



Cisco CallManager Release 4.01 and Cisco Emergency Responder 1.2(3)-PBX Interoperability: Avaya CM 2.0 PBX Using a Cisco 6608 with T1 PRI as an MGCP Gateway

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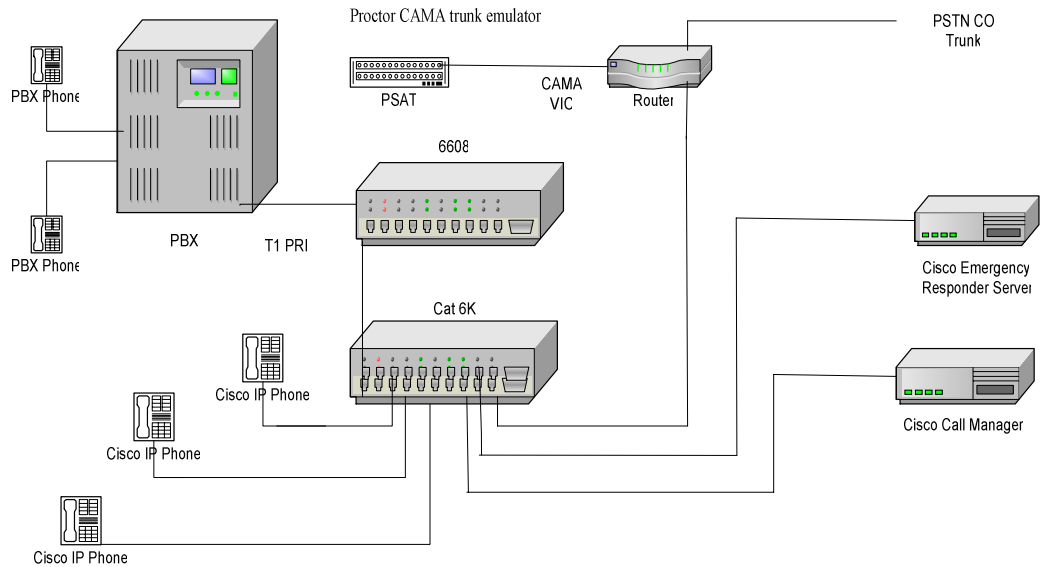
Introduction

The following is an Application Note for Interoperability of a Cisco CallManager, Cisco Emergency Responder and Cisco 2600XM CAMA interface with an Avaya CM 2.0 PBX using a Cisco 6608-T1 PRI as an MGCP gateway.

The network-topology diagram shows interoperability between the Cisco CallManager and Cisco Emergency Responder connected to the PBX via a T1 PRI trunk using a 6608 MGCP gateway.

Network Topology

Figure 1. Network Topology



Limitations

- Unique DID numbers must be used to associate with each emergency response location to allow the return call if the 911 caller is disconnected.
- Each available calling party that might dial 911 from the PBX side must have that calling-party number configured in the Manually Configured Phones screen of the Cisco Emergency Responder.

System Components

Hardware Requirements

- Cisco hardware
 - Cisco 6608 gateway with T1 ports installed in a Cisco Cat6K switch
 - Cisco Cat6K switch
 - Cisco CallManager 4.01
 - Cisco Emergency Responder
 - Cisco 2611XM with CAMA
- PBX hardware: Avaya CM 2.0 PBX



Software Requirements

- Cisco CallManager 4.0(1)
- PBX software Version 2.0
- Cisco IOS Release “c2600-ipvoice-mz.123-10” (for the gateway)
- Cisco Emergency Responder 1.2(3)

Features

Key Features Supported

- Calling Number
- E911 ERL DID number passed to PSAP
- Incoming DID routing to disconnected 911 caller origination

Configuration

Configuring the Avaya CM 2.0

```
display trunk-group 14                                     Page 1 of 10
TRUNK GROUP
Group Number: 14          Group Type: isdn          CDR Reports: y
Group Name: PRI Ni2 Trunk      COR: 1          TN: 1          TAC: 614
Direction: two-way          Outgoing Display? y      Carrier Medium: PRI/BRI
Dial Access? y              Busy Threshold: 99       Night Service:
Queue Length: 0
Service Type: tie           Auth Code? n            TestCall ITC: rest
Far End Test Line No:
TestCall BCC: 4
TRUNK PARAMETERS
Codeset to Send Display: 0    Codeset to Send National IES: 6
Max Message Size to Send: 260 Charge Advice: automatic
Supplementary Service Protocol: a Digit Handling (in/out): enbloc/overlap
Trunk Hunt: ascend           QSIG Value-Added? n
Digital Loss Group: 13
Calling Number - Delete:      Insert:              Numbering Format: unk-unk
Bit Rate: 1200                Synchronization: async Duplex: full
Disconnect Supervision - In? y Out? y
Answer Supervision Timeout: 0
```



```
display trunk-group 14                                     Page 2 of 10
TRUNK FEATURES
  ACA Assignment? n           Measured: none       Wideband Support? n
                               Internal Alert? n      Maintenance Tests? y
                               Data Restriction? n   NCA-TSC Trunk Member:
                               Send Name: y           Send Calling Number: y

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

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

                               US NI Delayed Calling Name Update? n

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

```
display trunk-group 14                                     Page 3 of 10
INCOMING CALL HANDLING TREATMENT
Service/   Called   Called   Del   Insert   Per Call   Night
Feature    Len    Number

```



```
display trunk-group 14                                     Page 4 of 10
TRUNK GROUP
Administered Members (min/max): 1/23
GROUP MEMBER ASSIGNMENTS                                Total Administered Members: 23

  Port   Code Sfx Name      Night      Sig Grp
1: 01A1401 TN464 F                14
2: 01A1402 TN464 F                14
3: 01A1403 TN464 F                14
4: 01A1404 TN464 F                14
5: 01A1405 TN464 F                14
6: 01A1406 TN464 F                14
7: 01A1407 TN464 F                14
8: 01A1408 TN464 F                14
9: 01A1409 TN464 F                14
10: 01A1410 TN464 F                14
11: 01A1411 TN464 F                14
12: 01A1412 TN464 F                14
13: 01A1413 TN464 F                14
14: 01A1414 TN464 F                14
15: 01A1415 TN464 F                14
```

```
display trunk-group 14                                     Page 5 of 10
TRUNK GROUP
Administered Members (min/max): 1/23
GROUP MEMBER ASSIGNMENTS                                Total Administered Members: 23

  Port   Code Sfx Name      Night      Sig Grp
16: 01A1416 TN464 F                14
17: 01A1417 TN464 F                14
18: 01A1418 TN464 F                14
19: 01A1419 TN464 F                14
20: 01A1420 TN464 F                14
21: 01A1421 TN464 F                14
22: 01A1422 TN464 F                14
23: 01A1423 TN464 F                14
24:
25:
26:
27:
28:
29:
30:
```



```
display signaling-group 14                               Page 1 of 5
SIGNALING GROUP
Group Number: 14           Group Type: isdn-pri
Associated Signaling? y           Max number of NCA TSC: 0
Primary D-Channel: 01A1424       Max number of CA TSC: 0
Trunk Group for Channel Selection: 14   Trunk Group for NCA TSC:
Supplementary Service Protocol: a       X-Mobility/Wireless Type: NONE
```

```
display ds1 1a14                                         Page 1 of 2
DS1 CIRCUIT PACK
Location: 01A14           Name:
Bit Rate: 1.544           Line Coding: b8zs
Line Compensation: 1       Framing Mode: esf
Signaling Mode: isdn-pri
Connect: network
TN-C7 Long Timers? n       Country Protocol: 1
Interworking Message: PROgress   Protocol Version: a
Interface Companding: mulaw       CRC? n
Idle Code: 11111111
DCP/Analog Bearer Capability: 3.1kHz
Slip Detection? n           Near-end CSU Type: other
```



```
display ds1 1a14                                     Page 2 of 2
DS1 CIRCUIT PACK
ESF DATA LINK OPTIONS
Network Management Protocol: tabs
Send ANSI-T1.403 One-Second Performance Reports? n
Far-end CSU Address: b
```



Configuring the Cisco CallManager

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Cisco CallManager Configuration

[Add a New Cisco CallManager](#)
[Configure server \(172.20.16.250\)](#)
[Trace Configuration](#)
[Back to Find/List Cisco CallManagers](#)
[Dependency Records](#)

Cisco CallManager: 172.20.16.250 (172.20.16.250) on 172.20.16.250
CTI ID: 1
Status: Ready

Copy Update Delete Reset Devices

Server Information

Cisco CallManager Name* 172.20.16.250
Description 172.20.16.250

Auto-registration Information

Starting Directory Number* 2000
Ending Directory Number* 2010
Partition E911Phones
External Phone Number Mask

Auto-registration Disabled on this Cisco CallManager

Cisco CallManager TCP Port Settings for this Server

Ethernet Phone Port* 2000
Digital Port* 2008
Analog Port* 2010
MGCP Listen Port* 2427
MGCP Keep-alive Port* 2428

* indicates required item.

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Partition Configuration

[Add a New Partition](#)
[Back to Find/List Partitions](#)
[Dependency Records](#)

Partition: E911Phones

Status: Ready

Update Delete Restart Devices

Partition Name* E911Phones
Description E911Phones

* indicates required item



System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
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Calling Search Space Configuration

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

Calling Search Space: E911CSS (in use)
Status: Ready

Copy Update Delete

Calling Search Space Information

Calling Search Space Name* E911CSS
Description

Route Partitions for this Calling Search Space

Find Partitions containing Find
Available Partitions

Selected Partitions* (ordered by highest priority)
E911Phones

* indicates required item

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
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Route/Hunt List Detail Configuration

[Add a new Route/Hunt List](#)
[Configure Route Group \(E911\)](#)
[Back to Route/Hunt List Configuration](#)
[Back to Find/List Route/Hunt Lists](#)

Route/Hunt List Details
E911

Route/Hunt List: E911
Route Group: E911
Status: Ready

Update Delete

The settings on this page override the settings of the same name on the Route Pattern/Hunt Pilot page. These settings are used for calls routed through this member of the current Route/Hunt List only.

Details for E911

Calling Party Transformations

Use Calling Party's External Phone Number Mask On
Calling Party Transform Mask
Prefix Digits (Outgoing Calls)

Called Party Transformations

Dial Plan* North American Numbering Plan
Discard Digits < None >
(Using North American Numbering Plan)
Called Party Transform Mask
Prefix Digits (Outgoing Calls)

* indicates required item



System Route Plan Service Feature Device User Application Help

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CISCO SYSTEMS

Route/Hunt List Configuration

[Add a new Route/Hunt List](#)
[Back to Find/List Route/Hunt Lists](#)
[Dependency Records](#)

Route/Hunt List Details

Route/Hunt List: **E911**
Status: Ready

Route/Hunt List Information

Route/Hunt List Name*
Description
Cisco CallManager Group*

Enable this Route/Hunt List (change effective on Update; no reset required)

Route/Hunt List Member Information

Selected Groups*
(ordered by highest priority)

Removed Groups
(to be removed from Route/Hunt List when you click Update)

* indicates required item



Route Group Configuration

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

Route Group Members

	AALN/S1/SU0/0@2611XM -CAMA
	AALN/S1/SU0/1@2611XM -CAMA

Route Group: E911
 Status: Ready

Route Group Information

Route Group Name*

Distribution Algorithm*

Route Group Member Information
Find Devices to Add to Route Group

Device Name contains

Available Devices
(select device, then select port below)

AALN/S1/SU1/0@2611XM-CAMA
AALN/S1/SU1/1@2611XM-CAMA

Port(s)

Current Route Group Members

Selected Devices*
(ordered by highest priority)

AALN/S1/SU0/0@2611XM-CAMA (All Ports)
AALN/S1/SU0/1@2611XM-CAMA (All Ports)

Removed Devices
(to be removed from Route Group when you click Update)

--

* indicates required item



System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
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CISCO SYSTEMS

Find and List Route Patterns/Hunt Pilots

[Add a New Route Pattern/Hunt Pilot](#)

6 matching record(s) for Pattern begins with ""

Find Route Patterns/Hunt Pilots where begins with

and show items per page

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

Matching record(s) 1 to 6 of 6

<input type="checkbox"/>	Route Pattern/Hunt Pilot	Partition	Description	Route Filter	Gateway/Route List	Copy
<input type="checkbox"/>	100911.	E911Phones	default		E911	
<input type="checkbox"/>	101911.	E911Phones	High School ...		E911	
<input type="checkbox"/>	102911.	E911Phones	Education Ce...		E911	
<input type="checkbox"/>	103911.	E911Phones	Elementary I...		E911	
<input type="checkbox"/>	104911.	E911Phones	Avaya CM 2.0...		E911	
<input type="checkbox"/>	2007	E911Phones	Avaya CM 2.0...		S0/DS1-0@SDA0001C...	

First Previous Next Last Page of 1



Route Pattern/Hunt Pilot Configuration

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

Route Pattern/Hunt Pilot: 100911.

Status: Ready

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

Pattern Definition

Route Pattern/Hunt Pilot*	<input type="text" value="100911"/>
Partition	<input type="text" value="E911Phones"/>
Description	<input type="text" value="default"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value="< None >"/>
MLPP Precedence	<input type="text" value="Default"/>
Gateway or Route/Hunt List*	<input type="text" value="E911"/> (Edit)
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="Not Selected"/>

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

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

Connected Party Transformations

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

Called Party Transformations

Discard Digits	<input type="text" value="PreDot"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text" value="4089997000"/>

ISDN Network-Specific Facilities Information Element

Carrier Identification Code	<input type="text"/>				
Network Service Protocol	<input type="text" value="Not Selected"/>				
Network Service	<input type="text" value="Not Selected"/>	Service Parameter Name	<input type="text" value="Not Exist"/>	Service Parameter Value	<input type="text"/>

* indicates required item.



Route Pattern/Hunt Pilot Configuration

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

Route Pattern/Hunt Pilot: 102911.

Status: Ready

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

Pattern Definition

Route Pattern/Hunt Pilot*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

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

Route Option
 Route this pattern
 Block this pattern

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Carrier Identification Code

Network Service Protocol

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value="Not Selected"/>	<input type="text" value="Not Exist >"/>	<input type="text"/>

* indicates required item.



Route Pattern/Hunt Pilot Configuration

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

Route Pattern/Hunt Pilot: 104911.

Status: Ready

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

Pattern Definition

Route Pattern/Hunt Pilot*	<input type="text" value="104911."/>	
Partition	<input type="text" value="E911Phones"/>	
Description	<input type="text" value="Avaya CM 2.0 PRI"/>	
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>	
Route Filter	<input type="text" value="< None >"/>	
MLPP Precedence	<input type="text" value="Default"/>	
Gateway or Route/Hunt List*	<input type="text" value="E911"/> (Edit)	
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 type="checkbox"/> Allow Overlap Sending	<input type="checkbox"/> Urgent Priority

Calling Party Transformations

<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	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

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

Called Party Transformations

Discard Digits	<input type="text" value="PreDot"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text" value="4089997004"/>

ISDN Network-Specific Facilities Information Element

Carrier Identification Code	<input type="text"/>
Network Service Protocol	<input type="text" value="-- Not Selected --"/>
Network Service	<input type="text" value="-- Not Selected --"/>
Service Parameter Name	<input type="text" value="< Not Exist >"/>
Service Parameter Value	<input type="text"/>

* indicates required item.



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Cisco SYSTEMS

Find and List Translation Patterns [Add a New Translation Pattern](#)


1 matching record(s) for Pattern begins with ""

Find Translation patterns where begins with

and show items per page

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

Matching record(s) 1 to 1 of 1

<input type="checkbox"/>	Translation Pattern	Partition	Description	Route Filter	Copy
<input type="checkbox"/>	 7XXX	E911Phones			

First Previous Next Last Page of 1



Translation Pattern Configuration

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

Translation Pattern: 7XXX

Status: Ready

Pattern Definition

Translation Pattern	<input type="text" value="7XXX"/>
Partition	<input type="text" value="E911Phones"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value=" < None >"/>
Calling Search Space	<input type="text" value="E911CSS"/>
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=" < None >"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text" value="913"/>

* indicates required item.



System Route Plan Service Feature Device User Application Help

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CISCO SYSTEMS

Find and List CTI Route Points [Add a New CTI Route Point](#)

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

Find CTI Route Points where begins with

and show items per page

To list all items, click Find without entering any search text, or use "Device Name is not empty" as the search criteria.

Matching record(s) 1 to 2 of 2
Real-time Information Service returned information for 2 of 2 devices listed below.

<input type="checkbox"/>	Device Name	Description	Device Pool	Status	IP Address	Copy
<input type="checkbox"/>	RP911	RP911	Default	172.20.16.250	172.20.16.250	<input type="button" value="Copy"/>
<input type="checkbox"/>	RP913	RP913	Default	172.20.16.250	172.20.16.250	<input type="button" value="Copy"/>

First Previous Next Last Page of 1

System Route Plan Service Feature Device User Application Help

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CISCO SYSTEMS

CTI Route Point Configuration [Add a New CTI Route Point](#) [Back to Find/List CTI Route Points](#) [Dependency Records](#)

Directory Numbers

- Line 1 - 911 in E911Phones
- Line 2 - Add DN

Device: RP911 (RP911)
Registration: Registered with Cisco CallManager 172.20.16.250
IP Address: 172.20.16.250
Status: Ready

CTI Route Point Configuration

Device Information

Device Name*

Description

Device Pool* [\(View details\)](#)

Calling Search Space

Location

Media Resource Group List

User Hold Audio Source

Network Hold Audio Source

* indicates a required item.



Directory Number Configuration

[Configure Device \(RP911\)](#)
[Dependency Records](#)

Associated With

RP911 (Line 1)

Directory Number: 911 (E911Phones)

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 Not available on this device.

Call Forward and Pickup Settings

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

MLPP Alternate Party Settings

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

Line Settings for this Device

Display (Internal Caller ID)
 Line Text Label Not available on this device.
 External Phone Number Mask
 Message Waiting Lamp Policy Not available on this device.
 Ring Setting (Phone Idle) Not available on this device.
 Ring Setting (Phone Active)** Not available on this device.

Multiple Call / Call Waiting Settings

Maximum Number of Calls* (1 - 10000)
 Busy Trigger* (<= Max. Calls)

Forwarded Call Information Display

Caller Name Caller Number
 Redirected Number Dialed Number

* indicates required item; changes to Line or Directory Number settings require restart.

Note:

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



CTI Route Point Configuration

[Add a New CTI Route Point](#)
[Back to Find/List CTI Route Points](#)
[Dependency Records](#)

Directory Numbers

- Line 1 - 913XXXX in E911Phones
- Line 2 - Add DN

Device: RP913 (RP913)
Registration: Registered with Cisco CallManager 172.20.16.250
IP Address: 172.20.16.250

Status: Ready

CTI Route Point Configuration

Device Information

Device Name*	<input type="text" value="RP913"/>
Description	<input type="text" value="RP913"/>
Device Pool*	<input type="text" value="Default"/> (View details)
Calling Search Space	<input type="text" value="E911CSS"/>
Location	<input type="text" value="< None >"/>
Media Resource Group List	<input type="text" value="< None >"/>
User Hold Audio Source	<input type="text" value="< None >"/>
Network Hold Audio Source	<input type="text" value="< None >"/>

* indicates a required item.



Directory Number Configuration

[Configure Device \(RP913\)](#)
[Dependency Records](#)

Associated With

RP913 (Line 1)

Directory Number: 913XXXX (E911Phones)

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 Not available on this device.

Call Forward and Pickup Settings

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

MLPP Alternate Party Settings

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

Line Settings for this Device

Display (Internal Caller ID)
 Line Text Label Not available on this device.
 External Phone Number Mask
 Message Waiting Lamp Policy Not available on this device.
 Ring Setting (Phone Idle) Not available on this device.
 Ring Setting (Phone Active)** Not available on this device.

Multiple Call / Call Waiting Settings

Maximum Number of Calls* (1 - 10000)
 Busy Trigger* (<= Max. Calls)

Forwarded Call Information Display

Caller Name Caller Number
 Redirected Number Dialed Number

* indicates required item; changes to Line or Directory Number settings require restart.

Note:
 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



Configuring the Cisco Emergency Responder

Cisco Emergency Responder Administration
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CISCO SYSTEMS



Cisco Emergency Responder Administration

[Details](#)

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Microsoft Internet Explorer

When reporting or troubleshooting a problem, please give the following information to Technical Assistance:

Cisco Emergency Responder Administration version: 1.2 (3)
Cisco Emergency Responder System version: 1.2 (3)

OK

[Cisco ER System Administration](#)

[Cisco ER Network Administration](#)

[Cisco ER ERL Administration](#)

[Cisco ER User](#)

Cisco ER Groups ERL Phone Tracking ERL Membership Reports Tools Help Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Cisco ER Group Settings Server Settings

Telephony settings

Specify the values for the configuration attributes and then press Update settings.

Status :Ready

UDP Port Begin *	<input type="text" value="32000"/>
Inter Cisco ER Group Route Pattern	<input type="text"/>
PSAP Callback Route Point Pattern *	<input type="text" value="913XXXX"/>
ELIN Digit Strip Pattern *	<input type="text" value="913"/>
Route Point for Primary Cisco ER Server *	<input type="text" value="911"/>
Route Point for Standby Cisco ER Server	<input type="text" value="912"/>

* indicates required item

[Update Settings](#) [Cancel Changes](#)



Cisco ER Groups ERL Phone Tracking ERL Membership Reports Tools Help Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

Cisco Systems

Onsite Alert Settings SNMP Settings

Find and List ERLs

[Export ERL data](#)
[Import ERL data](#)

Find Details of ERLs Where contains

and show items per page

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

[Configure Default ERL](#)
[Add New ERL](#)

Status : Ready

[Click on record to view/edit.](#)

Matching Records 1 to 5 of 5

ERL Name	Route/Translation Pattern--ELIN	Onsite Alert Ids.	Street Name	Community Name	State	Copy	Delete	Audit Trail
Avaya MC 2-0	104911--7004		Avaya	MC	ca			view..
Default	100911--7000		Tasman	cisco	ca			view..
Education Center	102911--7002		Tasman	Big Sky	TX			view..
Elementary	103911--7003		Rain	Big Cloud	TX			view..
High School	101911--7001		Rain	Big Cloud	TX			view..

First | Previous | Next | Last

Page of 1

[Configure Default ERL](#)
[Add New ERL](#)



Cisco ER Groups ERL Phone Tracking ERL Membership Reports Tools Help Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Configure Unlocated Phones Configure Synthetic Phones

Find and List Manually Configured Phones [Add new Manual phone](#)

Find phones where extension

and show items per page
To list all items, click Find without entering any search text.

[Export](#)
[Import](#)

List Manually Configured Phones

Status: Ready

Matching record(s) 1 to 2 of 2

Line Number	ERL Name	IP Address	MAC Address	Delete
2007	Avaya MC 2-0			
2008	Avaya MC 2-0			

First Previous Next Last Page of 1



ERL Information for Avaya MC 2-0

* indicates required item

Help for this screen

ERL Name * **Avaya MC 2-0**

Notes

Test ERL (Select if this ERL is used for Synthetic Testing)

ELIN Settings

Route/Translation pattern

ELIN

Add

Update

Remove

Onsite Alert Settings

Available Onsite Alert IDs



Onsite Alert IDs for the ERL

ERL Address

[ALI Details](#)

Update

Copy

Cancel Changes

Close



ALI Information for Avaya MC 2-0

* indicates required item

Help for this screen

Fill all prevalidated fields from validation file by selecting a tag.

Select a tag

[-Not Selected-]

Save your validation file as C:\Program Files\Cisco Systems\CiscoER\ena_msag_records\validate.txt on CER-P

For sample validation file refer C:\Program Files\Cisco Systems\CiscoER\ena_msag_records\samplevalidate.txt on CEI

House Number *	<input type="text" value="123"/>	House Number Suffix	<input type="text"/>
Street Name *	<input type="text" value="Avaya"/>	Prefix Directional	<input type="text"/>
Street Suffix	<input type="text" value="EXT"/> [-Select one-]	Post Directional	<input type="text"/>
Community Name *	<input type="text" value="MC"/>	State *	<input type="text" value="ca"/>
Main NPA	<input type="text"/>	Main Telephone No	<input type="text"/>
Class Of Service *	<input type="text" value="Business PBX"/>	Type of Service *	<input type="text" value="Non-Pub"/>
Exchange	<input type="text"/>	Customer Name *	<input type="text" value="Avaya PBX"/>
Order Number	<input type="text"/>	Extract Date	<input type="text" value="111804"/>
County ID	<input type="text"/>	Company ID *	<input type="text" value="45678"/>
Zip Code	<input type="text"/>	Zip Code Extension	<input type="text"/>
Customer Code *	<input type="text" value="123"/>	Comments	<input type="text"/>
Longitude	<input type="text"/>	Latitude	<input type="text"/>
Elevation	<input type="text"/>	TAR Code	<input type="text"/>
Location	<input type="text"/>	Reserved (for Service Provider use)	<input type="text"/>

Update ALI Info

Cancel Changes

Close



ERL Information for Education Center

* indicates required item

? Help for this screen



ERL Name * **Education Center**

Notes

Test ERL (Select if this ERL is used for Synthetic Testing)

ELIN Settings

Route/Translation pattern

ELIN

Add

Update

Remove

Onsite Alert Settings

Available Onsite Alert IDs



Onsite Alert IDs for the ERL

ERL Address

[ALI Details](#)

Update

Copy

Cancel Changes

Close



ALI Information for Education Center

* indicates required item

Help for this screen

Fill all prevalidated fields from validation file by selecting a tag.

Select a tag

—Not Selected—

Save your validation file as C:\Program Files\Cisco Systems\CiscoER\ena_msag_records\validate.txt on CER-P

For sample validation file refer C:\Program Files\Cisco Systems\CiscoER\ena_msag_records\samplevalidate.txt on CEI

House Number *	<input type="text" value="150"/>	House Number Suffix	<input type="text"/>
Street Name *	<input type="text" value="Tasman"/>	Prefix Directional	<input type="text"/>
Street Suffix	<input type="text" value="DR"/> <input type="text" value="—Select one—"/>	Post Directional	<input type="text"/>
Community Name *	<input type="text" value="Big Sky"/>	State *	<input type="text" value="TX"/>
Main NPA	<input type="text"/>	Main Telephone No	<input type="text"/>
Class Of Service *	<input type="text" value="Business"/>	Type of Service *	<input type="text" value="FX in 911 area"/>
Exchange	<input type="text"/>	Customer Name *	<input type="text" value="School District"/>
Order Number	<input type="text"/>	Extract Date	<input type="text" value="101404"/>
County ID	<input type="text"/>	Company ID *	<input type="text" value="12345"/>
Zip Code	<input type="text" value="95134"/>	Zip Code Extension	<input type="text"/>
Customer Code *	<input type="text" value="123"/>	Comments	<input type="text"/>
Longitude	<input type="text"/>	Latitude	<input type="text"/>
Elevation	<input type="text"/>	TAR Code	<input type="text"/>
Location	<input type="text"/>	Reserved (for Service Provider use)	<input type="text"/>

Update ALI Info

Cancel Changes

Close



Cisco ER Groups ERL Phone Tracking ERL Membership Reports Tools Help Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

LAN Switch Details [Configure IP Subnets](#)

Switch Port Details

Find [Configure](#) [Export](#) [Import](#)

View Switch Port Information
Find ports where All Any of the conditions are satisfied
ERL Name contains
[Find](#) [More](#)

[Edit Table View](#)

Matching record(s) 1 to 50 of 51

ERL Name	Switch IP Address	IfName	Location	Phone Extension	Phone IP Address	Phone Type	Port Name
	172.20.43.20	1/1	View				
	172.20.43.20	1/2	View				
	172.20.43.20	15/1	View				
	172.20.43.20	3/1	View				
	172.20.43.20	3/2	View				
	172.20.43.20	3/3	View				
	172.20.43.20	3/4	View				
	172.20.43.20	3/5	View				
	172.20.43.20	3/6	View				
	172.20.43.20	3/7	View				
	172.20.43.20	3/8	View				
	172.20.43.20	3/9	View				
	172.20.43.20	3/10	View				
	172.20.43.20	3/11	View				
	172.20.43.20	3/12	View				
	172.20.43.20	3/13	View				
	172.20.43.20	3/14	View				
	172.20.43.20	3/15	View				
	172.20.43.20	3/16	View				
	172.20.43.20	3/17	View				
	172.20.43.20	3/18	View				
	172.20.43.20	3/19	View				
	172.20.43.20	3/20	View				
	172.20.43.20	3/21	View				



	172.20.43.20	3/22	View				
	172.20.43.20	3/23	View				
	172.20.43.20	3/24	View				
Education Center	172.20.43.20	3/25	Education Cente.. View	2002	172.20.16.102	Cisco 7960	
Education Center	172.20.43.20	3/26	Education Cente.. View				
Education Center	172.20.43.20	3/27	Education Cente.. View				
Education Center	172.20.43.20	3/28	Education Cente.. View				
Elementary	172.20.43.20	3/29	router port View				
Elementary	172.20.43.20	3/30	Elementary View				
Elementary	172.20.43.20	3/31	Elementary View				
Elementary	172.20.43.20	3/32	Elementary View	2003	172.20.16.101	Cisco 7940	
High School	172.20.43.20	3/33	High School View				
High School	172.20.43.20	3/34	High School View	2001	172.20.16.103	Cisco 7960	
High School	172.20.43.20	3/35	High School View				
High School	172.20.43.20	3/36	High School View				
	172.20.43.20	3/37	View				
	172.20.43.20	3/38	View				
	172.20.43.20	3/39	View				
	172.20.43.20	3/40	View				
	172.20.43.20	3/41	View				
	172.20.43.20	3/42	View				
	172.20.43.20	3/43	View				
	172.20.43.20	3/44	View				
	172.20.43.20	3/45	View				
	172.20.43.20	3/46	View				
	172.20.43.20	3/47	View				

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[Edit Table View](#)



Configuring the Cisco 6608 MGCP Gateway

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

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

Product : Cisco Catalyst 6000 T1 VoIP Gateway
Gateway : SD/DS1-0@SDA0001C9D93A98
Device Protocol: Digital Access PRI
Registration: Registered with Cisco CallManager 172.20.16.250
IP Address: [172.20.16.100](#)

Status: Ready

Device Information

MAC Address*	<input type="text" value="0001C9D93A98"/>
Description	<input type="text" value="6608 T1 PRI"/>
Device Pool*	<input type="text" value="Default"/>
Network Locale	<input type="text" value="United States"/>
Media Resource Group List	<input type="text" value=" < None >"/>
Location	<input type="text" value=" < None >"/>
AAR Group	<input type="text" value=" < None >"/>
Load Information	<input type="text"/>

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain (e.g., "0000FF")	<input type="text"/>
MLPP Indication	<input type="text" value="Default"/>
MLPP Preemption	<input type="text" value="Default"/>

Interface Information

PRI Protocol Type*	<input type="text" value="PRI N12"/>
Protocol Side*	<input type="text" value="Network"/>
Channel Selection Order*	<input type="text" value="Bottom Up"/>
Channel IE Type*	<input type="text" value="Use Number when 1B"/>
PCM Type*	<input type="text" value="µ-law"/>
Delay for first restart (1/8 sec ticks)	<input type="text" value="32"/>
Delay between restarts (1/8 sec ticks)	<input type="text" value="4"/>

Inhibit restarts at PRI initialization
 Enable status poll



Call Routing Information	
Inbound Calls	
Significant Digits*	All
Calling Search Space	E911CSS
AAR Calling Search Space	<None>
Prefix DN	
Outbound Calls	
Calling Line ID Presentation*	Default
Calling Party Selection*	Originator
Called party IE number type unknown*	Cisco CallManager
Calling party IE number type unknown*	Cisco CallManager
Called Numbering Plan*	Cisco CallManager
Calling Numbering Plan*	Cisco CallManager
Number of digits to strip*	0
Caller ID DN	
SMDI Base Port*	0
PRI Protocol Type Specific Information	
<input type="checkbox"/> Display IE Delivery	
<input type="checkbox"/> Redirecting Number IE Delivery - Outbound	
<input type="checkbox"/> Redirecting Number IE Delivery - Inbound	
<input checked="" type="checkbox"/> Send Extra Leading Character In DisplayIE***	
<input type="checkbox"/> Setup non-ISDN Progress Indicator IE Enable****	
<input type="checkbox"/> MCDN Channel Number Extension Bit Set to Zero**	
<input type="checkbox"/> Send Calling Name In Facility IE	
<input type="checkbox"/> Interface Identifier Present**	
Interface Identifier Value**	0
Connected Line ID Presentation (QSIG Inbound Call)*	Default
Connected PBX Model	None



Product Specific Configuration i

Clock Reference*	<input type="text" value="Network"/>
TX-Level CSU*	<input type="text" value="0dB"/>
FDL Channel*	<input type="text" value="ATT 54016"/>
Framing*	<input type="text" value="ESF"/>
Audio Signal Adjustment into IP Network*	<input type="text" value="NoDbPadding"/>
Audio Signal Adjustment from IP Network*	<input type="text" value="NoDbPadding"/>
Yellow Alarm*	<input type="text" value="Bit2"/>
Zero Suppression*	<input type="text" value="B8ZS"/>
Digit On Duration(50-500ms)*	<input type="text" value="100"/>
Interdigit Duration(50-500msec)*	<input type="text" value="100"/>
SNMP Community String	<input type="text" value="public"/>
Disable SNMP Set operations*	<input type="checkbox"/>
Debug Port Enable*	<input checked="" type="checkbox"/>
Hold Tone Silence Duration*	<input type="text" value="0"/>
Port Used for Voice Calls*	<input checked="" type="checkbox"/>
Port Used for Modem Calls*	<input checked="" type="checkbox"/>
Port Used for Fax Calls*	<input checked="" type="checkbox"/>

Fax and Modem Parameters

Fax Relay Enable*	<input checked="" type="checkbox"/>
Fax Error Correction Mode Override*	<input checked="" type="checkbox"/>
Maximum Fax Rate*	<input type="text" value="14400bps"/>
Fax Payload Size*	<input type="text" value="20"/>
Non Standard Facilities Country Code*	<input type="text" value="65535"/>
Non Standard Facilities Vendor Code*	<input type="text" value="65535"/>
Fax/Modem Packet Redundancy*	<input type="checkbox"/>
NSE Type*	<input type="text" value="Non-IOS Gateways"/>

Playout Delay Parameters

Initial Playout Delay*	<input type="text" value="40"/>
Minimum Playout Delay*	<input type="text" value="20"/>
Maximum Playout Delay*	<input type="text" value="150"/>

Echo Canceller Configuration

Echo TailLength (ms)*	<input type="text" value="32 ms"/>
Minimum ERL (db)*	<input type="text" value="6 db"/>

* indicates required item
** applicable to DMS-100 protocol only
*** applicable to DMS-100 protocol and DMS-250 protocol only
**** may be required to force ringback from some PBXs

[Back to Find/List Gateways](#)



CISCO SYSTEMS



S0/DS1-0@SDA0001C9D93A98

Cisco Catalyst 6000 T1 VoIP Gateway

[Device Configuration](#)

[Network Configuration](#)

[Registration Status](#)

[Device Status](#)

[Port Status](#)

[TCP/IP Statistics](#)

[D-Channel Statistics](#)

[Facility Data Link](#)

Device Configuration

Device Protocol	Digital Access PRI
Protocol Side	Network
D-Channel Enabled	Yes
Framing	ESF
CSU Gain	0dB
WAN Voice Encoding	u-law
WAN Bit Encoding	B8ZS
Yellow Alarm Encoding	Bit2
Facility Data Link	ATT 54016
Transmit Clock Source	Slaved to Span 1 Rx Clock
Localization	United_States
Load Information	D00404000009
Call Manager 1	172.20.16.250
Call Manager 2	
Call Manager 3	

[Change Configuration](#)

[Page Help](#)



Configuring the Cisco 2611XM MGCP Gateway

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Gateway Configuration

[Back to Find/List Gateways](#)

Product : Cisco 26XX
Gateway : 2611XM-CAMA

Status: Ready

Domain Name*

Description

Cisco CallManager Group*

Installed Voice Interface Cards		Endpoint Identifiers	
Module in slot 0	<input type="text" value="< None >"/>		
Module in slot 1	<input type="text" value="NM-2V"/>		
Subunit 0	<input type="text" value="VIC-2FXO"/>	(1/0/0) TS	(1/0/1) TS
Subunit 1	<input type="text" value="VIC-2FXS"/>	(1/1/0) POTS	(1/1/1) POTS

Product Specific Configuration

Switchback Timing*

Switchback uptime-delay (min)

Switchback schedule (hh:mm)

* indicates required item

[Back to Find/List Gateways](#)



System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Gateway Configuration

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

Slot	Sub-Unit	Port	IP Address
Slot 1 / Sub-Unit 0	1 / 0 / 0		
	1 / 0 / 1		
Slot 1 / Sub-Unit 1	1 / 1 / 0	2100	
	1 / 1 / 1	2101	

Product : Cisco 26XX
Gateway : AALN/S1/SU0/0@2611XM-CAMA
Registration: Registered with Cisco CallManager 172.20.16.250
IP Address: 172.20.16.50

Status: Ready

Gateway Information

Description	AALN/S1/SU0/0@2611XM-CAMA
Device Pool*	Default
Calling Search Space	E911CSS
AAR Calling Search Space	< None >
Media Resource Group List	< None >
Location	< None >
AAR Group	< None >
Network Locale	United States

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain	(e.g., "0000FF")
MLPP Indication	Not available on this device
MLPP Preemption	Not available on this device

Port Information

Port Direction*	Outbound
Attendant DN*	2000

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
Echo Cancellation Enable*	Enable
Echo Cancellation Coverage (ms)*	Default

Cisco 2611XM MGCP Gateway Configuration

```
2611XM-CAMA# show running-config
```

```
Building configuration...
```

```
Current configuration : 2174 bytes
```

```
!
```

```
version 12.3
```

```
service timestamps debug uptime
```



```
service timestamps log uptime
no service password-encryption
!
hostname 2611XM-CAMA
!
boot-start-marker
boot-end-marker
!
no logging on
!
clock timezone gmt -8
no network-clock-participate slot 1
no network-clock-participate wic 0
no aaa new-model
ip subnet-zero
ip cef
ip tcp synwait-time 13
!
no ip domain lookup
no ftp-server write-enable
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 172.20.16.250
ccm-manager config
!
interface FastEthernet0/0
 ip address 172.20.16.50 255.255.255.0
 no ip route-cache cef
 no ip route-cache
 no ip mroute-cache
 duplex auto
```



```
speed 100
no keepalive
no cdp enable
no clns route-cache
!
interface FastEthernet0/1
no ip address
no ip route-cache cef
no ip route-cache
no ip mroute-cache
shutdown
speed 100
full-duplex
no clns route-cache
!
ip classless
ip route 0.0.0.0 0.0.0.0 FastEthernet0/0
no ip http server
!
no logging trap
!
voice-port 1/0/0
signal cama KP-NPD-NXX-XXXX-ST
dial-type mf
!
voice-port 1/0/1
signal cama KP-NPD-NXX-XXXX-ST
dial-type mf
!
voice-port 1/1/0
!
voice-port 1/1/1
```



```
!  
mgcp  
mgcp call-agent 172.20.16.250 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 nse  
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 100 pots  
  application mgcpapp  
  port 1/0/0  
!  
dial-peer voice 101 pots  
  application mgcpapp  
  port 1/0/1  
!  
dial-peer voice 110 pots  
  application mgcpapp  
  port 1/1/0  
!  
dial-peer voice 999100 pots
```



```
application mgcpapp
port 1/0/0
!
dial-peer voice 999101 pots
application mgcpapp
port 1/0/1
!
dial-peer voice 999110 pots
application mgcpapp
port 1/1/0
!
dial-peer voice 999111 pots
application mgcpapp
port 1/1/1
!
line con 0
exec-timeout 0 0
login
line aux 0
line vty 0 4
login
!
End
```




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