TOSHIBA



SIP Trunking using Optimum Business® SIP Trunk Adaptor and the Toshiba CIX40 Version AR5.20 MT037.00 IP PBX. This guide can be used for the CIX100, CIX200, CIX670 and CIX1200 IP PBX's

Goal

The purpose of this configuration guide is to describe the steps needed to configure the Toshiba CIX40 IP PBX version AR5.20 MT037.00 for proper operation with the Optimum Business SIP Trunking.

Prerequisites

Please follow the instructions in the Optimum Business SIP Trunk Set-Up Guide. The Set-Up Guide was left by the Optimum Business technician at installation. If you do not have the Set-Up Guide, go to <u>www.optimumbusiness.com/SIP</u> to download a copy.

Toshiba CIX40 IP PBX Configuration

The steps on the next page describe the minimum configuration required to enable the PBX to use Optimum Business SIP Trunking for inbound and outbound calling.

The configuration described here assumes that the PBX is already configured and operational with station side phones using assigned extensions or DIDs. This configuration is based on Toshiba CIX40 version AR5.20 MT037.00.

Set up the Toshiba CIX40 IP PBX for SIP Trunk provisioning

The Toshiba CIX4O will be configured to send SIP registration to the Optimum Business Sip Trunk Adaptor.

The CIX40 works well with the Toshiba IP5022-SD phones.

The CIX40 PBX was shipped with 2 fixed IP addresses, 192.168.0.252/24 and 192.168.0.253/24, for 2 Ethernet ports (inside the box). 192.168.0.253 is the IP address of the CIX40 processor and it is mainly used by the Network eManager (configuration GUI) for managing the PBX's configuration. 192.168.0.252 is the IP address of the GIPU card that supports SIP trunking. The GIPU should be in the same subnet as the Optimum Business SIP Trunk Adaptor's port 1 and use port 1's IP address as its SIP server. This IP address assignment is step 1 of the Optimum Business SIP Trunk Set-up Guide. All the phones communicate with the PBX via this IP address as well, using the Megaco VoIP protocol.

The Toshiba CIX PBX does not support non-registration (static) mode.

Notes:

- **IMPORTANT**: When the Optimum SIP Trunk Adaptor is configured to be on the same subnet as the GIPU, its internal user agent will take a default IP address of 192.168.0.252. The default IP address of the GIPU card is also 192.168.0.252. This conflict prevents the GIPU from registering with the Optimum SIP Trunk Adaptor. To resolve this conflict, the GIPU's IP address should be changed from 192.168.0.252 to 192.168.0.251.
- To change the GIPU's IP address from 192.168.0.252 to something else, invoke Network eManager and access the GIPU Configuration screen (IP-Telephony->L/M/G IPU Configuration).
- To change the PBX's management IP address from 192.168.0.253 to something else, invoke Network eManager and access the IP Configuration screen (Maintenance->CIX Processor IP Address).
- You have to unscrew the PBX's top off in order to connect to the 2 Ethernet ports.
- You can install the Network eManager on either the Windows XP or Window 7 machines. Once the Network eManager is successfully installed, run http://localhost/emanager with Internet Explorer to invoke Network eManager for configuring the PBX. Network eManager will not work with other browsers.
- The IP5022-SD phones by default will need IP address assignment, the Optimum Business SIP Trunk Adaptor port 1 should have DHCP server enabled. This is step 1 of the Optimum Business SIP Trunk Set-up Guide.
- The PBX comes with pre-set 3-digit extensions (i.e.: 224 to 227) set up and each phone must have its Station ID configured to match one of these extensions.

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1. Invoke Network eManager (with Internet Explorer only) with "http://localhost/ emanager" and you should see the Log In screen.



2. Log in with "Administrator" as User Name and "password" as Password and you will see the Home screen.

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 Click Equipment Setup to set up the identity of the CIX40 (i.e.: the IP address of the CIX40). The PBX equipment is set up in a three-tier format: Company - Site - Equipment.

Note: When entering the community name, it must be "communityName".

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4. Mouse-over the Client tab and click "connect to Client Equipment" and you should see the Connect to Client Equipment screen.

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-		and the second se	Equipment Name:	Toshiba CIX40	
		and the second	IP Address:	192.168.0.253	
Toshiba CIX40			MAC Address:	002318692538	
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 Click Connect and you should see the Connected Equipment Details screen, which shows important information about the CIX40 such as the software version and MAC address.

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	01	02	GMAU3A Base Card	 4 analog loop start lines w 	ith built-in Caller ID interface			
	01	03	GVPH-1A - 8 voice m	al ports				
	01	04	GMAU3A Base Card	(1st), optional GSTUTA (2n	d) - max. Z standard telepho	ne ports		
	01	06	GIPU0 - 0 IP channels	•				
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	01	09	Not used					
-	Print Ret	resh						

 Go to the Card Assignment screen (System->Card Assignment) and note the Cabinet-Slot number of the GIPU card.
 This is the card that supports SIP trunking. In this example, the Cabinet-Slot number (or the Equipment number) of the GIPU is 0105.

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	19 Intercept	Disable 💌	20 Send Dial Tone	Disable •	
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7. Go to the Incoming Line Group screen (Trunk->ILG) to assign group number 8 for SIP calls. Set the DID Digits field to 4.

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8. Go to the DID screen (Trunk - DID) to match the last 4 digits of each DID to one of the 3-digit extension.

Note: To see what extensions have been pre-set for SIP trunking, access the PDN Table View screen (Station->Station Assignment->Basic->PDN Table View) and see what extensions are already there for the GIPU.

If each phone has an assigned IP address and has its Station ID configured to match one of the pre-set 3-digit extension number, the IPT Data screen (IP-Telephony->IPT Data) should reflect that.

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	06 Station MAC Address	001587D876FD		E	
	07 Voice Packet Table	1 -			
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	09 Display Software Version Number of IPT	IP5K4-M1G0E			
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9. If each phone has an assigned IP address and has its Station ID configured to match one of the pre-set 3-digit extension numbers, the IPT Data screen (IP-Telephony->IPT Data) should reflect that.

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	10 QPL Day1	1 👻	QPL Day2 1 👻	QPL Night 1	-		
	11 Speech/3.1KHz	Audio 👻	12 MOH Source	1 Processor MOH	Jack 👻		
	13 Account Code	C Enable	Disable				
	14 Destination Restriction	Enable	 Disable 				
	15 Credit Card Calling	Enable	 Disable 				
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	17 QSIG Sending Type	Cut Through 👻	18 Network COS	1 🔻			
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10. Go to the Outgoing Line Group screen (Trunk->OLG) to assign group number 8 for SIP calls.

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11. Go to the Channel Group Setting screen (IP-Telephony->SIP Trunking->Channel Group Setting) to set the Trunk Channel Group number for GIPU card .

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	35 SIP Trunk Message Option	IPU IP Address	 36 SIP Trunk Message To Header Option 	SIP Server IP Addre 💌	
	37 SIP Trunk Register Message From Header Option	IPU IP Address	 38 SIP Trunk Register Message To Header Option 	SIP Server IP Addre 💌	
	39 Assert Identity	Disable •			Ļ
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12. Go to the Service Definition screen (IP-Telephony->SIP Trunking->Service Definition) to set the SIP Trunk Service Kind Table Index for the SIP trunk ISP and configure the service for SIP trunk.

PBX will send SIP registration when Registration Mode is set to Client.

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13. Go to the Service Assignment screen (IP-Telephony->SIP Trunking->Service Assignment) to assign Service #1 for the SIP Trunk ISP (represented by the SIP Trunk Service Kind Table Index) and its associated channel group.

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14. Go to the URI screen (IP-Telephony->SIP Trunking->URI) to decide which DID should register with the Optimum Business SIP Trunk Adaptor. Only the DID with SIP URI Attribution set to "main" will be used to register with the Optimum Business SIP Trunk Adaptor. The "main" DID in this screen **must** match the Pilot DID. The password for "main" **must** match the password set for the Pilot DID. This is a configuration requirement; calls will not work if this is not set.

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IP-Telephony - L/M/G IPU (Configuration	
	161 LIPU/MIPU/GIPU CONFIGURATION	0105
EWN	00 Gabinet & Slot Number 0105	
	01 IPU IP Address 192, 168, 0, 251	
	02 IPU Subnet Address 255, 255, 255, 0	
Toshiba CIX40	03 IPU Default Gateway Address 192, 168, 0, 1	E
	07 Version of IPU/IPH MIPU01_28DA200	
	09 Available IPU/IPH IP Ports 1 v	
	04 LIPS IP Address 0, 0, 0, 0	
	05 LIPS Subnet Address 0, 0, 0, 0	
	06 LIPS Default Gateway Address 0, 0, 0, 0	
	08 Version of LIPS	
	10 Available LIPS IP Ports 0 ~	
	11 IPU/IPH Packet Prioritization Enable Disable	
	12 IPU/IPH Packet Prioritization Type Best Effort Voice	
	13 IPU/IPH VLAN O Enable Disable	-
	Submit Print Refresh Get Defaut	
	Network eManager: V5.208128 ©2008-2010 Toshiba America Information System, Inc. ?	
Done	Internet Protected Mode: On	• • • 100% •

15. Go to the L/M/G IPU Configuration screen (IP-Telephony->L/M/G IPU Configuration) for configuring the GIPU card (Cabinet-Slot number = 0105). The IPU Default Gateway Address should be set to the same as the Optimum Business SIP Trunk Adaptor's port 1's IP address.

Intranet settings are now turn TOSHIBA eading Innovation >>> tratagy ES System EWN EWN EWN EWN EWN	by default Station de 102 FLEXIBLE 00 Access Code 11 Feature Name 42 OLG Number (1)	Intranet set Trunk ACCESS C	ttings are less se	etter (1) (1) (1) (1) (1) (1) (1) (1)	et settings. C CATION BYBT Administra LCR/DR	Home Home RECER TEME DIVISION tor Strate Net	Clients Connecte Maintenance	d Equipment IF Applica	tion Settings → log out → Help →
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	7007	Call Park Orb	it Number (System)						
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	7012	Call Park Orb	it Number (System)						
	7013	Call Park Orb	it Number (System)						
	8	Private Netwo	ork Access Code				E		
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-									
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16. Go to the Flexible Access Code screen and configure 9 as the Line Group access code.

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	05 Default Name	6316769576					
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	03 Special Number		04 Special Name				
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17. Go to the Calling number screen (Trunk->Calling Number) to configure the same DID for registration as the calling number when the PBX places an outbound call .

This will set the Caller ID to match the Pilot DID. This is a requirement for registration mode configuration. The only supported mode for the Toshiba CIX is registration mode.

 Go to the Public Numbering Plan screen (System -> Public Numbering Plan) to configure the PBX for allowing 10-digit or 7-digit outcalls, outbound calls and other dialing patterns.

Network eManager - Public Numbering Plan screen (dial plan for 10-digit plan)

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Network eManager - Public Numbering Plan screen (dial plan for 7-digit plan)

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Network eManager - Public dial plan analysis



Network eManager - PDN Table View screen

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0104	DKT	Extension	203		203	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
0105	DKT	Extension	204		204	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
0105	DKT	Extension	205		205	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
0107	DKT	Extension	206		206	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
108	DKT	Extension	207		207	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
M01	SLT	Extension	208		208	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
0402	SLT	Extension	217		217	1	1	1	1	1	1	1	1	1	1	0	1	10	1		
0301	SLT	Voice Mail	220			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
302	SLT	Voice Mail	221			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
303	SLT	Voice Mail	222			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
304	SLT	Voice Mail	223			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
15	IPT_L	Extension	224			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
15	IPT_L	Extension	225			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
6	IPT_L	Extension	226			1	1	1	1	1	1	1	1	1	1	0	1	0	1		
6	IPT_L	Extension	227			1	1	1	1	1	1	1	1	1	1	0	1	0	1		