translator, and Classes of Service. Under 'Classes of Service', there is a sub-entry '1' which contains a list of 'Phone Features Class' entries, numbered 0 through 13. Each entry is represented by a small red icon and a binary string (e.g., '0 00001000001100').

The main right-hand pane shows the 'Configuration' view for 'alcatel51:1'. It features a table with two columns: 'Tel. Features COS ID' and a corresponding value. The table lists various telephony features and their configured values:

Tel. Features COS ID	Value
0	0
Set features Forward on no an	1
Set features Forward on busy c	1
Set features Forward cancellat	1
Set features Forward cancel.by	0
Set features Overfl.on no answ	0
Set features Cancel Overfl.to a	0
Set features Sta. group exit	0
Set features Sta. group entry	0
Set features Protect. against b	0

At the bottom of the configuration pane, there is an 'All' button and a status bar with navigation icons and a page number '1'.



**Configuration: alcatel51**

Networks PCX

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

Users Where Directory Number Equa

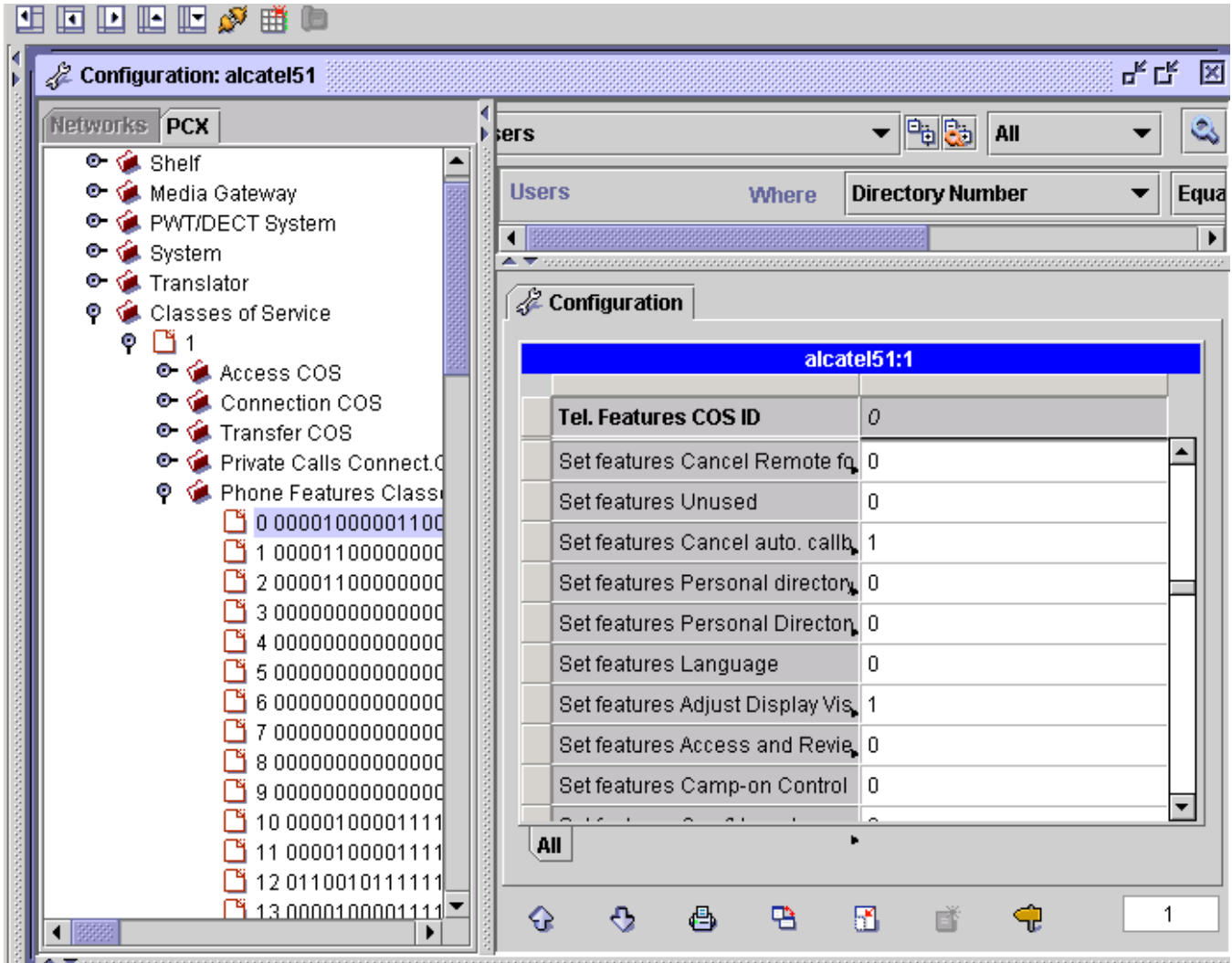
**Configuration**

**alcatel51:1**

Tel. Features COS ID	
Set features Lock	0
Set features Auto-assignment	0
Set features Substitution	0
Set features Password modific	0
Set features Accounting/Charg	0
Set features Do not disturb	0
Set features Set Out/In of Servi	1
Set features Associated Direct	0
Set features Remote forward	0

All

1



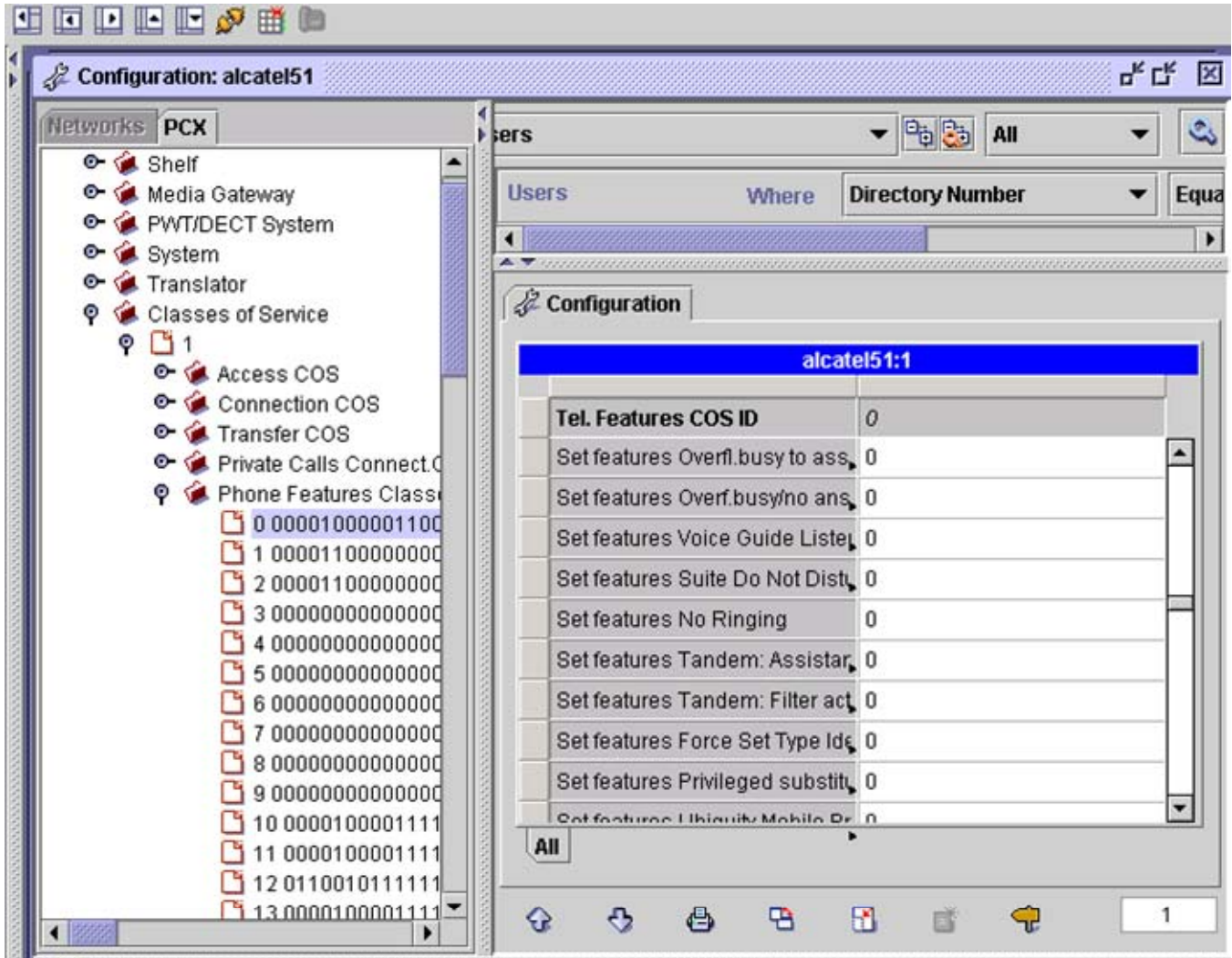
The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left-hand pane shows a hierarchical tree structure under 'PCX' (Phone Configuration XML) with the following items:

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

The right-hand pane shows the 'Configuration' section for 'alcatel51:1'. It contains a table of features and their values:

Tel. Features COS ID	Value
Set features Cancel Remote fq	0
Set features Unused	0
Set features Cancel auto. callb	1
Set features Personal directory	0
Set features Personal Director	0
Set features Language	0
Set features Adjust Display Vis	1
Set features Access and Revie	0
Set features Camp-on Control	0

At the bottom of the interface, there is a toolbar with navigation icons and a page number '1'.



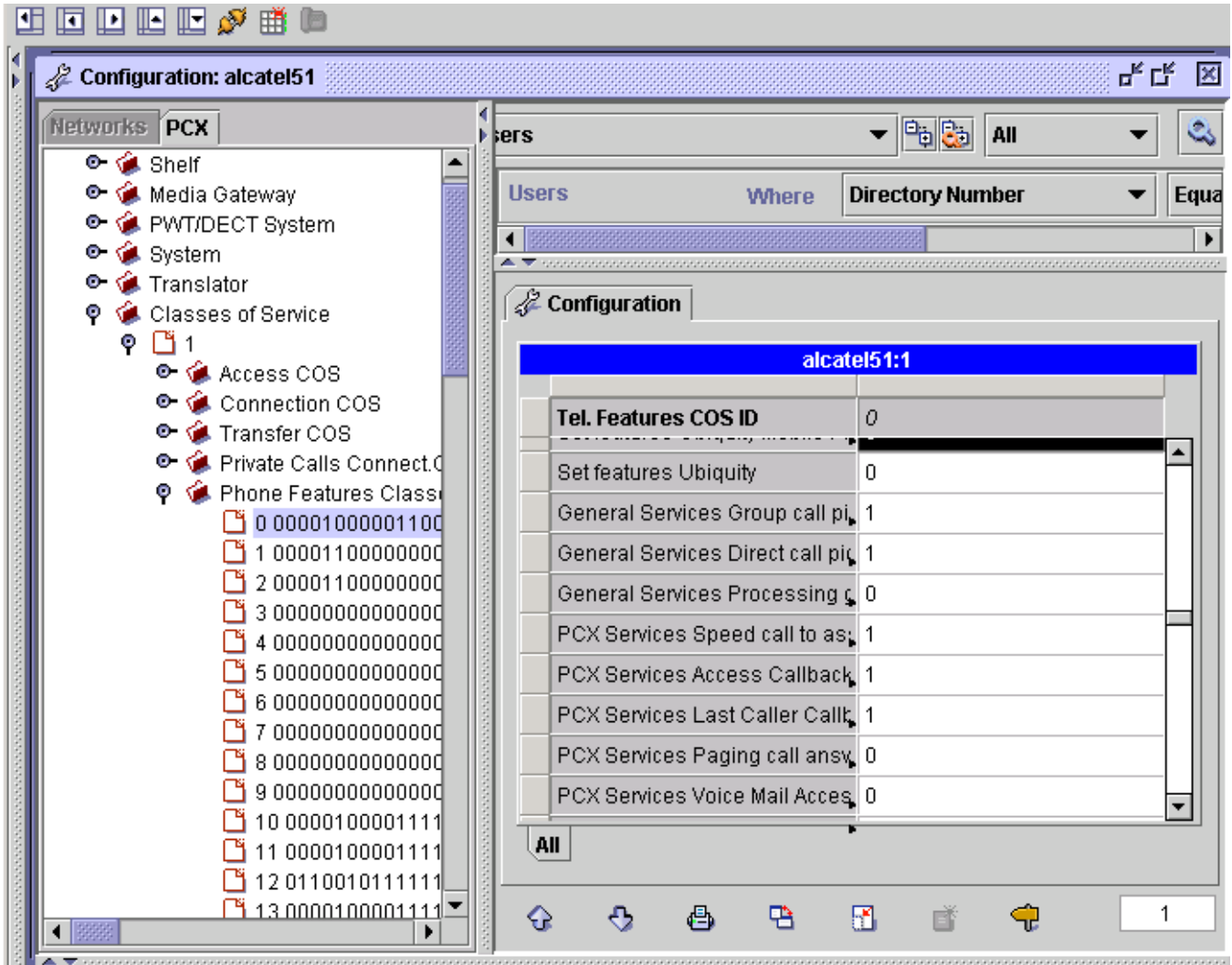
The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left-hand pane shows a hierarchical tree structure under 'PCX' (Personal Call XML) with the following items:

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect C
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

The right-hand pane shows the 'Configuration' view for 'alcatel51:1'. It contains a table of configuration parameters:

Tel. Features COS ID	Value
Set features Overfl.busy to ass	0
Set features Overfl.busy/no ans	0
Set features Voice Guide Liste	0
Set features Suite Do Not Dist	0
Set features No Ringing	0
Set features Tandem: Assistar	0
Set features Tandem: Filter act	0
Set features Force Set Type Id	0
Set features Privileged substit	0
Set features Ubiquity Mobile Pr	0

At the bottom of the configuration pane, there is an 'All' button and a status bar showing the number '1'.

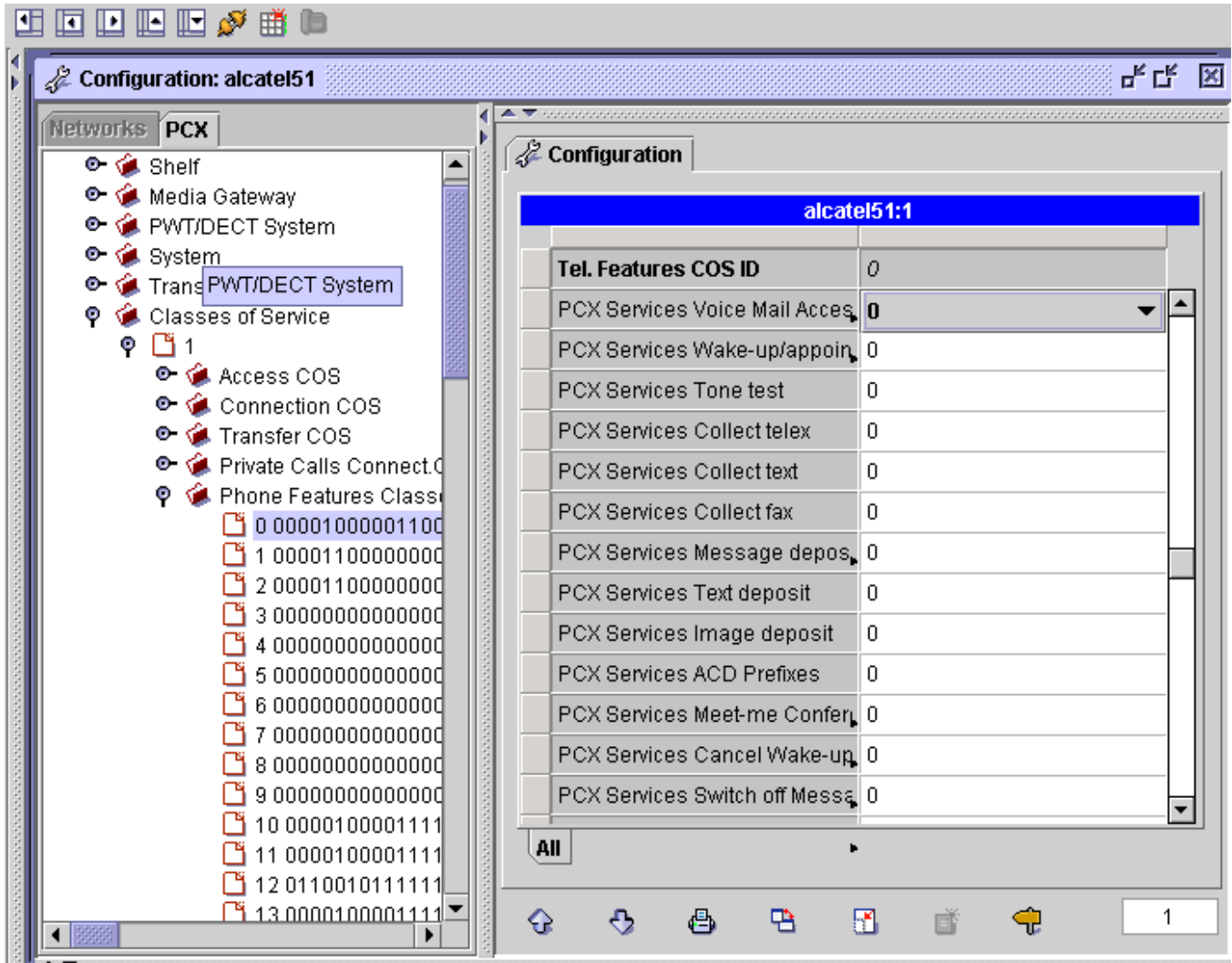


The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left-hand pane shows a hierarchical tree structure under 'PCX' (Personal Communications Exchange) configuration, including categories like Shelf, Media Gateway, PWT/DECT System, System, Translator, and Classes of Service. Under 'Classes of Service', a list of 13 classes is visible, each with a unique 13-digit ID.

The right-hand pane shows the 'Configuration' view for 'alcatel51:1'. It features a table with the following data:

Tel. Features COS ID	Value
0	0
Set features Ubiquity	0
General Services Group call pi	1
General Services Direct call pi	1
General Services Processing g	0
PCX Services Speed call to as	1
PCX Services Access Callback	1
PCX Services Last Caller Call	1
PCX Services Paging call ans	0
PCX Services Voice Mail Acces	0

At the bottom of the configuration pane, there is an 'All' button and a status bar showing the number '1'.



The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left pane shows a hierarchical tree under 'Networks' > 'PCX', with 'Classes of Service' > '1' selected. The right pane shows the configuration table for 'alcatel51:1'.

alcatel51:1	
Tel. Features COS ID	0
PCX Services Voice Mail Acces	0
PCX Services Wake-up/appoin	0
PCX Services Tone test	0
PCX Services Collect telex	0
PCX Services Collect text	0
PCX Services Collect fax	0
PCX Services Message depos	0
PCX Services Text deposit	0
PCX Services Image deposit	0
PCX Services ACD Prefixes	0
PCX Services Meet-me Confer	0
PCX Services Cancel Wake-up	0
PCX Services Switch off Mess	0

Below the table, there is an 'All' button and a status bar with navigation icons and a page number '1'.

Configuration: alcatel51

Networks PCX

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.C
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

Configuration

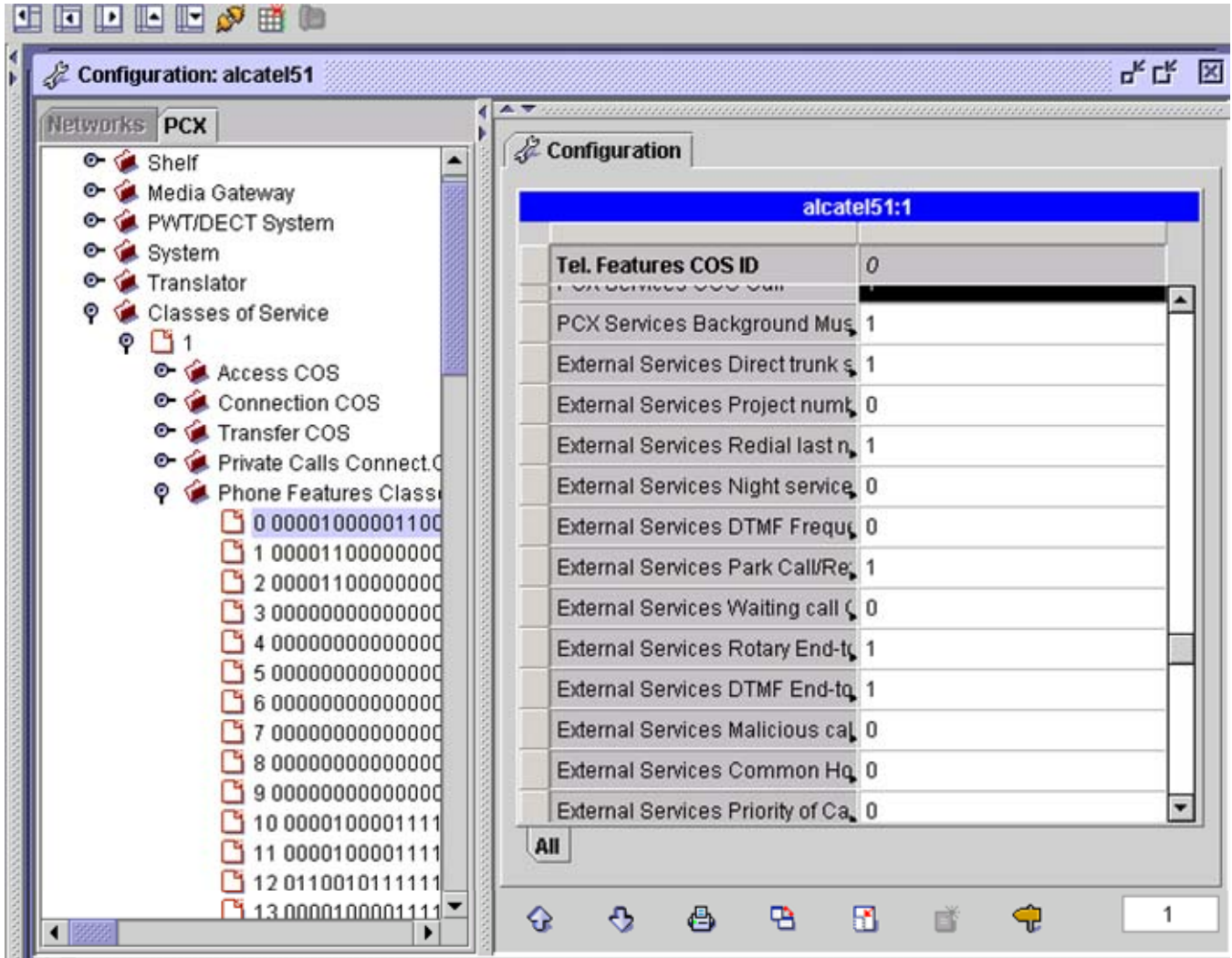
alcatel51:1

Tel. Features COS ID	
PCX Services Accessible V...	0
PCX Services Suite Wake-up	0
PCX Services Suite Wake-up C	0
PCX Services Physical Room C	0
PCX Services Under A4980 Cq	0
PCX Services Manual Add-on C	0
PCX Services Automatic Add-o	0
PCX Services Announcement	0
PCX Services Automatic Answ	0
PCX Services Call Restriction	0
PCX Services Explicit Priority	0
PCX Services Intercom Service	0
PCX Services Explicit Precede	0
PCX Services CUG Call	1

All

1





The screenshot displays the Cisco Configuration Manager interface for a device named 'alcatel51'. The left pane shows a tree view of the configuration hierarchy under 'PCX', including 'Classes of Service' and 'Phone Features Class'. The right pane shows the configuration for 'alcatel51:1', which is a table of Tel. Features COS ID and their corresponding values.

Tel. Features COS ID	Value
0	00001000001100
1	00001100000000
2	00001100000000
3	00000000000000
4	00000000000000
5	00000000000000
6	00000000000000
7	00000000000000
8	00000000000000
9	00000000000000
10	00001000011111
11	00001000011111
12	01100101111111
13	00000100001111

The right pane also shows a list of external services with their values:

Service Name	Value
PCX Services COS ID	0
PCX Services Background Mus	1
External Services Direct trunk	1
External Services Project num	0
External Services Redial last n	1
External Services Night service	0
External Services DTMF Frequ	0
External Services Park Call/Re	1
External Services Waiting call	0
External Services Rotary End-t	1
External Services DTMF End-t	1
External Services Malicious ca	0
External Services Common Hq	0
External Services Priority of Ca	0



Configuration: alcatel51

Networks PCX

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

Configuration

alcatel51:1

Tel. Features COS ID	0
External Services Secret/Identif	1
External Services Alphanumeric	0
External Services Manual Hold	1
Suffixes Broker Call	0
Suffixes Three-Party conferenc	1
Suffixes Barge-in	1
Suffixes Callback on free or bu	1
Suffixes Camp-on Waiting	0
Suffixes Speaker Paging	0
Suffixes Call announce throug	0
Suffixes Consultation Call	1
Suffixes Paging request	0
Suffixes Project number	0

All

1

Configuration: alcatel51

Networks PCX

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

Configuration

alcatel51:1

Tel. Features COS ID	
Suffixes Project number	0
Suffixes Rotary End-to-End Dia	1
Suffixes DTMF end-to-end dial	1
Suffixes Malicious Call	0
Suffixes Voice Mail Message D	0
Suffixes Camp-on Control	0
Suffixes Voice Mail Access	0
Suffixes By pass on Do Not Dis	0
Speed Dialing Area Area 0	1
Speed Dialing Area Area 1	1
Speed Dialing Area Area 2	1
Speed Dialing Area Area 3	1
Speed Dialing Area Area 4	1
Speed Dialing Area Area 5	1

All

1

Configuration: alcatel51

Networks PCX

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

Configuration

alcatel51:1

Tel. Features COS ID	
Speed Dialing Area Area 6	1
Speed Dialing Area Area 7	1
Speed Dialing Area Area 8	1
Speed Dialing Area Area 9	1
Speed Dialing Area Area 10	1
Speed Dialing Area Area 11	1
Speed Dialing Area Area 12	1
Speed Dialing Area Area 13	1
Speed Dialing Area Area 14	1
Speed Dialing Area Area 15	1
Speed Dialing Area Area 16	1
Speed Dialing Area Area 17	1
Speed Dialing Area Area 18	1

All

1

Configuration: alcatel51

Networks PCX

- Shelf
- Media Gateway
- PWT/DECT System
- System
- Translator
- Classes of Service
  - 1
    - Access COS
    - Connection COS
    - Transfer COS
    - Private Calls Connect.
    - Phone Features Class
      - 0 00001000001100
      - 1 00001100000000
      - 2 00001100000000
      - 3 00000000000000
      - 4 00000000000000
      - 5 00000000000000
      - 6 00000000000000
      - 7 00000000000000
      - 8 00000000000000
      - 9 00000000000000
      - 10 0000100001111
      - 11 0000100001111
      - 12 0110010111111
      - 13 0000100001111

Configuration

alcatel51:1

Tel. Features COS ID	0
Speed Dialing Area Area 23	1
Speed Dialing Area Area 24	1
Speed Dialing Area Area 25	1
Speed Dialing Area Area 26	1
Speed Dialing Area Area 27	1
Speed Dialing Area Area 28	1
Speed Dialing Area Area 29	1
Speed Dialing Area Area 30	1
Speed Dialing Area Area 31	1
Voice Mail Forwarding	Ring Final Set Mail
Default Overflow Type	No forward
Default Overflow Addressee	Nothing
Quality profile for voice over IP	Profile #2

All

1



## Software Release

OmniVista 4760 - NEXIRAONE:389 - AdminNmc

File Applications Security Preferences Configuration Windows Help

Configuration: alcatel51

Networks PCX

- alcatel51
  - Shelf
  - Media Gateway
  - PWT/DECT System
  - System
  - Translator
  - Classes of Service
  - Attendant
  - Users
  - Users by profile
  - Set Profile
  - Groups
  - Speed Dialing
  - Phone Book
  - Entities
  - Trunk Groups
  - External Services
  - Inter-Node Links
  - X25
  - DATA
  - Applications
  - Specific Telephone Services
  - ATM
  - Events Routing Discriminator
  - Security and Access Control
  - IP
  - SIP
  - DHCP Configuration

Configuration

Node Number (reserved)	101
Software Version	R5.1
Version name	e2.404
CPU Id	e931
Patch No.	0
Notes	
Object Identity	
Node Number (reserved)	101
Ethernet Notes	
Netmask	
Local CPU	
Name	nextiraone
IP Address	172.20.9.251
Twin CPU	
Name	
IP Address	
Main CPU	

All Action

[1:50:23 PM] > Request 17 sent to alcatel51.  
[1:50:24 PM] > Request 17 completed on alcatel51: 11 instance(s) received.

Configuration: alcatel51



## Configuring the Cisco Unified CallManager 2650XM\_E1 Gateway Configuration

### Gateway Configuration

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

**Product :** Cisco 26XX  
**Gateway :** S1/DS1-1@2650XMB4\_E1  
**Device Protocol:** Digital Access PRI  
**Registration:** Registered with Cisco CallManager CM-ANTARES  
**IP Address:** [172.20.5.2](#)

Status: Ready

#### Device Information

End-Point Name*	<input type="text" value="S1/DS1-1@2650XMB4_E1"/>
Description	<input type="text" value="S1/DS1-1@2650XMB4_E1"/>
Device Pool*	<input type="text" value="Default"/>
Call Classification*	<input type="text" value="Use System 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"/>
V150 (subset)	<input type="checkbox"/>

#### Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain (e.g., "0000FF")	<input type="text"/>
MLPP Indication	Not available on this device
MLPP Preemption	Not available on this device

#### Interface Information

PRI Protocol Type*	<input type="text" value="PRI QSIG E1"/>
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="A-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	

Enable status poll

**Call Routing Information**

**Inbound Calls**

Significant Digits\*

Calling Search Space

AAR Calling Search Space

Prefix DN

**Outbound Calls**

Calling Line ID Presentation\*

Calling Party Selection\*

Called party IE number type unknown\*

Calling party IE number type unknown\*

Called Numbering Plan\*

Calling Numbering Plan\*

Number of digits to strip\*

Caller ID DN

SMDI Base Port\*

**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\*\*\*\*

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)\*



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\*\*\*\*
- 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

**UUIE Configuration**

- Passing Precedence Level Through UUIE

Security Access Level	2
-----------------------	---

**Product Specific Configuration** 

Line Coding*	HDB3
Framing*	CRC4
Clock*	External
Input Gain (-6..14 db)*	0
Output Attenuation (-6..14 db)*	0
Echo Cancellation Enable*	Enable
Echo Cancellation Coverage (ms)*	Default

\* 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



## Partitions Configuration

System Route Plan Service Feature Device User Application Help

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

CISCO SYSTEMS

### 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



## Calling Search Space Configuration

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration  
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Cisco CallManager 4.1 Administration

### Calling Search Space Configuration

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

**Calling Search Space: Incoming Trunk (in use)**  
Status: Ready

**Calling Search Space Information**

Calling Search Space Name\*

Description

**Route Partitions for this Calling Search Space**

Find Partitions containing

Available Partitions

Phones
--------

▼ ▲

Selected Partitions\*  
(ordered by highest priority)

Incoming Trunk
----------------

▲ ▼

\* indicates required item

## 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

#### Calling Search Space Information

Calling Search Space Name\*

Description

#### Route Partitions for this Calling Search Space

Find Partitions containing

Available Partitions



Selected Partitions\*  
(ordered by highest priority)



\* indicates required item

# Calling Search Space Configuration

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

## Calling Search Space: PathreplacementCCS

Status: Ready

### Calling Search Space Information

Calling Search Space Name\*

Description

### Route Partitions for this Calling Search Space


Find Partitions containing

Available Partitions



Selected Partitions\*  
(ordered by highest priority)

Phones
Incoming Trunk



\* indicates required item



## Enbloc Route Pattern Configuration

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration  
For Cisco IP Telephony Solutions

CISCO SYSTEMS

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

### Route Pattern Configuration

**Route Pattern: 3XXX**

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

#### Pattern Definition

Route Pattern*	<input type="text" value="3XXX"/>
Partition	< None >
Description	<input type="text"/>
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route List*	S1/DS1-1@2650XMB4_E1 <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="-- Not Selected --"/>
Call Classification*	OffNet <input type="checkbox"/> Allow Device Override
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority
<input type="checkbox"/> Require Forced Authorization Code	Authorization Level <input type="text" value="0"/>
<input type="checkbox"/> Require Client Matter Code	

#### 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



### 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"/>

\* indicates required item.





## Overlap Sending Route Pattern Configuration

System Route Plan Service Feature Device User Application Help

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

Cisco CallManager 4.1 Administration

**Route Pattern Configuration**

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

**Route Pattern: 9.X**  
Status: Ready  
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

**Pattern Definition**

Route Pattern*	<input type="text" value="9.X"/>
Partition	<input style="border: none;" type="text" value=" &lt; None &gt; "/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input style="border: none;" type="text" value=" &lt; None &gt; "/>
MLPP Precedence	<input type="text" value="Default"/>
Gateway or Route List*	<input type="text" value="S1/DS1-1@2650XMB4_E1"/> <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input style="border: none;" type="text" value=" — Not Selected — "/>
Call Classification*	<input type="text" value="OffNet"/> <input type="checkbox"/> Allow Device Override
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input checked="" type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority
<input type="checkbox"/> Require Forced Authorization Code	
Authorization Level	<input type="text" value="0"/>
<input type="checkbox"/> Require Client Matter Code	

**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"/>
--------------------------------	--------------------------------------



Description

Numbering Plan\*

Route Filter

MLPP Precedence

Gateway or Route List\*  (Edit)

Route Option  
 Route this pattern  
 Block this pattern

Call Classification\*   Allow Device Override

Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority

Require Forced Authorization Code  
Authorization Level

Require Client Matter Code

#### 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"/>

\* indicates required item.



## PSTN Route Pattern Configuration

System Route Plan Service Feature Device User Application Help

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

CISCO SYSTEMS

**Route Pattern Configuration**

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

**Route Pattern: 91650364XXXX**

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

**Pattern Definition**

Route Pattern*	<input type="text" value="91650364XXXX"/>
Partition	<input style="border: none;" type="text" value=" &lt; None &gt; "/>
Description	<input type="text" value="PSTN Gateway"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input style="border: none;" type="text" value=" &lt; None &gt; "/>
MLPP Precedence	<input type="text" value="Default"/>
Gateway or Route List*	<input type="text" value="S1/DS1-1@2650XMB4_E1"/> <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input style="border: none;" type="text" value=" — Not Selected — "/>
Call Classification*	<input type="text" value="OffNet"/> <input type="checkbox"/> Allow Device Override
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority
<input type="checkbox"/> Require Forced Authorization Code	
Authorization Level	<input type="text" value="0"/>
<input type="checkbox"/> Require Client Matter Code	

**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"/>
--------------------------------	--------------------------------------

Local intranet

Description	PSTN Gateway	
Numbering Plan*	North American Numbering Plan	
Route Filter	< None >	
MLPP Precedence	Default	
Gateway or Route List*	S1/DS1-1@2650XMB4_E1 <a href="#">(Edit)</a>	
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <span style="border: 1px solid black; padding: 2px;">-- Not Selected --</span>	
Call Classification*	OffNet	<input type="checkbox"/> Allow Device Override
	<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending
	<input type="checkbox"/> Require Forced Authorization Code	<input type="checkbox"/> Urgent Priority
	Authorization Level	<input type="text" value="0"/>
	<input type="checkbox"/> Require Client Matter Code	
<b>Calling Party Transformations</b>		
	<input type="checkbox"/> 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	
<b>Connected Party Transformations</b>		
Connected Line ID Presentation	Default	
Connected Name Presentation	Default	
<b>Called Party Transformations</b>		
Discard Digits	< None >	
Called Party Transform Mask	<input type="text"/>	
Prefix Digits (Outgoing Calls)	<input type="text"/>	
<b>ISDN Network-Specific Facilities Information Element</b>		
Carrier Identification Code	<input type="text"/>	
Network Service Protocol	-- Not Selected --	
Network Service	Service Parameter Name	Service Parameter Value
-- Not Selected --	< Not Exist >	<input type="text"/>
<small>* indicates required item.</small>		



## Translation Pattern for Incoming Calls

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

CISCO SYSTEMS

### Translation Pattern Configuration

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

**Translation Pattern: 4XXX**  
Status: Ready

#### Pattern Definition

Translation Pattern	<input type="text" value="4XXX"/>
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="&lt; None &gt;"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

Done Local intranet



## CLIR Route Pattern Configuration

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

**CISCO SYSTEMS**

### Route Pattern Configuration

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

**Route Pattern: 3XXX**  
Status: Ready  
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

#### Pattern Definition

Route Pattern*	<input type="text" value="3XXX"/>
Partition	< None >
Description	<input type="text"/>
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route List*	S1/DS1-1@2650XMB4_E1 <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="Not Selected"/>
Call Classification*	OffNet <input type="checkbox"/> Allow Device Override
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority
<input type="checkbox"/> Require Forced Authorization Code	
Authorization Level	<input type="text" value="0"/>
<input type="checkbox"/> Require Client Matter Code	

#### 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	Restricted
Calling Name Presentation	Default

#### Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default



## CNIR Route Pattern Configuration

System Route Plan Service Feature Device User Application Help

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

Cisco CallManager 4.1 Administration

**Route Pattern Configuration**

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

**Route Pattern: 3XXX**  
Status: Ready  
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

**Pattern Definition**

Route Pattern*	<input type="text" value="3XXX"/>
Partition	< None >
Description	<input type="text"/>
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route List*	S1/DS1-1@2650XMB4_E1 <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="-- Not Selected --"/>
Call Classification*	OffNet <input type="checkbox"/> Allow Device Override
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority
<input type="checkbox"/> Require Forced Authorization Code	
Authorization Level	<input type="text" value="0"/>
<input type="checkbox"/> Require Client Matter Code	

**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	Restricted

**Connected Party Transformations**

Connected Line ID Presentation	Default
--------------------------------	---------





## COLR Translation Pattern Configuration

Cisco CallManager Administration  
For Cisco IP Telephony Solutions

CISCO SYSTEMS

### Translation Pattern Configuration

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

**Translation Pattern: 4XXX**  
Status: Ready

#### Pattern Definition

Translation Pattern	<input type="text" value="4XXX"/>
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 —"/>

Provide Outside Dial Tone  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="Restricted"/>
Connected Name Presentation	<input type="text" value="Default"/>

#### Called Party Transformations

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

\* indicates required item.



## CONR Translation Pattern Configuration

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

**CISCO SYSTEMS**

### Translation Pattern Configuration

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

**Translation Pattern: 4XXX**  
Status: Ready

#### Pattern Definition

Translation Pattern	<input type="text" value="4XXX"/>
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="Restricted"/>

#### Called Party Transformations

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

\* indicates required item.



## MWI Lamp On/Off Configuration

System Route Plan Service Feature Device User Application Help

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

CISCO SYSTEMS

Cisco CallManager 4.1 Administration [Add a New Message Waiting Number](#)  
[Back to Find/List Message Waiting Numbers](#)

### Message Waiting Configuration

**Message Waiting Number : 7001**  
Status: Ready

Message Waiting Number\*

Description

Message Waiting Indicator  On  Off

Partition

Calling Search Space

\* indicates required item

## Message Waiting Configuration

[Add a New Message Waiting Number](#)  
[Back to Find/List Message Waiting Numbers](#)

**Message Waiting Number : 7000**

Status: Ready

Copy

Update

Delete

Message Waiting Number\*

Description

Message Waiting Indicator  On  Off

Partition

Calling Search Space

\* indicates required item



## MWI DeActivate Translation Pattern Configuration

### Translation Pattern Configuration

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

**Translation Pattern: 7700**  
Status: Ready

#### Pattern Definition

Translation Pattern	<input type="text" value="7700"/>
Partition	<input type="text" value="Phones"/>
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 --"/>

Provide Outside Dial Tone       Urgent Priority

#### Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text" value="3004"/>
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="&lt; None &gt;"/>
Called Party Transform Mask	<input type="text" value="7000"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

\* indicates required item.



## MWI Activate Translation Pattern Configuration

### Translation Pattern Configuration

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

**Translation Pattern: 7701**  
Status: Ready

#### Pattern Definition

Translation Pattern	<input type="text" value="7701"/>
Partition	<input type="text" value="Phones"/>
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 —"/>

Provide Outside Dial Tone       Urgent Priority

#### Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text" value="3004"/>
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="&lt; None &gt;"/>
Called Party Transform Mask	<input type="text" value="7001"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

\* indicates required item.



## CallBack Service Parameters

Clusterwide Parameters (Feature - Call Back)		
Parameter Name	Parameter Value	Suggested Value
CallBack Enabled Flag*	<input type="text" value="True"/>	True
CallBack Notification Audio File Name*	<input type="text" value="CallBack.raw"/>	CallBack.raw
Connection Proposal Type*	<input type="text" value="Connection Retention"/>	Connection Retention
Connection Response Type*	<input type="text" value="Default to Connection Retention"/>	Default to Connection Retention
CallBack Request Protection Timer (T1) (sec)*	<input type="text" value="10"/>	10
CallBack Recall Timer (T3) (sec)*	<input type="text" value="20"/>	20
CallBack Calling Search Space	<input type="text" value="&lt; None &gt;"/>	



## CallBack Softkey Configuration

System Route Plan Service Feature Device User Application Help

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

CISCO SYSTEMS

### Softkey Template Configuration

[Add New Softkey Template](#)  
[Configure Softkey Layout](#)  
[Dependency Records](#)  
[Back to Find/List Softkey Templates](#)

**Softkey Template: Standard User CallBack**  
Status: Ready

Copy Update Delete Restart Devices

Softkey Template Name\* Standard User CallBack

Description Standard Softkey Template for CallManager only

Add Application Delete Application

Application Cisco CallManager

\* indicates required item



# Softkey Layout Configuration

[Softkey Template Configuration](#)

## Call States

- Connected
- Connected Conference
- Connected Transfer
- Digits After First
- Off Hook
- Off Hook With Feature
- On Hold
- On Hook**
- Remote In Use
- Ring In
- Ring Out

## Softkey Template: Standard User CallBack

Status: Ready

### Unselected Softkeys

Conference List (30)(ConfList)  
 Direct Transfer (28)(DirTrfr)  
 Immediate Divert (31)(IDivert)  
 Join (15)(Join)  
 Quality Report Tool (22)(QRT)  
 Remove Last Conference Party (19)  
 Select (29)(Select)  
 Undefined (0)(Undefined)  
 Video Mode Command (33)(VidMod)

### Selected Softkeys (ordered by position)\*\*

Redial (1)(Redial)  
 \*\*NewCall (2)(NewCall)  
 Forward All (5)(CfwdAll)  
 Call Back (20)(CallBack)

\*\* indicates mandatory fields  
 \* indicates required item

## Softkey Layout Configuration

[Softkey Template Configuration](#)

### Call States

- Connected
- Connected Conference
- Connected Transfer
- Digits After First
- Off Hook
- Off Hook With Feature
- On Hold
- On Hook
- Remote In Use
- Ring In
- Ring Out**

### Softkey Template: Standard User Callback

Status: Ready

Update

Restart Devices

#### Unselected Softkeys

Undefined (0)(Undefined)

#### Selected Softkeys (ordered by position)\*\*

Undefined (0)(Undefined)  
 \*\*\*End Call (9)(EndCall)  
 Call Back (20)(CallBack)

\*\* indicates mandatory fields

\* indicates required item



## Path Replacement Service Parameters

Clusterwide Parameters (Feature - Path Replacement)		
Parameter Name	Parameter Value	Suggested Value
Path Replacement Enabled*	<input type="text" value="True"/>	False
Path Replacement on Tromboned Calls*	<input type="text" value="True"/>	True
Start Path Replacement Minimum Delay Time (sec)*	<input type="text" value="2"/>	0
Start Path Replacement Maximum Delay Time (sec)*	<input type="text" value="4"/>	0
Path Replacement T1 Timer (sec)*	<input type="text" value="30"/>	30
Path Replacement T2 Timer (sec)*	<input type="text" value="15"/>	15
Path Replacement PINX Id	<input type="text" value="4100"/>	
Path Replacement Calling Search Space	<input type="text" value="PathreplacementCCS"/>	

## Call Pickup Configuration

[Add a New Call Pickup Number](#)  
[Back to Find/List Call Pickup Numbers](#)  
[Dependency Records](#)

Call Pickup Number: 4100 - Phones

Status: Ready

Cal Pickup Number\*

Description

Partition

\* indicates required item



### Forward by Reroute Service Parameter

Clusterwide Parameters (Feature - Forward)		
Parameter Name	Parameter Value	Suggested Value
Forward Maximum Hop Count*	<input type="text" value="12"/>	12
Forward No Answer Timer (sec)*	<input type="text" value="12"/>	12
Max Forward Hops to DN*	<input type="text" value="12"/>	12
Retain Forward Information*	<input type="text" value="False"/>	False
Forward By Reroute Enabled*	<input type="text" value="True"/>	False
Forward By Reroute T1 Timer (sec)*	<input type="text" value="10"/>	10



## 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**

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

**Phone: SEP00024BCCE045 (Auto 4000)**  
**Registration: Registered with Cisco CallManager CM-ANTARES**  
**IP Address: [172.20.237.101](#)**  
Status: Ready

**Phone Configuration (Model = Cisco 7960)**

**Device Information**

MAC Address*	<input type="text" value="00024BCCE045"/>
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"/>
Signal Packet Capture Mode	<input type="text" value="None"/>
Packet Capture Duration	<input type="text" value="0"/>
Built In Bridge	<input type="text" value="Default"/>
Privacy	<input type="text" value="Default"/>

Retry Video Call as Audio  
 Ignore Presentation Indicators (internal calls only)

**Phone Button Template Information**

Phone Button Template*	<input type="text" value="Standard 7960"/> <a href="#">(View button list)</a>
------------------------	---

**Softkey Template Information**

Softkey Template	<input type="text" value="Standard User CallBack"/>
------------------	---

**Expansion Module Information**



<b>Expansion Module Information</b>	
Module 1	< None >
Module 2	< None >
<b>Firmware Load Information (leave blank to use default)</b>	
Phone Load Name	
Module 1 Load Name	(Module 1 selection required)
Module 2 Load Name	(Module 2 selection required)
<b>Cisco IP Phone - External Data Locations (leave blank to use default)</b>	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	
<b>Extension Mobility (Device Profile) Information</b>	
<input type="checkbox"/> Enable Extension Mobility Feature	
Log Out Profile	— Not Selected —
Log In User ID	< None >
Log In Time	< None >
Log Out Time	< None >
<b>Certification Authority Proxy Function (CAPF) Information</b>	
Certificate Operation	No Pending Operation
Authentication Mode	By Authentication String
Authentication String	<input type="text"/> <input type="button" value="Generate String"/>
Key Size (bits)	1024
Operation Completes By**	: : : (YYYY : MM : DD : HH )
Certificate Operation Status : None	
<b>Multilevel Precedence and Preemption (MLPP) Information</b>	
MLPP Domain	(e.g., "0000FF")
MLPP Indication	Default
MLPP Preemption	Default

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

### Certification Authority Proxy Function (CAPF) Information

Certificate Operation

Authentication Mode

Authentication String

Key Size (bits)

Operation Completes By\*\*  :  :  :  (YYYY : MM : DD : HH)

Certificate Operation Status : None

### Multilevel Precedence and Preemption (MLPP) Information

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

MLPP Indication

MLPP Preemption

### Product Specific Configuration i

Disable Speakerphone

Disable Speakerphone and Headset

Forwarding Delay\*

PC Port\*

Settings Access\*

Gratuitous ARP\*

PC Voice VLAN Access\*

Video Capabilities\*

Auto Line Select\*

Web Access\*


\* indicates a required item.  
 \*\* Indicates time on Publisher.

[Back to top of page](#)  
[Back to Find/List Phones](#)



# Directory Number Configuration

[Configure Device \(SEP00024BCCE045\)](#)  
[Dependency Records](#)

**Associated With**  
 **SEP00024BCCE045**  
 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	Coverage/ Destination	Calling Search Space
Forward All	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>
Forward Busy Internal	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>
Forward Busy External	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>
Forward No Answer Internal	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>
Forward No Answer External	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>
Forward No Coverage Internal	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>
Forward No Coverage External	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" &lt; None &gt;"/>

No Answer Ring Duration  (seconds)

Call Pickup Group

### MLPP Alternate Party Settings

Target (Destination)

Calling Search Space

No Answer Ring Duration  (seconds)

### Line Settings for all Devices



Forward No Answer Internal	<input type="checkbox"/>	<input type="text"/>	< None >
Forward No Answer External	<input type="checkbox"/>	<input type="text"/>	< None >
Forward No Coverage Internal	<input type="checkbox"/>	<input type="text"/>	< None >
Forward No Coverage External	<input type="checkbox"/>	<input type="text"/>	< None >
No Answer Ring Duration	<input type="text"/>	(seconds)	
Call Pickup Group		< None >	
<b>MLPP Alternate Party Settings</b>			
Target (Destination)	<input type="text"/>		
Calling Search Space		< None >	
No Answer Ring Duration	<input type="text"/>	(seconds)	
<b>Line Settings for all Devices</b>			
Alerting Name	<input type="text"/>	John Smith	
<b>Line Settings for this Device</b>			
Display (Internal Caller ID)	<input type="text"/>	John Smith	
Line Text Label	<input type="text"/>	John Smith	
External Phone Number Mask	<input type="text"/>		
Message Waiting Lamp Policy		Use System Policy	
Ring Setting (Phone Idle)		Use System Default	
Ring Setting (Phone Active)**		Use System Default	
<b>Multiple Call / Call Waiting Settings</b>			
Maximum Number of Calls*	<input type="text"/>	4	(1 - 200)
Busy Trigger*	<input type="text"/>	2	(<= Max. Calls)
<b>Forwarded Call Information Display</b>			
<input checked="" type="checkbox"/> Caller Name		<input type="checkbox"/> Caller Number	
<input type="checkbox"/> Redirected Number		<input checked="" type="checkbox"/> Dialed Number	
<small>* 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.</small>			
<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 character set is selected. (English characters are included in all character sets.)			
Character Set	<input type="text"/>	Western European (Latin 1)	



## CallManager Software Release





## Configuring the Cisco 2650XM

### 2650XMB4\_E1#sho ver

Cisco Internetwork Operating System Software  
IOS (tm) C2600 Software (C2600-JS-M), Version 12.3(3), RELEASE SOFTWARE (fc2)  
Copyright (c) 1986-2003 by cisco Systems, Inc.  
Compiled Tue 19-Aug-03 16:31 by dchih  
Image text-base: 0x80008098, data-base: 0x81D2D464

ROM: System Bootstrap, Version 12.2(7r) [cmong 7r], RELEASE SOFTWARE (fc1)

2650XMB4\_E1 uptime is 1 week, 5 days, 2 hours, 54 minutes  
System returned to ROM by power-on  
System image file is "flash:c2600-js-mz.123-3.bin"

cisco 2650XM (MPC860P) processor (revision 0x100) with 124928K/6144K bytes of memory.  
Processor board ID JAD06150HXS (761445799)  
M860 processor: part number 5, mask 2  
Channelized E1, Version 1.0.  
Bridging software.  
X.25 software, Version 3.0.0.  
SuperLAT software (copyright 1990 by Meridian Technology Corp).  
TN3270 Emulation software.  
Primary Rate ISDN software, Version 1.1.  
1 FastEthernet/IEEE 802.3 interface(s)  
62 Serial network interface(s)  
Channelized E1/PRI port(s)  
32K bytes of non-volatile configuration memory.  
49152K bytes of processor board System flash (Read/Write)

Configuration register is 0x2

2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#

### 2650XMB4\_E1#sho run

Building configuration...

Current configuration : 2217 bytes

```
!  
version 12.3  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname 2650XMB4_E1  
!  
boot-start-marker  
boot-end-marker  
!  
!  
voice-card 1  
!  
no aaa new-model  
ip subnet-zero
```



```
ip tcp synwait-time 13
!
!
no ip domain lookup
ip host whiz 171.69.1.162
ip host dirt 171.69.1.129
ip host danube 171.69.17.14
ip host CM-ANTARES 172.20.237.254
ip name-server 172.20.237.254
!
ip cef
isdn switch-type primary-qsig
!
!
voice call carrier capacity active
!
!
!
!
!
!
no voice hpi capture buffer
no voice hpi capture destination
!
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server CM-ANTARES
ccm-manager config
!
!
controller E1 1/0
pri-group timeslots 1-31 service mgcp
!
controller E1 1/1
pri-group timeslots 1-31 service mgcp
!
!
!
interface FastEthernet0/0
ip address 172.20.5.2 255.255.255.0
duplex auto
speed auto
!
interface Serial1/0:15
no ip address
no logging event link-status
isdn switch-type primary-qsig
isdn protocol-emulate network
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
!
interface Serial1/1:15
no ip address
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
```



```
isdn bind-13 ccm-manager
isdn bchan-number-order ascending
no cdp enable
!
ip http server
ip classless
ip route 0.0.0.0 0.0.0.0 FastEthernet0/0
ip route 0.0.0.0 0.0.0.0 172.20.31.1
ip route 0.0.0.0 0.0.0.0 172.20.33.1
ip route 0.0.0.0 0.0.0.0 172.20.237.1
!
!
dialer-list 1 protocol ip permit
!
!
!
voice-port 1/0:15
!
voice-port 1/1:15
!
mgcp
mgcp call-agent CM-ANTARES 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
!
dial-peer cor custom
!
!
!
dial-peer voice 1 pots
application mgcpapp
port 1/0:15
!
dial-peer voice 2 pots
application mgcpapp
port 1/1:15
!
!
line con 0
line aux 0
line vty 0 4
login
line vty 5 15
login
!
!
!
```



end

2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
**2650XMB4\_E1#sho diag**

Slot 0:

C2650XM 1FE Mainboard Port adapter, 1 port  
Port adapter is analyzed  
Port adapter insertion time unknown  
EEPROM contents at hardware discovery:  
Hardware Revision : 1.0  
PCB Serial Number : JAD06150HXS (761445799)  
Part Number : 73-7755-02  
RMA History : 00  
RMA Number : 0-0-0-0  
Board Revision : A0  
Deviation Number : 0-0  
EEPROM format version 4  
EEPROM contents (hex):  
0x00: 04 FF 40 03 6E 41 01 00 C1 17 4A 41 44 30 36 31  
0x10: 35 30 48 58 53 20 28 37 36 31 34 34 35 37 39 39  
0x20: 29 82 49 1E 4B 02 04 00 81 00 00 00 00 42 41 30  
0x30: 80 00 00 00 00 FF FF FF FF FF FF FF FF FF FF FF  
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

Slot 1:

High Density Voice Port adapter  
Port adapter is analyzed  
Port adapter insertion time unknown  
EEPROM contents at hardware discovery:  
Hardware Revision : 1.1  
Top Assy. Part Number : 800-03567-01  
Board Revision : E0  
Deviation Number : 0-0  
Fab Version : 02  
PCB Serial Number : JAB043409F7  
RMA Test History : 00  
RMA Number : 0-0-0-0  
RMA History : 00  
EEPROM format version 4  
EEPROM contents (hex):  
0x00: 04 FF 40 00 CC 41 01 01 C0 46 03 20 00 0D EF 01  
0x10: 42 45 30 80 00 00 00 00 02 02 C1 8B 4A 41 42 30  
0x20: 34 33 34 30 39 46 37 03 00 81 00 00 00 04 00  
0x30: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

VIC Slot 0:  
E1 (2 Port) Multi-Flex Trunk WAN Daughter Card  
Hardware revision 1.0 Board revision A0



Serial number 27242745 Part number 800-04479-03  
Test history 0x0 RMA number 00-00-00

Connector type PCI  
EEPROM format version 1  
EEPROM contents (hex):  
0x20: 01 23 01 00 01 9F B0 F9 50 11 7F 03 00 00 00 00  
0x30: 50 00 00 00 01 11 13 00 FF FF FF FF FF FF FF FF

HDV firmware: Compiled Tue 10-Sep-02 19:12 by richc  
HDV memory size 524280 heap free 142049

2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#

**2650XMB4\_E1#sho controller e1**

E1 1/0 is up.  
Applique type is Channelized E1 - balanced  
No alarms detected.  
alarm-trigger is not set  
Version info Firmware: 20020812, FPGA: 11  
Framing is CRC4, Line Code is HDB3, Clock Source is Line.  
Data in current interval (543 seconds elapsed):  
0 Line Code Violations, 0 Path Code Violations  
0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins  
0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs  
Total Data (last 24 hours)  
0 Line Code Violations, 0 Path Code Violations,  
0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins,  
0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs

E1 1/1 is up.  
Applique type is Channelized E1 - balanced  
No alarms detected.  
alarm-trigger is not set  
Version info Firmware: 20020812, FPGA: 11  
Framing is CRC4, Line Code is HDB3, Clock Source is Line.  
Data in current interval (545 seconds elapsed):  
0 Line Code Violations, 0 Path Code Violations  
15 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins  
15 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs  
Total Data (last 24 hours)  
0 Line Code Violations, 0 Path Code Violations,  
2376 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded Mins,  
2376 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs

2650XMB4\_E1#  
2650XMB4\_E1#  
2650XMB4\_E1#





## Acronyms

Acronym	Definitions
ANF-PR	Additional Network Feature Path Replacement
AOC	Advice-of-charge. Information element is sent with the connection setup information for incoming Euro-ISDN connections. The AOC IE is used for call charge calculation.
CCM	Cisco CallManager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CMM	Communication Media Module (CMM) is a Cisco Catalyst® 6500 Series and Cisco 7600 Series line card that provides flexible and high-density T1/E1 gateways
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
CUCM	Cisco Unified CallManager



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