



# Cisco CallManager H323 Interoperability

Operating QuesCom with Cisco CallManager 3.3 - 4.0 - 4.1

QuesCom Product : **QuesCom 300/400 IP-GSM**  
System Release : **3.51 and above**

Document version 02.01, February 07, 18 pages

## Summary

**H323 Trunk Configuration** with the Cisco CallManager 3.3 - 4.0 - 4.1

This application note describes the steps necessary to get a Cisco CallManager (including the particular case of Publisher & Subscriber) and a Cisco CallManager Express to control a QuesCom 400 gateway. The configuration depicted is very simple with just one QuesCom gateway configured as a trunk.

This note does not deal with the configuration parts that are not relevant for interoperability, thus SIM management, PSTN gateway/route configuration and so on are not described

Please check the QuesCom documentation for additional information  
or contact the QuesCom Support hotline at: +33 (0) 820 20 38 46 or by email to [support@quescom.com](mailto:support@quescom.com)

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## 1. Introduction

The configuration is split in 3 parts :

- Configuring the Cisco CallManager and the QuesCom 400 to register with H323 Cisco CallManager (Chapter 2).
- *Particular case* : Configuring the QuesCom 400 to register with H323 Cisco CallManager **Publisher + Subscriber** (Chapter 3)
- Configuring the Cisco CallManager Express and the QuesCom 400 to register with H323 Cisco CallManager Express (Chapter 4)

## 2. Configuration for Cisco CallManager used with QuesCom IP/GSM gateway

### 2.1 Configuring the Cisco CallManager

The easiest way to understand how to create a successful configuration is to see one and hence this guide walks you through a sample configuration exercise using Cisco CallManager 3.3 or 4.0 and a French routing/numbering plan.

#### 2.1.1 Add a new trunk

From the main Cisco CallManager Administration screen click on **Device/Trunk** and then **add a New Trunk**.



On the first screen the Trunk type should be defined as **“Inter-Cluster Trunk (Non-GateKeeper Controller)”** using the **“Inter-Cluster Trunk”** device protocol.

## Add a New Trunk

Select the type of Trunk you would like to create:

Trunk type\*

Device Protocol\*

\* indicates required item

Then the QuesCom 400 IP/GSM should be inserted as the device for the trunk (ex: **QUESCOM400\_GSM**). Many of the settings may be left by default. In the Device Information section, all that is needed is to define the name and the default pool.

## Trunk Configuration

[Add a New Trunk](#)  
[Back to Find/List Trunk](#)

**Product: Inter-Cluster Trunk (Non-Gatekeeper Controlled)**  
**Device Protocol: Inter-Cluster Trunk**  
 Status: Ready

**Device Information**

Device Name*	<input type="text" value="QUESCOM400_GSM"/>
Description	<input type="text" value="QUESCOM400_GSM"/>
Device Pool*	<input type="text" value="Default"/>
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;"/>

### Note



Inbound Calls settings may also be left with their default values (verify that Significant Digits is **All**). Outbound calls settings are user-defined such as, in this example calling user has CLI set to be presented.

Finally the IP address of the gateway must be added to the **"Server1 IP Address/Hostname"** field. Then click on **Insert** to add the device.



### Caution

Following the prompts click on **Reset Trunk** and then **Reset** to ensure that the Trunk is active and the device is ready to accept calls.

### 2.1.2 Route configuration

Now select **Route/Route Group** and then **Add A New Route** to begin configuration of the route using the new trunk.



Give the Route Group a name (ex: **GSM\_GATEWAYS**) and hit continue.



Then choose the **"QUESCOM400\_GSM"** in the device name (it should automatically select Port(s) **All** and Order **1** when you do this) and click **Insert/Add to Route Group**.



The **Route Group** should now look like the one below and we are ready to move to the next stage.



### 2.1.3 Route List Configuration

Now select **Route/Route Group** and then **Add A New Route List**.



Give the new Route a name (ex: **GSM\_LIST**) and hit **Insert**.



Having created the new **Route List** you must add the appropriate Route Group (click **Add Route Group**, select the GSM group and hit **Insert**)

## Route/Hunt List Detail Configuration

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

<b>Route/Hunt List Details</b>	<p><b>Route/Hunt List: New</b></p> <p>Status: Ready</p> <p><input type="button" value="Insert"/></p> <p>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.</p> <p><b>Details for New Route/Hunt List Member</b></p> <p>Route Group* <input type="text" value="GSM_GATEWAYS-[NON-QSIG]"/></p>
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Repeat to add backup route groups (the gateway(s) to the PSTN) so that you have a route for calls when the QuesCom 400 IP/GSM box is fully occupied or unavailable due to a network failure.

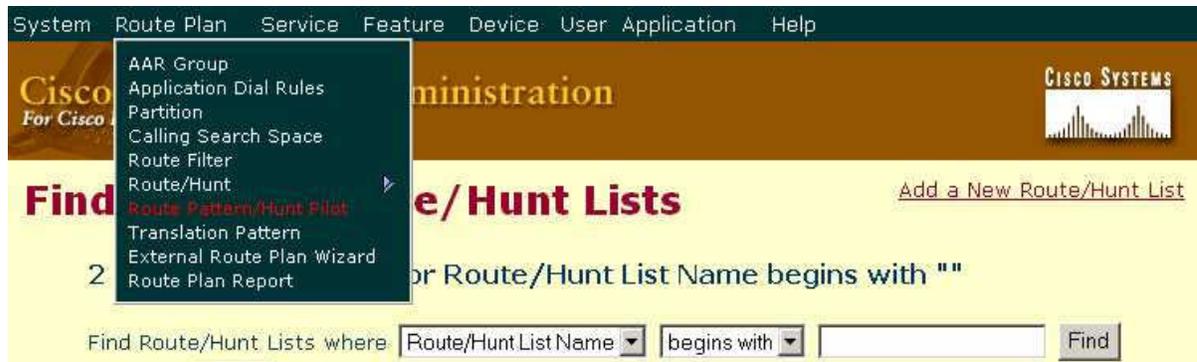
## Route/Hunt List Configuration

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

<b>Route/Hunt List Details</b>	<p><b>Route/Hunt List: GSM_LIST</b></p> <p>Status: Route Group insert completed</p> <p><input type="button" value="Copy"/> <input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/></p> <p><b>Route/Hunt List Information</b></p> <p>Route/Hunt List Name* <input type="text" value="GSM_LIST"/></p> <p>Description <input type="text" value="GSM_LIST"/></p> <p>Cisco CallManager Group* <input type="text" value="Default"/></p> <p><input checked="" type="checkbox"/> Enable this Route/Hunt List (change effective on Update; no reset required)</p> <p><b>Route/Hunt List Member Information</b></p> <p><input type="button" value="Add Route Group"/> <input type="button" value="Add Line Group"/></p> <p>Selected Groups* (ordered by highest priority)</p> <div style="border: 1px solid black; padding: 5px;"> <p>GSM_GATEWAYS[non-QSIG]</p> <p>RT_GROUP_GSM[non-QSIG]</p> </div>
--------------------------------	--

### 2.1.4 Route Pattern Configuration

Select **Route/Route Pattern** and then **Add a New Route Pattern**



You should choose the appropriate route pattern to match mobile numbers, the new GSM route list and hit Insert. French numbering plan is 06 XX XX XX XX

Now if you see a screen like the one below you have fully enabled the QuesCom 400 IP/GSM gateway within Cisco CallManager



Congratulations you have configured the Cisco CallManager to recognize and use the QuesCom 400 IP/GSM gateway.

## 2.2 Configuring the QuesCom to register with H323 Cisco CallManager

This section describes how to setup the QuesCom 400 IP/GSM to accept calls from the Cisco CallManager. The Cisco CallManager has to be declared on the QuesCom 400 IP/GSM as a **Foreign Gatekeeper** with VoIP profiles set to **No RAS** and **Wait Terminal Capability**. Here is how to proceed.

Connect to Qportal : <http://<QuescomIPAddress>:8000> (ex: http://192.168.11:8000)  
Login with **General Administrator** as a login, default password is **quescom**

### 2.2.1 Adding a VoIP Profile

In the main menu, select **Licences & Profiles>VoIP Profile**  
In the VoIP Profile window, select **Add Record**

Give the profile a name (i.e.: **CCM\_Profile**), set the type to **Foreign GK (H.323)**, uncheck **RAS Support**, check **Wait for Terminal Capability Set** and set **Frame size** to 20ms for all codecs. Then **save** the profile.



The screenshot shows the QuesCom portal interface for configuring a VoIP Profile. The page title is "VoIP Profile" and the profile name is "CCM\_profile". The profile type is set to "Foreign GK (H323)". The "Codecs preferred frames size" table is as follows:

Codec	Frames Size
G711	20
G723	20
G729	20
GSM	20

The "Foreign Gatekeeper Characteristics" section includes the following options:

- ARQ Source Info:
- ARQ CS Address:
- ARQ GK Identifier:
- RTP Routing:
- DTMF out of band Support:
- RAS Support:
- Wait for Terminal Capability Set:
- Use Standard Call Signaling Port:
- Use fast start reject:

### 2.2.2 Adding a Foreign Gatekeeper

In the main menu, select **Object>Foreign Gatekeeper**  
In the Foreign Gatekeeper window, select **Add Record**

Now set the Registration ID (i.e. **CCM\_1**), the **Gatekeeper Type** to **H323** and the **Gatekeeper Name** (i.e. CCM\_1). The **IP Address** is the IP address of the Cisco CallManager, the **VoIP Profile Mode** has to be set with **Static Mode** and the **VOIP Profile** is the one you just created above (i.e. CCM\_Profile). **Save** this gatekeeper record.

### 2.2.3 Adding SmartIAD Device Group

A Device Group can include from 1 to x gateways (SmartIAD). The group permits an easy management. No need to add new services when you add one QuesCom 400 in the architecture. You just have to add the new QuesCom into the group.

In the main menu, select **Objects>Device Group**  
 In the Service window, select **Add Record**

Set a name (i.e. **GW\_GROUP**) and the **"Device Type"** to **"SmartIAD"**. Then select the SmartIAD from the left window and transfer it to the right window (it's also possible to click on **">>"** button). **Save** this Device Group record.

### 2.2.4 Adding Services Form

To accept calls from the Cisco CallManager, the QuesCom IP/GSM needs routes to be created. In the QuesCom 400 IP/GSM routes are declared as services.

In the main menu, select **Services>Service**  
 In the Service window, select **Add Record**

Set the **"Origin Type"** with **"Foreign GK"** (i.e. **CCM\_1**). Set the called prefix to **"\*"** if you want to accept all calls or set it with the GSM prefix of your country (i.e. **06** for France) if you only want calls to mobiles. The Call type should be **"Foreign GK"**. The service type should be **"VOIP"** (default value). Set the destination type to **"Device Group"**, select the SmartIAD Device Group name (i.e. **GW\_GROUP**) and set the **"Balancing Mode"** with **"Cycling"**. **Save** the record.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET CANCEL

QuesCom 400  
 Users  
 Objects  
 Services  
 Service  
 Redirection  
 Direct Dial In Service  
 Costs  
 Licenses and Profiles  
 Logs

**Service**

**Origin**  
 Origin Type:  Device  Foreign GK  CTI  
 Device Group: **GW\_GROUP**  
 Origin: CCM\_1  
 Called Prefix Number: \*  
 Call Type: Foreign Gatekeeper  
 Enabled for:  H323  QCP  SIP

**Destination**  
 Destination Type:  IP Address (H323)  Device  Foreign GK  CTI  Device Group  
 IP Address:  
 Device: GW\_GROUP (SmartAD)  
 Balancing mode:  None  Bal.  Cycling

**Service associated**  
 Service type: VoIP  
 Authentication Type: None  
 Called Number Type: Dialed Number  
 Voice Fax Mode:  Switch  VoIP  CTI Application

**Backup Mode**  
 Enabled for:  DSP  Relay  RSVP  Other

**Call Server Operations**  
 LCR Support: No  
 CDR Support: Yes  
 Cost Support: No

**VoIP Service**  
 Law Transcoding:   
 Quality of service(HEX): Min Delay 10

**Fax /Voice Service**  
 Voice Fax Type: Store & Forward  
 Store & Forward Type: FAX TO EMAIL  
 Called Number:  
 Notify Receipt Type: None  
 Notify receipt to:  
 Send To:

Now, set a new service with the following parameters.  
 Set the "Origin Type" with "Device Group" (i.e. GW\_GROUP). Set the called prefix to "\*". The Call Type should be "VoIP Outgoing". The service type should be "Switch" (default value). Set the destination "Slot Number" to "0" and "Ports number" depending on the number of GSM trunks you have. **Save** the record.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET

Hide menu

QuesCom 400  
 Users  
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 Service  
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 Direct Dial In Service  
 Costs  
 Licenses and Profiles  
 Logs

**Service**

**Origin**  
 Origin Type:  Device  Foreign GK  CTI  
 Device Group: **GW\_GROUP (SmartAD)**  
 Origin: GW\_GROUP (SmartAD)  
 Called Prefix Number: \*  
 Call Type: VoIP Outgoing  
 Enabled for:  H323  QCP  SIP

**Service associated**  
 Service type: Switch  
 Authentication Type: None  
 Called Number Type: ISDN  
 Voice Fax Mode:  Switch  VoIP  CTI Application

**Call Server Operations**  
 LCR Support: No  
 CDR Support: Yes  
 Cost Support: No

**Switch service**  
 Slot Number: Any 0 1 2 3 4 5 6  
 Slot Balancing:         
 Port Number: Any 0 1 2 3 4 5 6 7 8 9 10 11  
 Port Balancing:              
 IVR Profile:  
 IVR Called Number:

You have now finished the complete configuration for the QuesCom 400.

**Caution**  
 In order to be able to perform GSM calls from Cisco CallManager to the QuesCom 400 IP/GSM gateway, you **must restart the CallServer**.

### 3. Particular Case : Configuration for Cisco Publisher & Subscriber CallManagers used with QuesCom IP/GSM gateway

#### 3.1 Configuring Cisco CallManagers Publisher and Subscriber

The configuration of Cisco CallManager is the same as the one described into chapter 2. Please refer to it for more information.

#### 3.2 Configuring the QuesCom to register with H323 Cisco CallManagers Publisher & Subscriber

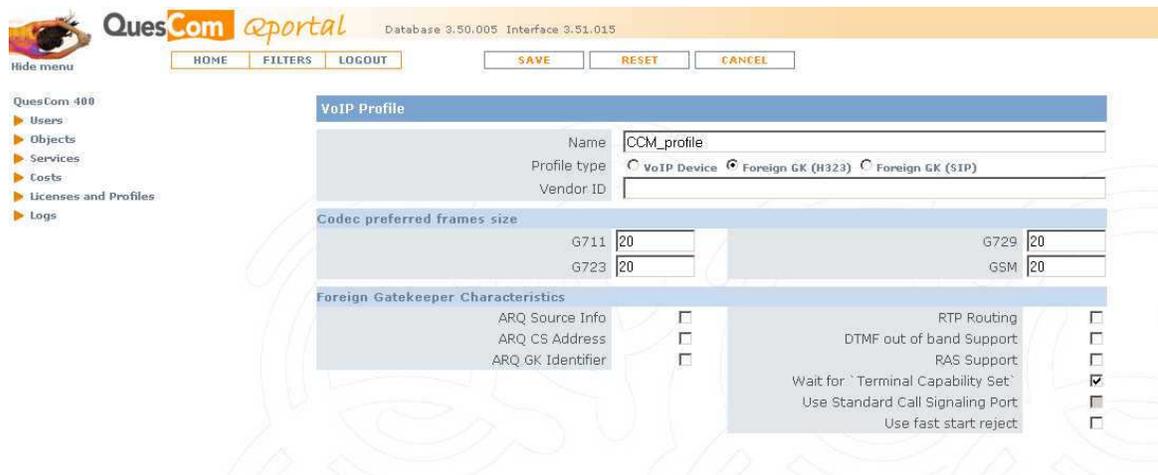
This section describes only how to setup the QuesCom 400 IP/GSM to accept calls from the Cisco **Publisher and Subscriber** CallManagers. Here is how to proceed.

Connect to Qportal : <http://<QuescomIPAddress>:8000> (ex: http://192.168.11:8000)  
Login with "**General Administrator**" as a login, default password is "**quescom**"

##### 3.2.1 Adding a VoIP Profile

In the main menu, select **Licenses & Profiles>VOIP Profile**  
In the VOIP Profile window, select **Add Record**

Then give the profile a name (i.e. "**CCM\_Profile**"), set the type to "**Foreign GK (H.323)**", uncheck "**RAS Support**", check "**Wait for Terminal Capability Set**" and set "**Frame size**" to 20ms for all codecs. Then save the profile.



##### 3.2.2 Adding a Foreign Gatekeeper

In the main menu, select **Object>Foreign Gatekeeper**  
In the Foreign Gatekeeper window, select **Add Record**

Now set the Registration ID (i.e. **CCM\_PUBLISHER**), the "**Gatekeeper Type**" to "**H323**" and the "**Gatekeeper Name**" (i.e. CCM\_PUBLISHER). The "**IP Address**" is the IP address of the Cisco CallManager **Publisher**, the "**VoIP Profile Mode**" has to be set with "**Static Mode**" and the "**VOIP Profile**" is the one you just created above (i.e. CCM\_Profile). **Save** this gatekeeper record.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET CANCEL

QuesCom 400

- Users
- Objects
  - VoIP Device
  - Foreign Gatekeeper
  - SmartIAD@
  - Device Group
  - CTI Application
  - Services
  - Costs
  - Licenses and Profiles
  - Logs

Foreign Gatekeeper

Settings		Localisation (Default)
ID	CCM_PUBLISHER	International Prefix
Gatekeeper Type	<input checked="" type="radio"/> H323 <input type="radio"/> SIP	Country Code
Name	CCM_PUBLISHER	Area Code
IP Address	192.168.200.147	National Prefix
Listen Port		
No Resp. delay (ms)	0	
Default SmartIAD@	LAB110 (SmartIAD)	
VoIP Profile Mode	Static Mode	
VoIP Profile	CCM_Profile	

Then, repeat the same operation with same parameters to record the CCM\_SUBSCRIBER. The "IP Address" is the one of the Cisco CallManager Subscriber.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET CANCEL

QuesCom 400

- Users
- Objects
  - VoIP Device
  - Foreign Gatekeeper
  - SmartIAD@
  - Device Group
  - CTI Application
  - Services
  - Costs
  - Licenses and Profiles
  - Logs

Foreign Gatekeeper

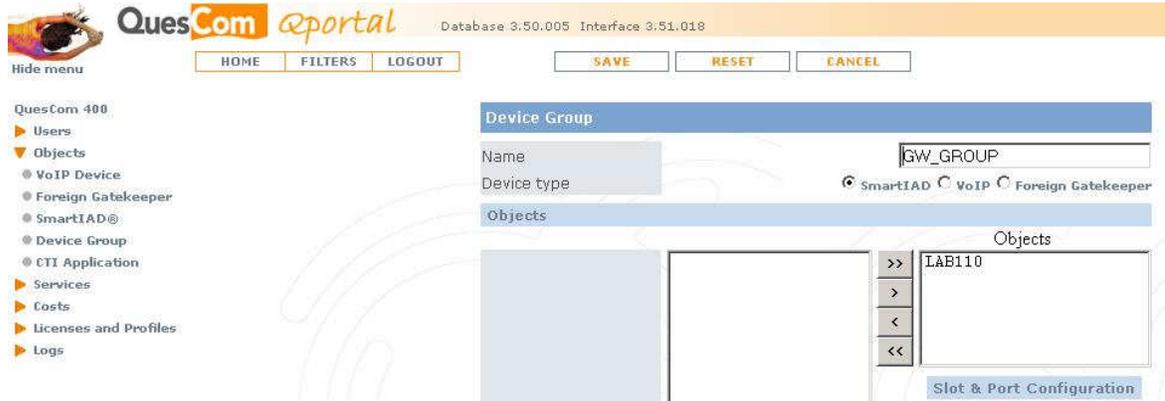
Settings		Localisation (Default)
ID	CCM_SUBSCRIBER	International Prefix
Gatekeeper Type	<input checked="" type="radio"/> H323 <input type="radio"/> SIP	Country Code
Name	CCM_SUBSCRIBER	Area Code
IP Address	192.168.200.148	National Prefix
Listen Port		
No Resp. delay (ms)	0	
Default SmartIAD@	LAB110 (SmartIAD)	
VoIP Profile Mode	Static Mode	
VoIP Profile	CCM_Profile	

### 3.2.3 Adding SmartIAD Device Group

A Device Group can include from 1 to x gateways (SmartIAD). The group permits an easy management. No need to add new services when you add one QuesCom 400 in the architecture. You just have to add the new QuesCom 400 into the group.

In the main menu, select **Objects>Device Group**  
 In the Service window, select **Add Record**

Set a name (i.e. **GW\_GROUP**) and the "Device Type" to "SmartIAD". Then select the SmartIAD from the left window and transfer it to the right window (it's also possible to click on ">>" button).  
**Save** this Device Group record.



### 3.2.4 Adding Foreign Gatekeeper Device Group

In order to minimise the number of services to create, a group of Foreign Gatekeeper including Publisher & Subscriber has to be created.

In the main menu, select **Objects>Device Group**  
In the Service window, select **Add Record**

Set a name (i.e. **CCM\_GROUP**) and the "Device Type" to "Foreign Gatekeeper". Then select both Publisher & Subscriber from the left window and transfer them to the right window (it's also possible to click on ">>" button).

**Save** this Device Group record.



### 3.2.5 Adding Services Form

To accept calls from the Cisco CallManager, the QuesCom 400 IP/GSM needs routes to be created. In the QuesCom 400 IP/GSM routes are declared as services.

In the main menu, select **Services>Service**  
In the Service window, select **Add Record**

Set the "Origin Type" with "Device Group" (i.e. "CCM\_GROUP"). Set the called prefix to "\*" if you want to accept all calls or set it with the GSM prefix of your country (i.e. **06** for France) if you only want calls to mobiles. The Call Type should be "Foreign GK". The service type should be "VOIP" (default value). Set the destination type to "Device Group", select the SmartIAD Device Group name (i.e. **GW\_GROUP**) and set the "Balancing Mode" with "Cycling". **Save** the record.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET CANCEL

QuesCom 400  
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**Service**

**Origin**  
 Origin Type:  Device  Foreign GK  CTI  
 Device Group  
 Origin: CCM\_GROUP (Foreign GK)  
 Called Prefix Number: \*  
 Call Type: Foreign Gatekeeper  
 Enabled for:  H323  QGPP  SIP

**Destination**  
 Destination Type:  IP Address (H323)  
 Device  Foreign GK  
 CTI  Device Group  
 IP Address:  
 Device: GW\_GROUP (SmartAD)  
 Balancing mode:  None  Bal.  Cycling

**Service associated**  
 Service type: VoIP  
 Authentication Type: None  
 Called Number Type: Dialed Number  
 Voice Fax Mode:  Switch  VoIP  CTI Application

**Backup Mode**  
 Enabled for:  DSP  Relay  
 RSVP  Other

**Fax /Voice Service**  
 Voice Fax Type: Store & Forward  
 Store & Forward Type: FAX TO EMAIL  
 Called Number:  
 Notify Receipt Type: None  
 Notify receipt to:  
 Send To:

**Call Server Operations**  
 LCR Support: No  
 CDR Support: Yes  
 Cost Support: No

**VoIP Service**  
 Law Transcoding:   
 Quality of service(HEX): Min Delay 10

Now, set a new service with the following parameters.  
 Set the "Origin Type" with "Device Group" (i.e. "GW\_GROUP"). Set the called prefix to "\*". The Call Type should be "VoIP Outgoing". The service type should be "Switch" (default value). Set the destination "Slot Number" to "0" and "Ports number" depending on the number of GSM trunks you have. **Save** the record.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET

QuesCom 400  
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**Service**

**Origin**  
 Origin Type:  Device  Foreign GK  CTI  
 Device Group  
 Origin: GW\_GROUP (SmartAD)  
 Called Prefix Number: \*  
 Call Type: VoIP Outgoing  
 Enabled for:  H323  QGPP  SIP

**Service associated**  
 Service type: Switch  
 Authentication Type: None  
 Called Number Type: ISDN  
 Voice Fax Mode:  Switch  VoIP  CTI Application

**Call Server Operations**  
 LCR Support: No  
 CDR Support: Yes  
 Cost Support: No

**Switch service**  
 Slot Number: Any 0 1 2 3 4 5 6  
 0  1  2  3  4  5  6  
 Slot Balancing:    
 Port Number: Any 0 1 2 3 4 5 6 7 8 9 10 11  
 0  1  2  3  4  5  6  7  8  9  10  11  
 Port Balancing:    
 IVR Profile:  
 IVR Called Number:

You have now finished the complete configuration for the QuesCom 400.



**Caution**

In order to be able to perform GSM calls from Cisco CallManager Publisher and Subscriber to the QuesCom 400 IP/GSM gateway, you **must restart the CallServer**.

## 4. Configuration for Cisco CallManager Express used with QuesCom IP/GSM gateway

### 4.1 Configuring the Cisco CallManager Express

Connect to the Cisco CallManager Express and set a "Dial-peer" VoIP configured with the QuesCom IP address and the GSM prefix.

Below you can find an exemple of elements to set into the Cisco CallManager Express :

- Set a **voice class** depending on the codec you need to use.
- In the dial-peer, set the "**destination-pattern**" with the GSM prefix (i.e. **06** for France) and the "**session target**" with the IP address of the QuesCom 400 (i.e. "192.168.200.100" in the exemple)

```
!
!
voice class codec 1
  codec preference 1 g711ulaw
  codec preference 2 g711alaw
  codec preference 3 g729br8
!
!
dial-peer voice 1 voip
  destination-pattern . . . . .
  progress_ind setup enable 3
  voice-class codec 1
  session target ipv4:192.168.200.100
!
!
```

### 4.2 Configuring the QuesCom to register with H323 Cisco CallManager Express

This section describes how to setup the QuesCom 400 IP/GSM to accept calls from the Cisco CallManager Express. The Cisco CallManager Express has to be declared on the QuesCom 400 IP/GSM as a "**Foreign Gatekeeper**" with VoIP profiles set to "**No RAS**" and "**Wait Terminal Capability**" must be **unchecked**.

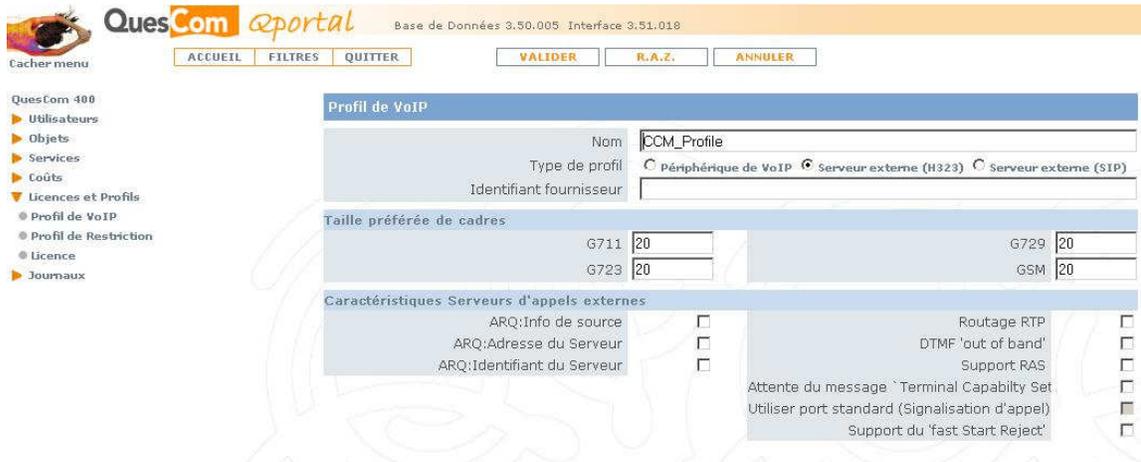
Here is how to proceed.

Connect to Qportal : `http://<Q400IPaddress>:8000` (ex: `http://192.168.11:8000`)  
Login with "**General Administrator**" as a login, default password is "**quescom**"

#### 4.2.1 Adding a VoIP Profile

Then give the profile a name (i.e.: **CCM\_Profile**), set the type to "**Foreign GK (H.323)**", uncheck "**RAS Support**", **leave unchecked "Wait for Terminal Capability Set"** and set "**Frame size**" to 20ms for all codecs.

Then save the profile.



QuesCom 400 portal Base de Données 3.50.005 Interface 3.51.018

ACCUEIL FILTRES QUITTER VALIDER R.A.Z. ANNULER

Cacher menu

QuesCom 400

- Utilisateurs
- Objets
- Services
- Coûts
- Licences et Profils
  - Profil de VoIP
  - Profil de Restriction
  - Licence
  - Journaux

**Profil de VoIP**

Nom: CCM\_Profile

Type de profil:  Périphérique de VoIP  Serveur externe (H323)  Serveur externe (SIP)

Identifiant fournisseur: \_\_\_\_\_

Taille préférée de cadres:

G711	20	G729	20
G723	20	GSM	20

Caractéristiques Serveurs d'appels externes

ARQ:Info de source	<input type="checkbox"/>	Routage RTP	<input type="checkbox"/>
ARQ:Adresse du Serveur	<input type="checkbox"/>	DTMF 'out of band'	<input type="checkbox"/>
ARQ:Identifiant du Serveur	<input type="checkbox"/>	Support RAS	<input type="checkbox"/>
		Attente du message `Terminal Capability Set	<input type="checkbox"/>
		Utiliser port standard (Signalisation d'appel)	<input type="checkbox"/>
		Support du 'fast Start Reject'	<input type="checkbox"/>

#### 4.2.2 Adding a Foreign Gatekeeper

In the main menu, select **Object>Foreign Gatekeeper**  
 In the Foreign Gatekeeper window, select **Add Record**

Now set the Registration ID (i.e. **CCM\_1**), the **"Gatekeeper Type"** to **"H323"** and the **"Gatekeeper Name"** (i.e. CCM\_1). The **"IP Address"** is the IP address of the Cisco CallManager Express, the **"VoIP Profile Mode"** has to be set with **"Static Mode"** and the **"VOIP Profile"** is the one you just created above (i.e. CCM\_Profile). **Save** this gatekeeper record.



QuesCom 400 portal Database 3.50.005 Interface 3.51.015

Hide menu HOME FILTRES LOGOUT SAVE RESET CANCEL

QuesCom 400

- Users
- Objects
  - VoIP Device
  - Foreign Gatekeeper
  - SmartIAD@
  - Device Group
  - CTI Application
- Services
- Costs
- Licenses and Profiles
- Logs

**Foreign Gatekeeper**

Settings

ID	CCM_1
Gatekeeper Type	<input checked="" type="radio"/> H323 <input type="radio"/> SIP
Name	CCM_1
IP Address	192.168.200.82
Listen Port	_____
No Resp. delay (ms)	0
Default SmartIAD@	Lab160 (SmartIAD)
VoIP Profile Mode	Static Mode
VoIP Profile	CCM_Profile

Localisation (Default)

International Prefix	_____
Country Code	_____
Area Code	_____
National Prefix	_____

#### 4.2.3 Adding SmartIAD Device Group

A Device Group can include from 1 to x gateways (SmartIAD).  
 The group permits an easy management. No need to add new services when you add one QuesCom 400 in the architecture. You just have to add the new QuesCom 400 into the group.

In the main menu, select **Objects>Device Group**  
 In the Service window, select **Add Record**

Set a name (i.e. **GW\_GROUP**) and the **"Device Type"** to **"SmartIAD"**. Then select the SmartIAD from the left window and transfer it to the right window (it's also possible to click on ">>" button). **Save** this Device Group record.

QuesCom portal Database 3.50.005 Interface 3.51.018

Hide menu

HOME FILTERS LOGOUT SAVE RESET CANCEL

QuesCom 400

- Users
- Objects
  - VoIP Device
  - Foreign Gatekeeper
  - SmartIAD@
  - Device Group
  - CTI Application
- Services
- Costs
- Licenses and Profiles
- Logs

Device Group

Name: GW\_GROUP

Device type:  SmartIAD  VoIP  Foreign Gatekeeper

Objects

Objects: IAB110

Slot & Port Configuration

#### 4.2.4 Adding Services Form

To accept calls from the Cisco CallManager, the QuesCom 400 IP/GSM needs routes to be created. In the QuesCom 400 IP/GSM routes are declared as services.

In the main menu, select **Services>Service**  
In the Service window, select **Add Record**

Set the "Origin Type" with "Foreign GK" (i.e. CCM\_1). Set the called prefix to "\*" if you want to accept all calls or set it with the GSM prefix of your country (i.e. 06 for France) if you only want calls to mobiles. The Call Type should be "Foreign GK". The service type should be "VOIP" (default value). Set the destination type to "Device Group", select the SmartIAD Device Group name (i.e. GW\_GROUP) and set the "Balancing Mode" with "Cycling". Save the record.

QuesCom portal Database 3.50.005 Interface 3.51.018

HOME FILTERS LOGOUT SAVE RESET CANCEL

QuesCom 400

- Users
- Objects
- Services
  - Service
  - Redirection
  - Direct Dial In Service
  - Costs
  - Licenses and Profiles
  - Logs

Service

Origin

Origin Type:  Device  Foreign GK  CTI

Origin: CCM\_1

Called Prefix Number: \*

Call Type: Foreign Gatekeeper

Enabled for:  H323  QCP  SIP

Destination

Destination Type:  IP Address (H323)  Device  Foreign GK  CTI  Device Group

IP Address: [Empty]

Device: GW\_GROUP (SmartIAD)

Balancing mode:  None  Bal.  Cycling

Service associated

Service type: VoIP

Authentication Type: None

Called Number Type: Dialed Number

Voice Fax Mode:  Switch  VoIP  CTI Application

Backup Mode

Enabled for:  DSP  Relay  RSVP  Other

Fax /Voice Service

Voice Fax Type: Store & Forward

Store & Forward Type: FAX TO EMAIL

Called Number: [Empty]

Notify Receipt Type: None

Notify receipt to: [Empty]

Send To: [Empty]

Call Server Operations

LCR Support: No

CDR Support: Yes

Cost Support: No

VoIP Service

Law Transcoding:

Quality of service(HEX): Min Delay

Now, set a new service with the following parameters.

Set the "Origin Type" with "Device Group" (i.e. GW\_GROUP). Set the called prefix to "\*". The Call Type should be "VoIP Outgoing". The service type should be "Switch" (default value). Set the destination "Slot Number" to "0" and "Ports number" depending on the number of GSM trunks you have. Save the record.

QuesCom portal Database: 3,50,005 Interface: 3,51,018

Hide menu HOME FILTERS LOGOUT SAVE RESET

- QuesCom 400
  - Users
  - Objects
  - Services
    - Service
    - Redirection
    - Direct Dial In Service
    - Costs
    - Licenses and Profiles
    - Logs

**Service**

**Origin**

Origin Type:  Device  Foreign GK  CTI  
 Device Group

Origin: GW\_GROUP (SmartAD)

Called Prefix Number: \*

Call Type: VoIP Outgoing

Enabled for:  H323  QGPP  SIP

**Service associated**

Service type: Switch

Authentication Type: None

Called Number Type: ISDN

Voice Fax Mode:  Switch  VoIP  CTI Application

**Call Server Operations**

LCR Support: No

CDR Support: Yes

Cost Support: No

**Switch service**

Slot Number: Any 0 1 2 3 4 5 6

Slot Balancing:

Port Number: Any 0 1 2 3 4 5 6 7 8 9 10 11

Port Balancing:

IVR Profile:

IVR Called Number:

You have now finished the complete configuration for the QuesCom.

**Caution**

In order to be able to perform GSM calls from Cisco CallManager Express to the QuesCom IP/GSM gateway, you **must restart the CallServer**.