

OpenScape Business

How to Configure SIP Trunk for Netfone Hungary

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Table of History

Date	Version	Changes
19.07.2018	1.0	Released
10.09.2024	1.1	editorial changes

Note: The basis for this document is the current OpenScape Business at the time of certification. Since OpenScape Business is constantly developed, input masks and interfaces as well as requirements may change in the future. The settings and entries described here then apply accordingly.

Trunk Configuration Data provided by Netfone

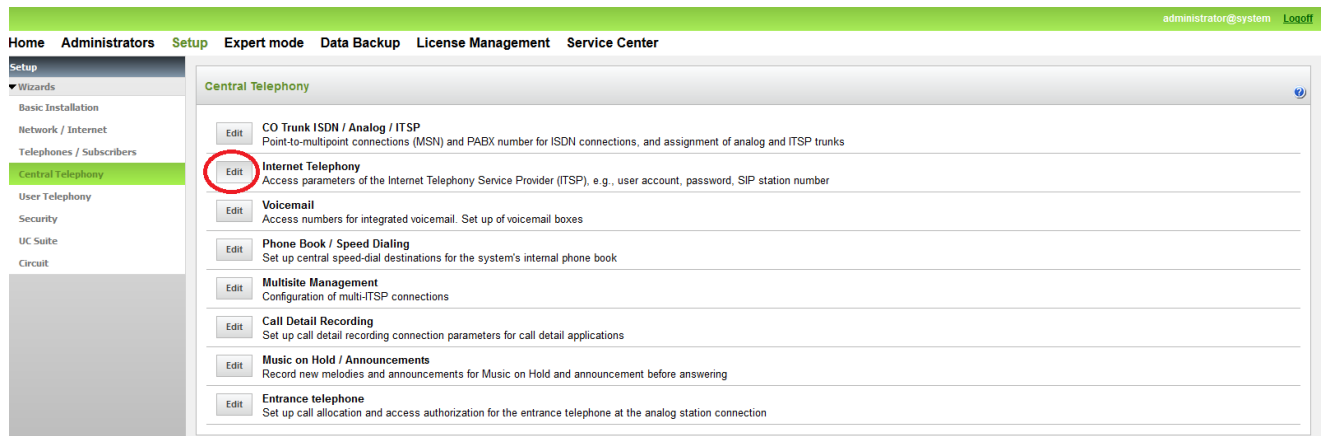
The configuration data needed to setup the SIP trunk will be sent to you via SMS:

Item	example
sip server:	sip.netfone.hu
phone number:	1696xxx
password:	xxxxxxxxx
Maximum Active Calls	4

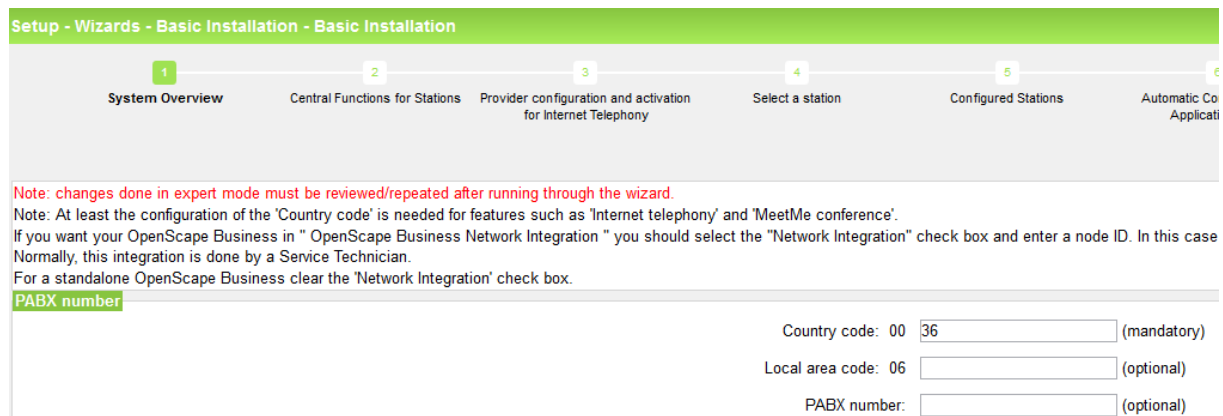
Configuration Wizard

Internet Telephony

Go to Central Telephony – “Internet Telephony“

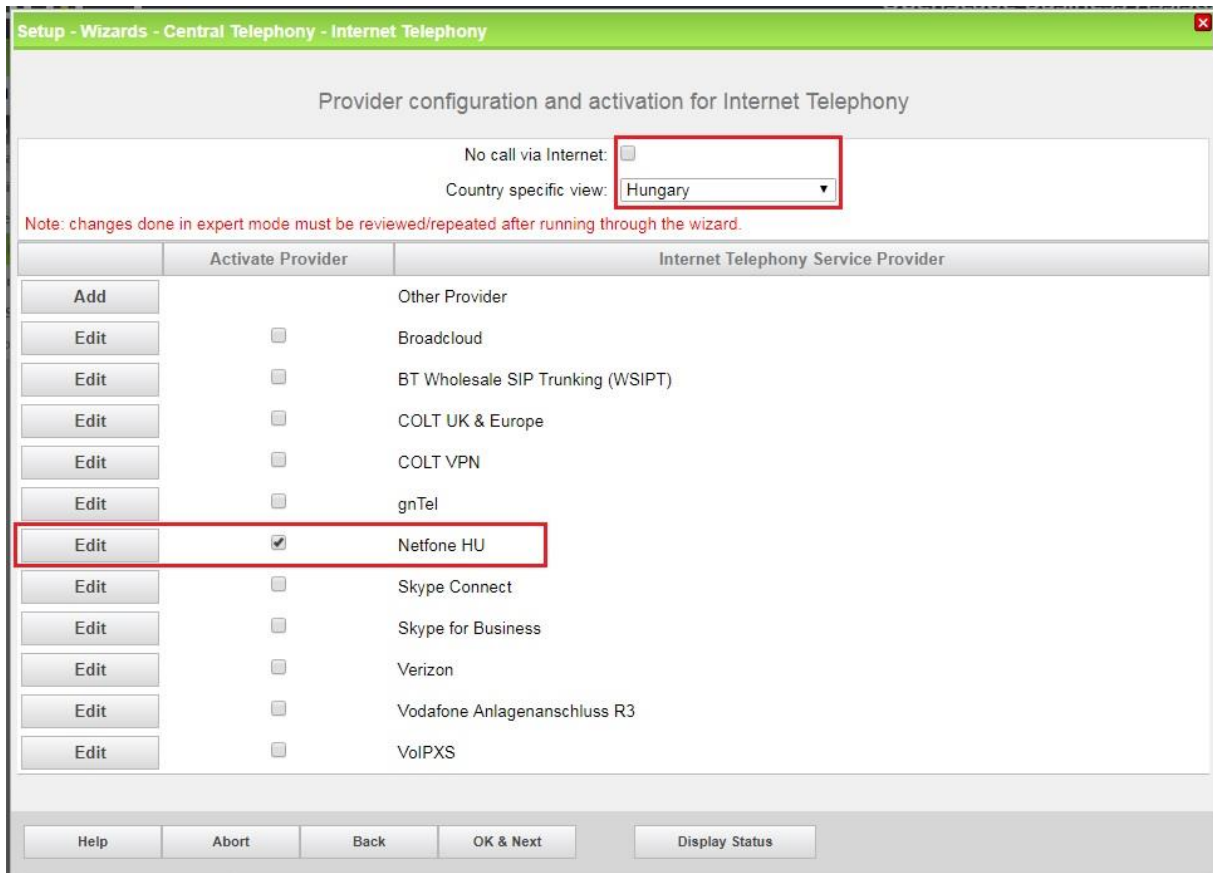


The overview page appears for entering the location data. The most flexible type of configuration is to enter the Country code only. (For Hungary Country code is 36.)



Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck
Use County specific view: Hungary and select "Netfone HU".



Activate Provider and click on [Edit].

On the next page you don't need to set anything, since all settings are pre-set:

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Provider Name: Netfone HU
Enable Provider:
Secure Trunk:
Domain Name: sip.netfone.hu

Provider Registrar

Use Registrar:
IP Address / Host name: sip.netfone.hu
Port: 5060
Reregistration Interval at Provider (sec): 600

Provider Proxy

IP Address / Host name: sip.netfone.hu
Port: 5060

Provider Outbound Proxy

Use Outbound Proxy:
IP Address / Host name: 0.0.0.0
Port: 0

Help Abort Back OK & Next Delete Data

Click [OK & Next].

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Stations for Netfone HU

Name of Internet Telephony Station	New Internet Telephony Station
Add	

Help Abort Back OK & Next

Click [OK & Next].

Call numbers has to be assigned as 'Single entries' to the Internet Telephony Station.

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Station for Netfone HU

Internet telephony station: 1696000

Authorization name: 1696000

Password: ●●●●●●

Confirm Password: ●●●●●●

Call number assignment

Use internal number (Callno) / Single entries

Internet Telephony Phone Numbers

Add 1696000

Enter all call numbers supplied by your network provider here.
Assignment of call numbers to telephones takes place in a further configuration step.

Help Abort Back OK & Next Delete Data

Data provided by Netfone via SMS, needs to be filled in the following fields:

Internet telephony station: Phone number is inserted here (e.g: 1696000)

Authorization name: Phone number is inserted here (e.g: 1696000)

Password: Password provided by Netfone

Enter the Phone number under the Internet Telephony Phone Numbers and Click [Add]

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Station for Netfone HU

Internet telephony station: 1696000

Authorization name: 1696000

Password: ●●●●

Confirm Password: ●●●●

Internet Telephony Phone Numbers

Add

Delete 1696000

Enter all call numbers supplied by your network provider here.
Assignment of call numbers to telephones takes place in a further configuration step.

Help Abort Back OK & Next Delete Data

Click [OK & Next].

If more call numbers have to be added, for each phone number assigned by Netfone a “New Internet Telephony Station” needs to be added by Clicking [Add]:

Internet Telephony Stations for Netfone HU	
	Name of Internet Telephony Station
Add	New Internet Telephony Station
Edit	1696000

Buttons: Help, Abort, Back, OK & Next

Click [OK & Next]

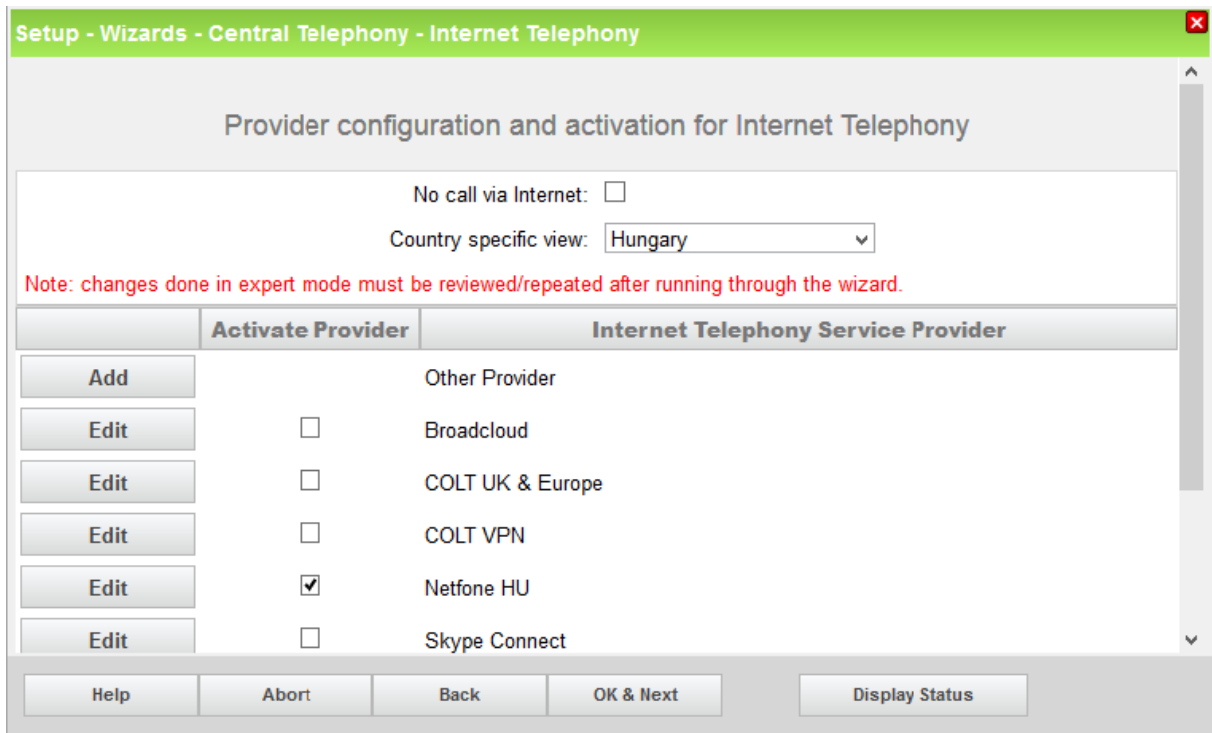
So that an internal participant or members of a call group can telephone via Internet without an "Internet Telephony Phone Number", the "Internet Telephony Phone Number" must be configured with 'Use as PABX number for outgoing calls'.

Name of Internet Telephony Station	Internet Telephony Phone Number	Internal Call Number	Use as PABX number for outgoing calls
1696000	1696000	444 -	<input checked="" type="radio"/>

Buttons: Help, Abort, Back, OK & Next

On this page you have to assign the internal call numbers to each Internet Telephony Phone Number. For one of the Telephony Phone Numbers, you must click the “Use as PABX number for outgoing calls” radio button. This number will be used as default number for cases where the originator of outgoing call has no dedicated Internet Telephony Number assigned to it.

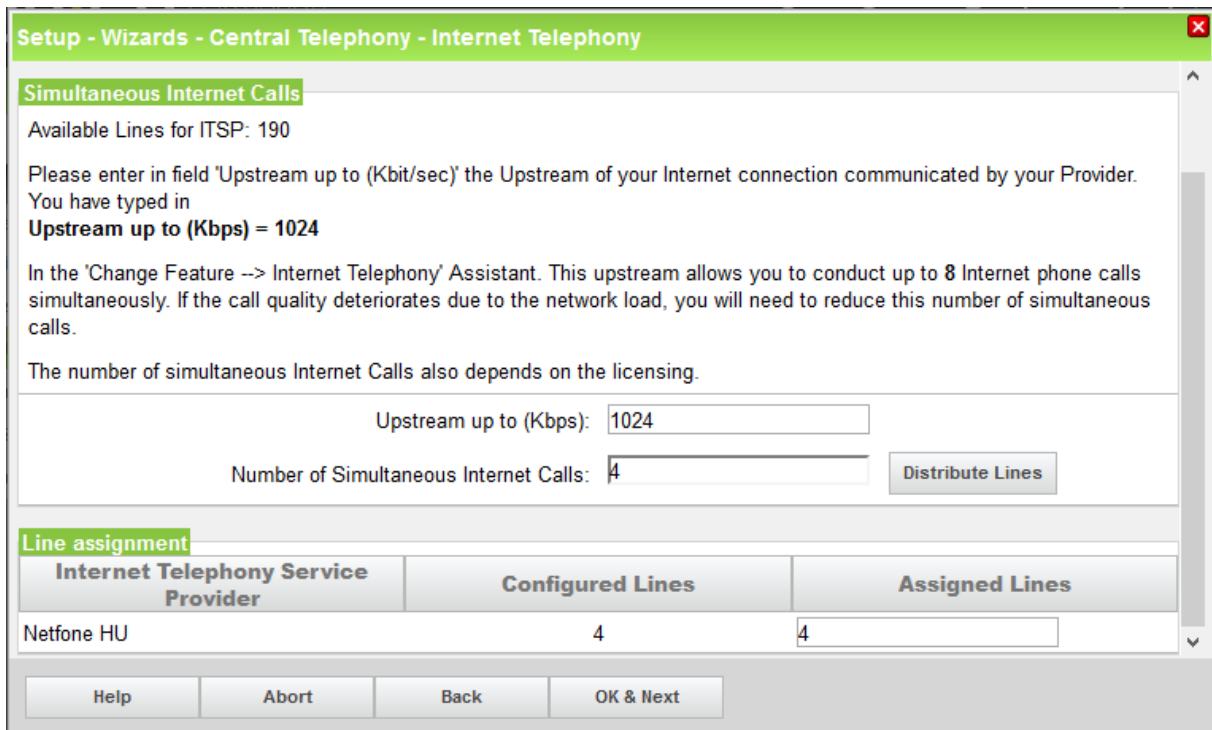
Click [OK & Next]



Click [OK & Next]

Define bandwidth (# Trunks)

The amount of simultaneous Internet (**Assigned Lines**) calls must be aligned with the **Maximum Active Calls** assigned to the Trunk Group on the Netfone SMS.



Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers.

Note:
Please make sure that all special call numbers are supported by the selected provider without fail.

Special phone number	Dialed digits	Dial over Provider
1	0C112	Netfone HU ▾
2		Netfone HU ▾
3		Netfone HU ▾
4		Netfone HU ▾
5		Netfone HU ▾
6		Netfone HU ▾
7		Netfone HU ▾
8		Netfone HU ▾
9		Netfone HU ▾
10		Netfone HU ▾
11		Netfone HU ▾

Buttons: Help, Abort, Back, OK & Next

Click [OK & Next]

On next page status of ITSP is displayed.

Status for the Internet Telephony Service Provider (ITSP)

	Provider		User	
<input type="button" value="Restart"/>	Netfone HU	Enabled	16960002	registered <input type="button" value="Diagnose"/>

Buttons: Help, Abort, Back, Next

Click [Next]

„Exchange Line Seizure“:

Select which trunk will access code 0. Enter the local area code without prefix digits (needed only when local area code was not entered in first step PBX number)

Setup - Wizards - Central Telephony - Internet Telephony

Exchange Line Seizure

Exchange Line Seizure

Trunk Access Code 0

Dial over Provider Netfone HU

Area Code

Please enter the local area code.

Local area code: 06 1

Help Abort Back OK & Next

Click [OK & Next]

Overview with all configured „Outside line Seizure“ are displayed.

Setup - Wizards - Central Telephony - Internet Telephony

Seizure Code for the 'Outside line Seizure'

	Seizure code for 'Outside line Seizure'	
Netfone HU	855	

Help Abort Back OK & Next

Click [OK & Next] and on the next page [Finish]

DID configuration

You don't need to configure DID for stations because MSN mode is selected during activation of ITSP.

Additional Configuration

License (Mandatory)

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

The screenshot shows the 'License Management' section of a web interface. The 'CO Trunks' tab is active, displaying the following information:

- Access to the Central Office via Internet telephony is licensed by CO trunk licenses
- Available licenses for SIP trunks: 248
- SIP trunks** section:
 - The configured number of simultaneous Internet calls for each Internet Telephony Service Provider is: 4
 - License number of simultaneous Internet calls in this node: 2
 - License demand for number of simultaneous Internet calls in this node: 2 (highlighted with a red box)

Codecs Settings (Mandatory)

T38 fax protocol is not supported by this provider. Fax is supported via G.711 only. For this reason you MUST disable T38 protocol under Expert Mode-Telephony server-VoiceGateway-Codec Parameters.

The screenshot shows the 'Expert mode - Telephony Server' interface, specifically the 'Codec Parameters' section. The table below lists the configured codecs and their settings:

Codec	Priority	Voice Activity Detection	Frame Size
G.711 A-law	Priority 1	VAD: <input type="checkbox"/>	20 msec
G.711 μ-law	Priority 2	VAD: <input type="checkbox"/>	20 msec
G.729A	Priority 4	VAD: <input type="checkbox"/>	20 msec
G.729AB	Priority 3	VAD: <input checked="" type="checkbox"/>	20 msec

Below the table, the 'T.38 Fax' section is expanded, showing the following settings:

- T.38 Fax:
- Use FillBitRemoval:
- Max. UDP Datagram Size for T.38 Fax (bytes): 1472
- Error Correction Used for T.38 Fax (UDP): t38UDPRedundancy

The 'Misc.' section shows:

- ClearChannel:
- Frame Size: 20 msec

The 'RFC2833' section shows:

- Transmission of Fax/Modem Tones according to RFC2833:
- Transmission of DTMF Tones according to RFC2833:
- Payload Type for RFC2833: 98
- Redundant Transmission of RFC2833 Tones according to RFC2198:

Route configuration (optional)

The route configuration will be created automatically. Not necessary to edit/change anything there.

LCR changes (optional)

All necessary LCR rule will be created automatically. Not necessary to edit/change anything there.

Known restrictions:

If a fax device is connected behind Mediatrix VOIP Gateway or any other SIP terminal Adaptor, T38 protocol MUST be disabled on the Terminal Adaptor

Example for Mediatrix is following:

web administration portal :

The screenshot shows the Mediatrix web administration portal. The navigation menu includes System, Network, POTS, SIP, Media, Telephony, and Call Router. The Codecs section is active, showing a table of codec settings for Voice and Data, and a Generic Voice Activity Detection (VAD) section.

Codec	Voice	Data	Advanced
G.711 a-Law	Enable ▼	Enable ▼	Edit
G.711 u-Law	Enable ▼	Enable ▼	Edit
G.726 16Kbps	Disable ▼		Edit
G.726 24Kbps	Disable ▼		Edit
G.726 32Kbps	Disable ▼	Disable ▼	Edit
G.726 40Kbps	Disable ▼	Disable ▼	Edit
G.729	Enable ▼		Edit
T.38		Disable ▼	Edit
Clear Mode	Disable ▼	Disable ▼	Edit
Clear Channel	Disable ▼	Disable ▼	Edit
X CCD	Disable ▼	Disable ▼	Edit

Generic Voice Activity Detection (VAD)

Enable (G.711 and G.726): Conservative ▼

Submit