OpenScape Business V3

How to Configure SIP Trunk for:
Spark Voice Connect - New Zealand

About this document

This configuration guide describes an example of how to set up the SIP trunk **Spark Voice Connect** as an ITSP connection to the OpenScape Business.

Note: The basis for this document is the current OpenScape Business *V3R2.1*. 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.

System	OpenScape Business
Released with Version	*V3R2.1*
Spark Voice Connect SIP	**Features & Capabilities**
Account (DID/Client)	*DID*
Multisite	*yes - single trunk*
CLIP / CLIR	*yes / yes*
CLIP no Screening	*yes*
COLP	*no*
Call Forwarding (302)	*no*
DTMF (RFC2833/4733)	*yes*
Codecs G711/G729	*yes / yes*
T.38 Fax	*yes*
Secure trunk	*no*

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Table of History

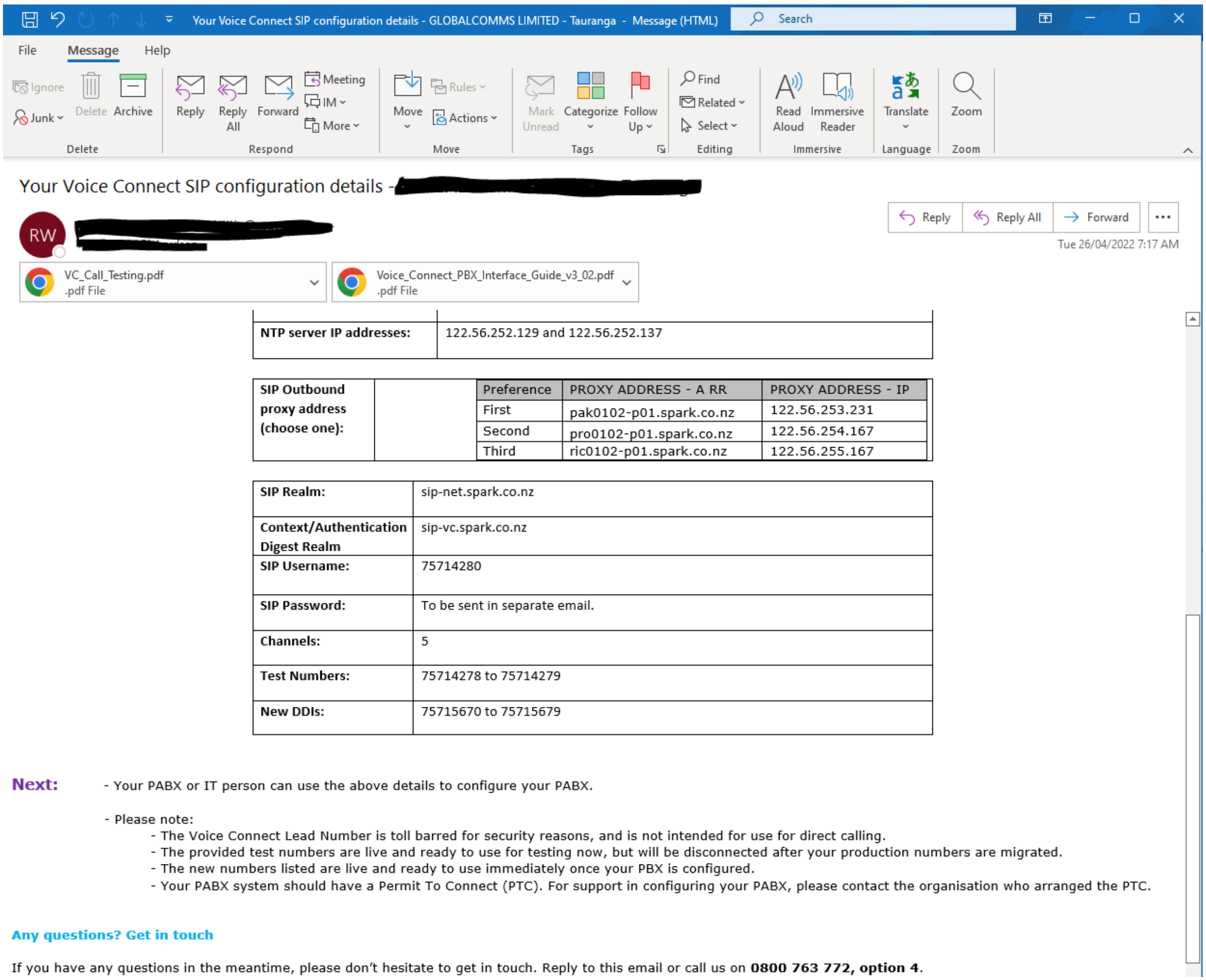
Date	Version	Changes
2022-12-01	1.0	profile released with OpenScape Business V3R2.1

Information

The Spark Voice Connect SIP-Trunk will be released for the first time with OpenScape Business V3R2 FR1.

Trunk Configuration Data provided by Spark Voice Connect

The configuration data required to setup the SIP trunk is provided via email from your Spark account manager. The password is provided in a separate email. See example below –



Your Voice Connect SIP configuration details - [redacted]

RW [redacted]

Reply Reply All Forward

Tue 26/04/2022 7:17 AM

VC_Call_Testing.pdf .pdf File

Voice_Connect_PBX_Interface_Guide_v3_02.pdf .pdf File

NTP server IP addresses:	122.56.252.129 and 122.56.252.137

SIP Outbound proxy address (choose one):

Preference	PROXY ADDRESS - A RR	PROXY ADDRESS - IP
First	pak0102-p01.spark.co.nz	122.56.253.231
Second	pro0102-p01.spark.co.nz	122.56.254.167
Third	ric0102-p01.spark.co.nz	122.56.255.167

SIP Realm:	sip-net.spark.co.nz
Context/Authentication Digest Realm	sip-vc.spark.co.nz
SIP Username:	75714280
SIP Password:	To be sent in separate email.
Channels:	5
Test Numbers:	75714278 to 75714279
New DDIs:	75715670 to 75715679

Next:

- Your PABX or IT person can use the above details to configure your PABX.
- Please note:
  - The Voice Connect Lead Number is toll barred for security reasons, and is not intended for use for direct calling.
  - The provided test numbers are live and ready to use for testing now, but will be disconnected after your production numbers are migrated.
  - The new numbers listed are live and ready to use immediately once your PBX is configured.
  - Your PABX system should have a Permit To Connect (PTC). For support in configuring your PABX, please contact the organisation who arranged the PTC.

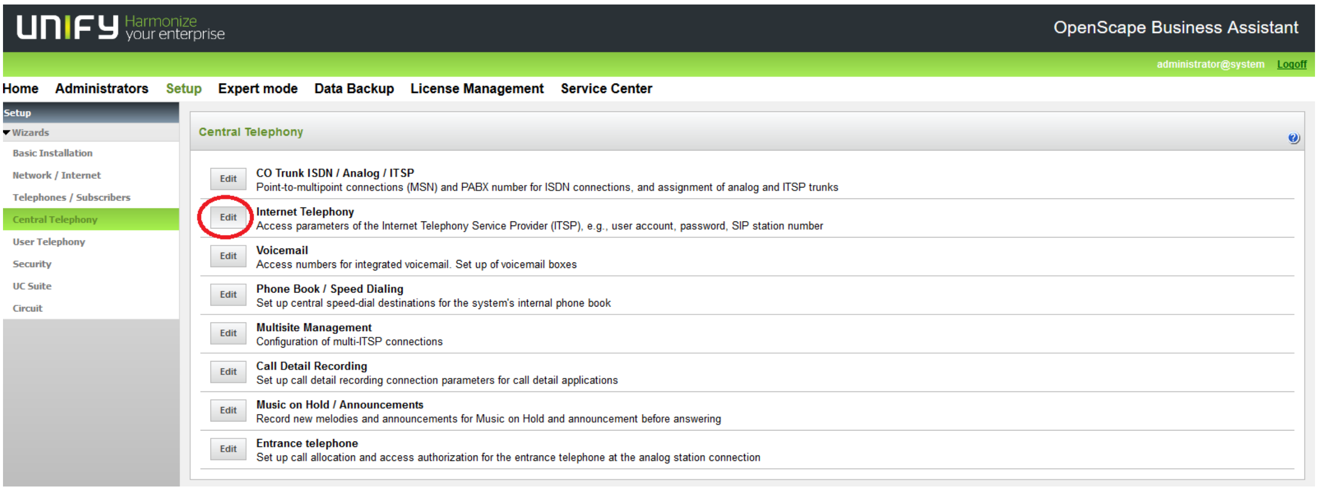
Any questions? Get in touch

If you have any questions in the meantime, please don't hesitate to get in touch. Reply to this email or call us on **0800 763 772, option 4**.

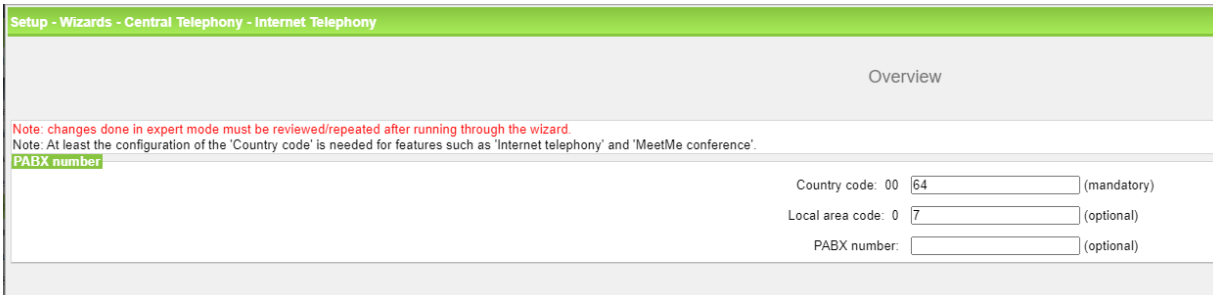
Configuration Wizard

Internet Telephony

Go to Central Telephony – “Internet Telephony“

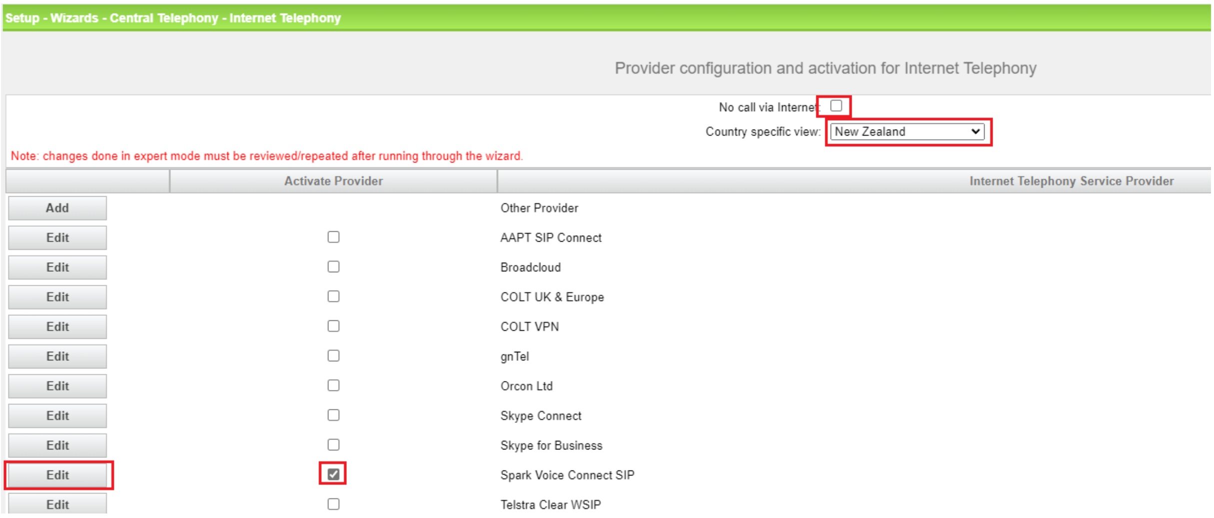


The overview page appears for entering the location data. The most flexible type of configuration is to enter the Country code only.



Click [OK & Next].

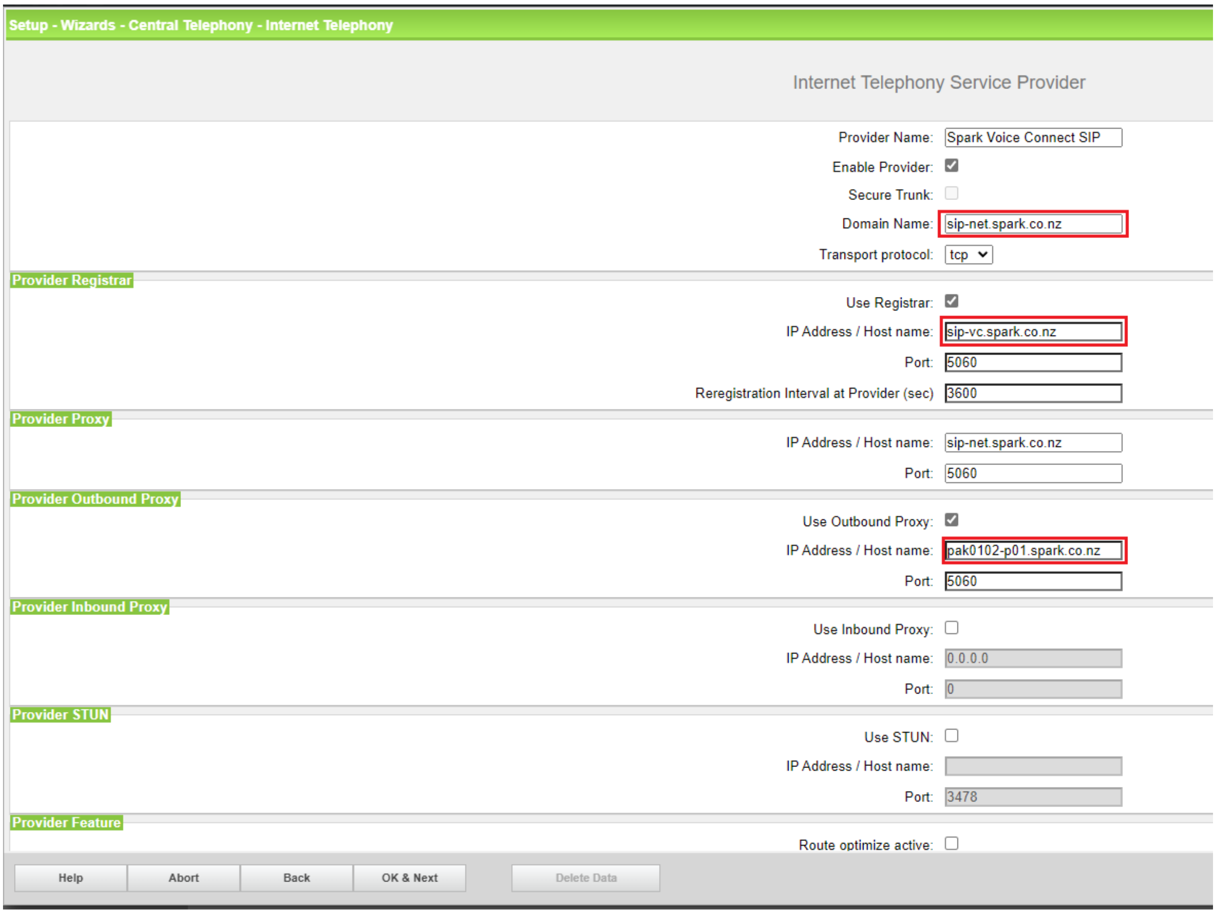
Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck
Use County specific view: New Zealand and select “Spark Voice Connect”.



Activate Provider and click on [Edit].

On the next page enter the following information:

- **Domain Name** the SIP Domain Name can be found in the Spark email – can be found in the section called SIP Realm.
- **Provider Registrar** - can be found under the section Context/Authentication
- **Provider Proxy** is the same as the Domain Name
- **Provider Outbound Proxy** is found on the same email under SIP Outbound proxy address (Choose one).



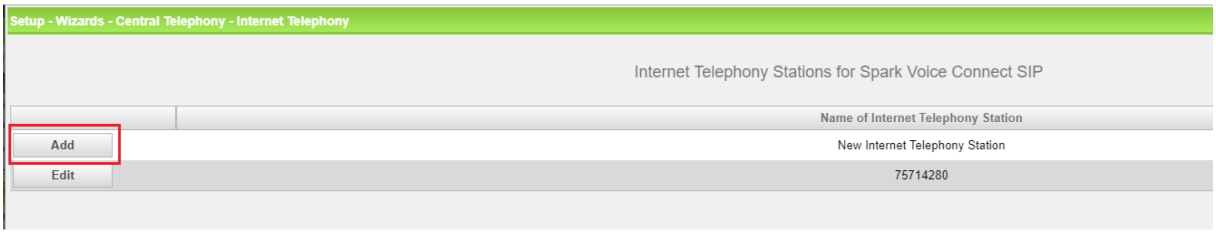
On this page the behaviour of the features call forwarding can be controlled:

• "Rerouting active" deactivated (default) -> a call forwarding establishes a second connection and control of the call remains in the system

• "Rerouting active" activated -> Rerouting is carried out in the office during a call forwarding. The system loses further control over the call

Click [OK & Next].

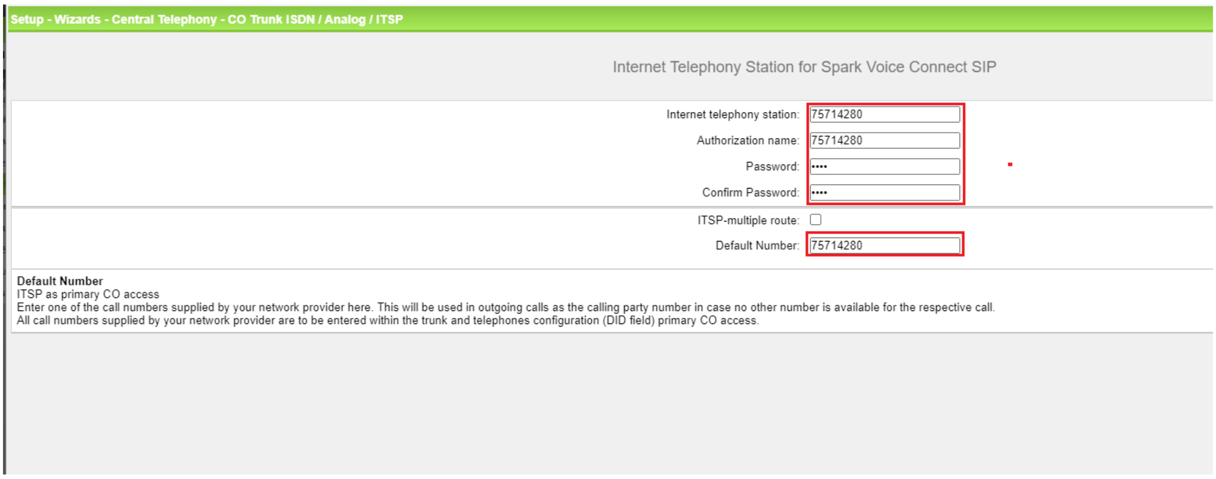
In the next dialog the specific customer SIP Userdata will be configured.



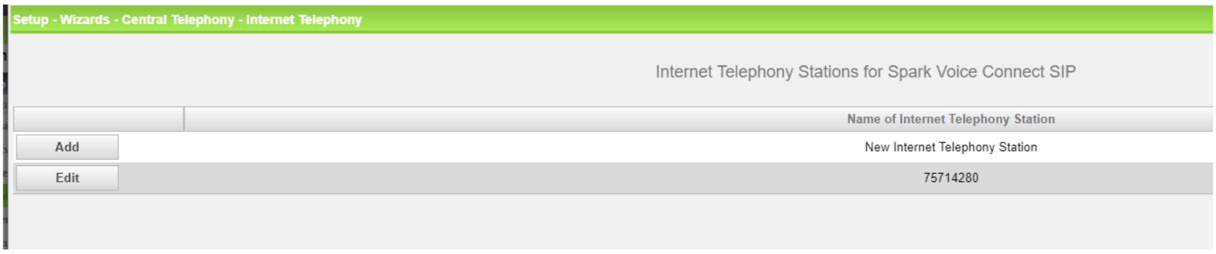
Click on [Add].

Data provided on the Spark email under SIP Username: and the separate email containing the SIP Password:

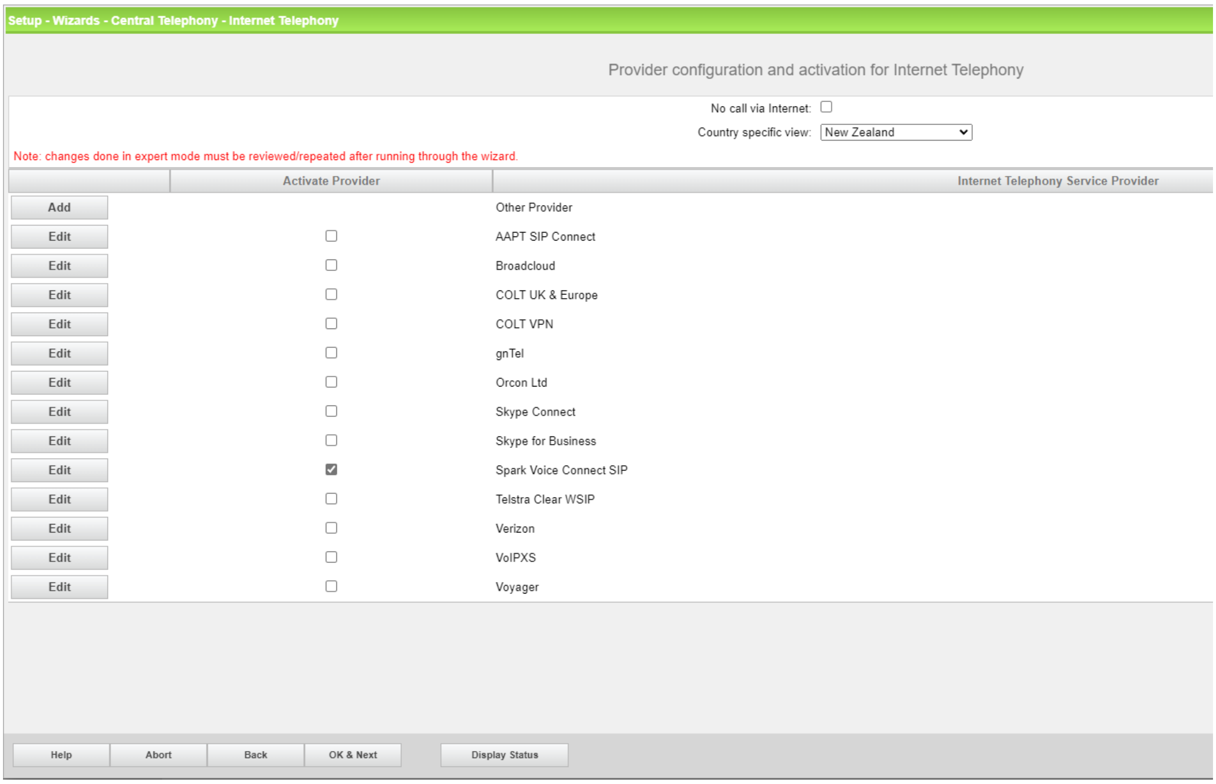
Internet telephony station:	**Username** is inserted here (e.g: 75714280)
Authorization name:	**Username** is inserted here (e.g: 75714280)
Password:	**Password** provided in a separate Spark email
Default number:	Main number of connection. The default number is used as the outgoing number when no DDI number is assigned to a station. (e.g: 75714280). Usually the **Main Number** is entered here.



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



Click [OK & Next] (no input needed)

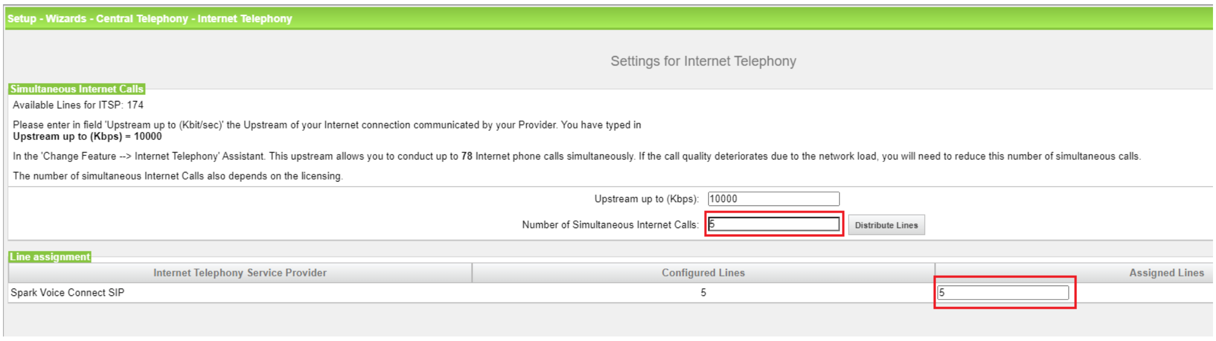


Click [OK & Next]

Define bandwidth (# Trunks)

The amount of simultaneous Internet (**Assigned Lines**) calls must be aligned with the **Maximum Active Calls** assigned to the Trunk Group which is defined in the Spark configuration email under Channels:

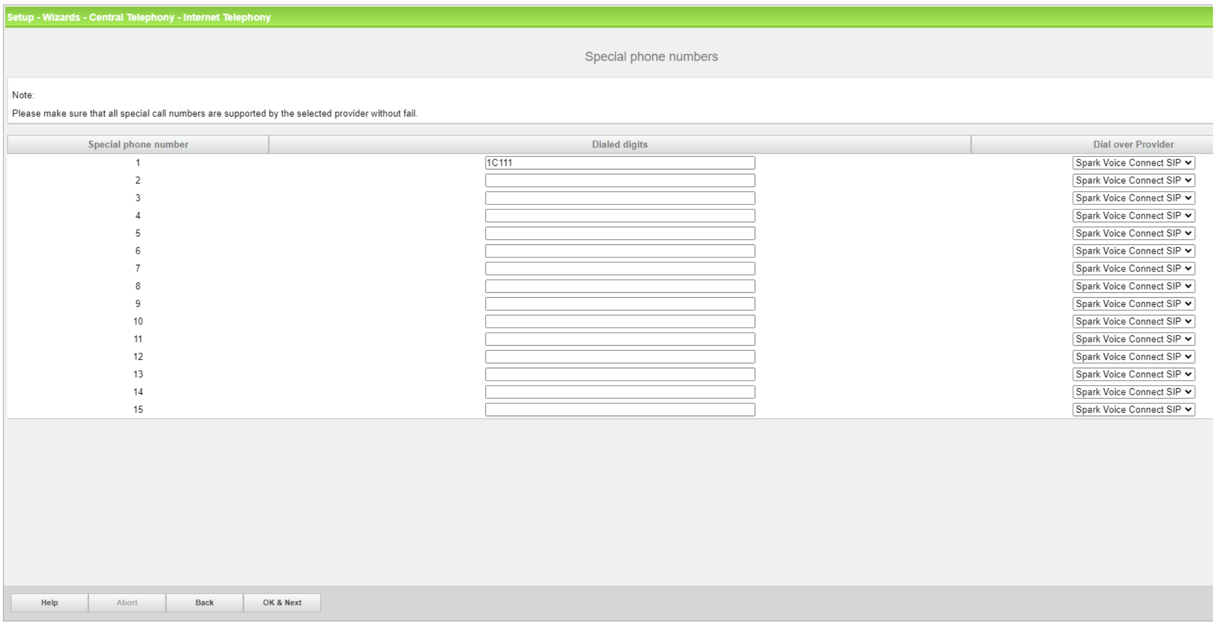
SIP Realm:	sip-net.spark.co.nz
Context/Authentication Digest Realm	sip-vc.spark.co.nz
SIP Username:	75714280
SIP Password:	To be sent in separate email.
Channels:	5
Test Numbers:	75714278 to 75714279
New DDIs:	75715670 to 75715679



Click [OK & Next]

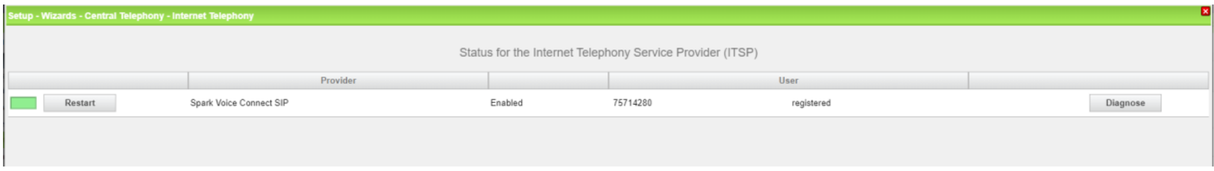
Special phone numbers

In this dialog it is possible to route special phone numbers. In New Zealand **111 is the emergency number for Police, Fire and Ambulance.**



Click [OK & Next]

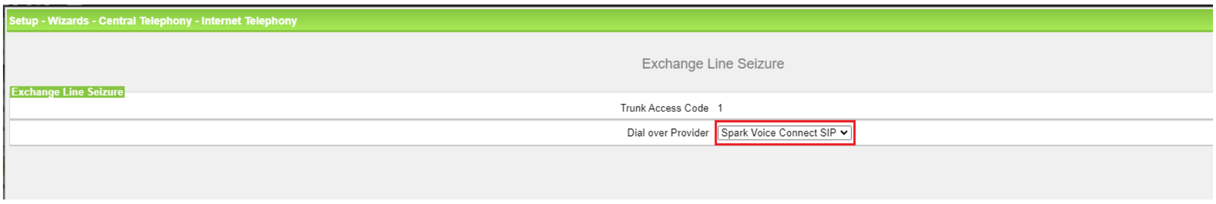
On next page status of ITSP is displayed.



Click [Next]

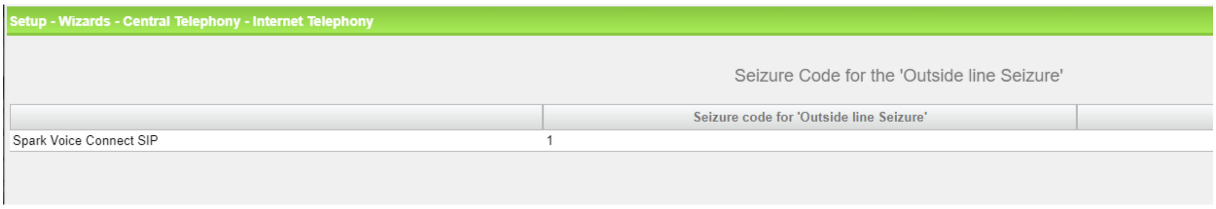
"Exchange Line Seizure":

Select which trunk will access code 1.



Click [OK & Next]

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



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

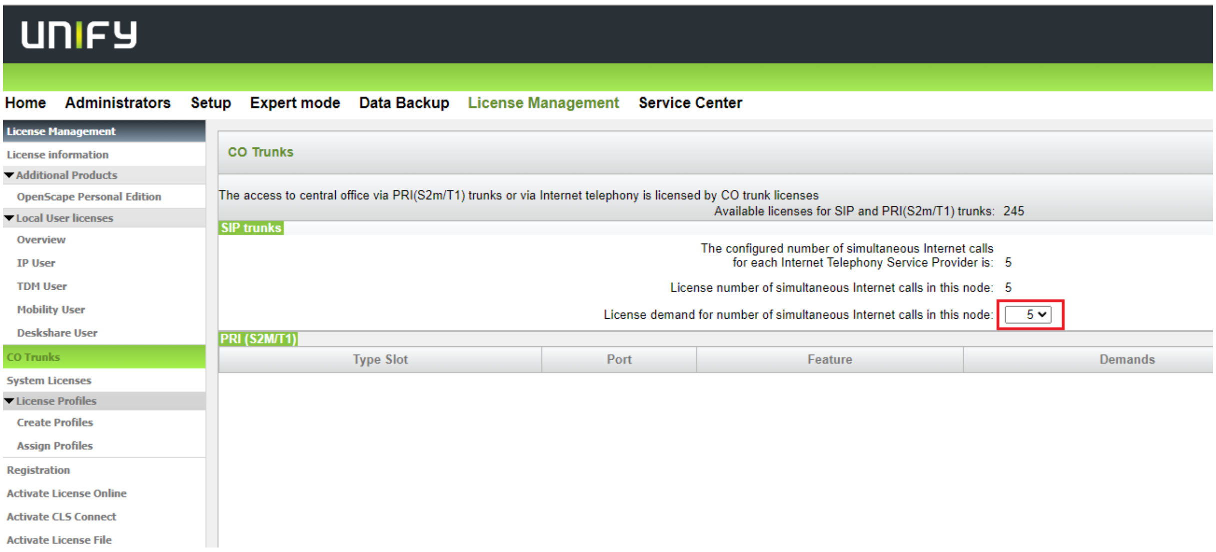
DID configuration

Enter the DID number including the area code in the Edit subscriber configuration. The CLIP/Lin field can also be modified if a different CLI is required.

Additional Configuration

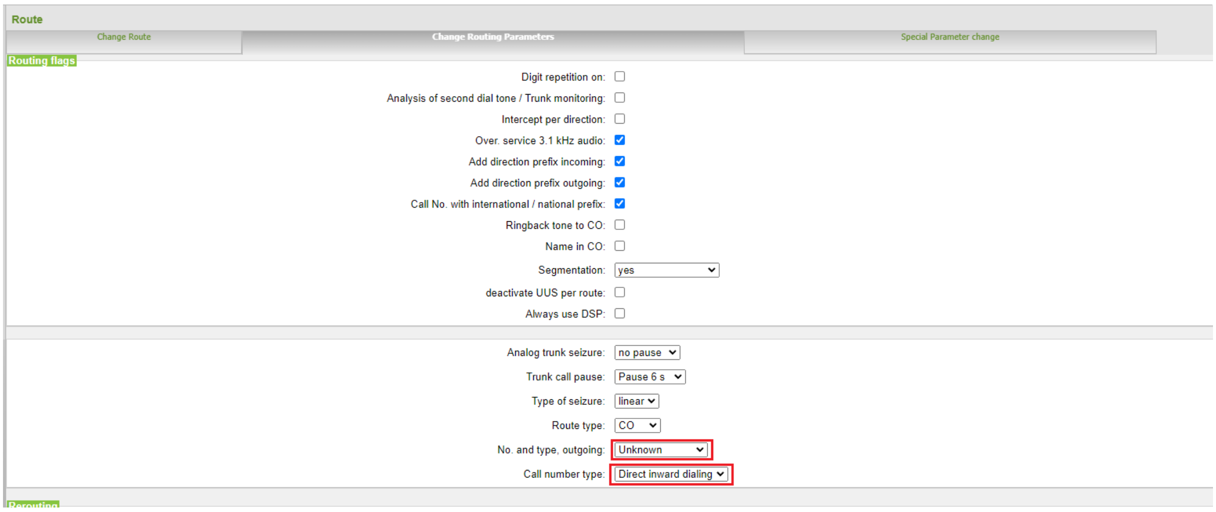
License

Add the “S2M/SIP Trunk” license to the SIP-Trunk



Trunks/Routing Configuration

Number and type outgoing should be set to Unknown and Call number type set to Direct Inward dialing.



Known limitations and restrictions:

Restrictions about certain use cases observed during certification should be listed

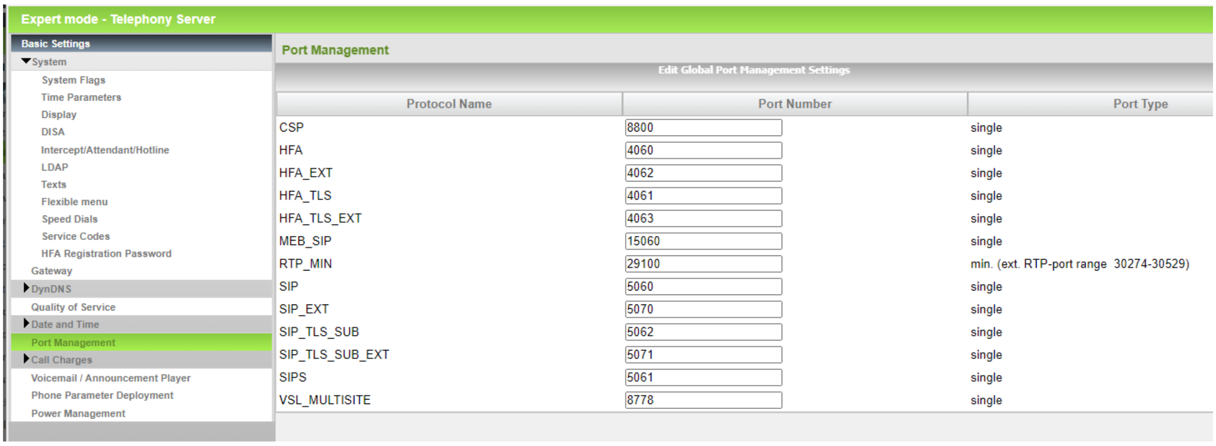
Number presentation for external transferred calls or calls via the Auto Attendant, the A party number is not displayed at the C party, the Default number is displayed instead.

Mandatory configuration in Expert Mode

Port management

Go to Expert Mode → Telephony Server → Port Management

Port management remains default no changes are required.



Codec Parameters

Go to Expert Mode → Telephony Server → Voice Gateway → Codec Parameters

To comply with the requirements of Spark Voice Connect the following codec parameters **MUST** be changed:

1. RFC 2833 payload type **MUST** be 101.
2. T.38 Fax is supported and can be left activated.
3. G.729AB and G.729A are **NOT** supported and **SHOULD** be disabled.