

OpenScape Business

How To Configure SIP Trunk for your ITSP (SIGNET NL)

Table of Contents

Configuration Data	3
Configuration Wizard	4
Internet Telephony	4
Define bandwidth (# Trunks)	8
Special phone numbers	8
Multisite configuration	10
DID configuration	10
Multisite Table	11
Additional manual Configuration	12
LCR settings	12
Route configuration	13
Troubleshooting/Maintenance	14
Status OpenScape Business	14
How to get Traces in case of problem	16
Wireshark traces	16
Internal traces	

Table of History

Date	Version	Changes
2016-06-21	1.0	First version
2016-07-15	1.1	Updated to final tests
2016-09-30	1.2	Update contents
2024-09-06	1.3	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.

Configuration Data

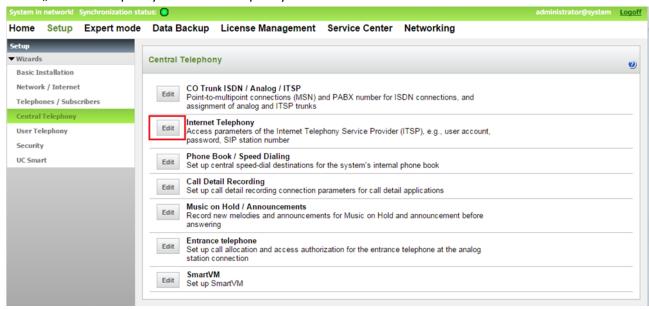
Information from ITSP **SIG**NET provided:

Name	Example
Call Number:	(085) 7470048 0049 ,0028 0407470093
Number of DID digits:	9
SIP Domain:	Sip.wlvoip.net
SBC_IP:	31.226.168.234 UDP 5060
digest Auth.:	Yes
SIP Username:	certifytest01
SIP Passwort:	*****
Clip no Screening:	no
Number of voice-channels:	8

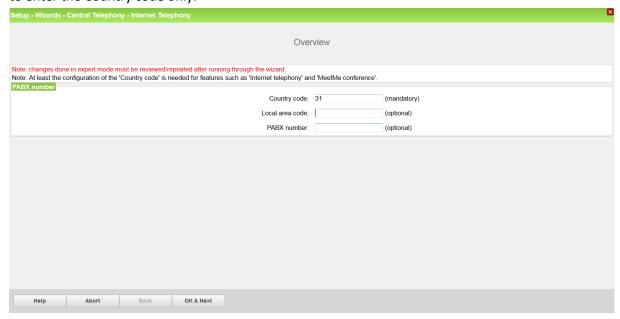
Configuration Wizard

Internet Telephony

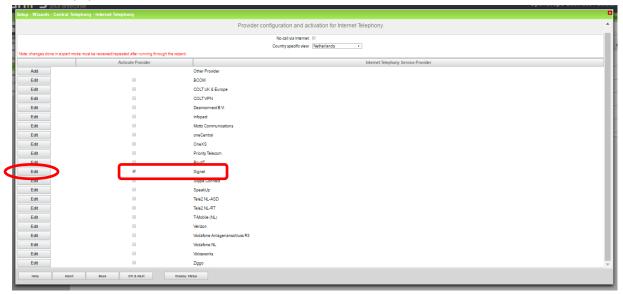
Go to "Central Telephony – Internet Telephony"



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

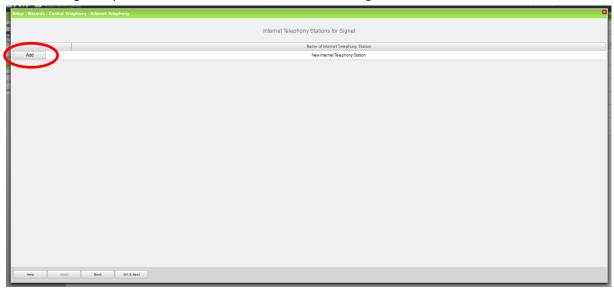


As outgoing number only the port assigned phone numbers are used. In this case, remaining digits are filled in DID field. Click [OK & Next] Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck Use County specific view: Netherlands and select **SIG**NET.



Activate Provider and click on [Edit].

In this dialog the specific customer SIP Userdata will be configured.



Click on [Add].

Data provided by ITSP SIGNET is inserted here.

Internet telephony station: SIP Username is inserted here (gebruikersnaam / account)
Authorization name: SIP Username is inserted here (gebruikersnaam / account)

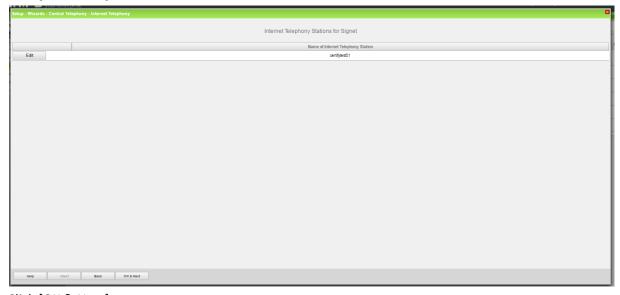
Password: Password provided by ITSP SIGNET. (wachtwoord)

Default number: Main number of connection. The default number is used as outgoing

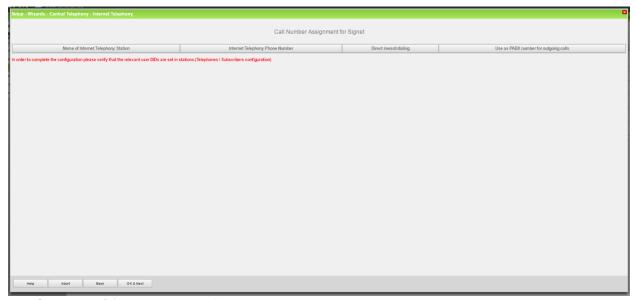
number when no DDI number is assigned to a station,.



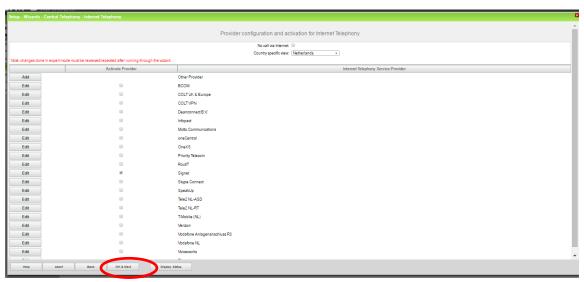
Click [OK & Next].



Click [OK & Next].

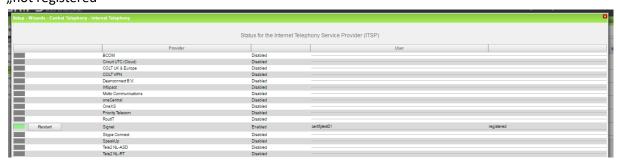


Click [OK & Next] (no input needed)



Click on "Display Status"

Next page status of ITSP is displayed. In case of a wrong SBC Address in Expert mode status of ITSP is "not registered"



Define bandwidth (# Trunks)

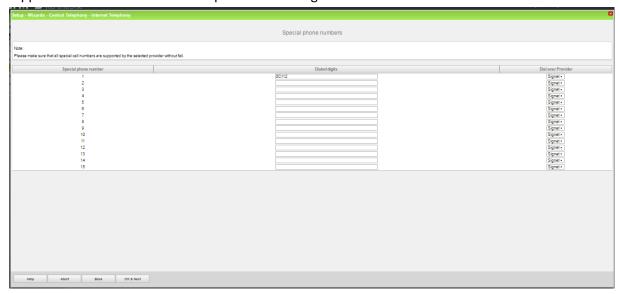
In the next part the number of simultaneous calls via the SIP trunk will be defined. The calculation of the number of trunks is done by the wizard automatically depending on the bandwidth. For each 128K, one trunk is created.

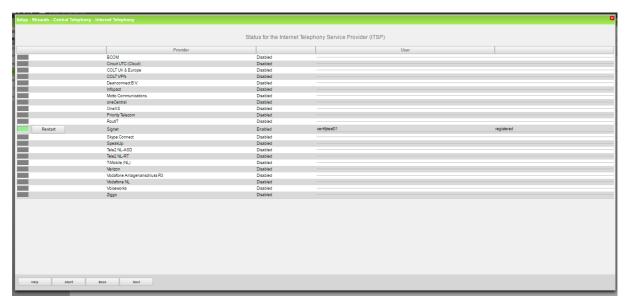


Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers. When special phone numbers are not supported over the ITSP route it is possible to change this here.





After this status page two more dialogs with "Exchange Line Seizure" and an overview with all configured "Outside line Seizure" are displayed.

Multisite configuration

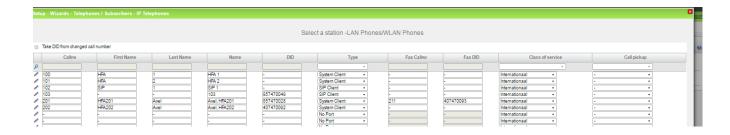
Multi-site refers to the integration of currently up to 8 different local area codes in a single system via the same or different ITSP connections. (For example, numbers from Rotterdam 010 xxx, Amsterdam 020, etc.). All up to 8 area codes <u>must</u> be within one country.

Additional configuration notes:

DID configuration

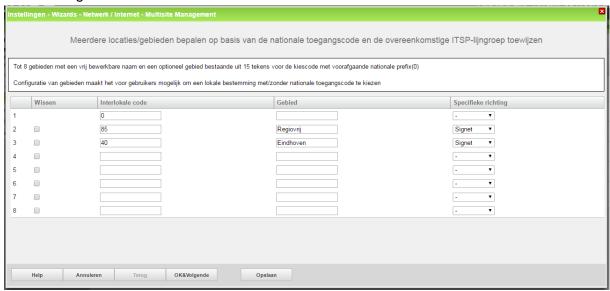
In general the DID has to be configured in long format. E.g. Axel HFA201 857470028 for a user regionfree, Axel HFA202 407470092 for user in Eindhoven.

The country code 31 has to be configured as described before.

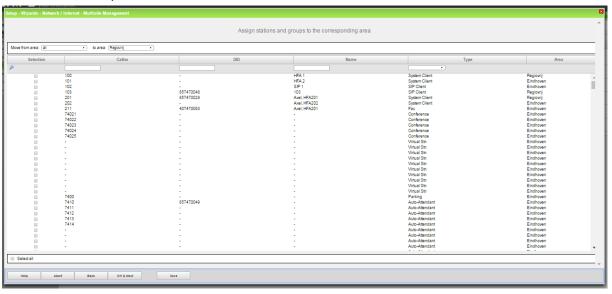


Multisite Table

The Multisite wizard is available when at least one ITSP is active. In expert mode Multisite can be found in the LCR configuration. Here you define which phone uses which area code when dialing without local area code.



Edit Stations/Groups

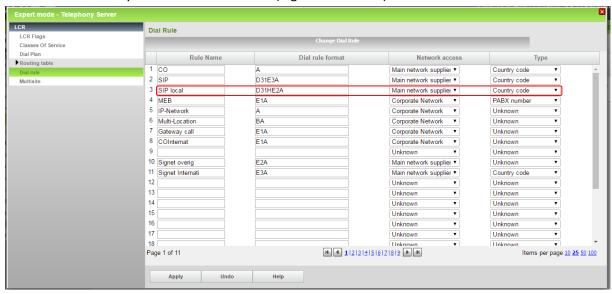


Additional manual Configuration

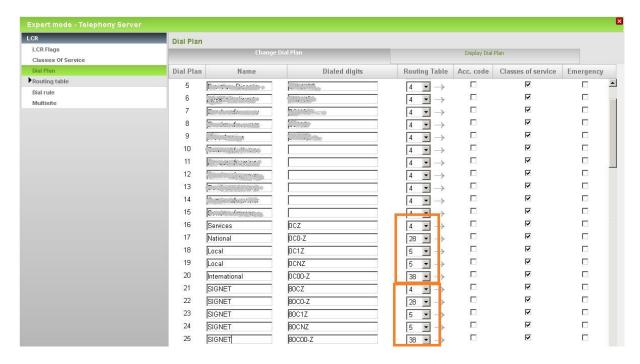
LCR settings

Important "Dial rule format settings" for local calls for OSBiz software <V2R2.

You need to modify the LCR Rules (more specifically the Dial rule format) in the way so as the dialed number will be finally sent with E.164 format (e.g:+3185xxxxxxxx)



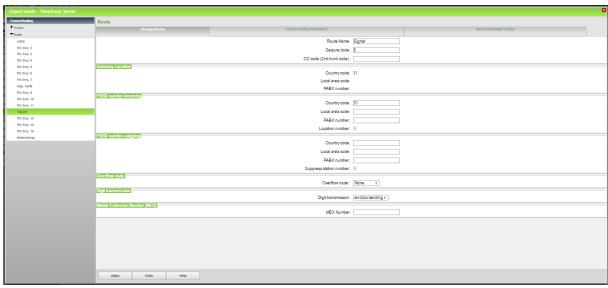
In case of sw>=V2R2, the default LCR rules (Dialed digits, Routing tables and Dial Rule formats) have been modified in order to avoid doing further manual configuration. Consequently, it's not necessary to change anything since the default values are well applied with SIGNET. The LCR will look like the screen below.



Route configuration

After activation of SIGNET profile, the Route settings (e.g No. And type outgoing, call number with or without national/international prefix) are automatically applied properly. So you have nothing to configure in addition.

If don't keep the default seizure code, this can be changed at will (like in the example screenshot below). But then you have to double check again the LCR entries for Dialed Digits settings, since the setup of new seizure code will modify the front part of Dialed digits (before the separator 'C') for the entries which are used by the route of SIGNET .

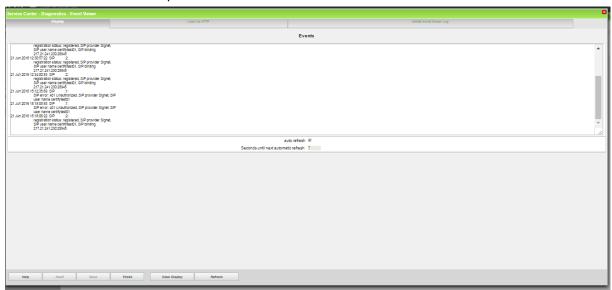


Troubleshooting/Maintenance

Status OpenScape Business

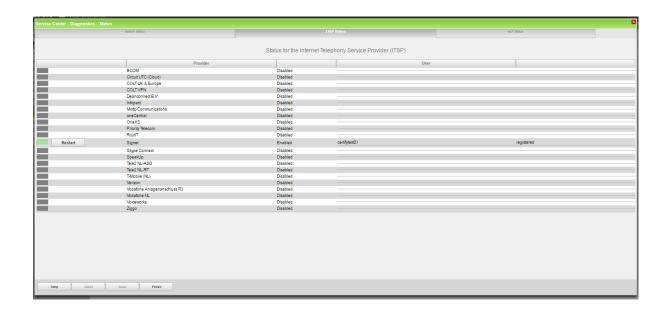
In the service center there is some information to check the status of the provider.

The Event Viewer shows important information about the ITSP.



"Status" provides information about the registration status of the ITSP. The ITSP registration can also be restarted here.





How to get Traces in case of problem

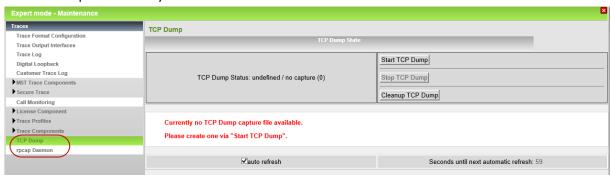
Wireshark traces

A Wireshark trace helps you to analyses SIP issues very easily. It is possible to start traces on the system which can be analyzed via Wireshark.

Expert mode / maintenance / traces

TCP Dump: Create max. 5 files with PCAP which can be downloaded afterwards and opened in Wireshark.

Rpcap Daemon: Will start the rpcap daemon and open a server port which allows direct remote access from protocol analyzers like Wireshark.



Internal traces

For a better analyses of problems internal system traces will be needed. Trace profiles are already pre-configured to make it easier to capture internal traces.

When issues with ITSP's occurs, the following trace profiles should be activated:

- Basic
- Voice_Fax_Connection
- SIP_Interconnection_Subscriber_ITSP

In case there are issues with the registration of an ITSP the following trace profile should also be activated.

SIP_Registration

The relevant traces can be downloaded via Service Center –Diagnostics-Trace menu.

