



Grandstream Networks, Inc.

How to Configure IPVideoTalk with UCM6XXX



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OVERVIEW

This document introduces the IPVideoTalk service configuration on Grandstream UCM device with IPVideoTalk server.

The document will cover the following sections:

1. **Peer Trunk configuration between the UCM6XXX and the IPVideoTalk server:**
2. **Configuring Outbound routes on the UCM6XXX.**
3. **Introducing how to join into IPVideoTalk conferencing system for UCM users.**

Note: The UCM6XXX in this document refer to the UCM630X, UCM630XA, UCM62XX and UCM6510 models.



IPVIDEOTALK SERVICE CONFIGURATION ON UCM

SIP Trunk configuration on IPVT

Log into IPVideoTalk portal with the enterprise account, and access to **Server Maintenance** in order to access to the configuration management platform → **Service Configuration** → **SIP Trunk Settings** page. Fill the UCM server IP address (public IP address) in **Target Server Address** field, Make sure the Server is accessible to any IP address or to specific IP address as the screenshot below shows:

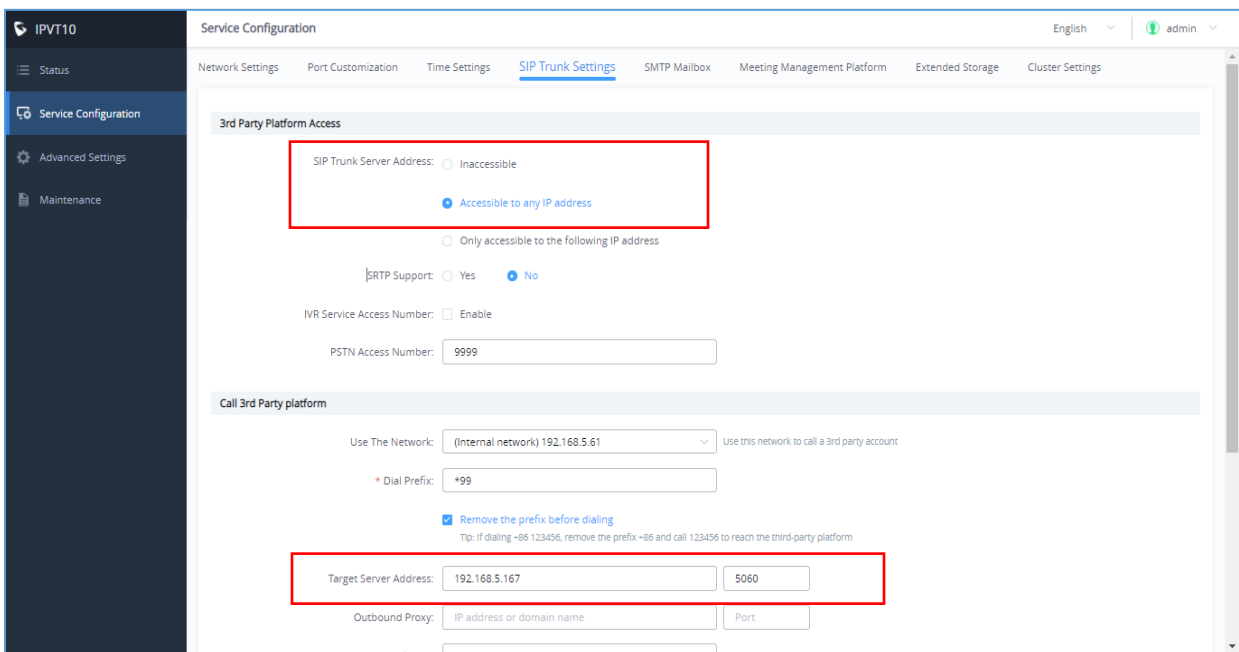


Figure 1 : IPVT SIP Trunk Configuration

UCM6XXX Configuration

PEER Trunk Configuration

1. Login to the UCM6XXX's Web UI, and access to **Extension/Trunk** → **VoIP Trunk**.
2. Select Create New SIP Trunk, and fill the information into option "Provider Name" and "Host Name" as the figure shows below:



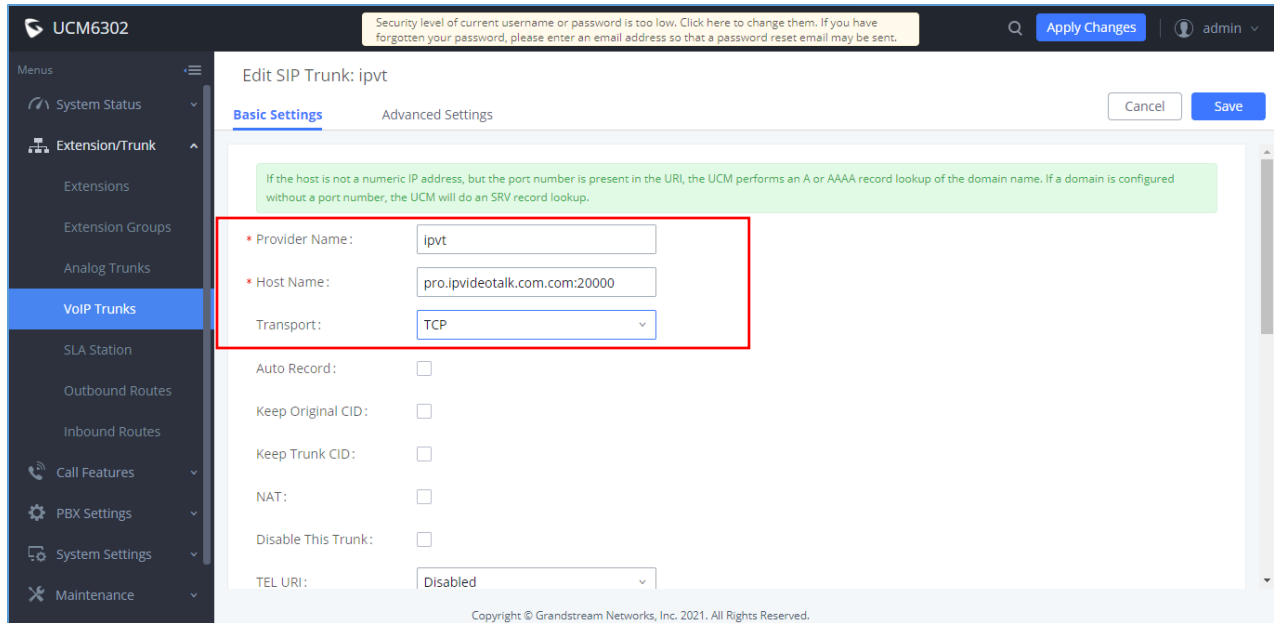


Figure 2 : Peer Trunk configuration

The following option need to be configured on the peer trunk settings:

Provider Name: Users need to fill in the provider's name, the duplicated name is not allowed. The provider name will be showing during inbound/outbound routing.

Host Name: Fill in the IPVideoTalk server domain name and port. For different protocols, the port numbers are different. (TCP: pro.ipvideotalk.com:20000, TLS: pro.ipvideotalk.com:20001)

SIP Transport: Users could select TCP/TLS as the SIP Transport, and the Port number should correspond the SIP Transport type.

IPVT Mode: This option is necessary. If users do not check this option, the audio/video calls may generate abnormal problems. The IPVT mode can be enabled under the advanced settings of the peer trunk.



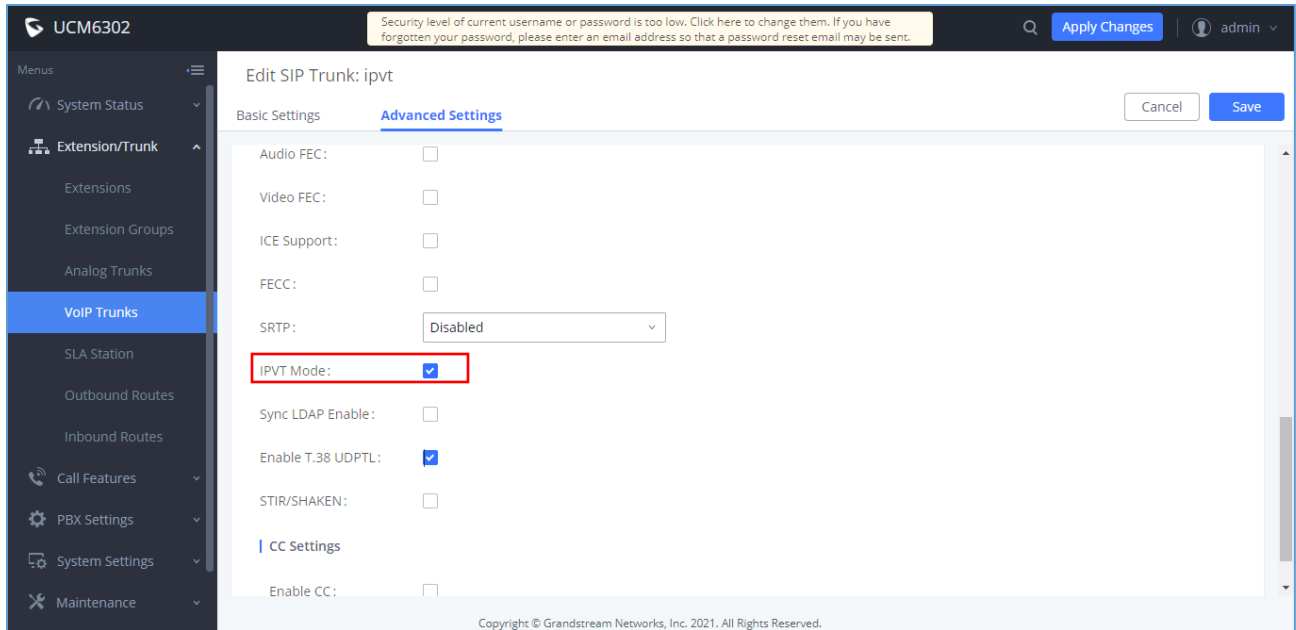


Figure 3: Enable IPVT Mode

UCM6XXX Outbound Route Configuration

This can be achieved by accessing **Extension/Trunk** → **Outbound Routes**, click on **Add** to add the Outbound Route. As the figure below is showing:



Create New Outbound Rule
Cancel Save

General

*** Outbound Rule Name:**

*** Pattern:**

PIN Group:

Password:

Local Country Code:

Disable This Route:

Privilege Level:

Warning: Setting privilege level at "Internal" has potential security risks.

PIN Groups with Privilege Level:

Auto Record:

Enable Source Caller ID Whitelist

Enable Source Caller ID

Whitelist:

Outbound Route CID:

Call Duration Limit

Call Duration Limit:

Main Trunk

*** Trunk:**

Strip:

Prepend:

Figure 4: Outbound Route configuration

The following options need to be configured under the outbound route settings:

Configure Calling Rule Name: Users need to fill in the Calling Rule Name for each Outbound Route, and the duplicated Calling Rule Name is not allowed.

Configure Pattern: Users need to configure “Pattern” to recognize the dialing numbers for UCM, and the initial pattern should be “_”. The special characters and wildcard characters are allowed for patterns configuration. For instance, users could configure the pattern as “prefix + meeting ID”, such as “_*99x”. Then, UCM clients could dial “*99 + IPVideoTalk meeting ID” to dial into the meeting. The meeting ID could be 1 or multiple digits, and users may need to configure “Strip” option, please see the table below:



Table 1: Pattern Rule

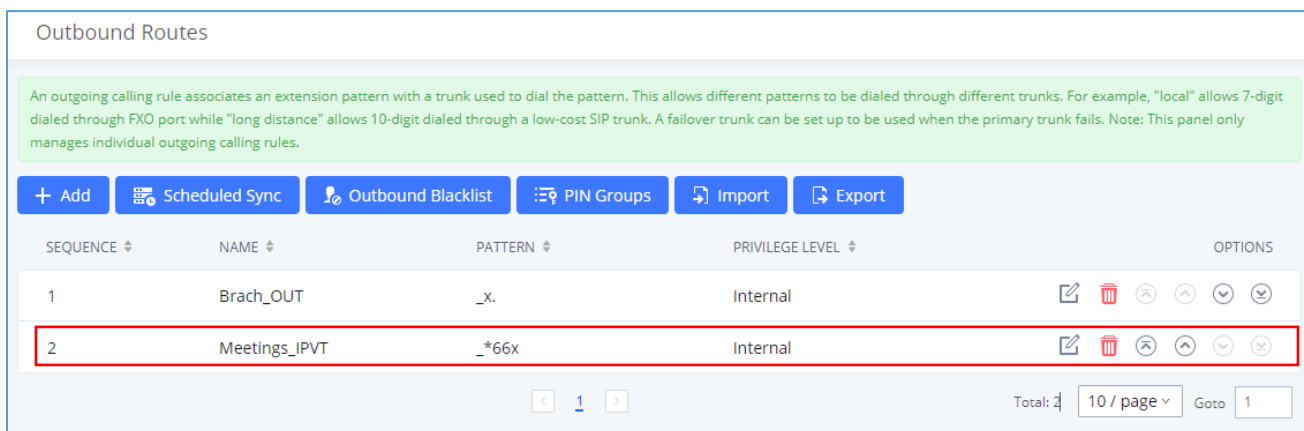
Parameters	Description
X/x	0-9
Z/z	1-9
N/n	2-9
[345-9]	3,4,5,6,7,8,9
!	0 or multiple characters (any character)
.	1 or multiple characters (any character)

Configure Privilege Level: Users need to configure the VoIP Trunk Privilege Level as “Internal” since the UCM clients’ default privilege level is “Internal”. The privilege level of the clients should be no lower than Outbound Route privilege level. Otherwise, the server will send 603 error messages to the clients.

Configure Use Trunk: Users need to select the configured VoIP Trunk.

Configure Strip: Users could configure the how many characters will be ignored for the prefix. For example, if users want to “*99”, users could set “3” for this option.

Users could click on **Save → Apply changes** to create the new Outbound Route, as the figure shows below:



Outbound Routes

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 trunk. A failover trunk can be set up to be used when the primary trunk fails. Note: This panel only manages individual outgoing calling rules.

+ Add Scheduled Sync Outbound Blacklist PIN Groups Import Export

SEQUENCE	NAME	PATTERN	PRIVILEGE LEVEL	OPTIONS
1	Brach_OUT	_x.	Internal	[Edit] [Delete] [Refresh] [Up] [Down] [Reset]
2	Meetings_IPVT	*66x	Internal	[Edit] [Delete] [Refresh] [Up] [Down] [Reset]

Total: 2 10 / page Goto 1

Figure 5: Outbound route created

UCM Clients Configuration

This section describes how to register the UCM6XXX’s clients in order to make the calls, we are using the GXV3370 as an example:



Log into the device's **Web UI → Account → General Settings**, and input the extension account information which is in UCM server.

SIP Server: Fill in the UCM server address and SIP port number. Please note that the port should correspond to the SIP Transport type.

Account and Password: Input the extension account and password which are in UCM server.

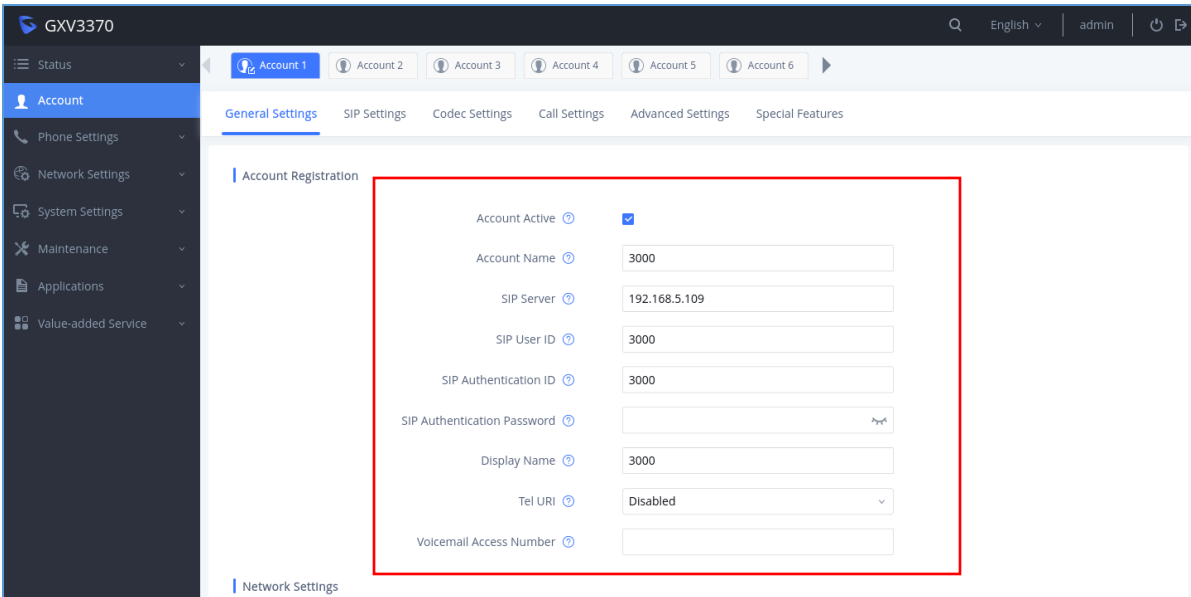


Figure 6: Configure General Settings on Clients

Configure Codecs: Users could go to the UCM client's Web UI → Account → Codec Settings to select the codecs. Users have to select at least one same codec as the codec for the SIP account configured on the UCM clients.

Preferred Vocoder: There should be at least one audio/video codec which is supported by both UCM client and IPVideoTalk server.

Note: We recommend enabling the option "Use First Matching Vocoder in 200OK SDP".



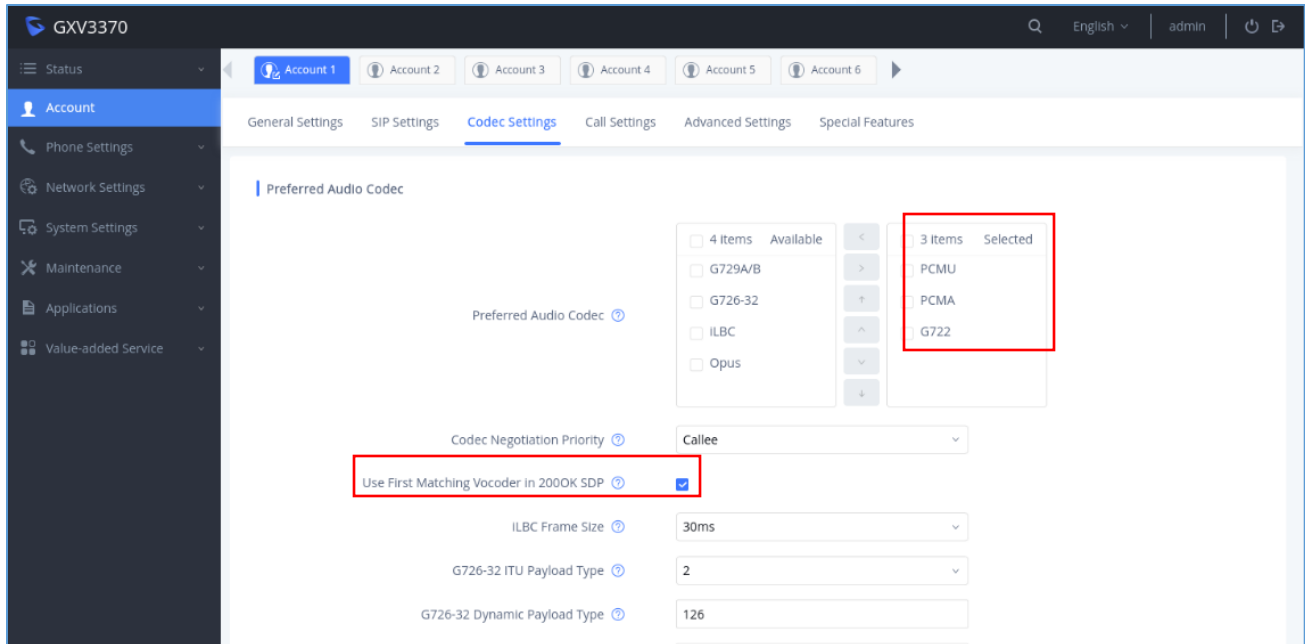


Figure 7: Configure Voice Codecs on Clients

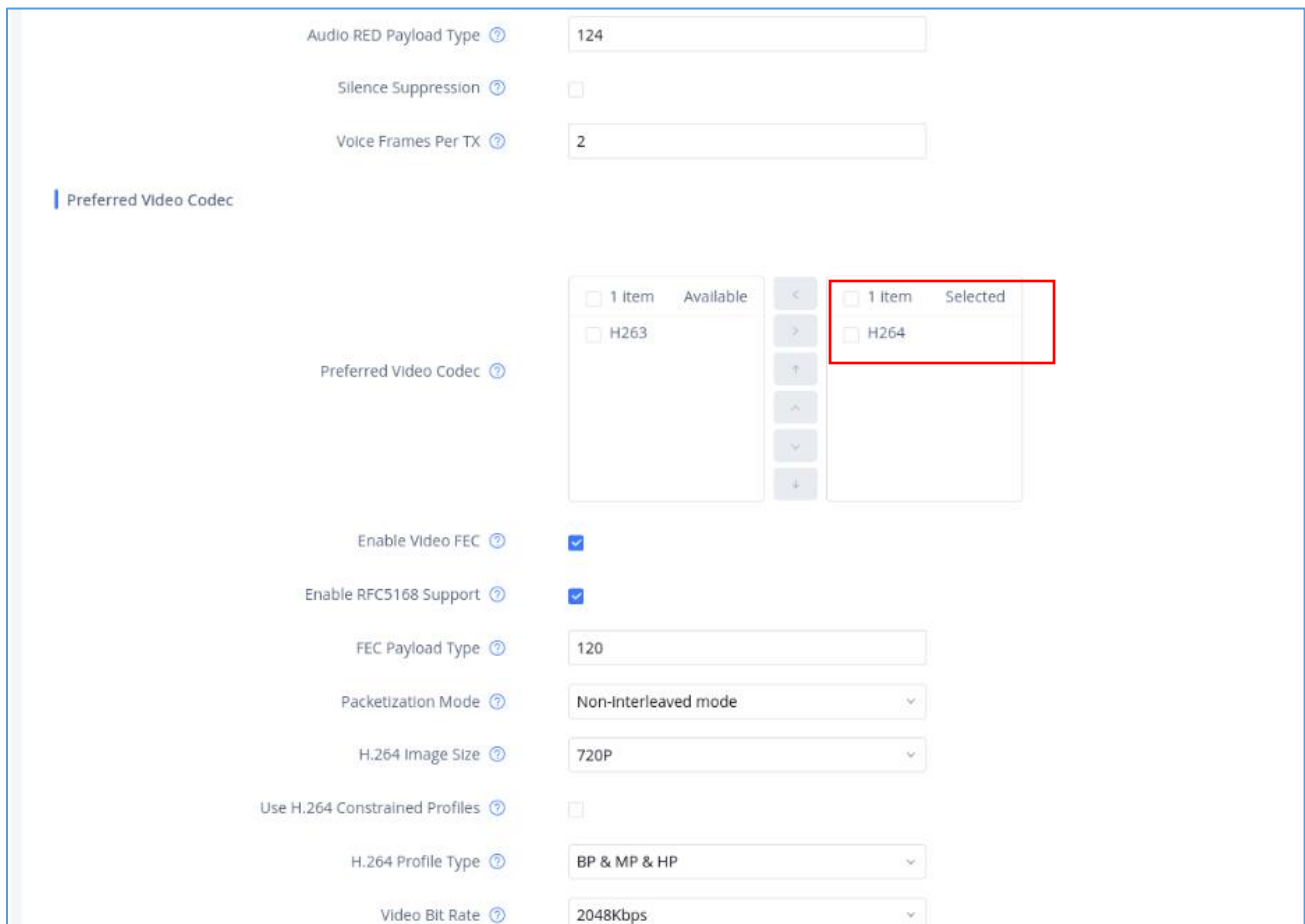


Figure 8: Configure Video codecs



DIAL INTO IPVIDEOTALK MEETINGS

We assume client A has a registered IPVideoTalk ID, and client B has a registered SIP extension in UCM (e.g. 1000), the Dial Prefix for SIP Trunk is “*99”.

Scenario

UCM extension joins into the IPVideoTalk meeting by dialing IPVideoTalk meeting ID via audio call.

Prerequisite:

Active meeting 404844

Operations:

Users could dial IPVideoTalk meeting ID 0986665 (*99404844) to join into the meeting on client B.

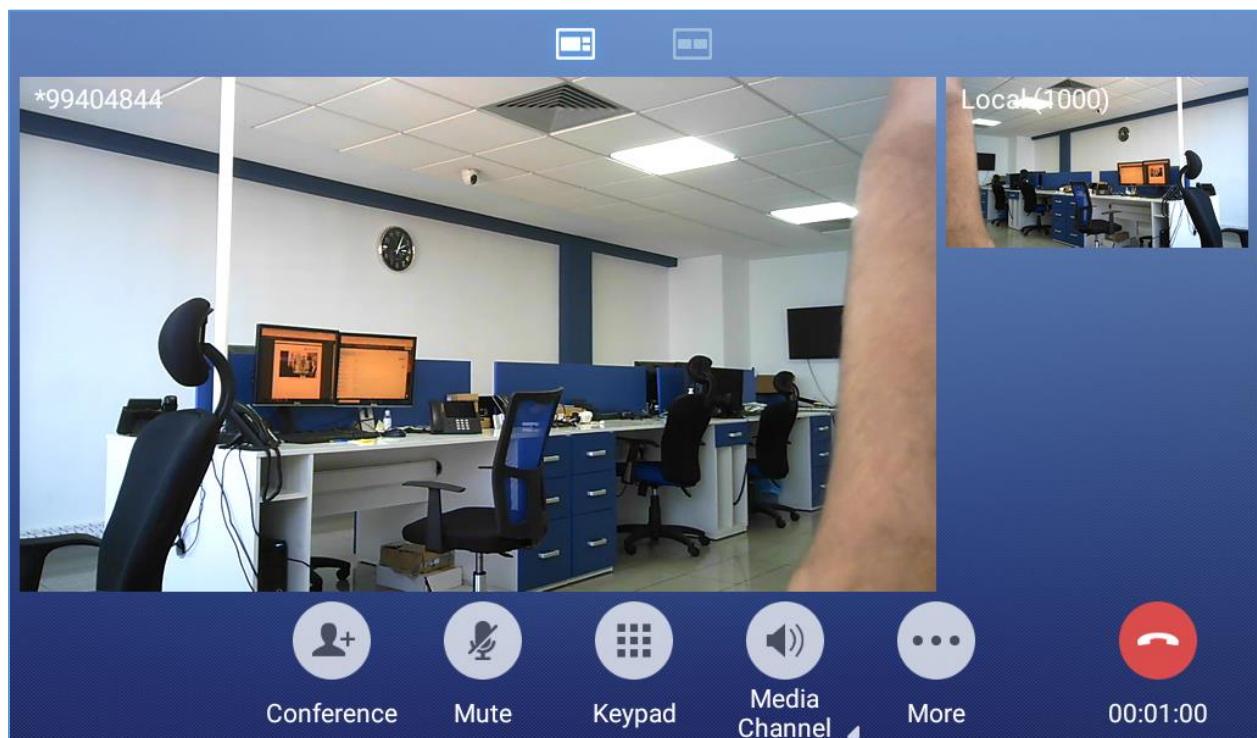


Figure 9: Meeting Call using IPVideoTalk Service with the UCM

