
UCM61xx Configuration

Grandstream UCM61xx IPPBX firmware version 1.0.4.7 has passed SIP Trunk interoperability testing with Broadvox on February 12th, 2014. This document introduces major configuration steps performed for interoperability testing between Broadvox and Grandstream UCM61xx IP PBX. For detailed information to configure SIP Extensions, PSTN lines, SIP trunks and all the other system settings via web GUI, please download the UCM61xx user manual from Grandstream web site:

http://www.grandstream.com/products/ucm_series/ucm61xx/documents/ucm61xx_usermanual_english.pdf.

Connecting a UCM

1. Connect one end of an RJ-45 Ethernet cable into:
 - WAN port of UCM6102
 - LAN1 port of UCM6104
 - LAN port of UCM6108 and UCM6116
2. Connect the other end of the Ethernet cable into the uplink port of an Ethernet switch/hub.
3. Connect the 12V DC power adapter into the 12V DC power jack on the back of the UCM61xx. Insert the main plug of the power adapter into a surge-protected power outlet.
4. Wait for UCM61xx to boot up. The LCD in the front will show its hardware information when the system boots up.
5. Once the UCM61xx is successfully connected to network, the LCD will display its IP address.
6. Open a web browser on the PC and enter the web GUI URL in the format:
http(s)://IP-Address:Port The default protocol is HTTPS and the default port number is 8089.
7. The web GUI login page will be displayed. Default username and password for administrator are admin/admin.

Create a UCM Extension

After Logging into UCM61xx web GUI, click on PBX → Basic/Call Routes → Extensions, click on “Create New User” to create a UCM extension. This extension is used in UCM SIP trunk test.

Create New User

General

Extension:	<input type="text" value="6001"/>	CallerID Name:	<input type="text"/>
CallerID Number:	<input type="text"/>	Permission:	<input type="text" value="International"/>
SIP/IAX Password:	<input type="text" value="IZ1Wv1Z3h"/>	Enable Voicemail:	<input checked="" type="checkbox"/>
Voicemail Password:	<input type="text" value="00108"/>	Email Address:	<input type="text"/>
Call Forward Unconditional:	<input type="text"/>	Call Forward No Answer:	<input type="text"/>
Call Forward Busy:	<input type="text"/>	Ring Timeout:	<input type="text"/>
Language:	<input type="text" value="Default"/>	Auto Record:	<input type="text" value="No"/>
Skip Voicemail Password Verification:	<input type="checkbox"/>	Support Hot-Desking Mode:	<input type="checkbox"/>

Technology

SIP:	<input checked="" type="checkbox"/>	IAX:	<input type="checkbox"/>
Analog Station:	<input type="text" value="None"/>		

Configure a VoIP Trunk

Click on PBX → Basic/Call Routes → VoIP Trunks, click on “Create New SIP/IAX Trunk”, enter the SIP trunk account information:

Create New SIP/IAX Trunk

More details will be shown when editing trunk.

Type:	Register SIP Trunk ▼
Provider Name:	Broadvox
Host Name:	dl01-03.fs.broadvox.net
Keep Trunk CID:	<input type="checkbox"/>
Username:	6173963992
Password:	••••••
AuthID:	6173963992
Outbound Proxy:	
Auto Record:	No ▼

Cancel
Save

Click on Save, a register SIP trunk is created. Click on “Apply Changes” to make the change take effect.

Apply Changes
Status
PBX
Settings
Maintenance
2014-02-14

PBX >> Basic/Call Routes >> VoIP Trunks ↻

VoIP Trunks

[Create New SIP/IAX Trunk](#)

Provider Name	Type	Hostname/IP	Username
Broadvox	Register SIP Trunk	dl01-03.fs.broadvox.net	6173963992

To create a static SIP trunk, enter the following information:

Create New SIP/IAX Trunk

More details will be shown when editing trunk.

Type:

Provider Name:

Host Name:

Keep Trunk CID:

Auto Record:

VoIP Trunks

[Create New SIP/IAX Trunk](#)

Provider Name	Type	Hostname/IP	Username	Options
Broadvox	Peer SIP Trunk	dl01-03.fs.broadvox.net		   

Configure an Outbound Route

Click on PBX → Basic/Call Routes → Outbound Routes, click on “Create New Outbound Rule”, enter the Calling Rule Name, Pattern etc. for an outbound route using the Broadvox SIP trunk:

Create New Outbound Rule

(i) Calling Rule Name:

(i) Pattern:

(i) Privilege Level:

(i) Password:

Send this call through trunk

(i) Use Trunk:

(i) Strip:

(i) Prepend:

(i) Use Failover Trunk:

Trunks	Strip	Prepend	Options
Click to add failover trunk			

An Outbound Rule “broadvox” is created.

Outbound Routes

[Create New Outbound Rule](#)

An outgoing calling rule associates an extension pattern with a trunk used to dial the pattern. This allows different patterns to be dialed through different trunks. For example, 'local' allows 7-digit dialed through FXO port while 'long distance' allows 10-digit dialed through a low-cost SIP. A failover trunk can be set up to be used when the primary trunk fails. Note: This panel only manages individual outgoing calling rules.

Sequence	Outbound Rule	Pattern	Privilege Level	Options
1	broadvox	_xxxxxxxx	International	    

Configure an Inbound Route

Click on PBX → Basic/Call Routes → Inbound Routes, click on “Create New Inbound Rule”, select the Broadvox VoIP trunk just created, enter the DID Pattern, Default Destination for an inbound route using the Broadvox SIP trunk. With extension 6001 as the default destination, calls coming in from the Brodvox trunk will ring extension 6001 directly.

Create New Inbound Rule

Trunks: SIP Register Trunks -- Broadvox ▼

i DID Pattern: _-- /

i Privilege Level: Internal ▼

i Default Destination: Extension ▼ 6001 ▼

Time Condition:

Time	Destination	Options
Click to add Time Condition		

Cancel
Save

An Inbound Rule “Trunks-Broadvox” is created.

Inbound Routes

Create New Inbound Rule
Blacklist

Trunks-Broadvox DID Features

Pattern	Time	Type	Destination	Options
_--	Default	--	User Extension-- 6001	✎ 🗑