

Cisco 3640 - PBX Interoperability: Alcatel 4400 R3.2 PBX with Cisco CallManager with Analog FXS and FXO interfaces as an MGCP Gateway

Introduction

This is an application note for connectivity of the Alcatel 4400 R3.2 PBX with Cisco CallManager using Cisco C3640 analog FXS/FXO interfaces as an MGCP Gateway.

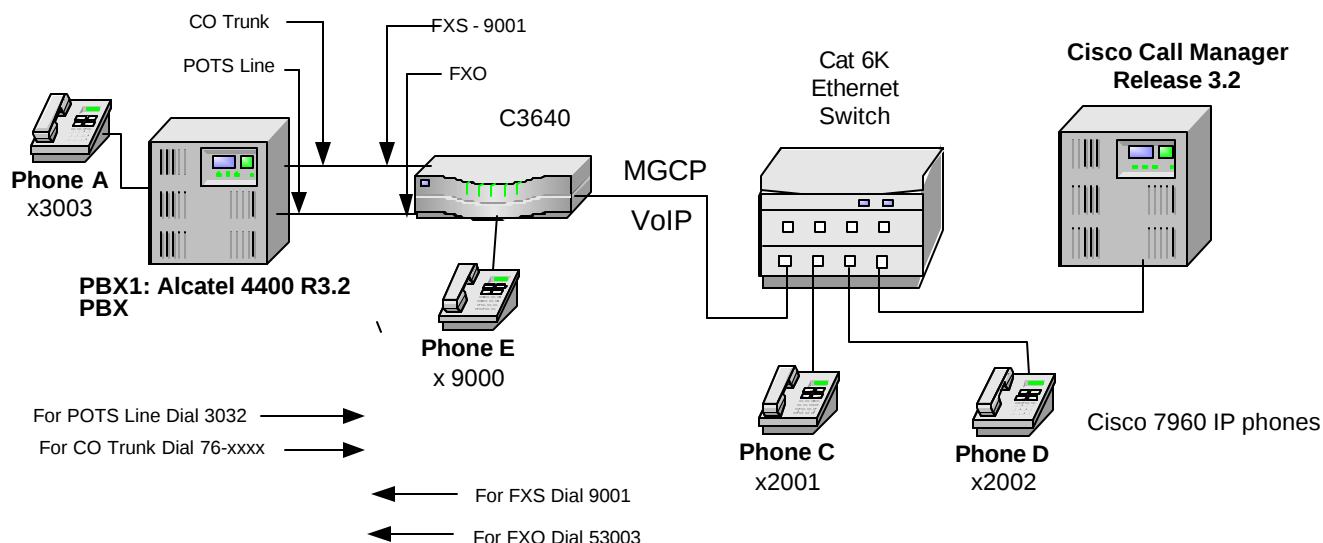
Connectivity is achieved first by using the analog FXS loop start voice port on the MGCP gateway to a loop start CO trunk port on the Alcatel 4400 R3.2 PBX. Then by using the analog FXO loop start voice port on the MGCP gateway to a loop start phone line (POTS) port on Alcatel 4400 R3.2 PBX.

The following features are supported:

- Loop Start FXS on Cisco CallManager 3.2 MGCP Gateway configuration GUI.
- Ground Start type signaling on the Alcatel 4400 R3.2 PBX NDDI interface card (CO Trunk).

Network Topology

Basic Call Setup End-to-End Configuration





Limitations

- FXS Ground Start Signaling type is not supported on Cisco CallManager MGCP Gateway configuration GUI
- FXS Loop Start Signaling is not tested because Alcatel's NDDI interface card (CO Trunk) supports only ground start type signaling.
- Ground Start Signaling type is not supported on PBX POTS Line.
- The POTS Line to Gateway FXO topology should not be used if the PBX is expected to forward call on a ring-no-answer, and the Cisco CallManager should be configured for voice-mail and ring-no-answer forwarding. The POTS Line to Gateway FXO topology should not be used when the PBX analog line does not support disconnect supervision.
- The FXO gateway voice port goes off-hook on the first ring of an incoming seizure before the targeted phone has answered. This disables the PBX from forwarding the incoming call on a ring-no-answer to voice-mail or other forward target. The PBX analog extension does not support disconnect supervision which causes trunk hang issues and long ring-no answer times

System Components

Hardware Requirements

- Cisco C3640 Gateway with analog FXS & FXO Ports
- Cisco Catalyst 6000K switch
- Alcatel 4400 Release 3.2 PBX.

Software Requirements

- Cisco IOS Software Release 12.2(2)XN
- PBX Software Release R3.2
- Cisco CallManager Release 3.2

Configuration

Configuring the Alcatel 4400 R3.2 PBX

Configure the PBX in the following order:

- Configure the CO Ground_Start trunk
- Configure the analog station
- Configure the digital station

Configuring the CO Trunk Group

Trunk Groups

Trunk Group Id	6
Trunk Group Type	NDDI (BCA)
Trunk Group Name	NDDI
Node number	1
Transcom Trunk Group	False
Auto.reserv.by Attendant	False



Overflow trunk group No.	-1
Tone on seizure	True
Private Trunk Group	False
Paging Trunk Group	False
Paging Table Id	-1
Paging Signalization	NDDI
Security Patrol	False
Q931 signal variant	FRANCE ISDN
Operator Id	ANSI
Number Compatible With	1
Prefix Sending	False
Number Of Digits To Send	0
Channel selection type	Quantum
Remote Network	15
Shared Trunk Group	False
T.line Calling last dig.length	0
auto.DTMF dialing on outgoing call	NO
T2 Specificity	None
Public Network Category	0
DDI transcoding	False
Special Services	Nothing
Can support UUS in SETUP	True
Register Signalling Decadic/MF	Q23
Trunk Detail:	
Trunk Group	
Instance (reserved)	1
Trunk Group Type	NDDI (BCA)
Public Network Ref.	
Dialling end to end	YES
DTMF end to end signal.	YES



Paying Incoming Calls	NO
TS Permanently assigned	YES
Min. Nb.of digits on seize	4
Signal.with access code	NO
Trunk group used in DISA	NO
DISA Secret Code	
VG for non-existent No.	YES
Routing To Executive	NO
Trunk Category Id	-1
Nb of digits unused (ISDN)	0
B Channel Choice	NO
Channels Reserved By Attend.	0
Dissuasion For ACD	NO
DTO joining	NO
Enquiry Call On B Channel	NO
DDI Mode	NO
Automated Attendant	NO
Calling party Rights category	0
Entity Number	0
TS Overflow	YES
Number To Be Added	
Supervised by Routing	NO
Access Cluster Id	-1
VPN Cost Limit for Incom.Calls	0
Immediat Trk Listening For VPNCall	YES
VPN TS %50	
Csta Monitored	NO
Max.% of trunks out CCD	0
Charge Calling And ADN Creation	NO
Ratio analog.to ISDN tax	
Collect Calls Allowed	YES



Priority of Call	NO
PCM Network Mode	NO
LogicalChannel 1__15 & 17__31	
TS Distribution on Accesses	YES
Use Split Acces	NO
Heterogeneous Remote Network	NO
Barring mode	Not barred
ARS class of service	31
Quality profile for voice on IP	Profile #1
IP compression type	Default
Use of volume in system	YES
Local volume (dB)	0

Board Configuration:

Board	
Board Address	6
Interface Type	NDDI
Administrative status	Enabled
Usage State Active	
Operational State	Enabled
Main/Standby State	Main (Master)
Number Of Sets Being Connect.	1
Remote Shelf Address	255
Remote Board Address	255
Synchronisation Priority	255
I02 With SPB	NO
AUXU Parameters 1	None
AUXU Parameters 2	None



AUXU Parameters 3	None
AUXU Parameters 4	None
CRC4	NO
Country Protocol Type	USA
Time Slots\0	0
Time Slots\1	1
Time Slots\2	1
Time Slots\3	1
Time Slots\4	1
Time Slots\5	1
Time Slots\6	1
Time Slots\7	1
Time Slots\8	1
Time Slots\9	1
Time Slots\10	1
Time Slots\11	1
Time Slots\12	1
Time Slots\13	1
Time Slots\14	1
Time Slots\15	1
Time Slots\16	0
Time Slots\17	1
Time Slots\18	1
Time Slots\19	1
Time Slots\20	1
Time Slots\21	1
Time Slots\22	1
Time Slots\23	1
Time Slots\24	1
Time Slots\25	1
Time Slots\26	1



Time Slots\27	1
Time Slots\28	1
Time Slots\29	1
Time Slots\30	1
Time Slots\31	1
Voice-->Data TS	YES
SU shelf Type	2 PCM Shelf
DECT Location area number	255
Send Init Dynamic Msg	False
Param By Default	True
Clock Mode	Internal
CPU with Optimized B ChannelAccess	NO
Board with DTM	False
Incidents Teleservice	YES
Max.VG Recording Duration	0
DASS2 Simulate Network	NO
DPNSS Layer 2 Address	A
ISDN Board Layer 2 Parameters\Retransmission Timer	100
ISDN Board Layer 2 Parameters\TEI Identity Check Timer	100
ISDN Board Layer 2 Parameters\Polling Timer	1000
ISDN Board Layer 2 Parameters\Nb_Of_Retransmission	3
ISDN Board Layer 2 Parameters\Max Frame Size (Bytes)	260
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI S T0	1
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI P T0	3
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI S T2	7
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI P T2	7
Number of configurated ports	1
Associated CPU	255
Number of configurated E1 ports	8
Synchronisation mode Adaptive method	
In Band Signalling	NO



Passive board	NO
SS7 signalling	NO
PRA7 TS signalling	16
Use Data Compression	NO
Mutual Aid	YES
LIO Daughter Board	6 Compressors
Tone on Board	R2 Tone
Number of Used Compressors	0
GNISC in Rack	255
GNISC in position	255
Usage State Suite Slave	
Atm address	
TS used on PCM 0	0
TS used on PCM 1	0
TS used on PCM 2	0
TS used on PCM 3	0
TS used on PCM 4	0
TS used on PCM 5	0
TS used on PCM 6	0
TS used on PCM 7	0
Daughter board equipped	NO
Number of Used Compressors	0
Mode Gateway IP	
Embedded Ethernet	YES
Voice Guide Lang Index	1
CLIP Signalization	No CLIP
IVR Protocol	No IVR Protocol Protocol
4615 Present	NO
LIOE coupler 1 address	255
LIOE coupler 2 address	255
Associated BBC2 coupler	255



Associated BBC2 access	255
Use of volume in system	YES
Local volume (dB)	0

Analog Station Configuration:

Board	
Board Address	7
Interface Type Z12_	2
Administrative status	Enabled
Usage State Active	
Operational State	Enabled
Main/Standby State	Main (Master)
Number Of Sets Being Connect.	4
Remote Shelf Address	255
Remote Board Address	255
Synchronisation Priority	255
I02 With SPB	NO
AUXU Parameters 1	None
AUXU Parameters 2	None
AUXU Parameters 3	None
AUXU Parameters 4	None
CRC4	NO
Country Protocol Type	Lithuania
Time Slots\0	0
Time Slots\1	1



Time Slots\2	1
Time Slots\3	1
Time Slots\4	1
Time Slots\5	1
Time Slots\6	1
Time Slots\7	1
Time Slots\8	1
Time Slots\9	1
Time Slots\10	1
Time Slots\11	1
Time Slots\12	1
Time Slots\13	1
Time Slots\14	1
Time Slots\15	1
Time Slots\16	0
Time Slots\17	1
Time Slots\18	1
Time Slots\19	1
Time Slots\20	1
Time Slots\21	1
Time Slots\22	1
Time Slots\23	1
Time Slots\24	1
Time Slots\25	1
Time Slots\26	1
Time Slots\27	1
Time Slots\28	1
Time Slots\29	1
Time Slots\30	1
Time Slots\31	1
Voice-->Data TS	YES



SU shelf Type	2 PCM Shelf
DECT Location area number	255
Send Init Dynamic Msg	False
Param By Default	True
Clock Mode	Internal
CPU with Optimized B ChannelAccess	NO
Board with DTM	False
Incidents Teleservice	YES
Max.VG Recording Duration	0
DASS2 Simulate Network	NO
DPNSS Layer 2 Address	A
ISDN Board Layer 2 Parameters\Retransmission Timer	100
ISDN Board Layer 2 Parameters\TEI Identity Check Timer	100
ISDN Board Layer 2 Parameters\Polling Timer	1000
ISDN Board Layer 2 Parameters\Nb_Of_Retransmission	3
ISDN Board Layer 2 Parameters\Max Frame Size (Bytes)	260
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI S T0	1
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI P T0	3
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI S T2	7
ISDN Board Layer 2 Parameters\Window Size In Frames SAPI P T2	7
Number of configured ports	4
Associated CPU	255
Number of configured E1 ports	8
Synchronisation mode Adaptive method	
In Band Signalling	NO
Passive board	NO
SS7 signalling	NO
PRA7 TS signalling	16
Use Data Compression	NO
Mutual Aid	YES
LIO Daughter Board	6 Compressors



Tone on Board	R2 Tone
Number of Used Compressors	0
GNISC in Rack	255
GNISC in position	255
Usage State Suite Slave	
Atm address	
TS used on PCM 0	0
TS used on PCM 1	0
TS used on PCM 2	0
TS used on PCM 3	0
TS used on PCM 4	0
TS used on PCM 5	0
TS used on PCM 6	0
TS used on PCM 7	0
Daughter board equipped	NO
Number of Used Compressors	0
Mode Gateway IP	
Embedded Ethernet	YES
Voice Guide Lang Index	1
CLIP Signalization	No CLIP
IVR Protocol	No IVR Protocol Protocol
4615 Present	NO
LI0E coupler 1 address	255
LI0E coupler 2 address	255
Associated BBC2 coupler	255
Associated BBC2 access	255
Use of volume in system	YES
Local volume (dB)	0



Analog Station Detail:

Users

Directory Number	3032
Directory name	Mummy Doe
Directory First Name	
Location Node	1
Shelf Address	0
Board Address	7
Equipment Address	0
Set Type	ANALOG
Entity Number	1
Set Function	Default
Profile Name	
Key Profile	None
Identifier of Domain	0
Add On Module 1	None
Add On Module 2	None
Add On Module 3	None
External Alphanumeric Keyboard	None
Internal Alphanum.Keyboard	None
V24 Extension	False
S0 Extension	False
Mac/PC	NO
Z Adaptor	False
Language Id.	1
Secret Code	6<"
Associated Set No.	3032
Cost Center Id	255
Cost Center Name	



Charging Category	Justified	
Public Network Category		2
External Forwarding Category		255
Tel.Facility Category Id		0
Connection Category Id		0
Hunting Group Dir No.		
ACD Group Directory No.		
Pick up Group Name		
Reserved Time Slot		False
Voice Mail Dir.No.		
Voice Mail Type		No Voice Mail
Voice Mail access without Code		False
Paging Trunk Group		255
Paging Beeper		
Called Associated Dect set		
Tele-Marketing Agent		False
ISDN Subscr.\External		True
ISDN Subscr.\Internal		False
ISDN Teleservice Phone		
Hotel-Set Function	Administrative	
Type of room		1
Use Type Of Dir. No. Normal		
Number Of Set Users		1
Call by name and mini mail		NO
Multiline station		NO
Multi-Line Properties\Automatic Incoming Seizure		False
Multi-Line Properties\Automatic Outgoing Seizure		False
Multi-Line Properties\Selective Filtering		False
Multi-Line Properties\Overflow on no reply		False
Multi-Line Properties\Overflow on busy		False
Multi-Line Properties\Take supervision off-hook		False



S0 Facility\User By Default	False
S0 Facility\Sub Address Use	False
Dialled number masked	NO
Access Code to UUS messages	NO
Routing Table	0
Associated Videophone	False
VIP (Very Important Pers.)	False
Secretary Directory Number	3032
Calls Priority	0
DATA Cx Category Id	0
Message Led	False
4040 With Minitel	NO
Minitel-4040 Connection Cat.	0
Pub Cat Id Minitel 4040	0
PCBT Associated	NO
Urgent Call	NO
Ext.Alarm Equipment Alarm On Opened Loop	
4630 Mail Box\4630 Voice Mail Type Answer.-Recorder machine	
4630 Mail Box\4630 COS\Network Prefixes authorized	YES
4630 Mail Box\4630 COS\Personal lists authorized	NO
4630 Mail Box\4630 COS\General Lists authorized	YES
4630 Mail Box\4630 COS\Voice Mail Manager	NO
4630 Mail Box\4630 COS\Ref.duration of Greeting	Normal
4630 Mail Box\4630 COS\Conversation authorized	YES
4630 Mail Box\4630 COS\Category of Greeting	Personal
4635 Mail Box\4635 Voice Mail Type	Voice Mail
4635 Mail Box\4635 COS	10
X25 dte	False
PIN (Personal Ident.No.)\PIN No.	
PIN (Personal Ident.No.)\PIN With Secret Code	True
PIN (Personal Ident.No.)\Type of control	By category



PIN (Personal Ident.No.)\PIN group number	1
Can Be Called By Name	YES
Phone book Name (Call by name)	Mummy Doe
Phone book First Name	
Displayed Name	Mummy Doe
Modem Trunk Group Info\Trunk Group Id	255
Modem Trunk Group Info\Trunk Number	255
Remote UA	False
Count Errors Of Secret Code	0
ACD station	NO
NS Right (Notification server)	NO
Incidents Teleservice	NO
Ghost Z	False
Ghost Z Feature	Without
CSTA routing	False
Cmf 4600 (DTMF frequencies)	False
Voice Guide listening Class	7
Caller Category	4
VSI Transparency	False
Type of Keyboard	Default keyboard
Count Errors Of Business Code	0
Stap	Off-hook
Tandem\Tandem Directory Number	
Tandem\Main set in the tandem	False
Use Personal Calling Number	False
Private Calling Number	
UA 3G features\Emulation	UA 3G
4035 Features\Navigator	UA 3G
PIN group control	No group
User PIN group	1
CCA operator	False



A4980	No 4980
Z IVR	False
NOMADIC	False
4615 Mail Box\4615 Voice Mail Type	Standard
4615 Mail Box\Notification Type	No Notification
TAPI Premium Server	NO

Digital Station Detail:

Users	
Directory Number	3003
Directory name	Female Doe
Directory First Name	
Location Node	1
Shelf Address	0
Board Address	2
Equipment Address	3
Set Type	4035T
Entity Number	1
Set Function	Default
Profile Name	
Key Profile	None
Identifier of Domain	0
Add On Module 1	None
Add On Module 2	None
Add On Module 3	None
External Alphanumeric Keyboard	None
Internal Alphanum.Keyboard	English
V24 Extension	False
S0 Extension	False



Mac/PC	NO
Z Adaptor	False
Language Id.	2
Secret Code	6<"
Associated Set No.	3003
Cost Center Id	255
Cost Center Name	
Charging Category	Justified
Public Network Category	2
External Forwarding Category	255
Tel.Facility Category Id	0
Connection Category Id	0
Hunting Group Dir No.	
ACD Group Directory No.	
Pick up Group Name	
Reserved Time Slot	False
Voice Mail Dir.No.	
Voice Mail Type	No Voice Mail
Voice Mail access without Code	False
Paging Trunk Group	255
Paging Beeper	
Called Associated Dect set	
Tele-Marketing Agent	False
ISDN Subscr.\External	True
ISDN Subscr.\Internal	True
ISDN Teleservice	Phone
Hotel-Set Function	Administrative
Type of room	1
Use Type Of Dir. No.	Normal
Number Of Set Users	1
Call by name and mini mail	NO



Multiline station	NO
Multi-Line Properties\Automatic Incoming Seizure	False
Multi-Line Properties\Automatic Outgoing Seizure	False
Multi-Line Properties\Selective Filtering	False
Multi-Line Properties\Overflow on no reply	False
Multi-Line Properties\Overflow on busy	False
Multi-Line Properties\Take supervision off-hook	False
S0 Facility\User By Default	False
S0 Facility\Sub Address Use	False
Dialled number masked	NO
Access Code to UUS messages	NO
Routing Table	0
Associated Videophone	False
VIP (Very Important Pers.)	False
Secretary Directory Number	3003
Calls Priority	0
DATA Cx Category Id	0
Message Led	False
4040 With Minitel	NO
Minitel-4040 Connection Cat.	0
Pub Cat Id Minitel 4040	0
PCBT Associated	NO
Urgent Call	NO
Ext.Alarm Equipment Alarm On Opened Loop	
4630 Mail Box\4630 Voice Mail TypeAnswer.-Recorder machine	
4630 Mail Box\4630 COS\Network Prefixes authorized	YES
4630 Mail Box\4630 COS\Personal lists authorized	NO
4630 Mail Box\4630 COS\General Lists authorized	YES
4630 Mail Box\4630 COS\Voice Mail Manager	NO
4630 Mail Box\4630 COS\Ref.duration of Greeting	Normal
4630 Mail Box\4630 COS\Conversation authorized	YES



4630 Mail Box\4630 COS\Category of Greeting	Personal
4635 Mail Box\4635 Voice Mail Type	Voice Mail
4635 Mail Box\4635 COS	10
X25 dte	False
PIN (Personal Ident.No.)\PIN No.	
PIN (Personal Ident.No.)\PIN With Secret Code	True
PIN (Personal Ident.No.)\Type of control By category	
PIN (Personal Ident.No.)\PIN group number	1
Can Be Called By Name	YES
Phone book Name (Call by name)	Female Doe
Phone book First Name	
Displayed Name	Female Doe
Modem Trunk Group Info\Trunk Group Id	255
Modem Trunk Group Info\Trunk Number	255
Remote UA	False
Count Errors Of Secret Code	0
ACD station	NO
NS Right (Notification server)	NO
Incidents Teleservice	NO
Ghost Z	False
Ghost Z Feature	Without
CSTA routing	False
Cmf 4600 (DTMF frequencies)	False
Voice Guide listening Class	7
Caller Category	4
VSI Transparency	False
Type of Keyboard	Default keyboard
Count Errors Of Business Code	0
Stap	Off-hook
Tandem\Tandem Directory Number	
Tandem\Main set in the tandem	False



Use Personal Calling Number	False
Private Calling Number	
UA 3G features\Emulation	UA 3G
4035 Features\Navigator	UA 3G
PIN group control	No group
User PIN group	1
CCA operator	False
A4980	No 4980
Z IVR	False
NOMADIC	False
4615 Mail Box\4615 Voice Mail Type	Standard
4615 Mail Box\Notification Type	No Notification
TAPI Premium Server	

Configuring Cisco CallManager



Cisco CallManager 3.2 Administration - MGCP Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Address -4059-A053-C8D87C97DA0F Go Links

Cisco CallManager Administration

For Cisco IP Telephony Solutions

CISCO SYSTEMS

MGCP Configuration

[Back to Find/List Gateways](#)

Product: Cisco 364X
MGCP : MGCP_3640

Status: Ready

MGCP Domain Name*

Description

Cisco CallManager Group*

Installed Voice Interface Cards		Endpoint Identifiers	
Module in Slot 0	<None>		
Module in Slot 1	NM-HDV		
	Sub-Unit 0	VVIC-2MFT-E1	(1/0) (1/1)
Module in Slot 2	NM-2V		
	Sub-Unit 0	VIC-2FXS	(2/0/0) (2/0/1)
	Sub-Unit 1	VIC-2FXO	(2/1/0) (2/1/1)
Module in Slot 3	NM-HDV		
	Sub-Unit 0	VVIC-2MFT-T1	(3/0) (3/1)

Product Specific Configuration

Global ISDN Switch Type

Switchback Timing*

Switchback uptime-delay (min)

Local intranet



FXS Port Configuration

Cisco CallManager 3.2 Administration - Gateway Configuration - Microsoft Internet Explorer

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Back Forward Stop Home Search Favorites History Address 53-C8D87C97DA0F}&Port=1 Go Links

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
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CISCO SYSTEMS

Gateway Configuration

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

Slot 2/ Sub-Unit 0
POTS 2/0/0 9000
POTS 2/0/1 9001
Slot 2/ Sub-Unit 1
LS 2/1/0
LS 2/1/1

Product : Cisco 364X
Gateway : AALN/S2/SU0/0@MGCP_3640
Registration: Registered with Cisco CallManager 10.1.1.2
IP Address: 10.1.1.230

Status: Ready

Update Delete Reset Gateway Cancel Changes

Gateway Information

Description	AALN/S2/SU0/0@MGCP_3640
Device Pool*	Default
Calling Search Space	< None >
Media Resource Group List	< None >
Network Hold Audio Source	< None >
User Hold Audio Source	< None >
Location	< None >
Network Locale	United States

Port Information

Prefix DN	
Num Digits*	4
Expected Digits*	4

Done Local intranet



FXO Port Configuration

Cisco CallManager 3.2 Administration - Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Address [5FBADE}&Action=Update&Type=18&MGCP={3711D1AB-398B-4059-A053-C8D87C97DA0F}&Port=1](#) Go Links

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

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

Slot 2/ Sub-Unit 0
2/0/0 9000
2/0/1 9001
Slot 2/ Sub-Unit 1
2/1/0
2/1/1

Product : Cisco 364X
Gateway : AALN/S2/SU1/1@MGCP_3640
Registration: Registered with Cisco CallManager 10.1.1.2
IP Address: 10.1.1.230

Status: Ready

Gateway Information

Description
Device Pool*
Calling Search Space
Media Resource Group List
Network Hold Audio Source
User Hold Audio Source
Location
Network Locale

Port Information

Port Direction*
Attendant DN*

Product Specific Configuration

Start | Console - HyperT... | Lucent-V7 3640-F... | SDL | Cisco CallManag... | 3640_MGCP_Nort... | untitled - Paint | Local intranet | 6:02 PM



Cisco CallManager 3.2 Administration - Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Address SFBADE}&Action=Update&Type=18&MGCP={3711D1AB-398B-4059-A053-C8D87C97DA0F}&Port=1 Go Links >>

2/1/1

Update Delete Reset Gateway Cancel Changes

Gateway Information

Description	AALN/S2/SU1/1@MGCP_3640
Device Pool*	Default
Calling Search Space	< None >
Media Resource Group List	< None >
Network Hold Audio Source	< None >
User Hold Audio Source	< None >
Location	< None >
Network Locale	United States

Port Information

Port Direction*	Bothways
Attendant DN*	2001

Product Specific Configuration

Hookflash Timer (50-1550ms)*	50
Inter-digit Duration Timer (50-500 ms)*	100
Input Gain (-6-14 db)*	0
Output Attenuation (0-14 db)*	3

* indicates required item

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

Local intranet

Start Console - HyperT... Lucent-V7 3640-F... SDL Cisco CallManag... 3640_MGCP_Nort... Untitled - Paint 6:03 PM



Route Pattern Configuration

Cisco CallManager 3.2 Administration - Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Address 4-47BE-8491-B0F211090F29 Go Links

Cisco CallManager Administration
For Cisco IP Telephony Solutions

Route Pattern Configuration

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

Route Pattern: 5.XXXX

Status: Ready
Note: Any update to this route pattern automatically resets the associated gateway/route list

Copy Update Delete Cancel Changes

Pattern Definition

Route Pattern* 5.XXXX

Partition <None>

Numbering Plan* North American Numbering Plan

Route Filter <None>

Gateway/Route List* AALN/S2/SU1/0@MGCP_3640 (Edit)

Route Option
☒ Route this pattern ☐ Block this pattern

☒ Provide Outside Dial Tone ☐ Urgent Priority

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Transformations

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Done Local intranet



Configuring the Cisco C3640 Router

```
MGCP_3640# show running config
```

```
Building configuration...
```

```
Current configuration : 2546 bytes
```

```
version 12.2
```

```
no parser cache
```

```
no service single-slot-reload-enable
```

```
service timestamps debug uptime
```

```
service timestamps log uptime
```

```
no service password-encryption
```

```
no service dhcp
```

```
!
```

```
hostname MGCP_3640
```

```
!
```

```
logging rate-limit console 10 except errors
```

```
voice-card 1
```

```
!
```

```
voice-card 3
```

```
!
```

```
ip subnet-zero
```

```
!
```

```
no ip domain-lookup
```

```
!
```

```
no ip dhcp-client network-discovery
```

```
mgcp
```

```
mgcp call-agent 10.1.1.2 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 modem passthrough voip mode cisco
mgcp sdp simple
mgcp package-capability rtp-package
mgcp package-capability sst-package
no mgcp timer receive-rtcp
no mgcp explicit hookstate
isdn switch-type primary-ni
call rsvp-sync
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 10.1.1.2
ccm-manager config
!
controller E1 1/0
    framing NO-CRC4
    pri-group timeslots 1-31 service mgcp
!
controller E1 1/1
!
controller T1 3/0
    framing esf
    linecode b8zs
    cablelength short 133
    pri-group timeslots 1-24 service mgcp
!
controller T1 3/1
    framing sf
    linecode ami
```



```
!  
interface Ethernet0/0  
  ip address 10.1.1.230 255.255.255.0  
  half-duplex  
!  
interface Ethernet0/1  
  no ip address  
  shutdown  
  half-duplex  
!  
interface Serial1/0:15  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-net5  
  isdn protocol-emulate network  
  isdn incoming-voice voice  
  isdn bind-l3 ccm-manager  
  no cdp enable  
!  
  
interface Serial3/0:23  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-dms100  
  isdn incoming-voice voice  
  isdn bind-l3 ccm-manager  
  no cdp enable  
!  
ip classless  
no ip http server  
!
```



```
snmp-server manager
!
voice-port 2/0/0
!
voice-port 2/0/1
!
voice-port 2/1/0
    timing hookflash-out 50
!
voice-port 2/1/1
    timing hookflash-out 50
!
dial-peer cor custom
!
dial-peer voice 201 pots
    application mgcpapp
    port 2/0/1
!
dial-peer voice 200 pots
    application mgcpapp
    port 2/0/0
!
dial-peer voice 210 pots
    application mgcpapp
    port 2/1/0
!
dial-peer voice 999200 pots
    application mgcpapp
    port 2/0/0
!
dial-peer voice 999201 pots
```



```
application mgcpapp
port 2/0/1
!
dial-peer voice 999210 pots
application mgcpapp
port 2/1/0
!
dial-peer voice 999211 pots
application mgcpapp
port 2/1/1
!
line con 0
line aux 0
line vty 0 4
login
!
end
```

Important Information

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