



VoIP SIP IP PBX

IP PBX with 4-FXO and SIP Proxy Server

UTG7204-ON User Manual



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1. Introduction

1.1. Overview



The UTG7204-ON is an embedded Voice over IP (VoIP) PBX Server with Session Initiation Protocol (SIP) to provide IP extension phone connections for global virtual office of small-to-medium business (SMB) companies. Equipped with 4 x FXO ports, Ethernet LAN and WAN ports plus Life Line features, UTG7204-ON integrates the telephony network and the data network into a manageable converged network to provide an efficient and economical PBX for global long distance voice communications.

UTG7204-ON IP PBX works with various IP phones (Desktop, WiFi, Bluetooth, and DECT), VoIP gateways, and analog telephone adapters (ATA) to route calls among client phones, analog phones, and PSTN network. Call features such as conferencing, auto attendant, and voicemail can be seamlessly enabled for all phone devices. In addition, it also provides Internet access to all LAN devices through VPN NAT router.

UTG7204-ON IP PBX provides call control and media relay services to SIP clients, and it performs many primary functions, such as SIP Registrar, SIP Outbound Proxy with Media relay, SIP Gateways (FXO), SIP PBX for extension calls, Auto Attendant Interactive Voice Response (IVR), and Find-Me Conferencing.

UTG7204-ON IP PBX has a built-in suite of PBX applications for supplemental services. This lowers down the total cost of a converged network enabled by UTG7204-ON IP PBX than building separated infrastructures for legacy telephony network and data network. In addition, with a web-browsable interface to the data network configuration and voice service provisioning, UTG7204-ON brings locally and remotely the manageability of both networks together to facilitate administration.

Note that UTG7204-ON requires an IP address, a subnet mask, and its gateway Router IP address for its own use to connect to Internet. These three are available from your Internet service provider. UTG7204-ON may enable PPPoE or DHCP features to automatically get an assigned dynamic IP from the ITSP. Please refer to Web Configurations for detailed information.

2. Features

The UTG7204-ON IP PBX equipped with RJ45 & RJ11 connectors is featuring as the following:

- SIP Server supports 50 user registrations and 20 concurrent calls
- SIP v1 (RFC2543), v2 (RFC3261) with MD5 authentication (RFC2069 and RFC 2617)
- RJ45 x 2 for Ethernet WAN and LAN ports + RJ11 x 4 for FXO ports + Life Line FXS port
- Supports ITU-T G.711a, G.711u, GSM/MS-GSM, G.729A/B, VAD and CNG for Speech Codec
- Configurations by Web Browser
- Embedded NAT/DHCP Server
- PPPoE/DHCP Client for Dynamic IP plus NAT, VPN, DNS, and DDNS Clients
- Support STUN server and DMZ functions for NAT Traversal
- Support VPN function
- Support Call features; Call Forward/Waiting/Transfer/Hold, and Voice Conference Room
- Support E.164 ENUM Dial Number via SIP server
- Incoming Call Pickup for Group users
- Incoming Call Ringing for Group users
- Number Bonding and Call restrictions.
- IP Broadcasting function
- Find Me function
- Extension Pickup for Attendant
- Bill Rate Table with Voice Mail
- Interactive Voice Recording (IVR) Settings by XML
- Programmable Prompt messages
- On-Line Subscriber Status
- Remote Firmware Upgraded by HTTP Web Interface
- Auto Provision Settings
- Out-Band DTMF (RFC 2833) / In-Band DTMF / Send DTMF SIP Info

3. Standard Compliance

The UTG7204-ON IP PBX supports for the following standards

- VoIP Protocols: IETF RFC3261 and RFC 2543 for SIP
SIP Authentication: IETF RFC2069 and RFC 2617 for MD5
Speech Codec: ITU-T G.711a, G.711u, GSM/MS-GSM, G.729A/B, VAD and CNG
Echo Cancellation: ITU-T G.165/168

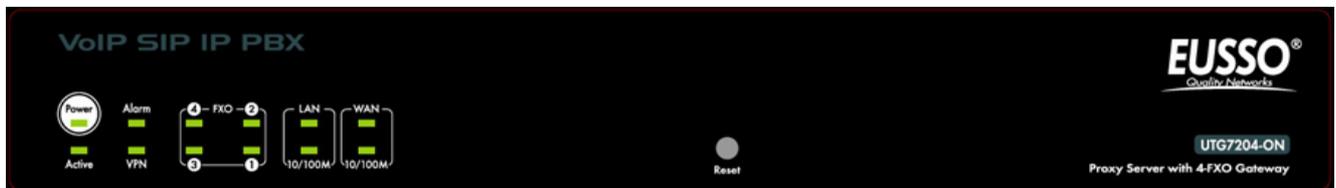
4. Packing Content

Inside the package you should find:

- (1) One UTG7204-ON IP PBX
- (2) One AC100~240V to 12VDC/1A Power Adaptor
- (3) One Cat 5 Ethernet Cable
- (4) One User Manual CD

5. LED Indicators & Interface Connectors

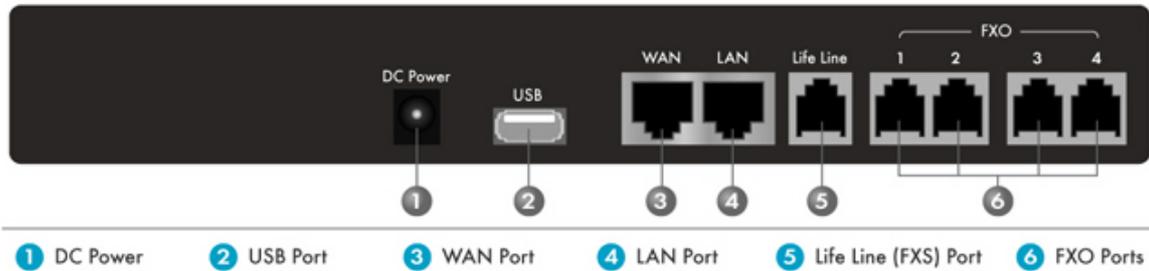
LED Indicators



On the front panel of UTG7204-ON, there are 12 LED indicators as the following table

LED	Status	Descriptions
POWER	ON	Power is Normal.
ACTIVE	ON	IP PBX is in Normal Operation
ALARM	ON	IP PBX is at alarm status
VPN	ON	Virtual Private Network function is ON
FXO 1	ON	PSTN Line 1 is enabled and IDLE
	Flashing	PSTN Line 1 is in use
FXO 2	ON	PSTN Line 2 is enabled and IDLE
	Flashing	PSTN Line 2 is in use
FXO 3	ON	PSTN Line 3 is enabled and IDLE
	Flashing	PSTN Line 3 is in use
FXO 4	ON	PSTN Line 4 is enabled and IDLE
	Flashing	PSTN Line 4 is in use
LAN	ON	LAN Port is in connection
	Flashing	LAN Ethernet data activity
10/100M	ON	LAN Ethernet port is in connection at 100Mbps
WAN	ON	WAN Port is in connection
	Flashing	WAN Ethernet data activity
10/100M	ON	WAN Ethernet port is in connection at 100Mbps

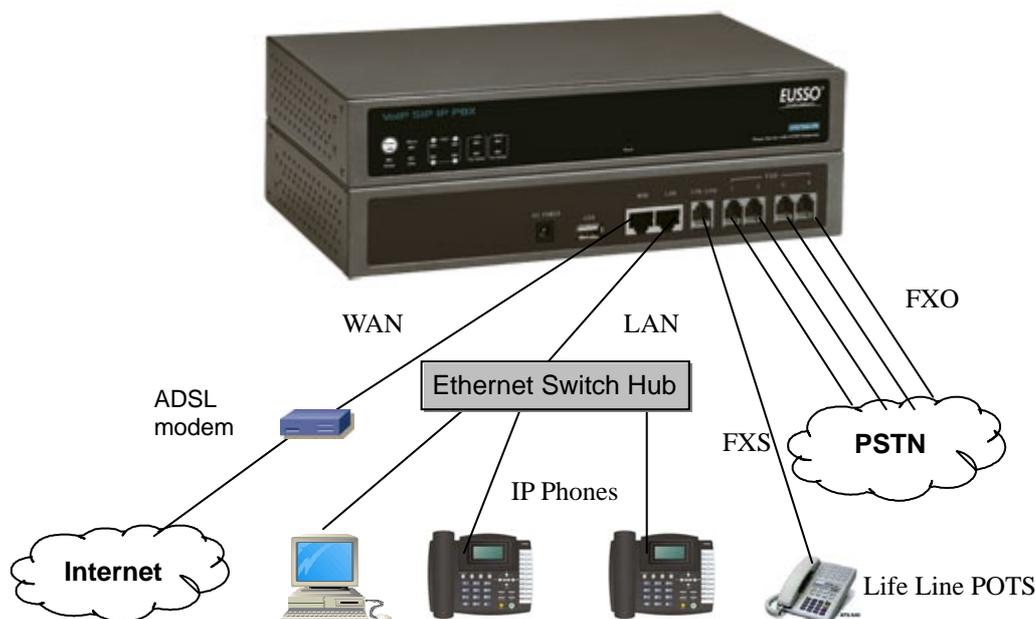
Interface Connectors



1. DC Power 12Volt DC / 1A Power Adaptor with 100~240V AC power input
2. FXO ports 4 FXO ports are for connection to PSTN lines, and numbered 1, 2, 3 and 4 from left to right.
3. Life Line port Life Line FXS port connects to an analog telephone. When power is down, the Life Line will switch to FXO port 1 for PSTN line 1.
4. WAN port Connect to a broadband ADSL/Cable modem or a WAN router.
5. LAN port Connection to PC for Web configurations or Laptop, IP Phones, or VoIP Gateways/ATA, etc.
6. USB port Connect to an external USB drive for backup internal system storage. Click the **Backup** icon in Web configurations and follow instructions to insert the USB connector of an external USB drive.

Note: If PC is directly connected to the LAN port of UTG7204-ON for web configurations, please use the enclosed Ethernet CAT5 Cable.

6. Installations



7. Reset to Factory Default

IP PBX UTG7204-ON can be reset back to factory default when IP address is not accessible for web configurations. The procedures are as follows:

1. Power off.
2. Press the RESET button and hold continuously, then power on.
3. Hold the RESET button until all the LED indicators start flashing for three times. It may take 15-20 seconds to reset, and the RESET button can then be released after flashing.
4. The LED indicators will begin flashing for 3 times again to activate the IP PBX. Note that the firmware version and IP settings will be reset back to factory defaults and users data base will be cleared.
5. It is suggested that the user data base be exported and backed up to PC before reset.

8. IP PBX Configurations by Web Browser

You may enter the IP address from PC Web browser to configure UTG7204-ON. For example, enter <http://192.168.1.1> from IE web browser to display login page as follows. Note that UTG7204-ON supports auto-MDIX function for LAN port. A beginning user of UTG7204-ON may click **Setup Wizard** to configure the IP PBX step by step for web configurations.

- 1). Please enter the default IP address <http://192.168.1.1> from PC Web browser. The following Web page shall be displayed on PC. If you have difficulties accessing the Web page from the PC Web browser, the subnet IP of PC might be different from 192.168.1.xxx. In this case, please refer to Chapter 9 for trouble shooting.

UTG7204-ON IP PBX	
User Name:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Login"/>	

- 2). Please enter the username and password into the blank field. The default settings are:
Username: **admin**
Password: **123456**
- 3). Click the **“Login”** button to enter the UTG7204-ON for web configurations. Whenever you change the setting in each Web page, remember to click the **“Submit”** button to save into the non-volatile memory and click the **“Reboot”** button to activate the new settings.

WAN & LAN Network IP Address and Mask

NIC	IP Address	Mask
WAN	192.168.139.3	255.255.255.0
LAN	192.168.1.1	255.255.255.0

- 4). UTG7204-ON provides 50 SIP user ID number accounts which can be configured by Web browser. The preset user ID numbers are from **2001~2010** with same password **123456**. The SIP service port is default at **5060**.

Home Network System Incoming Call Outgoing Call SwitchBoard Users Advanced Setting CDR Upgrade & Reboot Exit

- > Resource Status
- > Setup Wizard

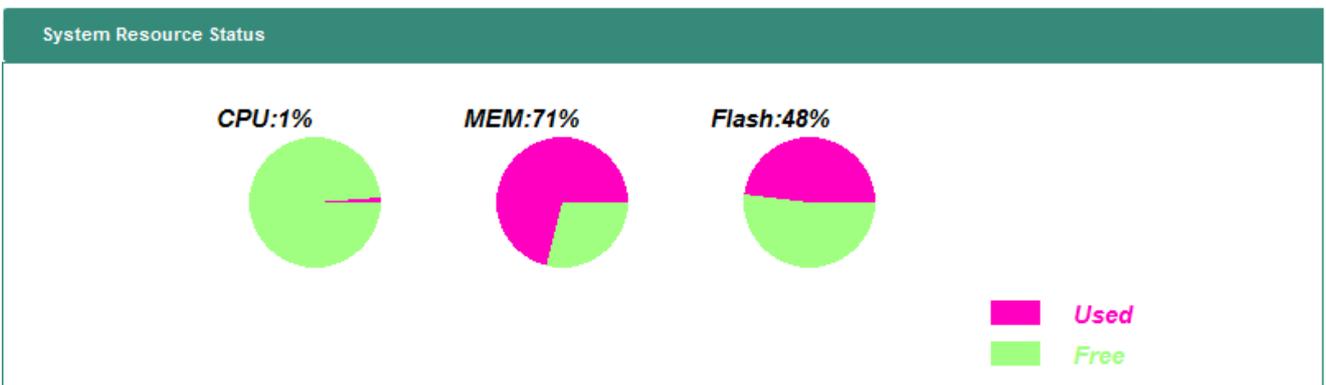
IP-PBX Server Status			
System Status	UP		
Sip Port	5060 5062(Encrypted)	RTP-Port	10000 20000
S/N	1000-0000-0001-1268	ENUM Number	886-
Total Users	10	Online Users	0
This Month CDR	6	This Day CDR	0

LAN Status	
MAC Address	8E:57:7B:A5:92:9B
IP Address	192.168.1.1
Subnet Mask	255.255.255.0

WAN Status	
MAC Address	9E:53:44:41:28:73
IP Address	192.168.139.3
Subnet Mask	255.255.255.0
Gateway	
DNS Servers	168.95.1.1

VPN Status	
VPN Client(OPENVPN)	DOWN
VPN Server(PPTP)	DOWN

Resource Status



Setup Wizard

Network Style	
Router Mode:	IP-PBX Used as a Router.
Non-Router Mode:	IP-PBX Used as a Non-Router.

Setup Wizard provides two fast setup modes, Router & Non-Router Modes, for sequential configurations;

(1) IP-PBX used as a Router (Router Mode)

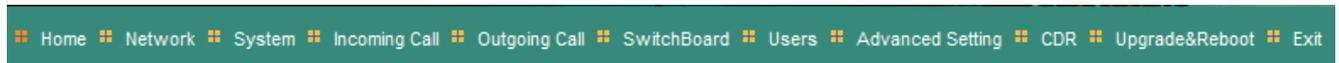
- LAN Setting
- WAN Interface Setting
- Dynamic DNS Setting
- Incoming Call from VoIP
- Add TrustHost
- Outgoing Call via VoIP
- Call from FXO
- Outgoing Call via FXO
- Finish and reboot

(2) IP-PBX used as a Non-Router (Non-Router Mode)

- WAN Interface Setting
- DMZ Mode
- Incoming Call from VoIP
- Add TrustHost
- Outgoing Call via VoIP
- Call from FXO
- Outgoing Call via FXO
- Finish and Reboot

8.1 Network

UTG7204-ON IP-PBX provides two RJ45 connectors for LAN and WAN ports at 10/100M Ethernet interfaces. The Network will display the current status for LAN, WAN, DHCP, DDNS, and VPN settings.



- > Status
- > LAN Settings
- > WAN Settings
- > DHCP Server
- > DDNS(Dynamic DNS)
- > VPN Settings

8.1.1 Network Status

Network Status shows all the IP addresses for LAN, WAN, VPN server and VPN clients.

LAN Status	
MAC Address	8E:57:7B:A5:92:9B
IP Address	192.168.1.1
Subnet Mask	255.255.255.0

WAN Status	
MAC Address	9E:53:44:41:28:73
IP Address	192.168.139.3
Subnet Mask	255.255.255.0
Gateway	
DNS Servers	168.95.1.1

VPN Server(PPTP)	
Server Status	DOWN
Local Address	192.168.0.1
Address Range	192.168.0.234-254
User Name	
Password	

VPN Client(OPENVPN)	
Client Status	Disable
Client Address	
Server Address	

8.1.2 LAN Settings

LAN Port can be used for IP-PBX to connect to a Notebook PC for configurations. The embedded DHCP Server will automatically assign IP address through the LAN port.

LAN Setting	
MAC Address	<input type="text" value="62:E4:35:6A:00:BB"/>
IP Address	<input type="text" value="192.168.1.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
System Tips	When LAN IP settings are changed, make sure the IP address pool and Statics IP address set in DHCP are within the same network segment. Remember to reboot system.

MAC Address should be unique in the same network, and IP Address must be in the format of xxx.xxx.xxx.xxx and xxx is from 0 to 255, e.g. 192.168.1.1. Subnet Mask is used for network segmentation. Please make sure the mask is correct and all the VoIP devices are within the same network as UTG7204-ON.

8.1.3 WAN Settings

WAN port is to connect to ADSL modem for Internet access. There are 3 options for WAN settings; DHCP, Static IP, and PPPoE. The following example shows a Static IP type for WAN Setting.

WAN Setting	
WAN Link Types	<input type="text" value="Static IP"/>
MAC Address	<input type="text" value="9E:53:44:41:28:73"/>
IP Address	<input type="text" value="192.168.139.3"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.62.1"/> (Optional)
First DNS Server	<input type="text" value="168.95.1.1"/> (Optional)
Second DNS Server	<input type="text"/> (Optional)

WAN Link Types

WAN Setting	
WAN Link Types	<input type="text" value="Static IP"/>
MAC Address	<input type="text" value="9E:53:44:41:28:73"/>
IP Address	<input type="text" value="192.168.139.3"/>

The image shows a dropdown menu for 'WAN Link Types' with options: Static IP, Dynamic IP, and PPPoE. 'Static IP' is selected.

Static IP mode

WAN Setting	
WAN Link Types	Static IP ▾
MAC Address	9E:53:44:41:28:73
IP Address	192.168.139.3
Subnet Mask	255.255.255.0
Gateway	192.168.62.1 (Optional)
First DNS Server	168.95.1.1 (Optional)
Second DNS Server	(Optional)
<input type="button" value="Submit"/>	

Dynamic IP Mode

WAN Setting	
WAN Link Types	Dynamic IP ▾
MAC Address	9E:53:44:41:28:73
<input type="checkbox"/>	Config DNS Servers
First DNS Server	168.95.1.1 (Optional)
Second DNS Server	(Optional)
<input type="button" value="Submit"/>	

PPPoE Mode

WAN Setting	
WAN Link Types	PPPOE ▾
Internet Account	8123456@hinet.net
Internet Password	●●●●●●
<input type="checkbox"/>	Config DNS Servers
First DNS Server	168.95.1.1 (Optional)
Second DNS Server	(Optional)
<input type="button" value="Submit"/>	

When UTG7204-ON IP-PBX connects to ADSL Modem with PPPOE link, you need to enter the account name and password for PPPOE. In addition, you may select the DNS server and enter the

IP address for the First and Second DNS servers.

8.1.4 DHCP Server

The embedded DHCP server in NAT will automatically assign IP address to the network devices.

DHCP Server Status: To show the current DHCP server status

DHCP Server Start/Stop: To enable/disable DHCP Server

Start/End IP Address: DHCP Server will assign an IP within the start/end IP address range, e.g. 192.168.1.100–192.168.1.200. Note that the start IP and end IP must be in the same 192.168.1.xxx network.

Subnet Mask: Usually 255.255.255.0 for subnet mask

Gateway: The IP address for NAT gateway, i.e the UTG7204-ON LAN IP 192.168.1.1.

DNS Server: The IP address of Domain Name Server.

DHCP Setting	
The embedded DHCP Server is used for the clients on LAN interface.	
DHCP Server Status	Disable
DHCP Service	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Start IP Address	<input type="text" value="192.168.1.2"/>
End IP Address	<input type="text" value="192.168.1.254"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.1.1"/>
First DNS Server	<input type="text"/> (Optional)
Second DNS Server	<input type="text"/> (Optional)

8.1.5 DDNS Settings

DDNS is an abbreviation for Dynamic Domain Name Service. In general, ISP will assign a dynamic IP address to IP PBX by ADSL PPPoE mode connection, and the dynamic IP address may change day by day. In other words, the IP-PBX can NOT be reached with a fixed IP address. In such a case, DDNS can be used for resolving the current IP address for PBX.

DDNS is used to associate domain name with dynamic IP address acquired from ISP, and it keep updating the current IP address of IP PBX with the associated domain name. Users would get the current PBX address from its domain name from DDNS server. For DDNS, you firstly need to register a user account onto, for example, www.3322.org or www.dyndns.com. The UTG7204-ON supports the DDNS settings for these two most popular free DDNS; **3322.org** and **dyndns.org**.

Dynamic DNS Setting	
Service Provider	dyndns
Host Name	
User Name	
Password	
DDNS Status	Disable
DDNS Service	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
<input type="button" value="Submit"/>	

Service Provider: Choose DDNS server that updates your IP address.

Host Name: Set your host name for DDNS update.

User Name: The user name registered in DDNS server. This name is given by DDNS server.

Password: The password registered in DDNS server. This password is given by DDNS server.

DDNS Status: Current Status of Disable/Enable.

DDNS Service: To Disable/Enabled DDNS service.

Example for www.3322.org

Dynamic DNS Setting	
Service Provider	cn99 Dynamic Domain
Host Name	test.3322.org
User Name	test
Password	●●●●
DDNS Status	Disable
DDNS Service	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<input type="button" value="Submit"/>	

Example for www.dyndns.com

Dynamic DNS Setting	
Service Provider	dyndns
Host Name	test.dyndns.org
User Name	test
Password	●●●●
DDNS Status	Disable
DDNS Service	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
<input type="button" value="Submit"/>	

DDNS Settings

It shows the current registration of **www.3322.org** or **www.dyndns.org** for dynamic DNS service.

8.1.6 VPN Settings

VPN Server Setting(PPTP)	
VPN Server Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
User Name	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Update"/>	

VPN Client Setting(OPENVPN)	
VPN Client Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Server Address	<input type="text"/>
Communication	TCP <input type="radio"/> UDP <input type="radio"/>
CA Certificate	<input type="text"/> <input style="float: right;" type="button" value="Browser..."/>
Client Certificate	<input type="text"/> <input style="float: right;" type="button" value="Browser..."/>
Client Key	<input type="text"/> <input style="float: right;" type="button" value="Browser..."/>
<input type="button" value="Update"/>	

VPN Server Configuration for PPTP (Point-to-Point Tunnel Protocol)

VPN Server Setting(PPTP)	
VPN Server Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
User Name	<input type="text" value="test"/>
Password	<input type="text" value="test"/>
<input type="button" value="Update"/>	

VPN Server: You may enable or disable VPN Server Service.

UserName: For remote user when connected to VPN server.

Password: For remote user when connected to VPN server.

Press **Update** to save the configurations, and press **Reboot** to activate the new configurations.

VPN Client Configuration for OPENVPN

OpenVPN is used when the IP-PBX register as a VPN client to a remote VPN server.

VPN Client Setting(OPENVPN)	
VPN Client Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Server Address	<input type="text" value="220.229.128.75:1194"/>
Communication	TCP <input checked="" type="radio"/> UDP <input type="radio"/>
CA Certificate	<input type="text"/> <input data-bbox="1187 1249 1286 1283" type="button" value="Browser..."/>
Client Certificate	<input type="text"/> <input data-bbox="1187 1305 1286 1339" type="button" value="Browser..."/>
Client Key	<input type="text"/> <input data-bbox="1187 1361 1286 1395" type="button" value="Browser..."/>
<input type="button" value="Update"/>	

VPN Client Service: You can enable or disable VPN Client Service.

Server Address: The IP address of remote VPN server with format of "address:port".

Communication: The protocol between clients and servers.

CA certificate: The CA certificate given by the VPN server.

Client certificate: The Client certificate given by the VPN server.

Client Key: The Client key given by the VPN server.

Press **Update** to save the configurations, and press **Reboot** to activate the new configurations.

8.2 System

The UTG7204-ON IP PBX System configurations can be set in this section. The settings include Server Ports Setting, Rate Setting, DMZ, TrustHost, Music on Hold, Hotlines, Admin Account, USB_Disk Setting, Voicemail Setting, and Time Zone.

Home Network System Incoming Call Outgoing Call SwitchBoard Users Advanced Setting CDR Upgrade & Reboot Exit

- > Server Ports Setting
- > Rate Setting
- > DMZ
- > TrustHost
- > Music on Hold
- > HotLines
- > Admin Account
- > USB-Disk Setting
- > Voicemail Setting
- > Time Zone

8.2.1 Server Ports Setting

The SIP port number is default at 5060 for VoIP Applications. Note that the SIP port number must be the same for all the IP-PBX and VoIP phones and TAs. The encrypted port can be used for VoIP encryption. The user may enable encryption, such as CBCOM, to registered into UTG7204-ON.

Server Ports Setting		
HTTP Port	<input type="text" value="80"/>	(1~65535 TCP)
Sip Port	<input type="text" value="5060"/>	(1~65535)
Encrypt Port	<input type="text" value="5062"/>	(1~65535)
RTP Ports Range	<input type="text" value="10000"/> - <input type="text" value="20000"/>	(1~65535)
<input type="button" value="Submit"/>		

HTTP Port : HTTP port number, default at 80.

SIP Port : Default at 5060 .

Encrypt Port : Support SIP packet encryption with VoIP Phones and ATA.

RTP Ports Range : RTP port for VoIP voice packets. Default at 10000~20000.

8.2.2 Rate Setting

Rate setting is used to calculate the charges for each call. The IP PBX will generate a call record for the charges. All the charges are based on this rate table.

Add Rate Item	
Rate Prefix	<input type="text"/>
Rate	<input type="text"/>
Time Units	<input type="text"/> (Unit:sec)
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

Rate Items List						
NO.	Prefix	Rate	Unit(sec)	Memo		Operation

The rate is based on the prefix to calculate the charges:

Example:

Prefix: 0

Rate: 15 (cent)

Time Unit : 60 (second)

This means when calling a number with 0 prefix (e.g., 01010086), the rate is 15 cents for every 60 seconds, and the duration less than 60 seconds will be charged the same as 60 seconds. In addition, the prefix is for the longer one. For example, if there are rates for prefixes 0 and 00, the call number with 00 prefix will be charged per the rate of 00 instead 0.

If there is no rate for the calling prefix, this implies the rate is 0.

8.2.3 DMZ

DMZ (DeMilitarized Zone) is used to send all the non-authorized incoming packets to the DMZ.

DMZ Mode Setting	
DMZ Mode	<input type="radio"/> ON <input checked="" type="radio"/> OFF
External IP Address	<input type="text" value="192.168.139.67"/>
LAN 1	<input type="text" value="192.168.138.0/255.255.255.0"/>
LAN 2	<input type="text" value="192.168.139.0/255.255.255.0"/>
LAN 3	<input type="text"/>
<input type="button" value="Submit"/>	

The DMZ must be set ON if the DMZ of firewall is activated.

DMZ Mode Setting	
DMZ Mode	<input checked="" type="radio"/> ON <input type="radio"/> OFF
External IP Address	<input type="text" value="60.248.1.32"/>
LAN 1	<input type="text" value="192.168.138.0/255.255.255.0"/>
LAN 2	<input type="text" value="192.168.139.0/255.255.255.0"/>
LAN 3	<input type="text"/>
<input type="button" value="Submit"/>	

Please follows the steps to configure the DMZ:

- (1) Click on DMZ
- (2) Set the DMZ IP or domain name URL
- (3) Enter the Network IP and Subnet Mask

Example: 192.168.1.0/255.255.255.0

The step (3) is optional.

8.2.4 Trust Host

The calls from Trusted Host will be accepted without authentication by IP PBX. This function can be useful for calls between two or more IP PBXs. If the port is set at 0, all the ports from this trusted address will not require authentications. The trusted address could be either IP address or domain name.

Add TrustHost				
Address	<input type="text"/>			
Port	<input type="text"/>			
Memo	<input type="text"/>			
<input type="button" value="Submit"/>				
TrustHost List				
NO.	Address	Port	Memo	Operation

The Trust Host address can be added or deleted, and need to be configured in case of the following conditions;

Add TrustHost	
Address	<input type="text"/>
Port	<input type="text"/>
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

TrustHost List				
NO.	Address	Port	Memo	Operation
1	192.168.62.3	0		
2	220.229.128.75	0		

- (1) Need to work with FXO ports,
- (2) Need to connect with UTG7204-ON,
- (3) Need to connect with another SIP Server.

In summary, the TrustHost address can be set whenever the authentication is not needed.

8.2.5 Music ON Hold

The IP PBX will play music when a call is on hold due to the following situations;

- (1) When the call is transferred to attendant and waiting for answer.
- (2) When the call is hold and waiting for answer.
- (3) When the call is transferred and waiting for answer.

You may choose one of the music files for MUSIC ON Hold.

Music on Hold Setting	
Add Music	<input type="text"/> <input type="button" value="Browser..."/>
<input type="button" value="Submit"/>	

Moh List				
NO.	FileName	FileSize	Status	Operation
1	fpm.raw	2217472	1	

Music ON Hold requires a unique file format, and any MP3 files must be converted to **.raw** format before upload to UTG7204-ON for use of Music ON Hold.

Music on Hold Setting	
Add Music	<input type="text" value="z:\test.raw"/> <input type="button" value="Browser..."/>
<input type="button" value="Submit"/>	

8.2.6 Hot Lines

Hot line function numbers can be entered into the list. Make sure each of the Hot line function number is unique, and not the same as any extension number or PSTN numbers.

The Hotline list displays the function number of the PBX, and it will activate the function service when pressing the corresponding function numbers.

HotLine List			
NO.	Description	HotLine	Operation
1	AA	112	
2	CID Reader	117	
3	Queue Settings Hotline	1600	
4	Operators Hotline	1601	
5	Exten Settings Hotline	1602	
6	My Own Voicemail	1603	
7	Voicemail	1604	
8	Record Prompt	1605	
9	Conference Room1	1650	
10	Conference Room2	1651	
11	Queue1	1701	
12	Queue2	1702	
13	Queue3	1703	
14	Queue4	1704	
15	IP BroadCast	1800	
16	Operators	9	

AA: Auto Attendant Voice Prompt Flow Chart

CID Reader: Voice Prompt for the Current IP Phone extension number

Queue Settings Hotline: For Q1-Q4 function settings

Operators Hotline: To assign or unassign extension number as the operator

Exten Settings Hotline: For setting Hotline extension number

My Own Voicemail: To enter Individual voicemail

Voicemail: To enter the whole voicemail system

Record Prompt: For recording voice prompt

Conference Room1: To enter Conference Room 1

Conference Room2: To enter Conference Room 2

Queue1: Enter Queue1 operators .

Queue2: Enter Queue2 operators .

Queue3: Enter Queue3 operators .

Queue4: Enter Queue4 operators .

IP BroadCast : To Broadcast on the IP Phone exten of Group 0.

Operators : The extension number of operator

Features :

- Standard: Standard SIP Protocol
- CBCOM: Encryption protocol for SIP and Voice RTP

Modify HotLine	
Description	Operators Hotline
Current HotLine	<input type="text" value="1601"/>
New HotLine	<input type="text"/>
<input type="button" value="Submit"/>	

Detailed Descriptions for Hotline Function Numbers

Hotline Numbers	Functions	Descriptions
*8	Call pickup	Press *8# to pickup calls within the same group
9	Operator	Press 9# to call Operator.
112	Auto Attendant (AA)	Press 112# to enter Auto Attendant IVR followed with the voice prompts.
700	Call Parking	Press Hold + Transfer + 700# to park the incoming call. You may hang up the phone afterward.
701	Call Parking	Pick up the phone and press 701# to take the waiting call.
1600	Queues Setting	<p>Any extension phone can join or leave for one of the Queues.</p> <p>Example: To join as a member of Queue 1 for extension 201</p> <p>Procedures: From 201 IP Phone, Dial 1600 -> 1701 -> 123456 (password of Queue1) -> 1 -> hang up.</p> <p>Example: To leave Queue 1 for extension 201</p> <p>Procedures: From 201 IP Phone, Dial 1600 -> 1701 -> 123456 (password of Queue1) -> 2 -> hang up.</p>
1601	Operators Setting	<p>Any extension phone can join or leave for the Operators.</p> <p>Example: To join as one of operators for extension 200</p> <p>Procedures: From 200 IP Phone, Dial 1601 -> 123456 (password of Operator) -> 1 -> hang up.</p> <p>Example: To quit as one of operators for extension 200</p> <p>Procedures: From 200 IP Phone, Dial 1601 -> 123456 (password of Operator) -> 2 -> hang up.</p>

1602	Extension functions	<p>Forward , Find me , Binding, and Password can be set up for each extension number.</p> <p>Example: To set extension 202 busy forward to 203</p> <p>Procedures: From 202 IP Phone, Dial 1602 -> 1 (set forward) -> 2 (busy forward)-> 203# -> 1 (submit) -> hang up.</p>
1603	Play Voicemail for Current Extension	<p>To play & to delete the voicemails for the current IP phone extension number.</p> <p>Example: To hear the first voice message and delete message afterward, and to hear the following voice message and delete afterward for extension 203.</p> <p>Procedures: From 203 IP Phone, Dial 1603 -> 1 -> 7 -> 6 -> 7 -> # to hang up.</p>
1604	Play Voicemail for Other Extension	<p>To play & to delete the voicemails for the other IP phone extension number.</p> <p>Example: To hear the voicemail of extension 203 from extension 200</p> <p>Procedures: From 200 IP Phone, Dial 1604 -> 203 -> 123456(password of extension 203) ->1 -> 7 -> 6 -> 7 -> # to hang up.</p>
1605	Record Prompt	The hotline function can help you to record IVR prompts to about AA, unavailable, DND, NoAnswer, Offline and Busy .
1650	Conference Room1	Hotline number of Conference Room1
1651	Conference Room2	Hotline number of Conference Room2
1701	Queue1	Hotline number of Queue1
1702	Queue2	Hotline number of Queue2
1703	Queue3	Hotline number of Queue3
1704	Queue4	Hotline number of Queue4
1800	IP Broadcasting	<p>To broadcast over the extension numbers of Group 0</p> <p>Example: Given that the IP Phones extensions 201, 202, and 203 are in the Group 0, one can pickup any IP Phone and dial 1800 for IP broadcasting, the extensions 201, 202 and 203 will hear the voice from the IP phone speaker.</p>

Hotline Applications

Example:

A customer calls into Operator and wants to talk to the IP extensions 203, but the 203 user are not near the phone.

Procedures for Operator:

- (1) Call Parking for the incoming call by pressing **Hold + Transfer + 700#**
- (2) IP Broadcasting the 203 user by pressing **1800**
- (3) The 203 user may pickup any IP phone and dial **701#** to take the waiting call

Example:

If the PBX prompts an incoming call with the prompt message "Press 1 for customer service, Press 2 for technical support, Press 0 for directory", then you may set as the following;

- (1) Call hold 1 for customer service and connect extension 1;
- (2) Call hold 2 for technical support and connect extension 2;
- (3) Modified the prompt voice messages.

1) Change 1701 hotline number to 1, and 1702 hotline number to 2.

System > Hotlines > Queue1 > Modify of Operation.

Modify HotLine	
Description	Queue1
Current HotLine	<input type="text" value="1701"/>
New HotLine	<input type="text" value="1"/>
<input type="button" value="Submit"/>	

Click Submit to finish.

System > Hotlines > Queue2 > Modify of Operation.

Modify HotLine	
Description	Queue2
Current HotLine	<input type="text" value="1702"/>
New HotLine	<input type="text" value="2"/>
<input type="button" value="Submit"/>	

Click Submit to finish.

2) Add to the Queues for an existing extension number (208).

Advanced Setting > Queue Setting > Agent Setting

Current Queue List						
NO.	Queue Extension	Queue Passwd	Strategy	Queue Length	Queue Desc.	Operation
1	1	123456	Roundrobin	10		
2	1702	123456	Roundrobin	10		

Agent Setting

Add User as Agent	
Queue Extension	1
User-ID	<input type="text" value="208"/>
Priority	5
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

Submit to add the number 208 for Queue1.

Current Queue Agents List					
NO.	Extension	Agent User-ID	Priority	Memo	Operation
1	1	208	5		

The number will be displayed in the Current Queue Agent List for Queue 1.

Add User as Agent	
Queue Extension	2
User-ID	<input type="text" value="203"/>
Priority	5
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

Submit to add the number 203 for Queue2.

Current Queue Agents List					
NO.	Extension	Agent User-ID	Priority	Memo	Operation
1	2	203	5		

The number will show in the Current Queue Agent List for Queue2 .

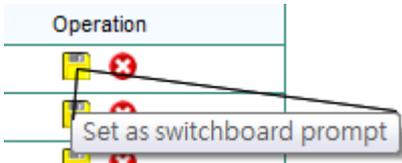
3) Add Voice prompts to Switchboard.

Add Prompt	
New Prompt	<input type="text" value="C:\work\welcome.gsm"/> <input type="button" value="Browser.."/>
<input type="button" value="Submit"/>	

Submit.

Prompts List				
NO.	FileName	FileSize(Bytes)	Status	Operation
1	welcome.gsm	23892	0	 
2	sippbx.gsm	10791	0	 
3	greeting.gsm	23892	1	 

It will display voice prompts in the List.



Press the ICON to Activate the Voice.

Prompts List				
NO.	FileName	FileSize(Bytes)	Status	Operation
1	welcome.gsm	23892	1	 
2	sippbx.gsm	10791	0	 
3	greeting.gsm	23892	0	 

The No. 1 of Status will show "1" to indicate activate status.

8.2.7 Admin Account

Modify Password	
Admin Name	admin
New Password	<input type="text"/>
Confirm Password	<input type="text"/>
<input type="button" value="Submit"/>	

8.2.8 USB-Disk Setting

USB Disk Service	
Tips	Make sure the USB is inserted before recording voice mail in USB disk, or the USB voice mail recording is disabled before removing the disk.
Operation&Status	Insert USB Disk ▼
Record voice-mail in USB Disk	Enable <input type="radio"/> Disable <input checked="" type="radio"/>
<input type="button" value="Submit"/>	

When you need to store the voice mails, please do the steps as follows;

USB Disk Service	
Tips	Make sure the USB is inserted before recording voice mail in USB disk, or the USB voice mail recording is disabled before removing the disk.
Operation&Status	Insert USB Disk ▾
Record voice-mail in USB Disk	Enable <input checked="" type="radio"/> Disable <input type="radio"/>
<input type="button" value="Submit"/>	

- (1) Insert USB disk
- (2) Select “Insert USB Disk” in the current status
- (3) Select “Enable” for USB voice mail recording.
- (4) Click Submit button.
- (5) Move to Upgrade&Reboot then press Reboot to restart .

When the voice mails is not needed, please do the steps as follows;

USB Disk Service	
Tips	Make sure the USB is inserted before recording voice mail in USB disk, or the USB voice mail recording is disabled before removing the disk.
Operation&Status	Remove USB Disk ▾
Record voice-mail in USB Disk	Enable <input type="radio"/> Disable <input checked="" type="radio"/>
<input type="button" value="Submit"/>	

- (1) Select “Remove USB Disk” in the current status
- (2) Select “Disable” for USB voice mail recording.
- (3) Click Submit button.
- (4) Pull out the USB disk.

8.2.9 Voicemail Setting

Voicemail is the voice messages of incoming calls. When the call is not answered, the UTG7204-ON will play the voice prompt and the caller may leave voice message. You can play the caller’s voice message in time. This setting must be compatible with the Voice-Mail Service of Users Function Setting .

Voicemail setting	
Mailbox	<input type="text"/>
User	<input type="text"/>
Password	<input type="text"/>
SMTP server	<input type="text"/> <input type="checkbox"/> Use SSL Mode

General settings :

Voicemail setting	
Mailbox	<input type="text" value="test@eusso.com"/>
User	<input type="text" value="test"/>
Password	<input type="text" value="test"/>
SMTP server	<input type="text" value="mail.eusso.com"/> <input type="checkbox"/> Use SSL Mode

MailBox: The e-mail address of mailbox.

User: The user name used by the e-mail address.

Password: The password used by the e-mail address.

SMTP Server: This is the e-mail address used by SMTP for e-mail server domain name.

Use SSL Mode: Check to use SSL mode. Do not check if General settings is used.

SSL for Gmail :

The UTG7204-ON supports voicemail via Gmail server by using SSL mode.

Voicemail setting	
Mailbox	<input type="text" value="test@gmail.com"/>
User	<input type="text" value="test"/>
Password	<input type="text" value="test"/>
SMTP server	<input type="text" value="smtp.gmail.com:465"/> <input checked="" type="checkbox"/> Use SSL Mode

MailBox: The sending account in Gmail. This must be registered in advance in Gmail.

User: The user name reistered in Gmail.

Password: The password registered in Gmail.

SMTP Server: Gmail uses port 465 for the SSL SMTP server.

Use SSL Mode: Check to activate the function.

Press **Submit** to save the configurations, and press **Reboot** to activate the new configurations

8.2.10 Time-Zone Setting

System date and time can be set in this section. The time will be recorded for use of CDR, or the CDR may record wrong timing if the system date and time are not set. The Network Time Service can be enabled to synchronize with NTP server. You still need to set the TimeZone, Date, and Time. It will display the synchronized NTP time when you re-enter this setting.

TimeZone Setting	
TimeZone	GMT+8:00 (Singapore, HongKong, Parth, Taipei) ▼
System Date	2007-10-22
System Time	17:18
Network Time Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
NTP Server 1	clock2.redhat.com
NTP Server 2	
<input type="button" value="Submit"/>	

Press **Submit** to save the configurations, and press **Reboot** to activate the new configurations.

8.3 Incoming Calls Setting

The IP PBX provides two ways of incoming calls; one is from local PSTN through the FXO ports, and the other is from the calls from ITSP. In some case, the ITSP may provide the real PSTN numbers for the IP PBX from the VoIP.

🔗 Home 🔗 Network 🔗 System 🔗 Incoming Call 🔗 Outgoing Call 🔗 SwitchBoard 🔗 Users 🔗 Advanced Setting 🔗 CDR 🔗 Upgrade & Reboot 🔗 Exit

[> Calls From FXO](#)

[> Calls From VoIP](#)

[> Access Number](#)

8.3.1 Calls from FXO ports

The IP PBX provides 4 FXO ports to allow PSTN incoming calls. For any PSTN incoming calls, you may configure to redirect to either switchboard, extension number, or conference room, etc.

Calls from FXO	
FXO 1(FXO1)Redirect to	start
FXO 2(FXO2)Redirect to	start
FXO 3(FXO3)Redirect to	start
FXO 4(FXO4)Redirect to	start

FXO 1(FXO1)Redirect to	start
FXO 2(FXO2)Redirect to	My Own Voicemail
FXO 3(FXO3)Redirect to	AA
FXO 4(FXO4)Redirect to	Operators
	Queue1
	Queue2
	Queue3
	Queue4
	Conference Room1
	Conference Room2
	Queue Settings Hotline
	Operators Hotline
	Exten Settings Hotline
	CID Reader
	Voicemail
	IP BroadCast
	Record Prompt

8.3.2 Calls from VoIP

The IP PBX can function as a terminal CPE to register into a SIP server or another IP PBX. For any external VoIP calls, for example, 1234 into this IP PBX, you may redirect to either Auto Attendant, Operator, Conference rooms, etc.

Add	
Registry Address	<input type="text"/> IP Address or DomainName:port
UserName	<input type="text"/> Username on Extern Sip Server
Password	<input type="text"/> User's Password on Extern Sip Server
Redirect to	<input type="text"/>
Features	Standard <input type="text"/>
Memo	<div style="border: 1px solid #ccc; height: 50px; width: 100%;"></div>
<input type="button" value="Submit"/>	

Registered Users List							
NO.	Address	UserName	Redirect to	Status	Features	Memo	Operation

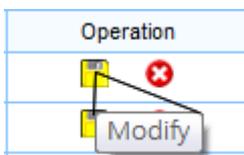
Add	
Registry Address	192.168.62.3:5060 IP Address or DomainName:port
UserName	1234 Username on Extern Sip Server
Password	test User's Password on Extern Sip Server
Redirect to	AA <input type="text"/>
Features	Standard <input type="text"/>
Memo	<div style="border: 1px solid #ccc; height: 50px; width: 100%;"></div>
<input type="button" value="Submit"/>	

- Registry Address : The SIP Registration Server IP/URL:Port number provided from ITSP, other IP PBX, or SIP Server.
- User Name : The user name provided from ITSP, other IP PBX, or SIP Server.
- Password : The password provided from ITSP, other IP PBX, or SIP Server.
- Redirect To: AA, Operators, Conference rooms, etc.

Redirect to	AA
Features	My Own Voicemail AA
Memo	Operators Queue1 Queue2 Queue3 Queue4 Conference Room1 Conference Room2 Queue Settings Hotline Operators Hotline Exten Settings Hotline CID Reader Voicemail IP Broadcast Record Prompt
Features	Standard Standard CBCOM

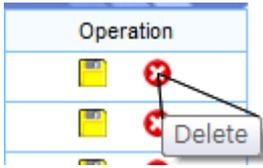
Registered Users List							
NO.	Address	UserName	Redirect to	Status	Features	Memo	Operation
1	192.168.62.3	4208	AA	Register Succ	Standard		 

The list will display registered users with status after submit.



You may also press the icon to modify the setting.

Add	
Registry Address	192.168.62.3:5060 <small>IP Address or DomainName:port</small>
UserName	1234 <small>Username on Extern Sip Server</small>
Password	test <small>User's Password on Extern Sip Server</small>
Redirect to	AA
Features	Standard
Memo	<div style="border: 1px solid #ccc; height: 60px;"></div>
<input type="button" value="Submit"/>	



You may press the icon to delete this setting.

8.3.3 Access Number

Access Number is used to supplement the function of incoming calls from VoIP SIP Server in the previous section. For some ITSP SIP Servers, one way voice connection may be missing due to protocol incompatibility. In this case, the Access Number can be set up to register into ITSP SIP Server and to redirect VoIP calls from ITSP into the IP PBX.

Example: When your registered 636346 in some SIP server with one-way voice being heard, you may resolve the problem by the following configurations;

(1) In Section 8.3.2 Calls from VoIP

Username: Enter 636346

Redirect to: Enter 636346

(2) In Section 8.3.2 Access Number

Access Number: Enter 636346

Redirect to: Enter AA, Operator, or any Holine function call.

Any VoIP calling at 636346 from ITSP will be redirected into the function calls of UTG7204-ON, such as Auto Attendant, Operators, or Hotlines.

Add Access Number				
Access Number	<input type="text"/>			
Redirect into	start ▼			
Memo	<input type="text"/>			
<input type="submit" value="Submit"/>				
Current Access Number List				
NO.	Access Number	Redirect into	Memo	Operation

Add Access Number	
Access Number	<input type="text" value="636346"/>
Redirect into	<input type="text" value="start"/>
Memo	<input type="text" value="FWD account"/>
<input type="button" value="Submit"/>	

Access Number : The registered number to ITSP or SIP server.

Redirect into : One of the hotline functional calls.

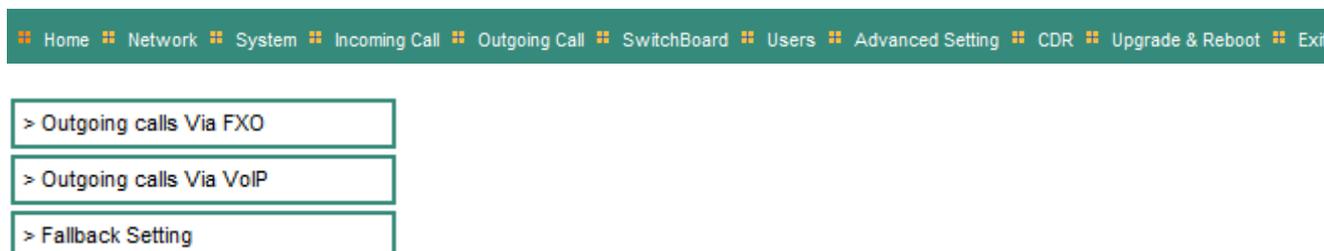
Memo : For memo descriptions.

Current Access Number List				
NO.	Access Number	Redirect into	Memo	Operation
1	636346	start	FWD account	

The Access Number will be displayed after pressing Submit button.

8.4 Outgoing Call

The IP PBX provides two kinds of outgoing calls; one is via FXO port to local PSTN lines, and the other is via VoIP calls. The settings are as follows:



8.4.1 Outgoing Calls via FXO ports

The IP PBX is equipped with 4 FXO ports for connection to local PSTN lines. All the extension number can then make outgoing call to local PSTN numbers. You need to assign the group number to each of the FXO port to activate the FXO outgoing PSTN line. If any FXO port is not assigned any group number, the outgoing call for this FXO port will be prohibited and only incoming calls can be accepted. For outgoing calls, you need to specify the group number for calling PSTN numbers, and the IP PBX will select one of the available FXO ports from the group to make an outgoing calls. This make the grouping become flexible in outgoing calls.

FXO Groups								
FXO Group NO.	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
FX01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FX02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FX03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FX04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="button" value="Submit"/>								

Having set the rules for local outgoing PSTN calls, the authority is used to restrict the call. For example, for authority ≥ 5 , only the user extension number with authority ≥ 5 can make an outgoing call through the FXO ports in this group.

The user extension prefix is used to indicate the group number for making an outgoing call. The delete digits is used to delete the group number with additional prefix before the dialing string. The external use is to allow the external user to use the same rule for redial out to local PSTN numbers, when calling into the IP PBX.

Current Outgoing Rules List Via FXO [\[Add Outgoing Rules via FXO\]](#)

Add Outgoing Rules via FXO	
Outgoing Desc.	<input type="text" value="PSTN"/>
Authority	<input type="text" value="≥ 0"/>
Group NO.	<input type="text" value="Group1"/>
Dial Prefix	<input type="text" value="0"/>
Dial Strip Bit	<input type="text" value="1"/>
Append Prefix	<input type="text"/>
Extern User Control	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<input type="button" value="Submit"/>	

Example:

When one user press 056789 to apply the outgoing rule, the IP PBX will use one of the FXO port in the group 0, delete 0 (one digit), then add the prefix blank. The final dialing string will be 56789 to the PSTN line.

8.4.2 Outgoing Calls via VoIP

The UTG7204-ON IP PBX can make a VoIP call to the user of another remote UTG7204-ON. The user of the remote IP PBX can be either extension number or its PSTN numbers.

There are two ways to connect to the remote IP PBX:

(1) The remote IP PBX provides an account name and password. The local IP PBX will make outgoing call authentication.

(2) The remote IP PBX configures local IP PBX as TrustHost address. All local calls to the remote IP PBX will be accepted without authentications.

For the first way, the number sent from local IP PBX are the users number provided by the remote IP PBX.

For the second way, the number sent from local IP PBX will be modified by the remote IP PBX per its rule. It will be much more convenient by this way to make calls between the two IP PBXs.

Current Outgoing Rules List via VOIP [Add Outgoing Rules via VOIP]											
NO.	Authority	IP Address	UserName	Password	User Prefix	User Strip Bit	Dial Prefix	Dial Strip Bit	Append Prefix	Features	Operation

Current Outgoing Rules List via VOIP [\[Add Outgoing Rules via VOIP\]](#)

Add Outgoing rules via VOIP	
Description	<input type="text" value="VOIP out"/>
Authority	<input type="text" value="≥ 0"/>
IP/Domain Address	<input type="text" value="192.168.62.3:5060"/>
UserName	<input type="text" value="1234"/>
Password	<input type="text" value="test"/>
Dial Prefix	<input type="text" value="9"/> <small>Prefix must be different from that of FXO/Hotlines</small>
Dial Strip Bit	<input type="text" value="1"/>
Append Prefix	<input type="text"/>
User Prefix	<input type="text"/>
User Strip Bit	<input type="text" value="0"/>
Feature	<input type="text" value="Standard"/>
Outside User Limit	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<input type="button" value="Submit"/>	

8.4.3 Fallback Settings

The fallback can be used to call out via different routing when the previous call fails. This reduces the calling failure rate and simplifies the dialing.

Fallback Setting	
No.	<input type="text"/>
Old Number	<input type="text"/>
New Number	<input type="text"/>
Match	<input checked="" type="radio"/> Yes <input type="radio"/> No
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

Fallback List					
No.	Old Number	New Number	Match	Memo	Operation

Fallback Setting	
No.	<input type="text" value="1"/>
Old Number	<input type="text" value="9"/>
New Number	<input type="text" value="0\${EXTEN:1}"/>
Match	<input checked="" type="radio"/> Yes <input type="radio"/> No
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

- **No:** Fallback Sequence Number.
If the old number matches more than one rule, the rule of fallback generated number with smaller sequence number will be dial first. If failed again, the rule of next sequence number will be dialed, and so on until call connects.
- **Old Number:** Old dialed number or prefix
Example: You dialed 123456 and failed, you may enter 123456 in the old number for the fallback function.. You may also enter, for example, 9 as prefix and enable match function, then every call with the prefix 9 may fallback to the new number.
- **New Number :** Fallback new number
Rule: `${EXTEN}` represents the dialing number string, `${EXTEN:1}` represents dialing number string with one prefix digit truncated, and `0${EXTEN:1}` will add prefix "0".
Example: If the fallback new number is 654321, you may enter 654321. When 123456 fails, the system will dial the new number 654321.

Example: You may also use the dial plan for fallback new number. If you want to dial 9123456 with fallback new number 0123456, then you may enter 0\${EXTEN:1}.

Given dialing number 9123456, \${EXTEN} represents 9123456, \${EXTEN:1} represents 123456, and 0\${EXTEN:1} represents 0123456.

- Match: Yes/No

Yes indicates that old number is a prefix and the rule of new number will be applied to generate new number for any prefix-matched number.

No indicates that old number is a number string, the rule of new number will be applied only when the whole number string is matched.

Fallback List					
No.	Old Number	New Number	Match	Memo	Operation
1	9	0\${EXTEN:1}	Yes		

It will display the fallback list after new configurations are submitted.

8.5 SwitchBoard (Auto Attendant Settings)

The IP PBX SwitchBoard provides an Auto Attendant to service user for calls. When receiving an incoming call, the auto attendant will play a welcome prompt message and transfer to another extension number. The settings include welcome prompt message, operator, and auto attend.

Home Network System Incoming Call Outgoing Call SwitchBoard Users Advanced Setting CDR Upgrade & Reboot Exit

> Prompt
> Operator
> Auto Attend

8.5.1 Prompt Message

You may choose the prompt message for the auto attendant to play while receiving incoming calls. You need to upload the messages to the prompt list for setting choices.

Add Prompt				
New Prompt		<input type="text"/>	Browser...	
Submit				
Prompts List				
NO.	FileName	FileSize(Bytes)	Status	Operation
1	sippbx.gsm	10791	1	 

Add Prompt	
New Prompt	<input type="text"/> Browser...
Submit	

8.5.2 Operator Setting

When a transfer call can not be transferred to the desired extension number, the call will be transferred to operator. The operator can be any extension or PSTN number with assigned priority, and the call will be forwarded by priority.

SwitchBoard Queue Setting	
Strategy	Roundrobin
<input type="button" value="Submit"/>	

Add Operator	
Operator Number	<input type="text"/>
Priority	3
Memo	<input type="text"/>
<input type="button" value="Submit"/>	

Operators List				
NO.	Operator's Number	Priority	Memo	Operation
1	2001	5	default	✘

8.5.3 Auto Attendant

Auto Attendant will handle all the incoming calls when no one can answer in the company.

There are two ways for attendant. The first one is Prompt with playing answering prompt messages, and the second one is Phone with direct transfer to the phone number.

- Prompt : An answering prompt message will be played to answer the incoming call. Make sure the answering message is uploaded and chosen. The IP PBX provides many options for time durations. If the time durations are not set, the handling incoming call will be always effective.
- Phone : All the incoming calls will be transferred to the preset phone number. The phone number can be either extension number or PSTN number.

Auto Attendant Setting	
Attend Way	<input checked="" type="radio"/> Prompt <input type="radio"/> Phone
Prompt File	sippbx
Description	<input type="text"/>
Time	<input type="checkbox"/> Enable 00:00 - 00:00
Week	<input type="checkbox"/> Enable Sunday - Sunday
Date	<input type="checkbox"/> Enable 01 - 01
Month	<input type="checkbox"/> Enable 01 - 01
<input type="button" value="Submit"/>	

Auto Attendant List								
NO.	Attend Way	Description	Name	Time	Week	Date	Month	Operation

- Attend Way : You can select the attend way is prompt or phone.
- Promot File : If you selected the prompt way . You can choose one prompt file to be use .

-
- Number : If you select the Number way . The extension number will answer the call.
 - Time/Week/Date/Month: The time of these time field set (Time & Week & Date & Month), the extension user will answer the call.

8.6 Users Management

This section describes the account opening, closing, and management. The extension number (also known as user name) must not exceed 32 digits. For easy management, it is recommended to assign different prefix number for different departments.

A user number should have the following;

- (1) **User name:** The user name is a string of number digits with length less or equal to 32. For easy management, it is recommended to assign different prefix for different departments.
- (2) **Password:** Every user name will have its own password with length less than or equal to 32 alpha-numeric digits. The CPE VoIP phone must use the same password for authentications.
- (3) **Call Authority:** from 0-15. This is used to restrict the call authority. The user authority must be equal or greater than the predefined authority to make the defined outgoing calls.
- (4) **User Group:** Each user name can belong to one or multi-groups. User can answer incoming calls for another user within the same group by pressing “*8”. There are 16 groups can be assigned.

Home Network System Incoming Call Outgoing Call SwitchBoard Users Advanced Setting CDR Upgrade & Reboot Exit

- > Add Single User
- > Add Group Users
- > Bindings
- > Delete User
- > Information Update
- > Function Setting
- > User List
- > Online User List

8.6.1 Add Single User – Single User Account Opening

You may add single user account in this section by entering user name, password, groups, and call authority. Remember the length should not exceed 32.

Add Single-User	
User ID(*)	<input type="text"/>
Real Name	<input type="text"/>
Department	<input type="text"/>
User's Group(*)	0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/>
Password(*)	<input type="text"/>
Confirmed Password(*)	<input type="text"/>
Authority	>= 0 <input type="button" value="v"/>
Email Address	<input type="text"/>
Memo	<input type="text"/>

Note: when the number of registered users reach the limit, the function of add user will not work.

8.6.2 Add Group Users – Group Users Account Opening

You may create group users accounts and assign group numbers with priority to all the accounts. You may also assign password to each account or generated by IP PBX. After settings, you may display all the created accounts.

Add Group Users	
Start User-ID(*)	<input type="text"/>
End User-ID(*)	<input type="text"/>
Random Password	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Password(*)	<input type="text"/>
Confirmed Password(*)	<input type="text"/>
User Group(*)	0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/>
Authority	>= 0 <input type="text"/>
Memo	<input type="text"/>

8.6.3 Bindings

Extension binding is used to bind many extension numbers together as a group. When calling to one of the extension, the other binding extension will ring as well. This is also referred to as Group Ringing.

- (1) User-ID: To enter extension number.
- (2) Bind-ID: To enter the binding ID. The extension number with same binding ID will belong to the same binding group.
- (3) The binding list will display the extension numbers.

Note that one extension number can belong to multi-binding groups.

Add			
	User-ID	<input type="text"/>	
	Bind-ID	<input type="text"/>	
<input type="button" value="Submit"/>			
Bind User List			
NO.	User-ID	Bind-ID	Operation

Add	
User-ID	<input type="text" value="2003"/>
Bind-ID	<input type="text" value="1"/>
<input type="button" value="Submit"/>	

Bind User List			
NO.	User-ID	Bind-ID	Operation
1	2002	1	✘
2	2001	1	✘

8.6.4 Delete User Account

There are two ways for user account deletion; one is for single account deletion, and the other is for group account deletions. For single account deletion, you need only to enter the extension number. For group account deletions, you need to enter a range of extension numbers. The IP PBX will delete all the user information for the extension within the range. Note that the information will not be recovered once deleted.

Delete User	
User-ID(*)	<input type="text"/>
<input type="button" value="Submit"/>	

Delete Users	
Start User-ID(*)	<input type="text"/>
End User-ID(*)	<input type="text"/>
<input type="button" value="Submit"/>	

8.6.5 User Information Update

In this section, you may modify password, name, department, authority and group.

User Query		
Inquiry	<input type="text" value="User-ID"/> ▼	Condition(Fuzzy Query) <input type="text"/>
		<input type="button" value="Submit"/>

User Query						
Inquiry		User-ID	Condition(Fuzzy Query)		2005	Submit
User-ID	Real Name	Department	Priority	Email Address	Memo	Operation
2005			10		Default	

- Inquiry : Choose one User-ID or User Name for search .
- Condition (Fuzzy Query) : Enter the number or user name for search.

Modify User Info	
User-ID	2005
Real Name	<input type="text"/>
Department	<input type="text"/>
User Group	0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/>
Old Password	123456
New Password	<input type="text"/>
Confirmed Password	<input type="text"/>
Authority	>= 10 <input type="button" value="v"/>
Email Address	<input type="text"/>
Memo	<input type="text" value="Default"/> <input type="button" value="v"/>
Submit	

This page will show the Modify User settings.

8.6.6 Function Setting

There are three functions provided as follows;

User Query			
Inquiry	User-ID	Condition(Fuzzy Query)	Submit

User Query						
Inquiry		User-ID	Condition(Fuzzy Query)		2005	Submit
User-ID	Real Name	Department	Priority	Email Address	Memo	Operation
2005			10		Default	

- Inquiry : Choose one User-ID or User Name for search .
- Condition(Fuzzy Query) : Enter the number or user name for search.

User-ID	Real Name	Department	Priority	Email Address	Memo
2005			10		Default

Function Setting															
<input type="checkbox"/> Forward	<input type="checkbox"/> Forward All <input type="text"/> <input type="checkbox"/> Busy Forward <input type="text"/> <input type="checkbox"/> No Answer Forward <input type="text"/> <input type="checkbox"/> Offline Forward <input type="text"/>														
<input type="checkbox"/> Find Me	<table border="1"> <thead> <tr> <th>Dest User-ID</th> <th>Expired(sec)</th> </tr> </thead> <tbody> <tr><td>(1) <input type="checkbox"/> <input type="text"/></td><td><input type="text"/></td></tr> <tr><td>(2) <input type="checkbox"/> <input type="text"/></td><td><input type="text"/></td></tr> <tr><td>(3) <input type="checkbox"/> <input type="text"/></td><td><input type="text"/></td></tr> <tr><td>(4) <input type="checkbox"/> <input type="text"/></td><td><input type="text"/></td></tr> <tr><td>(5) <input type="checkbox"/> <input type="text"/></td><td><input type="text"/></td></tr> <tr><td>(6) <input type="checkbox"/> <input type="text"/></td><td><input type="text"/></td></tr> </tbody> </table>	Dest User-ID	Expired(sec)	(1) <input type="checkbox"/> <input type="text"/>	<input type="text"/>	(2) <input type="checkbox"/> <input type="text"/>	<input type="text"/>	(3) <input type="checkbox"/> <input type="text"/>	<input type="text"/>	(4) <input type="checkbox"/> <input type="text"/>	<input type="text"/>	(5) <input type="checkbox"/> <input type="text"/>	<input type="text"/>	(6) <input type="checkbox"/> <input type="text"/>	<input type="text"/>
Dest User-ID	Expired(sec)														
(1) <input type="checkbox"/> <input type="text"/>	<input type="text"/>														
(2) <input type="checkbox"/> <input type="text"/>	<input type="text"/>														
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(5) <input type="checkbox"/> <input type="text"/>	<input type="text"/>														
(6) <input type="checkbox"/> <input type="text"/>	<input type="text"/>														
<input type="checkbox"/> Binding	<table border="1"> <thead> <tr> <th>Binding User-ID</th> </tr> </thead> <tbody> <tr><td>(1) <input type="checkbox"/> <input type="text"/></td></tr> <tr><td>(2) <input type="checkbox"/> <input type="text"/></td></tr> <tr><td>(3) <input type="checkbox"/> <input type="text"/></td></tr> </tbody> </table>	Binding User-ID	(1) <input type="checkbox"/> <input type="text"/>	(2) <input type="checkbox"/> <input type="text"/>	(3) <input type="checkbox"/> <input type="text"/>										
Binding User-ID															
(1) <input type="checkbox"/> <input type="text"/>															
(2) <input type="checkbox"/> <input type="text"/>															
(3) <input type="checkbox"/> <input type="text"/>															
Voice-Mail	Voice-Mail Service <input checked="" type="radio"/> Enable <input type="radio"/> Disable Approach <input type="text" value="Send msg to mailbox,not saved on server"/> <small>TIPS:If administrator doesn't enable USB-disk to save voice-mail,"save on server" will take no effect.</small> Email Address <input type="text"/>														

Submit

This page shows the Modify User's Function setting.

(1) Call Forward

- Unconditional Forward: Any incoming call to this extension will be forwarded directly to the set extension number.
- No-Response Forward: When no answer in one minute, the call will be transferred to the set extension number.
- Busy Forward: When busy, the new incoming calls will be transferred to the set extension number.
- Off-Line Forward: When the extension number is off-line (unregistered), all the incoming call will be transferred directly to the set extension number.

(2) Find Me

When one user is set for “Find Me”, the call will be transfer to the first extension number when no

answer for the incoming call. If no answer again, the call will be transferred to the next extension number until the call is answered. The maximum is 6 extensions numbers. After that, the call will be disconnected.

(3) Telephone Binding

The telephone binding is to bind the extension number with a PSTN number. For incoming call to the extension number, the PSTN phone number will ring simultaneously.

(4) Voice Mail

You may enable the voice mail for extension numbers.

Voice-Mail	Voice-Mail Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
	Approach	Send msg to mailbox,not saved on server ▼
	TIPS:if administrator doesn't enable USB-d	Send msg to mailbox,not saved on server
	Email Address	Send msg to mailbox,and saved on server

You may to choose one for Approach to store the Voice-mail method .

- 1) Send msg to mailbox, not saved on server : It will only send the message to the Email Address without saving a copy on the IP PBX.
- 2) Send msg to mailbox, and saved on server : It will send the message to Email address with a copy saved on the IP PBX.

Note :

- (1) Each user may select only one at a time out of the three functions.
- (2) You need to check on the icon to select the desired function.
- (3) The dialing number must follow the rules for outgoing calls.

8.6.7 User List

There are two kinds of list; one for all the users, and the other for the on-line registered users.

All Users List							
NO.	User-ID	Real Name	Password	Group NO.	Authority	Call Features	Operation
1	2001		123456	1	10	Binding	
2	2002		123456	1	10	Binding	
3	2003		123456	1	10	Normal	
4	2004		123456	1	10	Normal	
5	2005		123456	1	10	Normal	
6	2006		123456	1	10	Normal	
7	2007		123456	1	10	Normal	
8	2008		123456	1	10	Normal	
9	2009		123456	1	10	Normal	
10	2010		123456	1	10	Normal	

The list will show the current setting status for each user as follows;

- (1) Normal
- (2) Unconditional Transfer
- (3) Call Transfer; including busy, off-line, and no answer transfer.
- (4) Find Me
- (5) Telephone Binding

You may modify and update all the user settings directly from the entry of the list.

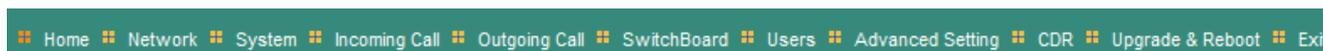
8.6.8 On-Line User List

The on-line users are for the current registered users.

Current OnLine List					
NO.	User-ID	Real Name	Department	UA Info	IP Address
1	201	201	201	UTG7100-IP	192.168.62.102
2	202	202	202	UTG7100-IP	192.168.62.182
3	203	203	203	UTG7100-IP	67.170.238.55
4	208	208	208	UTG7100-IP	192.168.62.146

8.7 Advanced Settings

The advanced Settings cover some call waiting, voice conference rooms, and IVR upload process.



- > Phone Auto Config
- > Queue Setting
- > Conference Rooms
- > Network Parameters
- > Update System Prompts
- > Busy Detect Settings
- > Advanced Settings

8.7.1 Phone Auto Config

The IP-PBX system can automatically configure the IP Phones by using HTTP protocol.

Add						
User-ID		<input type="text"/>				
Server Address		<input type="text"/>			<input type="text"/>	
Phone's Mac Address		<input type="text"/>				
<input type="button" value="Submit"/>						

Auto Config List						
NO.	MAC Address	Display Name	Real Name	User-ID	Password	Operation
<input type="button" value="Re-Config All"/>						

Firstly, you need to set up auto configuration for the IP Phone. The following is a reference example for IP Phone setting.

Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.

Auto Configuration: Off TFTP FTP HTTP

TFTP Server:

HTTP Server: Exp. 60.35.187.30

HTTP File Path: Exp. /download/

- Auto Configuration: Select the HTTP protocol.
- HTTP Server: IP address or URL of the IP-PBX.
- HTTP File Path: Configuration file path, it must be “/conf”.

Secondly, you need to configure for the IP PBX.

Add	
User-ID	<input type="text" value="2001"/>
Server Address	<input type="text" value="ippbx.sipsvr.com"/> : <input type="text" value="5060"/>
Phone's Mac Address	<input type="text" value="001122334455"/>
<input type="button" value="Submit"/>	

- User-ID : The extension number of the telephone.
- Server Address : The IP address or URL & port of the IP PBX.

- Phone's Mac Address : The Mac address of the IP Phone.

Auto Config List						
NO.	MAC Address	Display Name	Real Name	User-ID	Password	Operation
1	001122334455	2001	2001	2001	123456	

8.7.2 Queue Setting

Call waiting is to queue all the incoming calls and to assign based on rules to the desired extension numbers. If all the available extensions are busy, the system will play the waiting music for the queuing incoming calls. Once available, the system will connect to the desired extensions.

Current Queue List						
NO.	Queue Extension	Queue Passwd	Strategy	Queue Length	Queue Desc.	Operation
1	1701	123456	Roundrobin	10		
2	1702	123456	Roundrobin	10		
3	1703	123456	Roundrobin	10		
4	1704	123456	Roundrobin	10		

Queue Info Setting	
Queue Extension	1701
Queue Password	123456
New Password	<input type="text"/>
Confirmed Password	<input type="text"/>
Strategy	Roundrobin
Queue Length	10 <input type="text"/>
Queue Desc.	<input type="text"/>
<input type="button" value="Submit"/>	

Roundrobin

ring all

Roundrobin

leastrecent

fewestcalls

random

Add User as Agent						
Queue Extension	1701					
User-ID	<input type="text"/>					
Priority	5 ▾					
Memo	<input type="text"/>					
<input type="button" value="Submit"/>						
Current Queue Agents List						
NO.	Extension	Agent User-ID	Priority	Memo	Operation	

The IP PBX provides 4 call waiting queues. The waiting queues can be set to a simple calling center, and the user may define individual waiting queues for its own purpose.

The waiting queues can be configured by the IE Web browser to define the functions as follows;

- (1) Update new incoming calls;
- (2) Setting the password
- (3) Set the desired extension
- (4) Set the waiting time length
- (5) Add/Delete waiting number

Functions:

- 1) Update the call waiting list
- 2) Modify the call waiting information

The call waiting password will be required when the call is entering the waiting queue.

For each waiting call, the IP PBX may provide one of the following call assignment:

- (1) Round-Robin: for any incoming call, the call will be forwarded to the next extension number.
 - (2) Random: The incoming call will be randomly assigned to the extension numbers.
 - (3) The least-answer: the new incoming call will be transferred to the extension with the least answering.
 - (4) The longest idle: the new incoming call will be transferred to the extension with the longest idle time.
 - (5) All Ringing: the new incoming call will ring all the extension numbers. Anyone pick up the phone will answer the call. Waiting length means the maximum numbers for call waiting.
- 3) To Add/Delete the waiting list
The user may add/delete the call waiting queues.

8.7.3 Conference Rooms

The IP PBX provides two standard voice conference rooms. The details are as follow;

Current Conference Room List								
NO.	Conf. NO.	Conf. Passwd	Admin Passwd	Extension	Max. Number	Status	Memo.	Operation
1	001	123456	654321	1650	10	Idle		 
2	002	123456	654321	1651	10	Idle		 

(1) Conference Room Password

When a user calls to the conference room, he will be required to enter the password, or the call will be denied. It is recommended to set the password for the conference room.

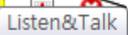
Please refer to the conference room setting for password.

(2) Maximum attendants of conference room

If set at 0, it has no limitation. Please refer to the conference room settings.

(3) Web Control of Conference Room

Current Attendance List					
NO.	Conf. NO.	Attendance User-ID	Attendance Name	Status	Operation
1	C001	208	208	Listen&Talk	  
2	C001	4208	4208	Listen&Talk	  

Current Attendance List					
NO.	Conf. NO.	Attendance User-ID	Attendance Name	Status	Operation
1	C001	208	208	Listen&Talk	  
2	C001	4208	4208	Listen&Talk	   

Current Attendance List					
NO.	Conf. NO.	Attendance User-ID	Attendance Name	Status	Operation
1	C001	208	208	Listen&Talk	  
2	C001	4208	4208	Listen&Talk	   

Current Attendance List					
NO.	Conf. NO.	Attendance User-ID	Attendance Name	Status	Operation
1	C001	208	208	Listen&Talk	  
2	C001	4208	4208	Listen&Talk	   

There are three icons for the three operation functions;

(1) The extension numbers are in conversation dialog status

-
- (2) The extension is in monitoring status.
 - (3) Kick out the extension number. The extension will be forced out in 5 minutes.)
 - (4) IVR Control of Conference Room

The user after entering the conference room may press * key for an IVR playback. The user may interact with the IVR messages.

General User Extension:

- 1) Make oneself mute. The user voice will not be heard in the conference room. To let one's voice heard in the conference, just repeat the same procedure as mute. Press * key for an IVR playback, then press 1 key to resume conference attending.
- 2) Make oneself manager. The user needs to enter the manager password. Please refer to conference room settings for the manager password.

Manager has the following functions:

- 1, Make oneself mute. The user voice will not be heard in the conference room.
- 2. Make the current conference room in lock, and any user trying to enter the conference room will hear the prompt message “**Conference Room is in Lock**”, and get disconnected. To unlock the conference room, simply repeat the same procedure in lock. That means to press * first, and then press 2 to unlock the current conference room.
- 3. To kick out all the general users. (Note that all managers will not be kicked out.)
- 4. To mute all the general users. All the general users in the conference room will not be able to speak but to listen only.
- 5. To disable mute all the general users. All the general users in the conference room will be able to speak and listen. (Note that if the user mutes oneself he needs to disable mute by himself to speak in the conference room. The manager can not disable mute for the user.)
- 6. Conference Invitation.

If you want to invite an outside user to join the conference room, you may follow the step by the IVR message operations. This outside user can be registered in the IP PBX or the PSTN number.

Note: Conference invitation is making an invitation only and do not acknowledge if invitation is successful or not. If not successful, the invitation will repeat after 60 seconds. If not successful after three times of conference invitation, the invitation will stop without any notice.

- (5) Support IVR Conference Invitation

You may make conference invitation by IVR. Please refer to the IVR conference room control.

- (6) Modify Voice conference room service number

You may change the conference room service number if the default number is not desired.

The conference room settings are as in the following page.

Conf. Room Setting	
Conf. NO.	C001
Conf. Passwd	<input type="text" value="123456"/> If not set,you can enter the conf. without any Passwd.
Admin Passwd	<input type="text" value="654321"/> If not set,you can not get the manage authority.
Max. Number	<input type="text" value="10"/> TIPS:NULL or 0, there is NO restriction on MAX. Number
Memo	<input type="text"/>

The conference room password is used to enter the conference room. The maximum capacity is for the maximum number of users in the room.

8.7.4 Network Parameters

The network parameters allow to enable/disable IP network functions.

Service Priority Setting	
Service Type	<input type="radio"/> TOS <input type="radio"/> DSCP

VLAN Setting	
VLAN Service	<input type="radio"/> Disable <input type="radio"/> Enable

Support Voice Priority Tag (TOS/DSCP)

TOS (Type of Service) and DSCP (Differentiated Services Code Point) are used to set different priority to data packet and data flow, thus enabling QoS in IP communication.

TOS has four values; they are minimum delay (TOS_LOWDELAY), max throughput (TOS_THROUGHPUT), max reliability (TOS_RELIABILITY) and minimum cost (TOS_MINCOST). TOS can be one of them in practice.

Service Priority Setting	
Service Type	<input checked="" type="radio"/> TOS <input type="radio"/> DSCP
TOS	<input type="text" value="TOS_LOWDELAY"/> <ul style="list-style-type: none"> TOS_LOWDELAY TOS_THROUGHPUT TOS_RELIABILITY TOS_MINCOST

VLAN Setting	
--------------	--

DSCP field is a superset of TOS, its definition is backward-compatible with TOS, and its value can be from 0 to 63, with 0 for minimum priority, 63 for max priority.

Service Priority Setting	
Service Type	<input type="radio"/> TOS <input checked="" type="radio"/> DSCP
DSCP	<input type="text"/>
<input type="button" value="Submit"/>	

Support Tag-based VLAN 802.1P/802.1Q.

VLAN 802.1P/802.1Q are for local area network standard recommended by IEEE, which can partition network users from different physical locations into several logical subnets. The UTG7204-ON IP-PBX supports this standard, and can add special VLAN Tag to data frames passing through.

VLAN Setting	
VLAN Service	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
VLAN ID:	<input type="text"/>
<input type="button" value="Submit"/>	

8.7.5 Update System Prompts

Currently, the system prompt is provided in English version. For non-English version, please contact your supplier or more details.

Update System Prompts	
Select file	<input type="text"/> <input type="button" value="Browse.."/>
<input type="button" value="Submit"/>	

8.7.6 Busy Detection Settings

The Busy Tone of Public Switched Telephone Network (PSTN) are different from region to region, and it may cause line hanging at the FXO port. This is because that the FXO port can not recognize and detect the local busy tone, and the IP PBX will thus remain Off-Hook. In this case, you need to adjust the settings for Busy Detect.

Busy Detection Settings	
Silence Threshold	<input type="text" value="512"/>
Tolerances Percentage	<input type="text" value="10"/> (0~80)
Busy Min	<input type="text" value="75"/> (ms)
Busy Max	<input type="text" value="1100"/> (ms)
<input type="button" value="Submit"/>	

- FXO Volume: Voice transmit gain and receive gain of the FXO port.
- Silence Threshold: Signal under this threshold will be regarded as silence.
- Tolerances Percentage: Number of percentage for the silence threshold.
- Busy Min: The minimum number for busy detection at unit of ms.
- Busy Max: The maximum number for busy detection at unit of ms.

8.7.7 Advance Settings (Caller ID Settings)

Reinvite is a unique function, and you may enable the function if the SIP server of your ISP supports such a function. You may select “yes” if the IP-PBX is used alone. The default is enabled. This allow to configure the caller ID fuctions and to show the incoming call numbers.

Advanced Settings	
Can Reinvite	<input checked="" type="radio"/> YES <input type="radio"/> NO
Caller ID of FXO Port	<input type="text" value="Caller ID after 1st Ring (FSK)"/> <div style="border: 1px solid black; padding: 2px;"> <input type="text" value="Don't show caller ID"/> <input type="text" value="Caller ID after 1st Ring (FSK)"/> <input type="text" value="Caller ID before 1st Ring (DTMF)"/> </div>

Default is “Caller ID after 1st Ring (FSK)”.

8.8 Call Detail Records Query

The IP PBX keeps call records for 2 months. You may have two ways for record queries. One is to query for the whole IP PBX, and the other is for the specific user. If you want to keep the call records, you may copy to USB disk before erased.

Home Network System Incoming Call Outgoing Call SwitchBoard Users Advanced Setting CDR Upgrade & Reboot Exit

- > System Call Records
- > User Call Records
- > CDR Export

8.8.1 System Call Records

You may query all the calls during the specified time frame and export to local storages.

System CDR Query

Query Type	<input checked="" type="radio"/> By Month <input type="radio"/> By Time-slice
Month	2007 Year 10 Month
<input type="button" value="Submit"/>	

By Month

System CDR Query

Query Type	<input checked="" type="radio"/> By Month <input type="radio"/> By Time-slice
Month	2007 Year 11 Month
<input type="button" value="Submit"/>	

NO.	Callee-ID	Caller-ID	Start Time	Total Time	Cost
1	260	208	2007-11-01 09:00:39	33	0
2	208	260	2007-11-01 09:20:56	64	0
3	208	260	2007-11-01 09:18:27	224	0
4	1601	209	2007-11-01 09:25:08	81	0
5	901	260	2007-11-01 09:42:01	5	0
6	208	260	2007-11-01 09:46:28	3	0
7	201	260	2007-11-01 09:47:15	5	0
8	202	260	2007-11-01 09:47:29	5	0
9	1213	201	2007-11-01 09:47:14	116	0
10	201	260	2007-11-01 09:49:32	42	0
11	1266	201	2007-11-01 10:08:51	59	0
12	202	1213	2007-11-01 09:40:52	2286	0
13	201	260	2007-11-01 10:26:35	174	0
14	201	260	2007-11-01 10:30:43	13	0
15	201	260	2007-11-01 10:32:12	25	0

Total 436 Record(s) First|Previous|Next|Last Current/Total 1/15

By Time

System CDR Query					
Query Type		<input type="radio"/> By Month <input checked="" type="radio"/> By Time-slice			
Start-End Time		2007 Year 11 Month 07 Day-- 2007 Year 11 Month 07 Day			
<input type="button" value="Submit"/>					
NO.	Callee-ID	Caller-ID	Start Time	Total Time	Cost
1	1266	900	2007-10-02 09:26:59	94	0
2	1311	900	2007-10-02 09:30:26	3	0
3	1601	202	2007-10-02 09:28:29	345	0
Total124 Record(s) First Previous Next Last Current/Total1/5					

8.8.2 User Call Records

You may query all the calls for certain user during the specified time frame and export to local storages.

User CDR Query					
User-ID		<input type="text"/>			
Start-End Time		2007 Year 10 Month 22 Day-- 2007 Year 10 Month 22 Day			
CDR Types		All Records			
<input type="button" value="Submit"/>					

CDR Types	<input type="text" value="All Records"/> <ul style="list-style-type: none"> All Records Caller Records Callee Records
-----------	--

Example :

User CDR Query					
User-ID		<input type="text" value="2002"/>			
Start-End Time		2007 Year 11 Month 07 Day-- 2007 Year 11 Month 07 Day			
CDR Types		All Records			
<input type="button" value="Submit"/>					
NO.	Callee-ID	Caller-ID	Start Time	Total Time	Cost
1	202	2002	2007-11-01 11:48:31	19	0
2	209	2002	2007-11-01 16:43:22	562	0
3	208	2002	2007-11-02 13:30:27	158	0
Total3 Record(s) First Previous Next Last Current/Total1/1					

8.9 Upgrade & Reboot

Home Network System Incoming Call Outgoing Call SwitchBoard Users Advanced Setting CDR Upgrade & Reboot Exit

> Export & Import

> System Upgrade

> Reboot

8.9.1 Export & Import

Before upgrading the UTG7204-ON IP-PBX or reset to factory defaults, you may export all the user information to local PC storage and import back after the upgrade or default settings are done.

Information Import	
Import	<input type="text"/> <input type="button" value="Browser..."/>
<input type="button" value="Update"/>	

Information Export	
Export	DOWNLOAD

Export: Click on "DOWNLOAD" button and select "Save as New File".

Information Export	
Export	DOWNLOAD

Import: Select the desired file, and upload.

Information Import	
Import	<input type="text" value="c:\work\db.tar"/> <input type="button" value="Browser..."/>
<input type="button" value="Update"/>	

8.9.2 System Upgrade

The UTG7204-ON supports two different ways for system upgrade; Web GUI Upgrade and SIP Server Upgrade. Before upgrading, please follows the steps:

- (1) Get the desired upgrade version.
- (2) Backup a copy of user information by import/export data files.
- (3) The power must be on while upgrading.

Then you may upgrade per the web instruction procedures.

Web GUI Upgrade	
Version	070913
Select File	<input type="text"/> <input type="button" value="Browser..."/>
<input type="button" value="Submit"/>	

SIP Server Upgrade	
Version	070913
Select File	<input type="text"/> <input type="button" value="Browser..."/>
<input type="button" value="Submit"/>	

8.9.3 Reboot

Reboot
System will Reboot to enable changes, do you want to continue?
<input type="button" value="Reboot"/>

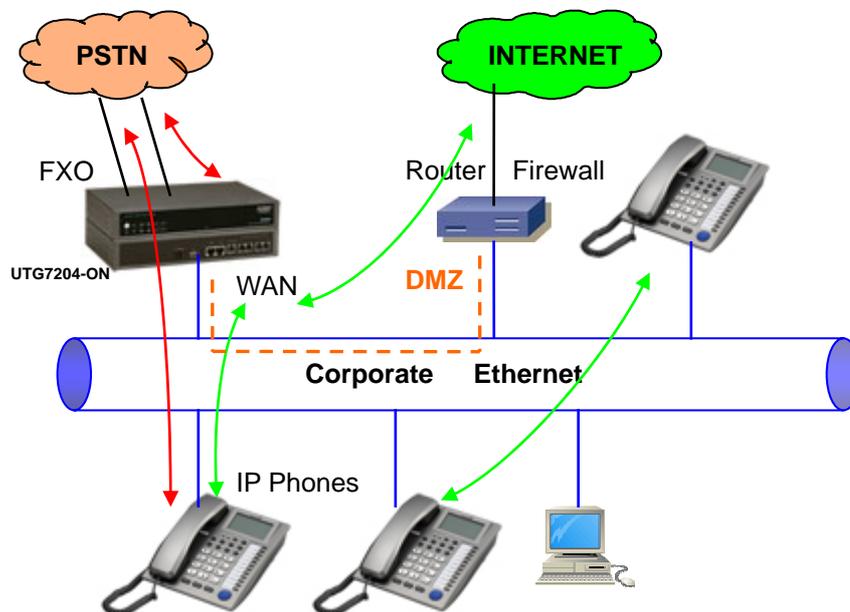
Reboot is used to enable the changes. Note that for Factory Default Setting, please refer to the chapter. 7 Reset to Factory Default.

9. Applications

Applications of IP PBX under Firewall with DMZ

This will protect corporate network security while allowing UTG7204-ON to work as **IP-PBX** for VoIP applications. When UTG7204-ON **IP-PBX** is operating under the corporate firewall, remember to enable and open the following service port numbers for VoIP applications.

- TCP Port : 80, 1723 for Http, and PPTP.
- UDP Port : 5060, 1194, 10000-20000 for SIP, OPENVPN, and Voice RTP Range.



Applications of IP PBX with ADSL

This UTG7204-ON supports PPPOE to work with ADSL and to integrate **IP-PBX** into the corporate network for VoIP applications.

