# OpenScape Business

## How to Configure SIP Trunk for COSMOTE

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## **Table of History**

Date	Version	Changes
26-09-2016	1.0	First version
02-10-2016	1.1	Final version
05-09-2024	1.2	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**

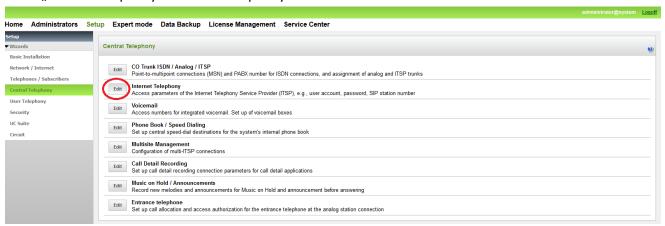
Information from ITSP COMOTE GR provided:

Name	Example
Call Number:	2142163500 - 09
Number of DID digits:	3
SIP Domain:	Ims.otenet.gr
SBC_IP:	n/a
digest Auth.:	Yes
SIP Username:	+302142163500@ims.otenet.gr
SIP Passwort:	******
Clip no Screening:	yes
Number of voice-channels:	4

#### **Configuration Wizard**

#### **Internet Telephony**

Go to "Central Telephony - Internet Telephony"

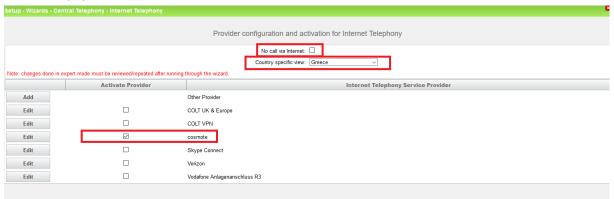


The overview page appears for entering the location data. The most flexible type of configuration is to enter the Country code only.



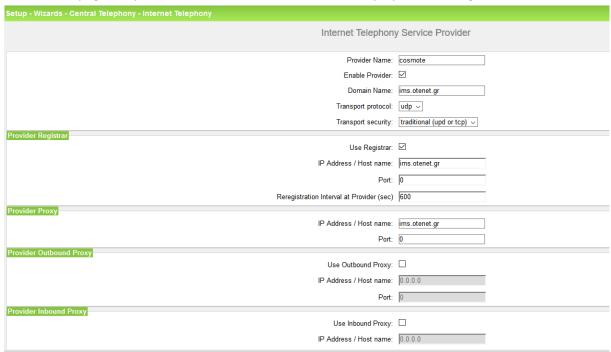
Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck Use County specific view: Greece and select COSMOTE.



Activate Provider and click on [Edit].

On the next page the predefined servers for COSMOTE are displayed, no changes are needed here.



Click [OK & Next].

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



Click on [Add].

Data provided by ITSP COSMOTE is inserted here.

Internet telephony station: SIP Username without domain name is inserted here (e.g.

+302142163500)

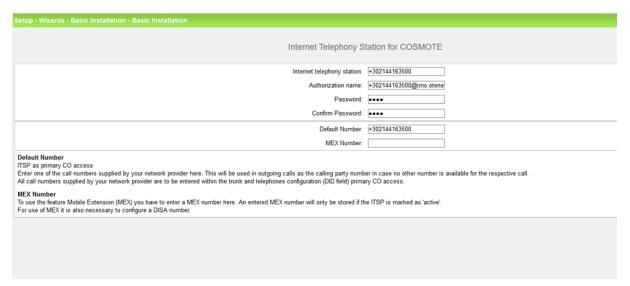
Authorization name: SIP Username is inserted here (e.g: +302142163500@ims.otenet.gr)

Password: Password provided by COSMOTE

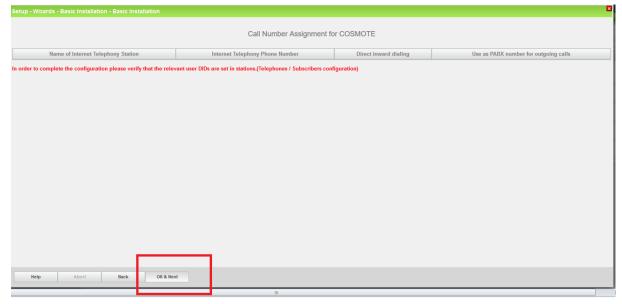
Default number: Main number of connection. The default number is used as outgoing

number when no DDI number is assigned to a station. (e.g:

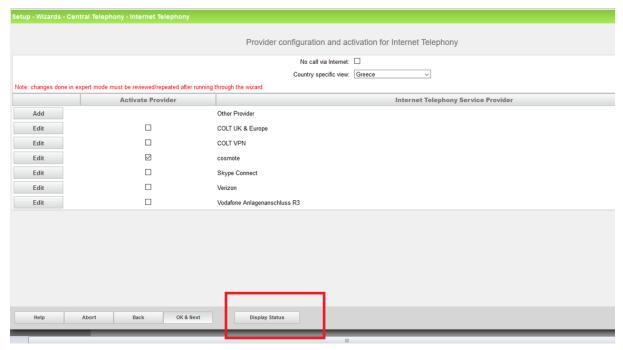
+302142163500)



Enter the relevant data an click [OK & Next].



Click [OK & Next] (no input needed)



On the next page you can check the status of the ITSP. Click [Display status]

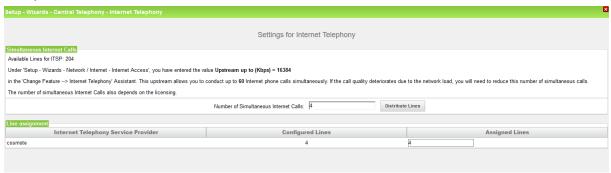


Click [Next] (no input needed)

You return toi the previous screen. Click [OK & Next] (no input needed)

#### **Define bandwidth (# Trunks)**

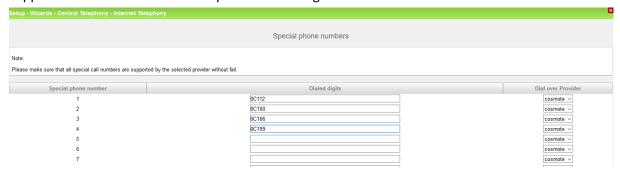
In the next part the number of simultaneous calls via the SIP trunk will be defined. The calculation of the number of trunks is done by the wizard automatically depending on the bandwidth. For each 128K, one trunk is created.



Click [OK & Next]

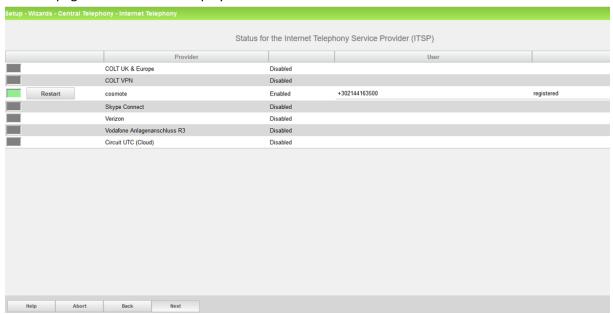
#### **Special phone numbers**

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.

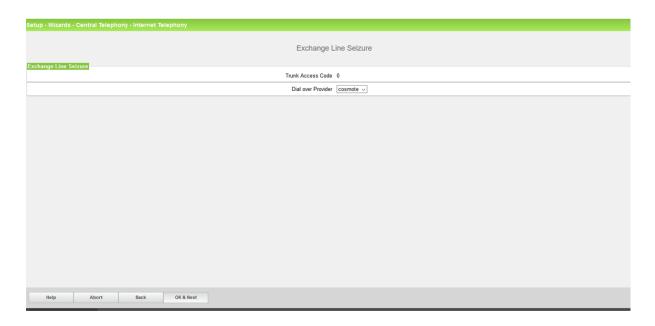


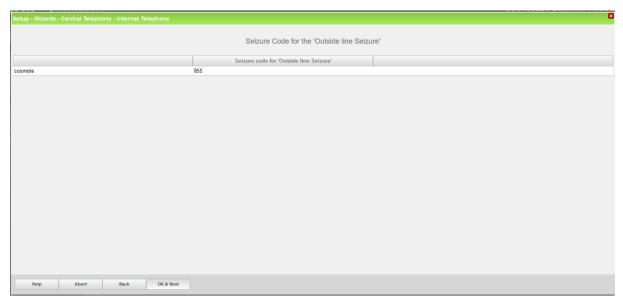
Click [OK & Next]

On next page status of ITSP is displayed.



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





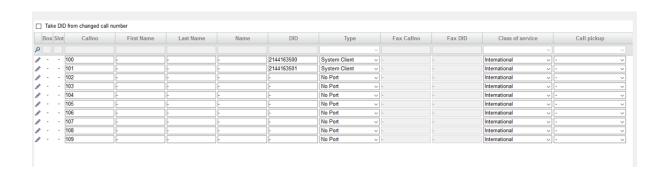
#### **DID** configuration

In general the DID has to be configured in long format

The country code 30 has to be configured as described before. The DID must always be the number without the country code (e.g. 210xxxxxxx).

#### Attention:

You MUST NOT use other number configurations in the DID because that will cause problems in different call scenarios and UC functionality. (e.g. for the DID-number 2142163501 do NOT configure 2142163 as Local Area Code and PABX number and then 3 digits 501 as DID)



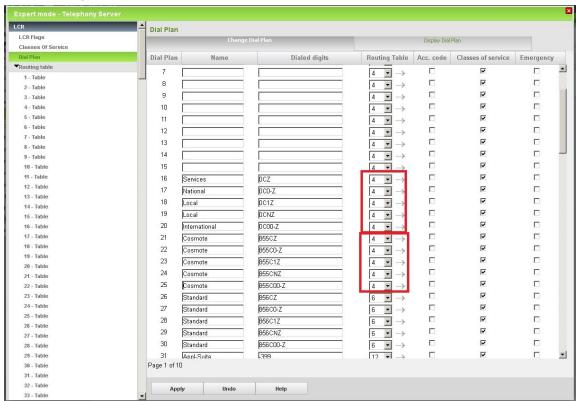
#### **Additional manual Configuration**

#### LCR changes (mandatory)

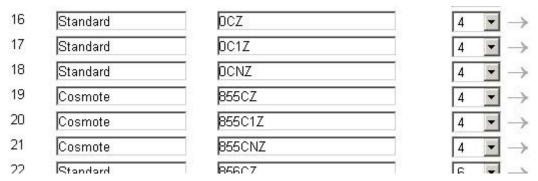
In expert mode, Telephony Server, LCR, - change the "Routing Table" in the way that all Dial plans related to SIP (COSMOTE) route should follow the Routing Table 4.

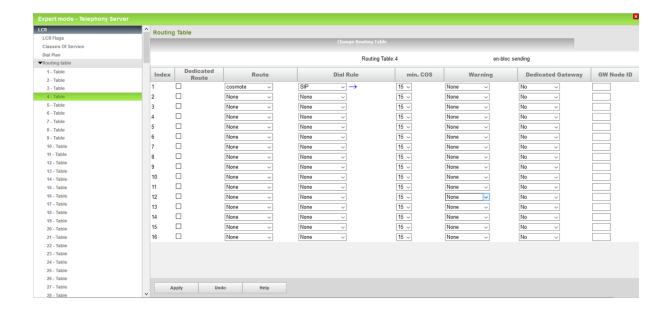
If not changed manually, the Routing table 4 uses the Dial Rule 'SIP' which by default has the Dial Rule format= 'A', Network Access='Main Network Supplier' and Type='Unknown'.

In case of a system with sw >= V2R2 the LCR should look like



In case of sw <V2R2 the LCR should look like





#### **Route configuration**

You only need to setup the country code (30) for the route occupied for COSMOTE, if not exists already.

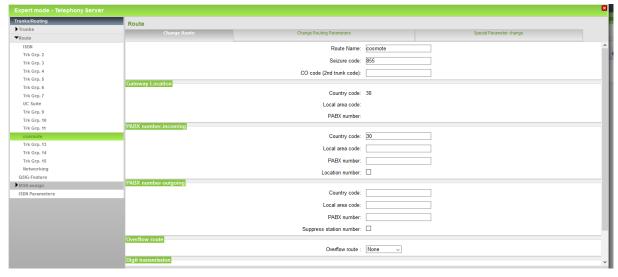
As recommended above, Local area code and PABX number must be empty.

The route parameters:

- Call No. With International/national prefix: unchecked
- No and type outgoing: Country code
- Call number type: DID

are automatically configured when the profile of COSMOTE is enabled by relevant wizard.

Consequently, you don't need to change/edit anything else here.

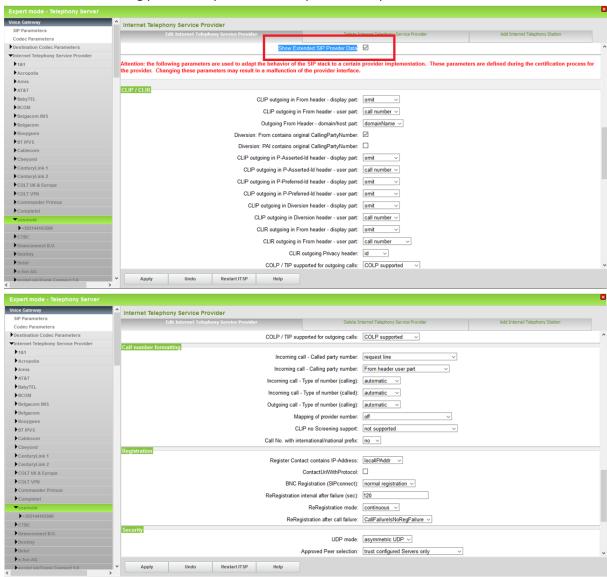


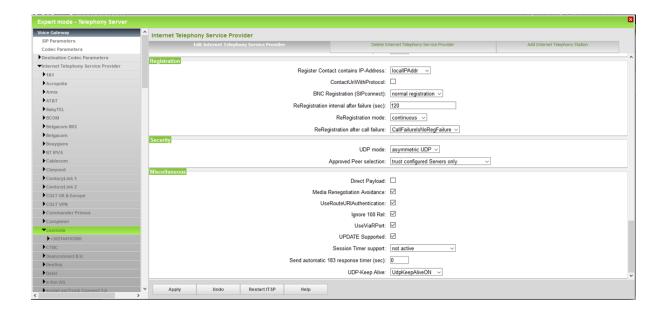
#### **Cosmote Profile Settings used at certification process**

#### **Expert Mode-Telephony Server-Internet Telephony Server Provider**

You don't need to change/edit anything in the profile of COSMOTE since the settings are already preconfigured.

However, the following pictures depict the official pre-defined profile as it is certified.

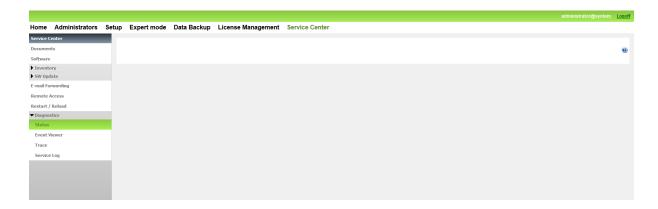


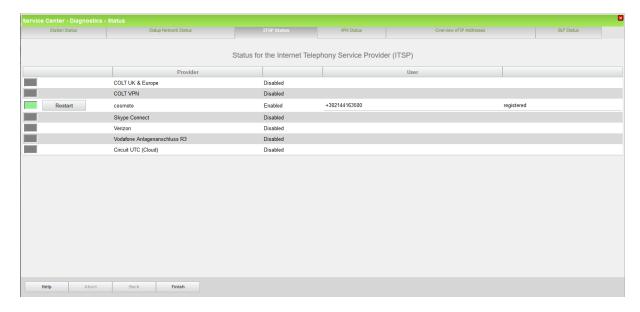


## How to check the status of SIP connection with COSMOTE

#### **Status OpenScape Business**

"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.

