

Strata[®] CIX[™] Product Bulletin

PBCIX-0056 Dec. 7, 2007

Businesses Save Money with Toshiba's New SIP Trunking Feature

For business trying to save money on telecommunications tariffs, conventional technology requires separate services for data and voice. This can be inefficient because data isn't carried over the un-used voice service, and voice isn't carried over the available data service. Session Initiation Protocol (SIP) Trunking allows the two services to be combined onto a single more efficient service. Unlike gateway based solutions, Toshiba's MIPU card with SIP trunking costs less and allows SIP Trunking to be supported natively in the phone system along with remote IP phones, softphones, WiFi phones, IP based voicemail and IP based ACD applications.

SIP Trunking allows the CIX to get PRI like services from an Internet Telephony Service Provider using Session Initiation Protocol.

SIP (Session Initiation Protocol) is an application layer protocol used for establishing sessions in an IP network. SIP is a very rich and extensible protocol and, similar to HTTP and SMTP, SIP is a text-based protocol. The power of SIP lies in the fact that it allows a user on a SIP enabled device to communicate with other users on SIP enabled devices (IP PBX, SIP phone, SIP Softphone) regardless of geography. SIP Trunking harnesses the power of the SIP protocol to route a VoIP call over the carrier's IP backbone to any IP address worldwide.

Toshiba implements SIP trunking using our new MIPU card. The MIPU is designed from the ground up as a VoIP card able to support IP stations, Strata Net IP, and now SIP trunking. With the SIP Trunking capability of the new MIPU card, companies are no longer committed to having to purchase different types trunk cards and the bundles of physical wires to host analog, PRI and BRI trunks. With the MIPU implementation of SIP Trunking, companies are able to leverage their existing Toshiba CIX R4.x (and later) PBX systems with just the purchase of MIPU cards, an update to R5.10 MS18 software, and corresponding license. SIP Trunking is meant to simplify IP PBX trunking capability by replacing all of these traditional PSTN lines with one SIP Trunking device hosted by SIP Trunking provider on the internet.

For companies that already have a networking infrastructure, there are no additional networking devices required to implement SIP Trunking.

In essence, SIP Trunking offers ISDN-like features over a data connection (i.e. T1 circuit). However, unlike a traditional T1 circuit, a SIP Trunking enabled circuit does not have to be physically provisioned and divided to separate the voice channels from the data channels.

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MIPU SIP Trunking implementation Benefits

- IP stations, Strata Net IP networking and SIP Trunking can all be hosted using the same MIPU card.
- The MIPU card comes in a 16 channel version and the new 24 channel version without having to use a daughter-board.
- SIP Trunking using the MIPU replaces having to purchase analog trunk cards, PRI, T1 and BRI cards.
- The MIPU SIP Trunk is scalable. Simply add additional MIPU cards as your needs grow.
- For companies with an existing network infrastructure, there is no additional networking hardware to purchase to implement SIP Trunking using the MIPU card.
- One MIPU card can be configured for multiple service providers simultaneously.

Requirements

- CIX Hardware: CIX40, CIX100, CIX200, CIX670
- CIX Software: R5.10 MS18 or higher
- MIPU: MIPU01_07 or higher
- eManager: V5.10 A07 or higher
- Service provider: Contact Toshiba Sales Applications Desk
- Soft Switch: Contact Toshiba Sales Applications Desk
- License: LIC-CIX-SIPT-CH



SIP Trunking Network Configuration Example

There are many ways to set up a public IP address for the MIPU. The most common way is to simply run an ethernet cable from one of the WAN interfaces on the router straight to the MIPU.

Programming

Programming the MIPU card

- 1. Set the card type for the slot holding the MIPU
- 2. Choose the type of MIPU for use in the system. The number of channels entered must match the number of channels on the card.

eManager Version 5.0	00A07 (in locall	nost Server) - Microsoft Internet Explorer	
TOSHIBA		Card Assignment	
Strata		Optimize Communication	
Basic Configuration Advanced Configuration	- 100 CIX/C	CTX CABINET SLOT PCB ASSIGNMENTS	
Command Table	Cabinet	02 Slot 03 Assign Remove	
System	PCB Type:	MIPU16 - 16 IP Station	
Flex Access Code	Cabinet 01	LVMU - 8 voice mail channels MF2U - MF2U interface circuits	
Public Number Pla Class Of Service	01	MIRU16 - 16 IP Station MIRU24 - 24 IP Station PDKU - 8 DK7 with Spir OCA	
System Timer	01 02 02	PDKU - 8 DKTs without Spkr OCA RBSU/RBSV-4 BRI S/T interface circuits RBSU-2 BRI S/T interface circuits BBUI/18015. 4 BRI Literatere circuits	
Sys Call Forward	02	RBU - LSR U interface around RBU - LSR U interface circuits RCIU/RCIS - 4 or 8 circuit Caller ID interface RCOU/RCIS - 8 analog loop start lines	
System Spdial		RDSU/RSTS - 4 standard/4 digital telephone ports with Spkr OCA RDSU/RSTS - 4 standard/4 digital telephone ports without Spkr OCA RDSU/RSTS - 4 standard/4 digital telephone ports without Spkr OCA RDTU - 16 channel T1	
Day Night Service Daylight Saving		RDTU - 24 channel T1 RDTU - 30 channel T1 RDTU - 8 channel T1 REMU or BVPU - 4 analog Tie lines or 4 VOIP circuits	
Password		RGLU or RCOU - 4 analog ground or loop start lines RMCURMOS - 2 or 4 EB1 CAMA lines RFTU or BFTU - 16 channel PRI	
I/O Device		RFTU or BFTU - 2 k onsamel PRI RFTU or BFTU - 8 channel PRI RFTUIF - RFTUIF interface circuits RSTU BSTU or IVP8 - 8 standard telephone ports	
Advisory Message Data Initialize			
VM Data	Print Refresh		
Connected to cix 200	- CIX/CTX AR5.00	MR014.00 [172.16.1.126] , SES 5.063.002 [172.16.1.129]	ranet 🛒
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Programming the Incoming Line Group

- 1. For SIP trunk programming you start with an ILG and OLG assignment.
- 2. For ILG Programming create an ILG group (In this example Group Number 8).
- 3. FB01 Trunk type- select SIP
- 4. FB03 CO service type- DID
- 5. FB11 Number of DID Digits- number of incoming digits to use from the dialed number to route the call.

DID routing must be set up to route incoming SIP calls to their desired destinations. That programming is the same as any other trunk group type. If that routing is not set up incoming INVITEs (calls) will fail.

🗿 eManager Version 5.00A07 (in localhost Server) - Microsoft Internet Explorer						
TOSHIBA	ILG					
Strata	<i>0</i> _I	ptimize Communication				
Basic Configuration	- 304 INCOMING LINE GROU	UP ASSIGNMENT	2 ANALOG			
Advanced Configuration	Group Number	8	3 ANALOG 5 ANALOG			
Command Table	01 Group Type	SIP V 02 Line Type CO V	6 ANALOG			
System	03 CO Service Type		7 ANALOG 8 SIP			
Station	05 GCO Key Number		10 SIP			
	47 COS Davi		11 ISDN 15 SIP			
	07 COS Day1		20 ISDN			
Assignments	00 DRL Day1		25 ISDN			
	09 FRL Day1	1 V FRL Day2 1 V FRL Night 1 V				
	10 QPL Day1	1 V QPL Day2 1 V QPL Night 1 V				
	11 DID Digits	4 12 Speech/3.1KHz Audio				
	13 Delay1 Ringing Timer	12 V 14 Delay2 Ringing Timer 24 V				
DID/DNIS Table	15 Interdigit 1 Timer	15 V 16 Interdigit 2 Timer 5 V				
	17 Auto Campon	Enable 💙 18 Calling Number ID User Provided 💙				
ISDN PRI	19 Intercept	Disable 💙 20 Send Dial Tone Disable 💙				
ISDN Call By Call	21 TGAC Override	Disable V 22 Network COS 1				
B Channel	23 LCR Group	1 24 Change COS Override Code Disable 💙				
D Channel	25 Register Speed Dial Codes	Disable 💙 26 Originator Invoke OCA Disable 💙				
Calling Number	27 Senderized Tone Mode	Dial Tone 💙 28 Emergency Call Group 1				
Full IP Qsig	29 Tenant Number	1 V 30 Call-By-Call Cause UserBusy V				
Voice Mail						
Attendant						
IP-Telephony	Cubat Drint Default	Col Particult County Delate				
	Submit Frint Reliesi	Ger Derault Create Copy Delete				
Connected to civ 200	0 - CTV/CTV AP5 00 MP01/	4 00 [172 16 1 126] SES 5 063 002 [172 16 1 129]) anet			
	- CLACTARS.00 MR01	4.00 [1/2.10.1.120] , 303 0.005.002 [1/2.10.1.129]	anec ":			
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Note: SIP trunking requires a license for each trunk. No channel group can successfully be programmed without a license.

SIP trunking is supported by the MIPU card only. It can share connections of its ports between stations and IPTs and other IPU devices. The IPTs are the only devices that are can be assigned equipment number 0000. That is, SIP stations, VM ports, SIP trunks and attendant consoles are fixed resources. IPTs do not need to be fixed assignments (unless they are assigned a fixed equipment number, not 0000).

Programming the Outgoing Line Group

- 1. Create a new OLG and designate it as SIP.
- 2. FB01 Group type: SIP
- 3. The rest are left at the default value.
- 4. An OLG access code must be created for this group.

🗟 eManager Version 5.00A07 (in localhost Server) - Microsoft Internet Explorer				
OLG				
Optimize Communication				
306 OUTGOING LINE GROUPS Group Number 8 01 Group Type SP 02 Trunk Type C0/DD 03 Service Type Standard 04 GC0 Key1 Number 8 06 Pool Key1 Number 0 0 0 08 COS Day1 1 COS Day2 1 0 09 FRL Day1 1 FRL Day2 1 FRL Night 1 10 QPL Day1 1 QPL Day2 1 QPL Night 1 1 13 Account Code Enable Disable 1 </th <th>1 ANALOG 5 ANALOG 6 ANALOG 7 ANALOG 7 ANALOG 8 SIP 10 SIP 11 ISDN 15 SIP 20 ISDN 25 ISDN 25 ISDN 35 ANALOG</th>	1 ANALOG 5 ANALOG 6 ANALOG 7 ANALOG 7 ANALOG 8 SIP 10 SIP 11 ISDN 15 SIP 20 ISDN 25 ISDN 25 ISDN 35 ANALOG			
CIX/CTX AR5.00 MR014.00 [172.16.1.126] , SES 5.063.002 [172.16.1.129]	Local intranet			
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	DOA07 (in localhost Server) - Microsoft Internet Explorer DLG Optimize Communication 306 OUTGOING LINE GROUPS Group Number 8 0 01 Group Type SP 0 2 Trunk Type CODD 03 Service Type Standard 04 GC0 Keyf Number 0 06 Pool Keyf Number 0 0 0 0 06 COS Day1 1 COS Day2 1 COS Night 1 <td< th=""></td<>			

Creating the Channel Group

- 1. Go to IP Telephony > SIP trunking. The first tab is Channel Group setting, Program 326.
- 2. Channel Group Setting In this example SIP Trunk Channel Group 8 is created.
- 3. FB01 Equipment Number Enter the Cabinet number and slot number (four digits). In this example 0203.
- 4. FB02 LAN interface number = 1 (MIPU only has one interface)
- 5. FB03 Strata Net Channels The TOTAL number of ports on this card that are going to be dedicated to SIP Trunking. On further tabs, each OLG or ILG can be for a different service provider and still be in the same channel group. This entry is the total number of trunks from ALL the service providers
- 6. FB04 RBT tone on incoming call Enable for the CIX to provide RBT (ring back tone). Coordinate this response with the Internet Service Provider (ISP) trunk provider

🗿 eManager Version 5.00A07 (in localhost Server) - Microsoft Internet Explorer					
TOSHIBA	SIP Trunking				
Strata	Optimize Communication				
Basic Configuration Advanced Configuration	Channel Group Setting Service Definition Service Assignment URI				
Command Table System Station	00 SIP Trunk Channel Group 8 List				
Trunk	01 Environment 10203 02 LAN Interface Number 1				
Voice Mail	03 Strata Net IP Channels 3 V 04 RBT on Incomino Call Enable V				
Attendant					
IP-Telephony					
System IP Data					
Voice Packet Conf					
IPT Data					
xIPU Prog Update					
IPT_B Prog Updat					
IPT_L Prog Update					
IPT Qos					
IPU/IPH Config					
IPU/IPH VP					
MIPU/GIPU Log					
SIR Trucking					
IPT VLAN Setup					
VLAN Table					
	Submit Print Refresh Get Default Create Delete				
Connected to cix 200 - C	CIX/CTX AR5.00 MR014.00 [172.16.1.126] , SES 5.063.002 [172.16.1.129]	anet 🦽			
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Service definition

The Service Definition tab is where the ISP providing the SIP trunk service is defined. There may be several ISPs per channel Group.

Required Entries:

- 1. Create the Service Kind Table Index start with index 1 if desired
- 2. FB01 Registration Mode: Client (default)
- 3. FB02 ILG: Use the previously created ILG number
- 4. FB03 OLG: Use the previously created OLG Number
- 5. FB04 Effective Channel Number: Number of SIP trunks provided by this ISP
- 6. FB05 Domain Name: FQDN (fully qualified domain name) of this ISP.
- FB06 SIP Server: The IP address of the ISP. This can be found by doing a NSLOOKUP of the FB05 domain name. The entry can be the FQDN or IP address of the SBC (Session Border Controller) or ALG (Application Layer Gateway). If you are not using SBC or ALG leave this entry blank.
- 8. These are the only mandatory program entries. The rest can be default for now.

TOSHIBA	SIP Trunking							
Strata	Optimize Communication							
Station	Channel Group Setting Service D	efinition	Service	Assignment URI				
Trunk	- 327 SIP TRUNK SERVICE KIND ASS	SIGNMENT -				1		
Voice Mail	00 SIP Trunk Service Kind Table Index	11	11	st				
Attendant	01 Project tion Made	Client		63 H C	44	24		
IP-Telephony	or registration mode	Client		021116	11			
System IP Data	03 OLG	11	×1	04 Effective Channel Number	5	~		
BIPU Configuration	05 Domain Name	sipconnec	t-fca.atl0.cbe [.]					
Voice Packet Config	OG SIP Server		10					
IPT Data	07 Primary Voice Packet Configuration	1	~	08 Secondary Voice Packet Configuration	3	~		
xIPU Prog Update	09 Registration Period	3600		10 TimerB	5	~		
IPT_B Prog Update	11 Recovery Timer	60	~	12 Network Transfer	Enable	~		
IPT_L Prog Update	13 User Agent Header	Disable	~	14 Server Header	Disable	~		
🔵 IPT Qos 🔤	15 Protocol Option	Disable	~	16 Session Timer	1800			
IPU/IPH Config	17 Primary Audio Codec	G.711u	~	18 Secondary Audio Codec	G.729a			
IPU/IPH VP	19 DDJE Transmission Method	REC2833		20 RTCD Support	Enable			
MIPU/GIPU Log		Disable			40			
MIPU/GIPU DSP	21 1.36 Support	Disable		22 SIP Server Gacnes	10	×		
SIP Trunking	23 Diffserv for Media	Disable	~	24 TOS Field Type for Media	TOS	~		
IPT VLAN Setup	25 TOS Precedence Type for Media	Critical/ES	P 🗸	TOS Delay Type for Media	Normal	~		
VLAN Table				TOS Throughput Type for Media	Normal	~		
LCR/DR				TOS Reliability Type for Media	Normal	~		
Networking	26 DSCP for Media	0	~					
Miscellaneous	27 Diffserv for Signaling	Disable	~	28 TOS Field Type for Signaling	TOS	~		
External Devices	29 TOS Precedence Type for Signaling	Critical/ES	PV	TOS Delay Type for Signaling	Normal	~		
S FeatureFlex	Submit Print Refresh Get Defau	ut Create	Delete					

Service Assignment

The Service Assignment tab must be completed before entries are made on the next tab. If not completed, entries attempted in the URI tab will not save.

Important! After URI entries are made in URI tab changing this program will DELETE all the URIs programmed. Once this is set, do not change it.

- 1. FB01 Channel Group (8 in this example)
- FB02 Select the "service number" by clicking on one of the table's line entries. Use the drop down box to select the ISP to which the URIs belong. This is to match the "service kind table index" number of the desired ISP. On the next tab programming will begin to enter the URIs (directory numbers) that are associated with this ISP.



URI Programming

The SIP URI is effectively the DN that the ISP is going to provide. The MIPU is going to register each DN as a UA (User agent). Each UA will appear to the ISP like a SIP station. When the URI DN is dialed (from outside) the ISP will send a SIP INVITE, as if it were a call to a SIP station. But, an outbound call using one of the UAs does not busy-out the UA against an incoming call, that is a key difference of SIP trunks. Refer to the program screen on the next page.

- 1. FB00 SIP URI Trunk Service Index: The service Kind index that defines the ISP. If for instance, the service kind is Cbeyond, enter the DNs provided from Cbeyond.
- FB01 SIP URI Index: Click the "index" line in the table to select one of the indexes (1-160), for CIX100 select from 1 - 72.
- 3. FB02 SIP URI: This will be the DN of the URI
- 4. FB03 SIP URI User Name: Typically this is the DN but, could be a name provided by the ISP.
- 5. FB04 SIP URI password, the same as the authentication password, if required. If the ISP is set for authentication when registering a URI the SIP registration is sent to the ISP (without password). Then the ISP will "challenge" the registration. The MIPU will send the registration again with the password encoded by the method indicated in the challenge. This registration is accepted based on the password entered here. When an outbound call is made the same challenge will occur.
- 6. FB05 Channel Group Number- this will be filled in automatically when the ADD button is clicked. It cannot be entered manually.
- **Important!** URIs will register as soon as they are ADDed or MODIFIed. Otherwise all the URI will register when the MIPU is reset. The UAs will re-register as required before the expiry time-out occurs.

a eManager Version 5.00A07 (in localhost Server) - Microsoft Internet Explorer						
TOSHIBA	SIP Trunking					
Strata	Op	timize Communi	cation			
Ccix						
Basic Configuration	Channel Group Setting	Service Definition	Service Assignment	URI		^
Advanced Configuration	— 329 Sin URI Assignment –				_	
Command Table	00 SIP URI Trunk Service Index	0	Add Modify Dem	ove		
System		•	Not Notify	010		=
Station	01 SIP URI Index	1				
Trunk	02 SIP URI	2409995831	03 SIP URI User Name			
Voice Mail	04 SIP URI Password	2409995831	05 SIP URI Channel Group	8		
Attendant						
IP-Telephony	Index URI	User Name	Password	Reg. Channel Grou	p	
🔘 System IP Data	1 2409995831		2409995831	8		
BIPU Configuratio	2 2409990002 3 2409990002			0 8		
Voice Packet Conf	4			,		
IPT Data	5					
	6					
	0					
	9					
IPI_L Prog Updati	10					
O IPT Qos	11					
IPU/IPH Config	12					
IPU/IPH VP	13					
MIPU/GIPU Log	14					
MIPU/GIPU DSP	16					
SIP Trunking	17					
IPT VLAN Setup	18					
VLAN Table	19					
	20					_
< >	27					*
Connected to cix 200	- CIX/CTX AR5.00 MR014.	00 [172.16.1.126] , S	ES 5.063.002 [172.16.1	.129]	🧐 Local intranet	
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Configuring the MIPU

- 1. Go to IP Telephony > IPU Config. Enter the public IP address of the MIPU card provided by the SIP trunk provider.
- 2. FB01 MIPU IP address. Must be a public IP address. The IP address can be static assignment or assigned by a DHCP server.
- 3. FB02 Subnet Mask. As applicable.
- 4. FB03 Default Gateway Address. From IT department.
- 5. There is only one interface on an MIPU, leave the second interface blank.

TOSHIBA		IPU/IPH Configuration	
Strata	Optimize	Communication	
Station			
Trunk	00 Cabinet & Slot Number	0103	
Attendant	01 IPU IP Address	172. 16. 1. 127	
IP-Telephony	02 IPU Subnet Address	255 . 255 . 255 . 0	
System IP Data	03 IPU Default Gateway Address	172. 16. 1. 254	
BIPU Configuration	07 Version of IPU/IPH	MIPU01_03DA100	
Voice Packet Config	09 Available IPU/IPH IP Ports	14 🛩	
IPT Data	04 LIPS IP Address	0. 0. 0. 0	
xIPU Prog Update	05 LIPS Subnet Address	0.0.0.0	
IPT_B Prog Update	06 LIPS Default Gateway Address	0.0.0.0	
IPT_L Prog Update	08 Version of LIPS		
	10 Available LIPS IP Ports	0	
PU/IPH Config	11 IPU/IPH Packet Prioritization	🔿 Enable 💿 Disable	
	12 IPUAPH Packet Prioritization Type	O Best Effort 💿 Voice	
	13 IPU/IPH VLAN	🔿 Enable 💿 Disable	
SIP Trunking	14 IPU/IPH VLAN ID	1	
IPT VLAN Setup	15 LIPS Packet Prioritization	🔿 Enable 💿 Disable	
VLAN Table	16 LIPS Packet Prioritization Type	🔿 Best Effort 💿 Voice	
LCR/DR	17 LIPS VLAN	🔿 Enable 💿 Disable	
Networking	18 LIPS VLAN ID	1	
Miscellaneous	19 IP Strata Net RTP Base Port (IPU/IPH)	20992	
External Devices	20 IP Strata Net RTP Base Port (LIPS)	20992	
FeatureFlex	Submit Print Refresh Get Defa	ault	
>			

Configuring the MIPU continued

For a static IP enter the DNS server address. This is critical to SIP trunking. The DNS server is used every time a call is made as well as during the registration process. After making all these programming entries, press the reset button on the MIPU. The new data will be absorbed by the MIPU. The MIPU will begin registration to the ISP.

- FB 22 Primary DNS IP address
- FB 23 Secondary DNS IP address

eManager Version 5.	00A07 (in localhost Server) - A	Aicrosoft Internet Explorer	
TOSHIBA		IPU/IPH Configuration	
Strata	Optimize (Communication	
			0101
Advanced Configuration	10 Available LIPS IP Ports	0	0203
Command Table	11 IPU/IPH Packet Prioritization	Enable Sisable	
System	12 IPU/IPH Packet Prioritization Type	O Best Effort	
Station	13 IPU/IPH VLAN	Enable 💿 Disable	
Trunk	14 IPU/IPH VLAN ID	1	
Voice Mail	15 LIPS Packet Prioritization	Enable Sisable	
Attendant	16 LIPS Packet Prioritization Type	Best Effort Svice	
IP-Telephony	17 LIPS VLAN	Enable Disable	
🔵 System IP Data 🗏	18 LIPS VLAN ID		
BIPU Configuratio	19 IP Strata Net RTP Base Port (IPU/IPH)	20992	
Voice Packet Confi	20 IP Strata Net RTP Base Port (LIPS)	20992	
IPT Data	21 DHCP for LIPU	C Enable	
xIPU Prog Update	22 Primary DNS Address for LIPU	129 250 35 250	
IPT_B Prog Updat	23 Secondary DNS Address for LIPU	129 250 35 251	
IPT_L Prog Updat	24 LIPIL Host Name		
	25 LIPH DNS Suffix		
	26 DHCP for LIPS	Enable Disable	
	27 Drimany DNS Address for LIDS		
MIPU/GIPU DSP	28 Secondary DNS Address for LIPS		
SIP Trunking	20 JIDS Host Name	0. 0. 0. 0	
IPT VLAN Setup			
VLAN Table			
	Submit Print Refresh Get Defau	t	
Connected to civ	200 - CTV/CTV AR5 00 MR014 00 [13	72 16 1 126] SES 5 063 002 [172 16 1 120]	l ranet
	200 - CDVCTX AK5.00 PIK014.00 [17		anec "i
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Compatibility

- MIPU16 and MIPU24
- CIX670
- CIX200
- CIX100
- CIX40

Licensing

There is a new license associated with SIP Trunking.

LIC-CIX-SIPT-CH

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