OpenScape Business V2

How to Configure SIP Trunk for Hong Kong Broadband Network (HKBN)

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Table of History

Date	Version	Changes
02.05.2017	0.1	First version
26.06.2017	0.2	Optimize document by deleting useless parts

Information

Trunk Configuration Data provided by HKBN

The configuration data needed to setup the SIP trunk can be found on the HKBN sales order and installation order form.

香港 宝頻	Bus	siness Line I	nstallatior	order Form	VOICE Order type:NEW(M Job#: 02000 Tech(IP) type:GP0 Location; 175	VIRING) DN-Huawei(FIXED IP)
BROADBAND NETWORK					ADDR#24048_11tb	173 POTT#10 , .
		Compan	y Information		States:	CALC: N
Company Name:	2017	o (7: 5)				
Account No.:	200080025			Building Code:	31622/7/70	
Contact Person:	viel MALL (TER)			Contact Tel.:	212:727:03	
Installation Address:	10028.8.2.27	<u>л тал п,но, а ца</u>	MCCOM STRUC	THOM CONTRACT	:2.9	
	20170120	Wiring/Socket In	stallation Info	ormation	101-11-11-5-5-1	120,000,000
Appointment Date:	2010/03/05		Target Time	9:		
1st Appointment Date:			Handled by	: Omra		
Follow-Up Date:			Handled by	1 North	1. Letal.	
Finish Date:			Handled by		<u></u>	
Remarks: SETTING	(SIP TRUNK	CHANNEL P	i laitaida by			
Installation Equipmen	t S	erial Number		List Driss	Oursetite	-
IAD	21	2)10 10013	アナロ	Tul 2 A L 5	Quantity	
3 COM Switch		1000 100 17	1. 71	<u>. 12 : C A 40</u>		
	0h	17485741	Bin Geo	27	1 959108310552001101 8N:4857544 51022973	92%as/NN
		Customer Ins	tallation Infor	mation		I BESTELLING
internet and the second	Testing	DN	Switch	Floor of	IP Box	IAD
Ref No	/Permane	nt Number	Port No.	IP Box	Port No	IP address

Information from ITSP – HKBN provider:

Name of customer related data	Example	Used in field of OSBiz – WBM	Needed to be configured
Call number	37046900 ~ 999		
Number of DIDs	100 (i.e. 900 ~ 999) *1	DID for subscriber	Yes
IP address / subnet mask, default router / gateway	192.168.0.101 / 24 192.168.0.1	Internet Configuration	Yes
SIP Domain	ippbx.hkbn.net	ITSP Domain Name	Yes
Ргоху	10.15.224.199	ITSP Provider Proxy	Yes
Prime number	37046900	Internet telephone station / Default number	Yes
Number of SIP channels	8	Assigned Lines	2 *2

Remarks:

- ^{*1} The digit length and range of DID number can be negotiated with ITSP (i.e. HKBN) on application
- ^{*2} The number of "Assigned Lines" are limited by "Number of SIP channels" provided by ITSP <u>and</u> "Available licenses for SIP trunk" in License Management

Configuration Setup Wizard

Internet Telephony

Go to Setup Wizards > "Central Telephony" > "Internet Telephony"

UNIFY Harmonize	prise	OpenScape Business Assistant
		expert@system <u>Logoff</u>
Home Administrators Setu	p Expert mode Data Backup License Management Service Center	
Setup		
▼ Wizards	Central Telephony	0
Basic Installation		
Network / Internet	Edit CO Trunk ISDN / Analog / ITSP Point to multipoint connections (MSNI) and PABY number for ISDN connections, and accimentation on	
Telephones / Subscribers	ITSP trunks	1
Central Telephony	Internet Telephony	
User Telephony	Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account, password, SIP	
Security		
UC Suite	Edit Voicemail Access numbers for integrated voicemail. Set up of voicemail boxes	
Circuit	Edit Phone Book / Speed Dialing Set up central speed-dial destinations for the system's internal phone book	
	Edit Multisite Management Configuration of multi-ITSP connections	
	Edit Call Detail Recording Set up call detail recording connection parameters for call detail applications	
	Edit Music on Hold / Announcements Record new melodies and announcements for Music on Hold and announcement before answering	
	Edit Entrance telephone Set up call allocation and access authorization for the entrance telephone at the analog station connection	

The overview page appears for entering the location data.

Please enter country code (i.e. "852" for Hong Kong region) with optional local area code, which is depending on number of digits on ITSP incoming calls.

The local area code will be combined with subscriber DID number as CLIP for outgoing call.

etup - Wizards - Central Telephony - Internet Telephony							
Overview							
Note: changes done in expert mode must be reviewed/repeated after ru	inning through the v	vizard.					
Note: At least the configuration of the 'Country code' is needed for featu PABX number	ures such as 'Intern	et telephony' and 'MeetMe conference'.					
Country code: 001	852	(mandatory)					
Local area code: 37046 (optional)							
PABX number:		(optional)					
Help Abort Back OK & Ne:	xt						

Click [OK & Next]

Provider configuration and activation for Internet Telephony -> uncheck "No call via Internet", use "County specific view" to select "All countries" and select "HKBN" as "Activate Provider".

Setup - Wizards -	ietup - Wizards - Central Telephony - Internet Telephony					
	Provider of	configuration and activation for Internet Telephony				
		No call via Internet: 🔲				
		Country specific view: All countries				
Note: changes done	e in expert mode must be re	eviewed/repeated after running through the wizard.				
	Activate Provider	Internet Telephony Service Provider				
Add		Other Provider				
Edit		COLT UK & Europe				
Edit		COLT VPN				
Edit		HKBN				
Edit		Skype Connect				
Edit		Verizon				
Edit		Vodafone Anlagenanschluss R3				
Help	Abort B	ack OK & Next Display Status				

Click on [Edit]

Setup - Wizards - Central Telephony - Internet Telephony	8
Internet Telephony	/ Service Provider
Provider Name:	нквл
Enable Provider:	v
Secure Trunk:	E
Domain Name:	ippbx.hkbn.net
Provider Registrar	
Use Registrar:	
IP Address / Host name:	
Port:	5060
Reregistration Interval at Provider (sec)	600
Provider Proxy	
IP Address / Host name:	10.15.224.199
Port:	5060
Provider Outbound Proxy	
Use Outbound Proxy:	
IP Address / Host name:	0.0.0
n -	
Help Abort Back OK & Next Delete Data	

Enter the data with reference to ITSP SIP trunk information, and then click [OK & Next]

Setup - Wizards - Central Telephony - Internet Telephony				
	Internet Telephony Stations for HKBN			
	Name of Internet Telephony Station			
Add	New Internet Telephony Station			

Click on [Add] to create ne	w Internet Telephony Station
-----------------------------	------------------------------

Setup - Wizards -	Central Telephon	y - Internet Telephony	×
		Internet Telephon	y Station for HKBN
		Internet telephony station:	37046900
		Authorization name:	
		Password:	
		Confirm Password:	
	If using 'configu Cha	Use public number (DID) urable clip' you have to change th nging trunk parameters in case o	e configuration to 'Use public number (DID)' here! f internal subscriber no. is not allowed!
		Default Number:	37046900
Default Number ITSP as primary CC Enter one of the cal other number is ava All call numbers su) access I numbers supplied b ilable for the respecti oplied by your networ	y your network provider here. This ve call. k provider are to be entered withi	s will be used in outgoing calls as the calling party number in case no n the trunk and telephones configuration (DID field) primary CO access.
Help	Abort	Back OK & Next	Delete Data

Enter the data of "Internet telephony station" and "Default Number" with reference to prime number of SIP trunk in general and then click [OK & Next].

Setup - Wizards	- Central Teleph	ony - Internet Te	lephony		×
		Internet T	elephony Stations fo	r HKBN	
			Name of Internet Telep	hony Station	
Edit			37046900		
Help	Abort	Back	OK & Next		

Click [OK & Next]

	tral Telepho	ony - Internet Te	lephony		E.
		Call Numbe	er Assignme	nt for HKBN	
Name of Internet Tele Station	ephony	Internet Telepho Numbe	ny Phone r	Direct inward dialing	Use as PABX number for outgoing calls
In order to complete the Subscribers configuration	configuration	on please verify t	hat the relevan	t user DIDs are s	et in stations.(Telephones /
Subscribers configuratio	,,,,				

Click [OK & Next]

Setup - Wizards	- Central Telephony - I	nternet Tel	ephony						×
	Provider	configura	tion and activ	vation	for Internet	Teleph	ony		
		No c	all via Internet: 🛛						
		Country	/ specific view:	All counti	ries	•			
Note: changes dor	ne in expert mode must be	reviewed/rep	eated after runnin	g through	the wizard.				
	Activate Provider			Interne	t Telephony	Service	Provide	r	
Add		Other Pro	vider						
Edit		COLT UK	& Europe						
Edit		COLT VP	Ν						
Edit		HKBN							
Edit		Skype Co	nnect						
Edit		Verizon							
Edit		Vodafone	Anlagenanschlus	s R3					
Help	Abort	Back	OK & Next		Display St	atus			

Click [Display Status] to verify SIP trunk for "HKBN" is activated

Setup - Wizards	- Central Teleph	iony - Internet Te	lephony				×		
	Status for the Internet Telephony Service Provider (ITSP)								
		Provider				User			
Res	tart HKBN			Enabled	37046900	registered	Diagnose		
Help	Abort	Back	ок						

Green color box means the ITSP provider is activated, click [OK] to return, then click [OK & Next] with no further input

Enter number of simultaneous Internet calls with reference to number of channels by ITSP SIP trunk <u>and</u> available license for SIP trunk in License Management, then click "Distribute Lines".

Setup - Wizards - Centr	al Telepho	ony - Internet	Telephony				×
			Settings for Inte	rnet Telepho	ony		
Simultaneous Internet Ca	alls						
Available Lines for ITSP: 2	04						
Under 'Setup - Wizards - N	letwork / Int	ernet - Internet A	ccess', you have ente	red the value Up:	stream up to	(Kbps) = 10000	
In the 'Change Feature> quality deteriorates due to	Internet Tele the network	ephony' Assistar : load, you will n	nt. This upstream allow eed to reduce this nun	vs you to conduct ober of simultane	t up to 60 Inter ous calls.	net phone calls sim	ultaneously. If the call
The number of simultaneou	us Internet C	alls also depend	ds on the licensing.				
	Nu	imber of Simulta	neous Internet Calls:	2		Distribute Lines	
Line assignment							
Internet Telephony	Service P	rovider	Configure	ed Lines		Assigne	ed Lines
HKBN			2		2		
Help A	bort	Back	OK & Next				

Click [OK & Next]

Setup - Wizards - Central Tele	ephony - Internet Telephony	×
	Special phone numbers	
Note: Please make sure that all special	I call numbers are supported by the selected provider without fail.	E
Special phone number	Dialed digits	Dial over Provider
1	7C999	HKBN 👻
2		HKBN 👻
3		HKBN 👻
4		HKBN 👻
5		HKBN 👻
6		HKBN 👻
Help Abort	Back OK & Next	

Enter special phone number; such as emergency telephone number (e.g. "999"), leading with access code for SIP trunk (e.g. "7"), then click [OK & Next] and [Next] with no further input.

Remarks:

- It is strongly recommended to select TDM trunk for emergency call out if available.
- Dial plan can be modified on LCR in Expert mode afterwards

Setup - Wizards - Central Telephony - Internet T	Telephony	×
Evolution Line Science		
Trur	nk Access Code 4900	
	Dial over Provider HKBN 👻	
Help Abort Back	OK & Next	

In this example, default Trunk Access Code was set to "4900".

Click [OK & Next] with no further input ("Trunk Access Code" was assigned on Setup Wizards)

Setup - Wizards -	Setup - Wizards - Central Telephony - Internet Telephony							
Seizure Code for the 'Outside line Seizure'								
		Seizure code for 'Outside line Seizure'						
HKBN		7						
Help	Abort	Back OK & Next						
Help	Abort	Back OK & Next						

Click [OK & Next] with no further input (Seizure code for "Outside line Seizure" was assigned on Setup Wizards)

Setup - Wizards - Central Telephony - Internet Telephony
The changes for the feature 'Internet Telephony' are completed
The Internet Telephony is switched on and configured.
Once an "Internet Telephony Service Provider" has been activated/deactivated, it is necessary to run through the "Central Telephony - CO Trunk ISDN / Analog" wizard again.
For your own security, you should save the configuration data. To do this, upon completion of the wizard, choose 'Backup' in the main menu, and follow this by choosing 'Backup Immediately'.
Help Abort Back Finish

Click [Finish] to complete setup wizard

DID configuration

The DID number range should be reference to ITSP SIP trunk information. It may assign "Callno" and "DID" with same number for easy management.

Expert mode - Telephony Se	erver							Z
Station	<u>^</u>	UP0 Stations						
▼Station		Edit	Subscriber	_	I IPO Master /Slave		Device Info	
▼UP0 Stations					or or muster join ve		Device anto	
8 921 Digital, 921	E	Callno	DID	First Name	Last Name	Display	Clip/Lin	Active
9 922 Digital, 922		Search:						
10 923 Digital, 923								
11		921 -	→ 921	921	Digital	Digital 921	-	
12		922 -	→ 922	922	Digital	Digital 922	-	_
13		022	> 022	022	Digital	Digital, 322		_
14		323	7 525	323	Digital	Digital, 925	-	=
15			? -]-		-	
16			<u>→</u> -				-	-
17		•						•
18		Page 1 of 1		н	4 1 ▶ ▶		Items per page 10	<u>25 50 100</u>
19								
20		Apply	Undo	Help				
21	-							

Hint 1:The Local area code (which is set on "Internet Telephony" setup wizard) will be used to combine with "DID" number as caller display on outbound call.

Hint 2: It is possible to change CLIP for station subscriber individually as request.

Additional Configuration

License

Add the "S2M/SIP Trunk" license to the SIP-Trunk

UNIFY Harmonize your enterprise							OpenScape Business Assistant		
								<u>Logoff</u>	
Home	Administrators	Setup	Expert mode	Data Backup	License Management	Service Center			
License	Management								
License i	information	C	O Trunks					0	
Additio	onal Products							•	
▼Local U	Jser licenses	The	access to central of	fice via PRI(S2m/T1)	trunks or via Internet telephony	is licensed by CO trunk license	S		
Overv i	iew			Available license	es for SIP and PRI(S2m/T1) trur	iks: 0			
IP Use	r	SIP	trunks						
TDM U	ser			The configured nur for each Inte	mber of simultaneous Internet c met Telephony Service Provider	alls is: 2			
Mobilit	ty User		Lice	nse number of simul	taneous Internet calls in this no	de: 2			
Desks	hare User		License demand	for number of simul	taneous Internet calls in this no	de: 2 🗸			
CO Truni	ks	PRI	(S2M/T1)					_	
System	Licenses		Type Slot	Port	Feature	Demands	used licenses		
▼ Licens	e Profiles								
Create	Profiles								
Assign	Profiles		Abort	OK & Next					
Registra	tion								

Route configuration (optional)

The route configuration will be generated automatically after setup wizard. It may change the seizure code as need.

Expert mode - Telephony Server					×
Trunks/Routing	Route				
Trunks	Change Route	Change Routing Parameters		Special Parameter change	
▼Route		change rooding rarameters		apedan araneter enange	
ISDN		Route Name:	HKBN		-
Trk Grp. 2					
Trk Grp. 3		Seizure code:	7		
Trk Grp. 4		CO code (2nd trunk code):			
Trk Grp. 5	Cotomer Location	,			
Trk Grp. 6	Gateway Location				
Trk Grp. 7		Country code:	852		8
UC Suite		Local area code:	37046		
Trk Grp. 9		PARY number:			
Trk Grp. 10		PADA humber.			
Trk Grp. 11	PABX number-incoming				
HKBN		Country code:	852		
Trk Grp. 13		Local area codo:	37046		
Trk Grp. 14		Lucal alea coue.	51040		
Trk Grp. 15		PABX number:			
Networking		ocation number:			
QSIG-Feature		Econtion number.			
MSN assign	PABX number-outgoing				
ISDN Parameters		Country code:			
		Local area code:			
	Apply Undo	Help			

In general, there is nothing change for routing parameter or special parameter

Expert mode - Telephony Se	erver				
Trunks/Routing	Route				
Trunks	Change Route	Change Routing Parameters		Special Parameter change	
▼Route					
ISDN		Name in CO:			
Trk Grp. 2					
Trk Grp. 3		Segmentation:	yes 🗸		
Trk Grp. 4		deactivate UUS per route:			
Trk Grp. 5		Alwaya uga DSP:			
Trk Grp. 6		Always use DOF.			
Trk Grp. 7					
UC Suite		Analog trunk seizure:	no pause 👻		
Trk Grp. 9		Trunk call pause:	Pause 6 s -		
Trk Grp. 10		Hunk cur puuse.	1 4430 0 3		
Trk Grp. 11		Type of seizure:	linear 👻		
HKBN		Route type:	<u> </u>		
Trk Grp. 13		route type.			
Trk Grp. 14		No. and type, outgoing:	Local area code 👻		
Trk Grp. 15		Call number type:	Direct inward dialing -		
Networking		our number type.	Direct invaria dialing +		
QSIG-Feature	Perouting				
MSN assign	Kerodung				
ISDN Parameters		Change route allowed:			
		Route optimize active:	No 👻		
	Aught Under	11-1-			
	Apply Undo	нер			

Expert mode - Telephony Ser				
Trunks/Routing	Route			
Trunks	Channe Route	Channe Routing Parameters		Special Parameter change
Route		change rooding i dianetero		
ISDN	Numbering plan			
Trk Grp. 2		Called Party Number:	System check	•
Trk Grp. 3		All others:	System shock	
Trk Grp. 4		Air others.	Gystelli check	•
Trk Grp. 5				
Trk Grp. 6		Site:	Always station	•
Trk Grp. 7		COLE		
UC Suite				
Trk Grp. 9		Notify send:	V	
Trk Grp. 10		without CLIP:		
Trk Grp. 11				
HKBN		NO SETOF ACK.		
Trk Grp. 13		no DIV.LEG-Info:		
Trk Grp. 14		With sending complete:		
Trk Grp. 15		laternal call file external.		
Networking		internal call like external.		
QSIG-Feature		Without CCNR:		
Mish assign				
ISUN Parameters				
	Apply Undo	Help		

LCR changes (optional)

There are some dial strings are generated automatically in Dial Plan after setup wizard. With reference to numbering plan for telecommunications services in Hong Kong, please update dial plan setting as need.

Expert mode - Telephony Server							×
LCR	Dial Plan						
Classes Of Service		Chan	ge Dial Plan				
Dial Plan	Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency
Routing table	1	Emergency call	70999	2 -		V	V ^
Dial rule	2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	$2 \rightarrow$			
Multisite	3			$2 \rightarrow$		1	=
	4			$2 \rightarrow$			
	5			$2 \rightarrow$			
	6			$2 \rightarrow$		$\mathbf{\nabla}$	
	7			2 →			
	8			2 🗸 🔿			
	9			2 🔹 🔿			
	10			$2 \rightarrow$			
	11			$2 \rightarrow$		\checkmark	
	12			2 →		\checkmark	
	13			2 ▼ →			
	14			2 ▼ →			
	15			$2 \rightarrow$			
	16	Services	7C185XX	$2 \rightarrow$		\checkmark	
	Page 1 of 10				Land	Inst	Trend
	Арр	ly Undo	Help				

It may assign different routing table on designated dialed digits that assign different Class of Service (COS) as toll control.

CR	Dial Plan							
LCR Flags		Chang	je Dial Plan					
Classes Of Service							-	
Pouting table	Dial Plan	Name	Dialed digits	Routing lable	Acc. code	Classes of service	Emergency	
Dial rulo	36	Local	7C90XXXXXX	2 - ->		\checkmark		-
	37	Local	7C91XXXXXXX	2 →		\checkmark		
wunishe	38	Local	7C92XXXXXX	$2 \rightarrow$				
	39	Local	7C93XXXXXX	2 -		v		
	40	Local	7C94XXXXXXX	2 -		\checkmark		
	41	Local	7C95XXXXXX	$2 \rightarrow$		\checkmark		
	42	Local	7C96XXXXXX	$2 \rightarrow$		v		П
	43	Local	7C97XXXXXX	$2 \rightarrow$				1
	44	Local	7C98XXXXXX	$2 \rightarrow$				
	45	Local	7C133XXXXXXX	$2 \rightarrow$		\checkmark		
	46	Toll	7C00Z	3 - →				L
	47	Toll	7C17Z	3 • →		\checkmark		
	48			 ▼ → 		\checkmark		
	49			 ▼ → 		\checkmark		
	50			- • →		\checkmark		
	51			$\overline{} \rightarrow$		\checkmark		
	Page 1 of 10		M 1121314	1516171819 🕨 💌	_	Items pe	er page <u>10 25 50</u> ;	100

Expert mode - Telephony Server														×
LCR	<u>^</u>	Routir	ng Table											
LCR Flags	=				_	Cha	nge Pouting T	able		_				
Classes Of Service														
Dial Plan							Pouting Ta	ble:2		en-ble	oc sending			^
▼Routing table							routing ra	516.2		611-Dic	ic sending			
1 - Table	_	Index	Dedicated	Route		Dial	Rule	min. COS	Warn	ing	Dedicated	Gateway	GW Nod	le ID
2 - Table			Route	1.11/2011				10		_				
3 - Table		1		HKBN	•	HKBN_Local	→	10 👻	None	•	No	•		
4 - Table		2		None	-	None	•	15 👻	None	-	No	-		
5 - Table		3		None	-	None	•	15 👻	None	•	No	-		
6 - Table		4		None	•	None	•	15 👻	None	•	No	•		
7 - Table		6	m	None	-	None	_	15 -	None	_	No	-		=
8 - Table		5		None	-	None		15 🗸	None	-	140	-		
9 - Table		6		None	•	None	•	15 👻	None	•	No	•		
10 - Table		7		None	•	None	•	15 👻	None	•	No	•		
11 - Table		8		None	-	None	-	15 👻	None	-	No	-		
12 - Table		9		None	•	None	•	15 💌	None	•	No	•		
13 - Table		10		Nees		Nees		10	Nees		Ne			
14 - Table		10		Ivone	•	None	•	10 ¥	None	•	INO	•		
15 - Table		11		None	•	None	•	15 👻	None	-	No	-		
16 - Table		12		None	•	None	•	15 👻	None	-	No	-		
17 - Table		13		None	-	None	-	15 👻	None	-	No	-		
18 - Table		14		None	-	None	-	15 -	None	-	No	-		
19 - Table		14		None	•	NUTE	•	15 •	NUTE	•	INU	*		
20 - Table			Apply	Undo	He	lp								
21 - Table	-													

Expert mode - Telephony Ser	ver			×							
LCR	Dial Rule										
LCR Flags		Change Dial Rule									
Classes Of Service											
Dial Plan	Rule Name	Dial rule format	Network access	Туре							
Routing table	1 CO	A	Main network supplier -	Unknown 🗸 🔺							
Dial rule	2 SIP	A	Main network supplier -	Unknown -							
Multisite	3 SIP local	HE2A	Main network supplier -	Unknown -							
	4 MEB	E1A	Corporate Network -	PABX number -							
	5 IP-Network	A	Corporate Network -	Unknown -							
	6 Multi-Location	BA	Corporate Network -	Unknown -							
	7 Gateway call	E1A	Corporate Network -	Unknown -							
	8 COInternat	E4A	Main network supplier 👻	Unknown -							
	9 Add_cc_to_Canoni	D852E2A	Main network supplier -	Country code -							
	10 National to Cano	D852E3A	Main network supplier -	Country code -							
	11 Internatto_Can	E3A	Main network supplier -	Country code -							
	12 SIP local_Canoni	HE2A	Main network supplier +	Country code -							
	13 HKBN_Local	A	Main network supplier -	Unknown -							
	14 HKBN Toll	A	Main network supplier -	Unknown -							
	15		Unknown -	Unknown -							
	16		Unknown 👻	Unknown 🗸							
	Page 1 of 11	H 12131	41516121819 🕨 💌	Items per page 10 25 50 100							
	Apply Undo	Help									

How to check the status of SIP connection with HKBN

It is supported to check with Service Center > "Diagnostics" > "Status" for ITSP registration status or restart as need.

UNIFY Harmonize your enterprise										
Home	Administrators	Setup	Expert mode	Data Backup	License Management	Service Center				
Service C	enter									
Documen	its									
Software										
Invento	ory									
SW Upd	late									
E-mail Fo	rwarding									
Remote /	Access									
Restart /	Reload									
➡ Diagnos	stics									
Status										
Event V	liewer									
Trace										
Service	Log									

Select "ITSP Status" tag to check status of SIP trunk, green color means in ready state.

Service Center -	Diagnostics - S	tatus				×
Station Status	Station Status Dialup Network Status			VPN Status	Overview of IP Addresses	BLF Status
	I	Statu	us for the Internet T	elephony Service P	rovider (ITSP)	
		Provider			User	
Resta	art HKBN		Enabled	37046900	registered	Diagnose
Help	Abort	Back	inish			

Known restrictions:

- "CLIR" is not supported by ITSP; user may dial with prefix "133" to mask caller display instead
- "CLIP no screening" is not supported by ITSP
- "COLP" is not supported by ITSP

Appendix

In general, the numbering plan for telecommunications services in Hong Kong is managed by Hong Kong Government, Office of the Communications Authority (OFCA). The details number assignment may be assigned by individual service provider.

- http://www.ofca.gov.hk/en/industry_focus/telecommunications/index.html
- https://www.hkbnes.net/en/solutions/voice/enterprise-sip-trunk.shtml