# **OpenScape Business**

How to Configure SIP Trunk for Netfone Hungary

# **Table of Contents**

| Trunk Configuration Data provided by Netfone | 3  |
|--|----|
| Configuration Wizard                         | 4  |
| Internet Telephony                           | 4  |
| Special phone numbers                        | 10 |
| DID configuration                            | 1  |
| Additional Configuration 1                   | 12 |
| License (Mandatory)1                         | 12 |
| Codecs Settings (Mandatory) 1                | 12 |
| Route configuration (optional)1              | 12 |
| LCR changes ( optional)1                     | 12 |
| Known restrictions:                          | 13 |

## **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:            | XXXXXXXX       |
| Maximum Active Calls | 4              |

# **Configuration Wizard**

#### **Internet Telephony**

Go to Central Telephony – "Internet Telephony"

|  |  | administrator@system Logoft |
|--|--|-----------------------------|
| Home Administrators Se                         | etup Expert mode Data Backup License Management Service Center   |                             |
| Setup  |  |                             |
| ▼ Wizards                                      | Central Telephony  | ()                          |
| Basic Installation                             |  |                             |
| Network / Internet<br>Telephones / Subscribers | Edit CO Trunk ISDN / Analog / ITSP<br>Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and assignment of analog and ITSP trunks |                             |
| Central Telephony                              | Edit Internet Telephony<br>Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account, password, SIP station number           |                             |
| User Telephony                                 | Edit Voicemail   |                             |
| Security                                       | Access numbers for integrated voicemail. Set up of voicemail boxes   |                             |
| UC Suite<br>Circuit                            | Edit Phone Book / Speed Dialing<br>Set up central speed-dial destinations for the system's internal phone book   |                             |
|  | Edit Multisite Management<br>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<br>Record new melodies and announcements for Music on Hold and announcement before answering                            |                             |
|  | Edit Entrance telephone<br>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. The most flexible type of configuration is to enter the Country code only. (For Hungary Country code is 36.)

| Setup ·                                    | · Wizards - Basic Installa  | tion - Basic Installation           |  |   |                          |   |
|--|---|-------------------------------------|--|---|--------------------------|---|
|  | 1<br>System Overview  | 2<br>Central Functions for Stations | 3<br>Provider configuration and activation<br>for Internet Telephony       | 4<br>Select a station                                   | 6<br>Configured Stations | e<br>Automatic Co<br>Applicati          |
| Note: A<br>If you w<br>Normall<br>For a st | t least the configuration of the<br>ant your OpenScape Busines<br>y, this integration is done by<br>andalone OpenScape Busine | ss in " OpenScape Business I        | features such as 'Internet telephon<br>Network Integration " you should se |   | check box and enter a no | de ID. In this case                     |
| PABX r                                     | number  |                                     |  | Country code: 00<br>Local area code: 06<br>PABX number: | 36                       | (mandatory)<br>(optional)<br>(optional) |

Click [OK & Next].

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

| Setup - Wizards - | Central Telephony - Inter    | net Telephony   |
|-------------------|------------------------------|---|
|                   | Provi                        | der configuration and activation for Internet Telephony   |
| Note: changes dor | ne in expert mode must be re | No call via Internet:<br>Country specific view:<br>Hungary<br>viewed/repeated after running through the wizard. |
|                   | Activate Provider            | Internet Telephony Service Provider   |
| Add               |                              | Other Provider  |
| Edit              |                              | Broadcloud  |
| Edit              |                              | BT Wholesale SIP Trunking (WSIPT)   |
| Edit              |                              | COLT UK & Europe  |
| Edit              |                              | COLT VPN  |
| Edit              |                              | gnTel   |
| Edit              |                              | Netfone HU  |
| Edit              |                              | Skype Connect   |
| Edit              |                              | Skype for Business  |
| Edit              |                              | Verizon   |
| Edit              |                              | Vodafone Anlagenanschluss R3  |
| Edit              |                              | VoIPXS  |
|                   |                              |   |
| Help              | Abort Ba                     | ck OK & Next Display Status   |

Activate Provider and click on [Edit].

| Setup - Wizards - Central Telephony - Internet Telephony |                    |
|--|--------------------|
| Internet Telephon  | y Service Provider |
| Provider Name:   | Netfone HU         |
| Enable Provider:   | 0                  |
| Secure Trunk:  |                    |
| Domain Name:   | sip.netfone.hu     |
| Provider Registrar<br>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     |
|  | 5060               |
| Provider Outbound Proxy Use Outbound Proxy:              |                    |
| IP Address / Host name:                                  | 0.0.0.0            |
| Port:  | 0                  |
|  |                    |
| Help Abort Back OK & Next                                | Delete Data        |

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

Click [OK & Next].

| Setup - Wizards | - Central Teleph | iony - Internet Tel | ephony    |  | 8 |
|-----------------|------------------|---------------------|-----------|--|---|
|                 |                  |                     | Inter     | rnet Telephony Stations for Netfone HU |   |
|                 |                  |                     |           | Name of Internet Telephony Station     |   |
| Add             | ]                |                     |           | New Internet Telephony Station         |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
|                 |                  |                     |           |  |   |
| Help            | Abort            | Back                | OK & Next |  |   |

Click [OK & Next].

| Setup - Wizard | is - Central Telephony - Internet Telephony |                        | E |
|----------------|---|------------------------|---|
|                | Internet Telephony S                        | tation for Netfone HU  |   |
|                | Internet telephony station:                 | 1696000                |   |
|                | Authorization name:                         | 1696000                |   |
|                | Password:                                   | •••••                  | ] |
|                | Confirm Password:                           | •••••                  |   |
| Call number as | signment<br>Use internal number (Callno)    | ) / Single entries     |   |
|                | Internet                                    | Telephony Phone Number | S |
| Add            | 1696000                                     |                        |   |
|                |   |                        |   |
| Help           | Abort Back OK & Next Delete Da              | ata                    |   |

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

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]

|        | Internet telephony station: | 1696000                |  |
|--------|-----------------------------|------------------------|--|
|        | Authorization name:         | 1696000                |  |
|        | Password:                   |                        |  |
|        | Confirm Password:           |                        |  |
|        | Internet 1                  | elephony Phone Numbers |  |
| Add    |                             |                        |  |
| Delete | 1696000                     |                        |  |

Click [OK & Next].

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

| Setup - Wizards | - Central Teleph | ony - Internet Te | lephony              |               |
|-----------------|------------------|-------------------|----------------------|---------------|
|                 | Interr           | net Telephony     | Stations for Ne      | etfone HU     |
|                 |                  | Name              | of Internet Telep    | phony Station |
| Add             |                  | N                 | ew Internet Telephor | ny Station    |
| Edit            |                  |                   | 1696000              |               |
|                 |                  |                   |                      |               |
| Help            | Abort            | Back              | OK & Next            |               |

Click [OK & Next]

| Setup - Wizards - Central             | Telephony - Internet Telephony<br>Call Number Assignmen                        | t for Netfone HU     |  |
|---------------------------------------|--|----------------------|--|
|                                       | or members of a call group can telepho<br>ony Phone Number" must be configured |                      |  |
| Name of Internet Telephony<br>Station | Internet Telephony Phone Number  | Internal Call Number | Use as PABX number for<br>outgoing calls |
| 1696000                               | 1696000  | 444 - v              | ۲  |
|                                       |  |                      |  |
| Help Abo                              | rt Back OK & Ne  | xt                   |  |

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]

| Setup - Wizards   | - Central Telephony    | - Internet Te     | lephony             |         |                    | × |
|-------------------|------------------------|-------------------|---------------------|---------|--------------------|---|
|                   |                        |                   |                     |         |                    | ^ |
|                   | Provider config        | juration and      | d activation for    | Inter   | net Telephony      |   |
|                   |                        | No call via Inte  | rnet: 🗆             |         |                    |   |
|                   | C                      | ountry specific v | view: Hungary       |         | ~                  |   |
| Note: changes dor | ie in expert mode must | be reviewed/rep   | eated after running | through | the wizard.        |   |
|                   | Activate Provider      |                   | Internet Te         | lephon  | y Service Provider |   |
| Add               |                        | Other Provide     | r                   |         |                    |   |
| Edit              |                        | Broadcloud        |                     |         |                    |   |
| Edit              |                        | COLT UK & E       | urope               |         |                    |   |
| Edit              |                        | COLT VPN          |                     |         |                    |   |
| Edit              | ✓                      | Netfone HU        |                     |         |                    |   |
| Edit              |                        | Skype Conne       | ct                  |         |                    | ~ |
| Help              | Abort                  | Back              | OK & Next           |         | Display Status     |   |

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.

| Setup - Wizards - Centr  | al Telephon     | y - Internet Te    | lephony             |                 |   | × |
|--|-----------------|--------------------|---------------------|-----------------|---|---|
| Simultaneous Internet Ca<br>Available Lines for ITSP: 19                             |                 |                    |                     |                 |   | ^ |
| Please enter in field 'Upstre<br>You have typed in<br><b>Upstream up to (Kbps)</b> = |                 | it/sec)' the Upstr | eam of your Interne | et connection c | ommunicated by your Provider.                                       | 1 |
| <b>.</b>   |                 | -                  |                     |                 | uct up to 8 Internet phone calls<br>uce this number of simultaneous |   |
| The number of simultaneou  | is Internet Cal | ls also depends    | on the licensing.   |                 |   |   |
|  | Up              | ostream up to (Kt  | ops): 1024          |                 |   |   |
| Num  | ber of Simulta  | aneous Internet C  | alls: 4             |                 | Distribute Lines  |   |
| Line assignment  |                 |                    |                     |                 |   |   |
| Internet Telephony<br>Provider   | Service         | Conf               | figured Lines       |                 | Assigned Lines  |   |
| Netfone HU   |                 |                    | 4                   | 4               |   | ~ |
| Help A   | lbort           | Back               | OK & Next           |                 |   |   |

Click [OK & Next]

## **Special phone numbers**

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

| etup - Wizards - Centr    | al Telephony - Internet Telephony           |                               |
|---------------------------|---|-------------------------------|
| Note:                     |   |                               |
| Please make sure that all | pecial call numbers are supported by the se | lected provider without fail. |
| Special phone number      | Dialed digits                               | s 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 🗸                  |
| Help A                    | bort Back OK & Next                         |                               |

#### Click [OK & Next]

#### On next page status of ITSP is displayed.

| Setup - Wizards | - Central Telepho | ony - Interr | net Telepho | ony        |                   | ×        |
|-----------------|-------------------|--------------|-------------|------------|-------------------|----------|
|                 | Status for        | the Interr   | net Telepl  | nony Servi | ce Provider (ITSP | )        |
|                 | Provide           | r            |             |            | User              |          |
| Restart         | Netfone HU        |              | Enabled     | 16960002   | registered        | Diagnose |
|                 |                   |              |             |            |                   |          |
|                 |                   |              |             |            |                   |          |
|                 |                   |              |             |            |                   |          |
| 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 Telepho | ony - Internet Telepho | ny 🗵         |
|----------------------------------|-------------------|------------------------|--------------|
| Exchange Line Se                 | aizura            | Exchange L             | ine Seizure  |
|                                  | GIZUIG            | Trunk Access Code      | 0            |
|                                  |                   | Dial over Provider     | Netfone HU v |
| Area Code<br>Please enter the lo | ocal area code.   |                        |              |
|                                  |                   | Local area code: 06    | 1            |
|                                  |                   |                        |              |
| Help                             | Abort             | Back Ol                | (& Next      |

Click [OK & Next]

|                 | an configured "  | Outside line 5   | eizure are uispi            | ayeu.         |
|-----------------|------------------|------------------|-----------------------------|---------------|
| Setup - Wizards | - Central Teleph | ony - Internet 1 | Telephony                   |               |
|                 | Se               | eizure Code fo   | or the 'Outside             | line Seizure' |
|                 |                  |                  | for 'Outside line<br>izure' |               |
| Netfone HU      |                  | 855              |                             |               |
|                 |                  |                  |                             |               |
|                 |                  |                  |                             |               |
| Help            | Abort            | Back             | OK & Next                   |               |

Overview with all configured "Outside line Seizure" are displayed.

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

|                            |       |                       |                      |                                    |                                       | administrator@sys | tem <u>Loqoff</u> |
|----------------------------|-------|-----------------------|----------------------|------------------------------------|---------------------------------------|-------------------|-------------------|
| Home Administrators        | Setup | Expert mode           | Data Backup          | License Ma                         | anagement                             | Service Center    |                   |
| License Management         |       |                       |                      |                                    |                                       |                   |                   |
| License information        | C     | O Trunks              |                      |                                    |                                       |                   | ()                |
| Additional Products        |       |                       |                      |                                    |                                       |                   |                   |
| OpenScape Personal Edition | Ace   | cess to the Central O |                      | · · · ·                            | · · · · · · · · · · · · · · · · · · · | censes            |                   |
| Local User licenses        | SI    | P trunks              | Available license    | s for SIP trunks:                  | 248                                   |                   |                   |
| CO Trunks                  | 31    |                       | umber of simultaneo  | us Internet calls                  |                                       |                   |                   |
| System Licenses            |       | · · · · ·             | ternet Telephony Ser |                                    | 4                                     |                   |                   |
| ▼License Profiles          |       | License number        | of simultaneous Inte | rnet calls in this                 | 0                                     |                   |                   |
| Create Profiles            |       |                       |                      | node:                              | 2                                     |                   |                   |
| Assign Profiles            | L     | License demand for n  | umber of simultaneo  | us Internet calls<br>in this node: | 2 🗸                                   |                   |                   |

#### **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.

| Voice Gateway                       |                        |  |                          |                       |          |
|-------------------------------------|------------------------|--|--------------------------|-----------------------|----------|
| SIP Parameters                      | Codec Parameters       |  |                          |                       |          |
| ITSP Loc-ID Settings                |                        | Edit Codec Parameter                     |                          |                       |          |
| Codec Parameters                    | Codec                  | Priority                                 | Voice Activity Detection | Frame Size            |          |
| Destination Codec Parameters        | G.711 A-law            | Priority 1 v                             | VAD:                     |                       | 20 v mse |
| Internet Telephony Service Provider | G.711 µ-law            | Priority 2 ¥                             |                          |                       | 20 v mse |
| Networking                          |                        |  |                          |                       |          |
| SIPQ-Interconnection                | G.729A                 | Priority 4 🗸                             |                          |                       | 20 v mse |
| Native SIP Server Trunk             | G.729AB                | Priority 3 v                             | VAD: 🗹                   |                       | 20 ∨ mse |
|                                     | T.38 Fax               |  |                          |                       |          |
|                                     |                        | T.38 Fax:                                |                          |                       |          |
|                                     |                        | Use FillBitRemoval:                      | 4                        |                       |          |
|                                     | Max                    | UDP Datagram Size for T.38 Fax (bytes):  | 1472                     |                       |          |
|                                     | Wax                    |  |                          |                       |          |
|                                     |                        | Error Correction Used for T.38 Fax (UDP) | t38UDPRedundancy v       |                       |          |
|                                     | Misc.                  |  |                          |                       |          |
|                                     |                        | ClearChannel:                            | <b>v</b>                 | Frame Size: 20 v msec |          |
|                                     | RFC2833                |  |                          |                       |          |
|                                     |                        | Fax/Modem Tones according to RFC2833:    |                          |                       |          |
|                                     |                        |  |                          |                       |          |
|                                     | Iransmiss              | sion of DTMF Tones according to RFC2833: |                          |                       |          |
|                                     |                        | Payload Type for RFC2833:                | 98                       |                       |          |
|                                     | Redundant Transmission | of RFC2833 Tones according to RFC2198:   | <b>v</b>                 |                       |          |
|                                     |                        |  |                          |                       |          |
|                                     |                        |  |                          |                       |          |
|                                     |                        |  |                          |                       |          |
|                                     | Apply Undo             | Help                                     |                          |                       |          |

#### **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 :

|                              | Codecs Security | RTP Statistics   | Misc     |  |
|------------------------------|-----------------|------------------|----------|--|
| Codecs                       |                 |                  |          |  |
| ect Endpoint: Default 🔻      |                 |                  |          |  |
| 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     |  |
| т.38                         |                 | Disable 🔻        | Edit     |  |
| Clear Mode                   | Disable 🔻       | Disable 🔻        | Edit     |  |
| Clear Channel                | Disable 🔻       | Disable 🔻        | Edit     |  |
| X CCD                        | Disable 🔻       | Disable 🔻        | Edit     |  |
| Generic Voice Activity Detec | tion (VAD)      |                  |          |  |
| Enable (G.711 and G.726):    |                 | rvative <b>T</b> |          |  |