

TT11 VoIP Router 2FXS TA

User Guide

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1.0 INTRODUCTION

Voice over IP is a technology that allows anyone to make a telephone call over the Internet. This is a quick user guide for the TT11 VoIP Router 2FXS Telephone Adaptor. It is intended to help you configure this device and have it ready to run within a few minutes. Please follow the user guide carefully as troubleshooting the TA can be very difficult and time consuming.

Before Installation

This product can be set up using a web browser, such as Internet Explorer.

If you purchased this product to make a VoIP call, you must have either an Ethernet-based Cable or a DSL modem with an active connection to the Internet.

2.0 PACKAGE CONTENT

The following materials are included in the package. Please check the package to ensure that all the materials are listed below. Contact TraiTel immediately if an item is missing.



TT11 VoIP Router TA



Ethernet cable



Phone cable

A DEL 100	uter TA	
Quick Us	ser Guide	
fore You Begin		
or produced the product to make all the sea DRL maders with an active con-	the set of the set of the set of the	
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ter are the items included with your Ve	Proster TA package	
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Quick Installation Guide



Power Adapter (12V DC)

3.0 SUMMARY OF LED & CONNECTOR DESCRIPTION

3.1 The Front LEDs

Item	Name	Colour	Status	Description
	Devices	Creation	On	System Power on
1	Power	Green	Off	System Power off
			On	System crash
2	Run	Green	Off	System crash
			Flash	System running
2		Crean	On	SIP Registration Ok
3	SIP Reg	Green	Off	SIP Registration Fail
			On	FXS Channel is in use
4	4 FXS Green	Off	FXS Channel is not in use	
			Flash	FXS Channel is ringing
			On	FXS Channel is in use
5	FXS	Green	Off	FXS Channel is not in use
		Flash	FXS Channel is ringing	
			On	LAN port is connected
6	LAN	Green	Off	LAN port is not connected
			Flash	Packet transmit in LAN port
			On	WAN port is connected
7	WAN	Green	Off	WAN port is not connected
			Flash	Packet transmit in WAN port



3.2 The Rear Ports

Reset Button Mode*		
	Situation A	Situation B
Mode	Press and hold for less than 3	Press and hold for more than 3
	seconds	seconds
Result	Reboot the system	Restore to default setting



4.0 INSTALLATION

Connecting the TT11 VoIP Router 2FXS TA to Your Network

- A. Connect the power adapter to this jack. The power LED will light to indicate proper operation.
- **B.** Connect an Ethernet cable to the WAN port when connecting to the Internet access device such as a Cable or DSL modem. The WAN LED will indicate the proper connection.
- **C.** Connect an Ethernet cable to the LAN port when connecting to a PC or an office/home network. The LAN LED will indicate the proper connection.
- **D.** Connect the phone cable to an available FXS port when connecting an analogue telephone.
- E. Connect the phone cable to an available FXS port when connecting an analogue telephone.

When you have connected all the cables to the VoIP TA, it will look similar to this:



5.0 USING THE CONFIGURATION MENU

The configuration menu of TT11 VoIP Router 2FXS TA can be accessed using a convenient and user-friendly web browser.

If you have an account with TraiTel, please log in at <u>www.traitel.com.au</u>, select "Voice" then "Configure SIP device". If you have multiple SIP devices, you **must** create a unique subaccount for each device. Sub-accounts can be created by going to "Settings" then "Sub-Accounts".

Once you have logged in to your TraiTel account, please continue here.

5.1 Accessing Configuration Menu

- Open the web browser (i.e. Internet Explorer, Netscape...)
- Enter the **IP Address** of the router, which by default is 192.168.15.1 followed by :9999
- The default username and password are "admin" and "admin".
- Click OK

File Edit View Favorites Tools Help 🕤 · 🖪 😭 🏠 P Search G Back Address 🙆 http://192.168.15.1:9999 Enter Network Password This secure Web Site (at 192 168.15.1) requires you to log on. Please type the User Name and Password that you use for VolP router TA. User Name admin -Password Reserved $\overline{\ }$ Save this password in your password list OK Cancel

5.2 Main Menu

				Model TT
ny Salatina for a Suchter Pa	daw .			
m		Status		
urk	Device Information			
	System Up-Time	O Hour 10 Min		
ced	System Current Time	Tue May 11 12:18:01 2010		
	Build Time	Mon Sep 1 17:12:36 2008		
	Firmware Version	01.00.00 (Sep 1 2008)		
	WAN MAC Address	00:D0:E9:01:EF:48		
	LAN MAC Address	00:D0:E9:01:EF:4C		
	Register Status			
		SIP Register Status		
		IAX Register Status		
	Line Status :	Line 1	Line 2	
		IDLE	IDLE	
	LAN			
	IP Address	192.168.15.1		
	Subnet Mask	255.255.255.0		
	DHCP Server	Enabled		
	DHCP Server Start IP	192.168.15.100		
	DHCP Server End IP	192.168.15.200		
	WAN			
	Connection Type	DHCP		
	IP Address	192.168.10.2		
	Subnet Mask	255.255.255.0		
	Profe A Pater and	100.100.101		

Once you have logged on to the TT11 VoIP Router TA through the web browser, you can begin the set up according to your requirements. On the configuration main menu, the left navigation panel links you to the set up pages directly. They include:

- Status
- **System** (Provision, Firmware, Restart, Backup/Restore, User Management)
- Networks
- VoIP (SIP Settings, Line Settings, IAX settings, Call Control, Dialling Plan, CDR)
- Advanced (Remote Access, Virtual Server, Firewall, MAC Filter, IP Filter, Port

Filter) The following sections provide an overview of the settings.

5.3 Status – Device Information and Line Status

	Status	
Device Information		
System Up-Time	0 Hour 10 Min	
System Current Time	Tue May 11 12:18:01 2010	
Build Time	Mon Sep 1 17:12:36 2008	
Firmware Version	01.00.00 (Sep 1 2008)	
WAN MAC Address	00;D0;E9;01:EF;4B	
LAN MAC Address	00:D0:E9:01:EF:4C	
Register Status		
	SIP Register Status	
	IAX Register Status	
Line Status :	Line 1	Line 2
	IDLE	IDLE
System Up-Time	Records system up-time.	
System Current Time	Shows the system current time. See the Time Zone section for more information.	
Build Time	Shows the build time of the software.	
Firmware Version	Shows the firmware version.	
WAN MAC Address	Shows the WAN MAC address.	
LAN MAC Address	Shows the LAN MAC address.	
SIP Register Status	A hotlink to SIP settings status.	
IAX Register Status	A hotlink to IAX settings status.	
	8	
Line 1 Status	Shows line 1 register status (FXS).

5.4 Status – LAN

LAN	
IP Address	192.168.15.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
DHCP Server Start IP	192.168.15.100
DHCP Server End IP	192.168.15.200

IP Address	Shows the LAN port IP address.
Subnet Mask	Shows the LAN port subnet mask.
DHCP Server	Shows the DHCP server status — Enable or Disable
DHCP Server Start IP	Shows the start IP address that DHCP server distributes.
DHCP Server End IP	Shows the end IP address that DHCP server distributes.

5.5 Status – WAN and DNS

WAN	
Connection Type	DHCP
IP Address	192.168.10.6
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
DHCP Server IP	192.168.10.1
DNS	
DNS Servers IP	192.168.10.1
Connection Type IP Address	Shows the network connection type of WAN port. Shows the WAN port IP address.
IP Address	Shows the WAN port IP address.
IP Address Subnet Mask	Shows the WAN port IP address. Shows the WAN port subnet mask

5.6 System – Provision

	Auto-Provision	
Protocol	FTP 🔻	
Encryption	•	
Encryption Key		
HTTP IP		
HTTP Port	80	
FTP IP		
FTP Port	21	
FTP Timeout (sec)	0	
Username		
Password		
Firmware		
Refresh Interval (sec)	1800 (600 ~ 86400)	
VoIP Syslog Server		
	Apply Cancel	

There are 2 kinds of protocol for auto-provision. Please select FTP or HTTP. Click **Apply** to update the modification.

IP, Port, Username, Password, Firmware

Auto-provisioning is an advanced feature of the TT11VoIP Router TA. For further information on using this function, please contact your ISP.

5.7 System – Firmware

	Firmware Download
Firmware Type	image.flash 👻
Firmware Filename	Browse
Restore Factory Default Settings	Disable 💌
Status	
	Download Cancel
Firmware Type	Select the firmware type.
Firmware Filename	Select the saved firmware filename from your computer's folder.
Restore Factory Default Setting	Enable or disable the function of Restore Factory Default Setting .
Status	Show status

5.8 System – Restart

	Restart
After restarting, please wait for several seconds	while the system reboots
Restart Gateway with	Current Settings
Restarc Gacaway with	© Factory Default Settings
	Restart Cancel

Click Restart to update the modification.

Restart Gateway withSelect restart this gateway with Current Setting orFactory Default Settings.

5.9 System – Backup/Restore

	Backup / Restore
This form allows you to backup the configuration	on settings to your computer, or restore the configuration from your computer.
Backup Configuration	
Backup Settings - to your computer.	
	Backup
Restore Configuration	
Configuration File	Browse
"Restore" will overwrite the current configuration first to save the current configuration.	on and restart the device. If you want to keep the current configuration, please use "Backup"
	Restore

	Can save the backup configuration file into your computer. ("dialplan" for dialling plan or "xconfig" for others)
Restore Configuration	Restores the saved configuration file.

5.10 System – User Management

	User Management
Admin ID	admin
Admin Password	Change
Guest ID	user
Guest Password	Change
	Restore quest's default setting
	Apply Cancel

Click **Apply** to update the modification.

Admin ID	Enter the admin ID.
Admin Password	Enter or change the admin password.
Guest ID	Enter the guest ID.
Guest Password	Enter or change the guest password.

5.11 Networks – PPPoE WAN Setting

	Network
WAN Settings	
Connection Type	PPPoE -
Obtain DNS Automatically	🗹 Enable
Primary DNS	
Secondary DNS	
Username	uname
Password	******

Select PPPoE as network connection type if your ISP uses PPPoE. Most DSL users use PPPoE.

Obtain DNS Automatically	Enable this to obtain DNS automatically.
Primary DNS	Enter the primary DNS server IP address.
Secondary DNS	Enter the secondary DNS server IP address.
Username	PPPoE ID/username proved by your ISP.
Password	PPPoE password.

5.12 Networks – Static WAN Setting

	Network
WAN Settings	
Connection Type	STATIC -
IP Address	192.168.12.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.12.1
Obtain DNS Automatically	Enable
Primary DNS	
Secondary DNS	

Select Static as the network connection type if all the Wide Area Network IP addresses are provided to you by your ISP.

IP Address	Enter the IP address assigned to you by your ISP.
Subnet Mask	Enter the subnet mask address.
Default Gateway	Enter the default gateway IP address.
Primary DNS	Enter the primary DNS server IP address.
Secondary DNS	Enter the secondary DNS server IP address.

5.13 Networks – DHCP WAN Setting

	Network
WAN Settings	
Connection Type	DHCP
Obtain DNS Automatically	C Enable
Primary DNS	
Secondary DNS	

Select DHCP as network connection type that allows the network administrator to distribute IP addresses when this gateway is plugged into a different place in the network.

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5.14 Networks – LAN Setting

LAN Settings		
IP Address	192.168.15.1]
Subnet Mask	255.255.255.0]
DHCP Server	Enable 👻	
DHCP Server Start IP	192.168.15.100]
DHCP Server End IP	192.168.15.200]
DHCP Client Lease Time	86400	seconds

IP Address	LAN port IP address.
Subnet Mask	LAN port Subnet Mask.
DHCP Server	Enable or disable LAN side DHCP server.
DHCP Server Start IP	The starting IP address for the DHCP server's IP assignment if this function is enabled.
DHCP Server End IP	The end IP address for the DHCP server's IP assignment if this function is enabled.
DHCP Client Lease Time	The time period for the DHCP server to expire the IP that is assigned.

5.15 Networks – SNTP Setting

SNTP Settings	
SNTP	Enable 👻
CNTD Common ID Address	clock.via.net ntp.nasa.gov
SNTP Server IP Address	tick.ucla.edu
Time Zone	(GMT+10:00) Melbourne, Sydney, Guam 🔻
Daylight Saving	Disable 👻
Sync Interval	0 seconds
	Apply Cancel

Click **Apply** to update the modification.

SNTP	Enable/Disable SNTP.
SNTP Server IP Address	Enter the SNTP server IP address. The SNTP server allows the gateway to synchronise the local time with the remote server.
Time Zone	Choose your time zone.
Daylight Saving	Enable or disable daylight saving.
Sync Interval	Show the periodic interval the gateway waits before it resynchronises the gateway's time with that of the specified SNTP server.

5.16 VoIP – SIP Settings

		SIP Settings	
Accounts:	Line 1		Line 2
Display Name	callmedemo.7		
Number	callmedemo.7		
Username	callmedemo.7		
Password	•••••		
Register Status	Register OK		
Register:			
Local Port	5060		
Outbound Proxy Server	test.sip.traitel.com.au	1	
Outbound Proxy Port	5060	1	
Send Messages via Outbound Proxy	🔘 Enable 🔘 Disable		
Registrar Server	test.sip.traitel.com.au		
Registrar Port	5060		
Register Fail Retry Time	300	(10 ~ 600 sec)	
Session			

Click **Apply** to update the modification.

Display Name	The name displayed on the LCD. Note that TraiTel does not send this information to the caller. The username provided under the VoIP configuration goes here.
Number	The number in the URI displayed on the LCD. Note that Traitel does not send this number to the caller. The username provided under the VoIP configuration goes here.
Username	Username to log in to the SIP server. The username provided under the VoIP configuration goes here.
Password	User password to log in to the SIP server. Your TraiTel account main password goes here.
Register Status	The current status of the SIP registration.

Local Port	The local SIP port of the TA (typically 5060).
Outbound Proxy Server	Outbound proxy server IP address.
Outbound Proxy Port	Port number of Outbound Proxy server.
Send Messages via Outbound Prox	y Enable/Disable send messages via outbound proxy. When this feature is enabled, all messages will be sent through the outbound proxy.
Registrar Server	SIP Registrar server IP address.
Registrar Port	Port number of SIP Registrar server.
Register Fail Retry Time	The periodic interval at which the device retries the SIP registration after a failure of the SIP registration.
Session Type	Select Invite or Update as the Session Timer method.
Session Refresher	Select UAC (User Agent Client) or UAS (User Agent Server) as the Session Timer refresher.
Session Expires	The time interval in which the TA periodically refreshes SIP sessions by sending repeated Invite or Update requests, depending on the session type.
Register Expires	The time after which the registration on the SIP Registrar expires. The TA must send SIP Register to keep the registration at half the setting time.
UDP Timeout	Timeout for SIP requests (100 ~ 3000ms). Set "0" to disable this feature and follow the RFC 3261 rule.
UDP Retry Times	The number of times to send SIP requests. Set to "0" to disable this feature and follow the RFC 3261 rule.
Enable PRACK	A SIP method which acknowledges provisional responses like 180 ringing. Enable for a more reliable connection.
Anonymous	1. If Disable is selected, the full URI and name are sent to the receiver's device when the user makes a call.
	2. When Full URI is selected, "Anonymous" is sent to the receiver's device. It may display anonymous or nothing on the receiver's device.

3. When Display name is selected, only the display name is replaced by "Anonymous" when the user makes a phone call. It may display anonymous or nothing on the receiver's device.

Anonymous Reject

Select Enable to reject anonymous calls.

Redundancy Package

Enable/Disable the B2B service which is a special platform that provides advanced VoIP services. Please contact your service provider for details.

Session Type	INVITE -	
Session Refresher	•	
Session Expires	1800	sec
Register Expires	3600	sec
UDP Time Out	1500	(100 ~ 3000 msec)
UDP Retry Times	3	(1~6)
Enable PRACK	Disable 👻	
Anonymous	Disable	
Anonymous Reject	Disable 👻	
Redundancy Package	Disable 🔻	

5.17 VoIP – Line Settings

	Line Settings
Line 1 Settings (FXS)	
DIAL1	96962118
Polarity Reversal	Disable 🔻
TX Gain	-4 🔹
RX Volume	-4 💌
Do Not Disturb	Disable 🔻
	No Answer
Call Forward	Busy
	Unconditional
Call Forward Timer(sec)	10 (default 10)
Call Waiting	Enable -
T38	Disable

Dial Button	Allows the user to dial numbers using the web interface.
Polarity Reversal	Enable/Disable the polarity reversal signal.
TX Gain	Set a specific send audio level .
RX Volume	Set a specific receive audio level.
Do Not Disturb	Select Enable to reject incoming calls or Disable to disable the function.
Call Forward	Call Forward allows you to forward incoming calls to a pre-designated telephone number. It includes No Answer, Busy and Unconditional . Please enter the IP address, URI or number to be registered with the SIP server.
Call Forward Timer	The time elapsed before the call is considered not answered and is forwarded to a designated number. The default is 10 seconds.
Call Waiting	Call Waiting ensures that all important calls get to you. For example, if you are on the phone when another person tries to call you, an audible beep will inform you that someone is waiting on the other line. You can

decide whether you want to put the current caller on hold and take the incoming call.

T38Enable/Disable T.38 support, normally for fax users.Choose "Talk after fax end" to resume the phone call
after the fax process is finished.

5.18 VoIP – IAX Settings

		IAX Settings
Accounts:	Line 1	Line 2
Display		
Number		
Username		
Password		
Register Status		
Server :		
Port	4569	
Server		
Server Port	4569	
Refresh Interval (sec)	3600	
		Apply Cancel

IAX- Inter Asterisk exchange protocol is a proprietary protocol of Asterisk by Digium. It is a simple protocol like SIP. Yet, it can pass through any kind of NAT due to the way that it's been designed.

Display Name	Name displayed on the LCD for the caller.
Number	The number in the URI displayed on the LCD for the caller.
Username	User name to log into the IAX server.
Password	User password to log into the IAX server.
Register Status	The current status of the IAX Registration
Port	TT11 VoIP Router TA supports IAX2 protocol. Normally IAX2 uses Port 4569.
Server	The Asterisk server's IP address
Server Port	The port number for the Asterisk server. Default is 4569
Refresh Interval	The time interval at which the phone periodically refreshes IAX sessions.

5.19 VoIP – Call Control

	Call C	Control
Dialing:		
Dial Timeout(sec)	1	(max 120 sec)
Ring Timeout(sec)	30	(max 120 sec)
First Digit Timeout(sec)	20	
Inter Digit Timeout(sec)	3	
DTMF Method	RTP Relay 👻	
Payload Type	101	(96 ~ 127)
Voice:		
Echo Cancel	Enable 👻	
Voice Activity Detection	Disable 👻	
Default Codec	G.711 u-law 💌	Advance Codec Settings
ULAW Size(ms)	20ms 👻	
ALAW Size(ms)	20ms 💌	
G729 Size(ms)	20ms 👻	
G726 Size(ms)	20ms 👻	
iLBC Frames per Packet	1 💌	
iLBC Mode	30ms 13.3Kbit/s	ec 🔻
Call:		
Country	Australia	•
Caller ID Display	DT_DR(BELLCOP	RE FSK) 🔻
3-Way Conference	Disable 💌	
Call Transfer	Enable 👻	
Outgoing IP Call	Enable 👻	
Incoming IP Call	Enable 👻	
RTP:		
RTP Timeout(sec)	0	
RTP Port	41000	
RTP TOS	5 🔻	
RTP TOS(lower 5 bits)	0	range(031)
NAT Traversed:		
STUN	Disable 👻	
Stun Server		
UPNP	Disable 👻	
NAT Keep Alive Time	0 (s	ec)

Click **Apply** to update the modification.

Dial Timeout

The TT11 VoIP Router TA will automatically cancel a call out if the caller does not pick up the phone within the set time.

Ring Timeout	The TT11 VoIP Router will automatically reject a call if the call is not picked up within the set time.
First Digit Timeout	Specifies the maximum duration for the first digit to be keyed in.
Inter Digit Timeout	Specifies the maximum duration between successive digits before the dialled in numbers are sent out.
DTMF Method	Please choose RTP Relay, Voice or SIP Info.
Payload Type	The Payload type for the DTMF method "RTP Relay".
Echo Cancel	The algorithm for cancelling echo within the voice stream. Enabling this function is recommended.
Voice Activity Detection	The voice activity detection (VAD) is a component of the DSP software that examines a caller's incoming signal and determines if the signal contains sufficient energy and is likely to be speech rather than a click.
Default Codec	Default voice codec.
ULAW, ALAW, G.729, G.726 Size	One RTP packet is sent out on every specified time cycle.
ULAW, ALAW, G.729, G.726 Size	
	cycle.
iLBC Frames per Packet	cycle. Selectable amount of frames for each RTP packet. One RTP packet is sent out on every specified time
iLBC Frames per Packet iLBC Mode	cycle. Selectable amount of frames for each RTP packet. One RTP packet is sent out on every specified time cycle. Defines the user location to fit local Telco system
iLBC Frames per Packet iLBC Mode Country	cycle. Selectable amount of frames for each RTP packet. One RTP packet is sent out on every specified time cycle. Defines the user location to fit local Telco system requirements.
iLBC Frames per Packet iLBC Mode Country Caller ID Display	cycle. Selectable amount of frames for each RTP packet. One RTP packet is sent out on every specified time cycle. Defines the user location to fit local Telco system requirements. Select the method of Caller ID generation.
iLBC Frames per Packet iLBC Mode Country Caller ID Display 3-Way Conference	 cycle. Selectable amount of frames for each RTP packet. One RTP packet is sent out on every specified time cycle. Defines the user location to fit local Telco system requirements. Select the method of Caller ID generation. Enable/Disable 3 way conference. Hook-flash to start. Enable to transfer the call after it hangs up from a 3 way conference. The TT11 must be the initiator of the 3

RTP Timeout (sec)	The timer for terminating the SIP session if the gateway is aware of the absence of an RTP stream.
RTP Port	Initial port number for sending RTP packets.
RTP TOS	Type of service value for Quality of Service.
RTP TOS (lower 5 bits)	The lower 5 bits of the TOS field (0^{231}).
STUN	Enable/Disable STUN (Simple Traversal of UDP through NAT). This function is used for NAT traversal.
Stun Server	The IP address or host name of the STUN server.
UPNP	Enable/Disable UPnP (Universal Plug & Play). This function is used for NAT traversal.
NAT Keep Alive Time	The time interval that the IP phone sends the keep- alive packet in order to ensure that NAT works properly.

5.20 VolP – Dialling Plan

			Dialing P	lan			
refix:	0000	Mina	4	Max: 8	1	Del:	8
.dd:		IP / Domain Name:				Protocol:	PSTN -
		INSER	T] APPEND] C	DELETE UP	DATE		
able Maxin	num: 100	INSER	T APPEND C	DELETE	PDATE		
able Maxin Prefix			T APPEND C Del-Digits	Add	,	Domain Name	Protocol

Local dialling plan allows users to dial out to a VoIP Device using a pre-defined number. Users do not have to change their dialling habit. Click **Apply** to update the modification.

Prefix	Numbers defined here are used as the beginning digits of the dialling pattern. Maximum input length is 6 digits.
Min.	Minimum digits user can key in.
Max.	Maximum digits user can key in.
Del.	Number of digits defined in this field will be removed from the dialling pattern. For example, if we dialled 81352109378 and the delete digit is 2, then the actual dialled number is 352109378. First 2 digits are removed. Maximum digit delete is 3 digits.
Add	Numbers in this field are added at the beginning of the dialling pattern. For example, if 001 is in this field, the number dialled is 001+the rest of the numbers. The input length is limited to 6 digits.
IP / Domain Name	The IP address or domain name of the remote side VoIP device. When the prefix number is matched, this call will go to the VoIP device with this IP address or domain name.
Protocol	Choose the dialling plan for SIP or IAX.
[Insert]	Insert a record where the current record is located (Current record is in a different colour).
[Append]	Add a new record to the bottom of the list.
[Delete]	Delete the selected record.
[Update]	Modify the value of the selected record.

5.21 VoIP – CDR

			Call R	ecord			
DR = 0							
Seq	Caller	Callee	State	Start	Ring	Talk	End

Please click the **Refresh** button to see the updated CDR.

5.22 Advanced – Remote Access

Remote Access		
Telnet Access	Enable -	
Web Access	Enable 🔻	
Accept ICMP Requests	Enable 💌	
	Apply Cancel	

To temporarily permit remote administration of the gateway (i.e. from outside your LAN). Click **Apply** to update the modification.

5.23 Advanced – Virtual Server

	Virtuz	I Server	
Use this portion to add a new	entry or delete or edit an exis	sting entry	
Service type	User Defined 👻	Protocol	top 💌
Start Port		End Port	
IP Address			
	INSERT APPEND	DELETE UPDATE	
Туре	Port Start	Port End	IP Address
DMZ Setting DMZ	Enable	DMZ IP Address	
	Apply	Cancel	

Click **Apply** to update the modification.

Service Type	Select the service you wish to configure.	
Protocol	Automatic when you choose service type.	
Start Port	Enter the public start port number to configure.	
End Port	Enter the public end port number to configure.	
IP Address	Enter the IP address of a specific internal server to which requests from the specified port are forwarded.	
DMZ	Enable/Disable the DMZ function.	
DMZ IP Address	Enter the IP address of a specific internal server which needs to be accessible from the external network.	

5.24 Advanced – Firewall – MAC Filter

		MAC Filter			
Use this portion to ad	d a new entry or delete	or edit an existing ent	ry		
MAC Address		Action		DROP -	
	INSE	RT APPEND DELE			
	MAC Address			Action	
		Apply Cance			

A MAC (Media Access Control) address is the unique networks hardware identifier for each PC on your network's interface (i.e. its Network Interface Card or Ethernet Card). Using your gateway's MAC address filter function, you can configure the switch to only accept traffic from specified machines, or else to block specific machines from accessing your LAN.

There is no pre-defined MAC address filter rule; you can add the filter rules to meet your requirements. Click **Apply** to update the modification.

5.25 Advanced – Firewall – IP Filter

edit an existing entry		
Action	DROP -	
APPEND DELETE UPDATE		
	Action	
Apply Cancel		
	Action	Action DROP Action Action Action

Using your gateway's IP filter function, you can configure the switch to only accept traffic from specified machines, or else to block specific machines from accessing your LAN. Click **Apply** to update the modification.

5.26 Advanced – Firewall – Port Filter

		Port Filter	
Use this portion to add a ne	w entry or delete or ea	lit an existing entry	
Port		Protocol	tep 👻
Action	DROP -		
	INSERT	APPEND DELETE UPDATE	
Port		Protocol	Action
		Apply Cancel	

Using your gateway's port filter function, you can configure the switch to only accept traffic from specified machines, or else to block specific machines from accessing your LAN. Click **Apply** to update the modification.

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6.0 Troubleshooting

If your TT11 VoIP Router TA is not functioning properly, you can refer to this chapter first for sample troubleshooting before contacting TraiTel. This can save you time and effort but if the issues are not covered here please call or send an email to <u>customer-service@traitel.com.au</u>.

ISSUE	RECOMMENDED ACTION
I forgot my TT11 VoIP Router TA log in and/or password.	 Try the default log in and password, please refer to Chapter 5.1 Restore the TA to its factory default settings by holding the Reset button on the back for 6 seconds or more.
None of the LEDs are on when I turn on the TT11 VoIP Router TA.	 Check if the power cord is connected properly. Check if there is AC power coming from the power outlet.
Why can't I ping any PC on the LAN?	 Check the LAN LED on the front panel. The LED should be lit on the port that has a PC connected. If it is off, check the cables between your TT11 and the PC. Verify the IP address and subnet mask are consistent between the router and the workstations.
Why can't I dial my friend's SIP number?	 Check the Registrar server domain name/IP address and outbound proxy domain name/IP address (under SIP settings in the configuration menu). Ensure you have the correct name or IP address.
	 Check the LED display on the front panel of the TT11 to see if the SIP Reg LED is lit. If it is not lit, use a web browser and access the configuration menu. Make sure that the Registrar server domain name/IP address is correct.
	 Check the Register status under SIP account settings in the configuration menu (from the web browser). If your status is unregistered, it means you do not have a SIP account. Contact Your SIP service provider to get an account.
Why isn't my firmware updating?	 Your TT11 VoIP Router TA automatically detects new firmware when you plug in the power. If a new version is available the TA will automatically update the firmware.
	2. Check the FTP address is correct.

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	 Check with TraiTel if the firmware filename is correct.
Why do I get "Can't Upgrade Now" on the screen when I click [Apply] in the configuration menu?	Make sure you exit the Setting mode (phonebook, menu, speed dial) before you click [Apply] in the configuration menu.

Appendix: Product Specification

Protocol

- IETF SIP (RFC3261)
- IAX2

Network Interface

 RJ-45 x2, 10/100BaseT (WAN*1 & LAN*1)

Phone Interface

 RJ-11 x2, connect to analogue phone

Call Features

- Call Transfer (attended)
 Call Forward (Busy/No Answer/Unconditional)
- Call Hold/Retrieve
- Call Waiting
- ID Display
- Anonymous Call
- Anonymous Call Blocking

Fax Support

- G.711 pass-through
- T.38

Codec

- G.711 μ-law
- G.711a-law
- G.723.1 (5.3k) (option)
- G.723.1 (6.3k) (option)
- G.726
 G.729a
- G.729
 iLBC

DTMF

- In-band DTMF
- Out-of-band DTMF
- (RFC2833)
- SIP INFO

SIP Server Support

- Registrar Server (set from web)
- Outbound Proxy (set from web)

Security

HTTP 1.1 basic/digest authentication for web set up MD5 for SIP authentication (RFC 2069/RFC 2617)

Dial Methods

- Direct IP call without SIP proxy
- Dial number via SIP server
- Dial URI via SIP server

Router

- Virtual Server
- Firewall
- Remote
- Access NAT
- DHCP Server
- DMZ

Voice Quality

- VAD (Voice Activity Detection)
- CNG (Comfort Noise Generation)
- AEC (Acoustic Echo Cancellation) G.168
- Jitter buffer

QoS

ToS field

Dial Signal

DTMF dialling

Tone

- DTMF Ring
- Tone
- Ring Back Tone (local and remote)
- Dial Tone
- Busy Tone

IP Assignment

- Static IP
- DHCP
- PPPoE

NAT Traversal

- UPnP
- STUN

TCP/IP

- IP/TCP/UDP/DHCP/RTP/ICMP/
- HTTP/SNTP/FTP/DNS

Configuration

- Web browser
- Auto-provisioning system

Firmware Upgrade

- Web-based Interface
 - Auto-provisioning system

Power

- Input AC 100-120V/220-240V 50/60Hz
- Output DC 12V

Environmental

- Operating temperature 0 ~ 40°C
- Storage temperature: -20 ~ 60°C
- Operating humidity: 20% ~ 80%

Physical Dimensions

- Size: 157(l) x 121(w) x 33(h) mm
 - Weight: 260g
 - Colour: Orange/White

Certification Compliance

- FCC Part 15 Class B
- CE Class B
- VCCI Class B
- EN60950