



OpenScape Business V3

Configuration Kwebbl SIP Trunk

- Austria
- Belgium
- Germany
- Netherlands
- Switzerland

OpenScape Business V3 Mainboard Family
OpenScape Business S

About this document

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

Note: The basis for this document is the current OpenScape Business V3R4. 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	V3R4
Kwebbl SIP Trunk	Features & Capabilities
Account (DID/Client)	<i>DID</i>
Multisite	<i>yes - single trunk / dedicated trunk</i>
CLIP / CLIR	<i>yes / yes</i>
CLIP no Screening	<i>no</i>
COLP	<i>no</i>
Call Forwarding (302)	<i>no</i>
DTMF (RFC2833/4733)	<i>yes</i>
Codecs G.722/G.711/G.729	<i>no / yes / no</i>
T.38 Fax	<i>no</i>
Secure trunk	<i>no</i>

Remarks:

OpenScape Business is not approved for the use of the T.38-Fax protocol on the **Kwebbl SIP Trunk** profile.

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Table of History

Date	Version	Changes
12.02.2025	1.0	release with OpenScape Business V3R4

Information

The **Kwebbl SIP Trunk** SIP-Trunk will be released for the first time with OpenScope Business V3R4.

Trunk Configuration Data

The configuration data needed to setup the **Kwebbl SIP Trunk** are available in the **Kwebbl** Customer portal.

Trunk Configuration

To use the trunk functionality, it is necessary to create a trunk on the Kwebbl platform. A SIP trunk can be created in the tab **[Devices]**, subtab **[Trunks]**.

Click on **[+Add]** to create a new trunk and follow the 2-step configuration wizard.



Configuration Wizard – Step 1:

STEP 1: Trunk settings

DEVICE DETAILS

Name * Trunk Concurrent calls * 10

Brand * Other Model * Model N

Numbers format for inbound calls * E.164 (with plus) e.g. +310241651777

IP WHITELIST

IP address * 203.0.113.45 Subnet * /32 - 255.255.255.255

ADDING NUMBERS

Choose the Number or/and Caller ID you want to add *

Select an item +

DID Caller ID

ADDED ITEMS

493012345678 DID Caller ID

310241651777 DID Caller ID

Failover to dial plan Enable: No

DEVICE DETAILS

- **Name:** Type the name of the trunk
- **Concurrent calls:** Choose the number of simultaneous call channels (1-100)
- **Brand:** Choose the brand of the trunk
- **Type:** Choose or type the model of the trunk
- **Numbers format for inbound calls:** Choose the number format for SIP headers:
 - With plus: e.g. +310241651777
 - Without plus: e.g. 310241651777

IP WHITELIST

- **IP address:** Specify the IP address and subnet to whitelist it for the trunk accounts registrations.

ADDING NUMBERS

- **Choose the Number or/and Caller ID you want to add:** Open the dropdown menu and select the target number. Press **[+]** to assign the selected number to the trunk.
 - DID: Select the option if you want to receive calls on this number.
 - Caller ID: Select the option if you want the trunk to be able to dial out with this number.
- **Failover to dial plan** (optional): enable the option to redirect calls to an (external) fallback number to ensure the end user's reachability in case the trunk is for some reason unavailable. The routing needs to be preconfigured on the panel.

Configuration Wizard – Step 2:

Edit trunk Previous Step Finish

1 — 2

STEP 2: Login details

PRIMARY ACCOUNT

SIP Server *
1.trunk.sip.kwebbl.net

Username * Password Generate
u7tpak5szck3

SECONDARY ACCOUNT

SIP Server *
2.trunk.sip.kwebbl.net

Username * Password Generate
o2mp9f6c4m0y

At the second step you will find the **Primary Trunk account** and **Secondary Trunk account details**: username, password and SIP server address.

The password for the trunk account can be created manually or generated.

It is strongly recommended to register the trunk on both Primary and Secondary SIP servers to ensure failover in case of service disruptions.

Click **[Finish]** to save the Trunk. The trunk and all associated information will be displayed in the **[Trunks]** subtab.

Name	Brand	PRIMARY ACCOUNT		SECONDARY ACCOUNT		Concurrent calls
		IP address	Expires	IP address	Expires	
Trunk	Other / Model N	192.168.13.36, 203.0.113.45	14/01/2025 16:01 ●	None		4

Once the trunk is registered on the Kwebbl platform, a green registration dot will appear on the panel. By hovering over the green dot, the user-agent details can be viewed. If the trunk account has not been registered yet or lost the registration, the dot will be grey.

Additionally, the trunk internal and external IP addresses, as well as the registration expiration timer can be viewed on the panel.

This configuration example is part of the **Kwebbl** documentation „SIP Trunk Configuration“.

Configuration Wizard

Internet Telephony

Go to Central Telephony – “Internet Telephony“

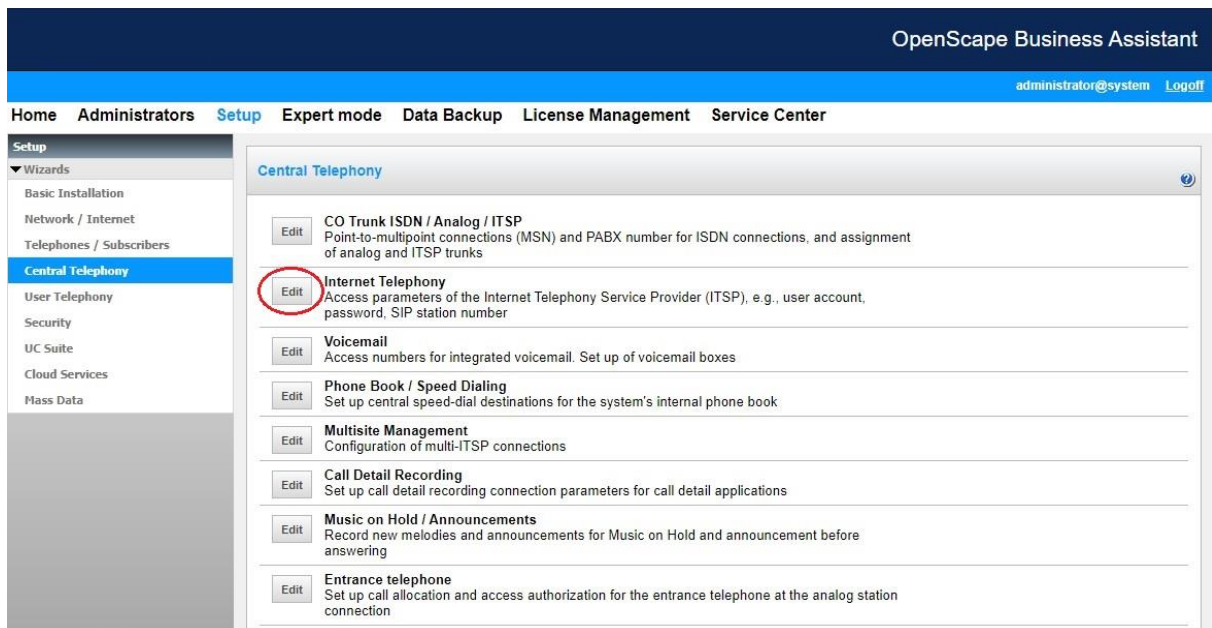


Figure 1

The overview page appears for entering the location data. The most flexible type of configuration is to enter the Country code only. The **Kwebbl SIP Trunk** is released for the following countries:

- Austria
- Belgium
- Germany
- Netherlands
- Switzerland

The following example is based on the country code **Germany**.

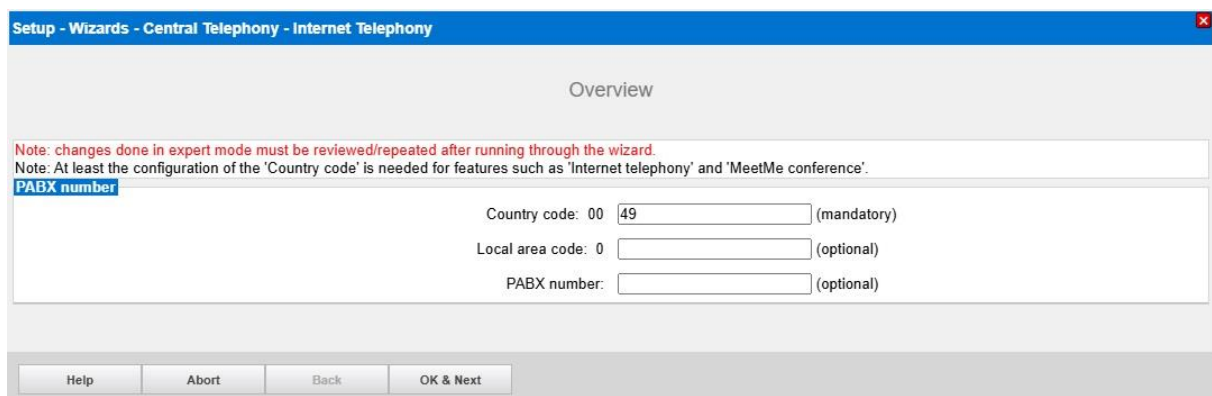



Figure 2

Click [OK & Next].

Provider configuration and activation for Internet Telephony

- “No call via Internet” -> uncheck
- “Country specific view”: here **Germany** and select **Kwebbl SIP Trunk**

	As long as the profile Kwebbl SIP Trunk is not available, please create a private profile Kwebbl_2 (see appendix).
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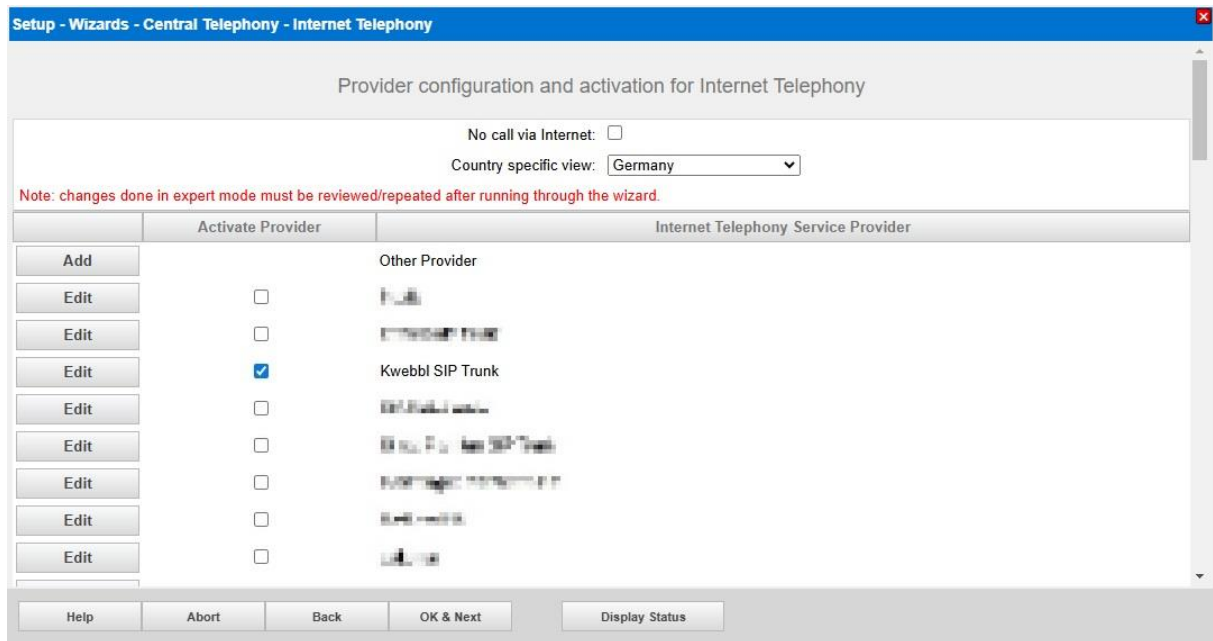


Figure 3

Activate Provider and click on [Edit].

On the next page no changes are required. The Primary Trunk account is preconfigured.

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Provider Name:

Enable Provider:

Secure Trunk:

Domain Name:

Transport protocol:

Provider Registrar

Use Registrar:

IP Address / Host name:

Port:

Reregistration Interval at Provider (sec)

Provider Proxy

IP Address / Host name:

Port:

Provider Outbound Proxy

Use Outbound Proxy:

IP Address / Host name:

Port:

Provider Inbound Proxy

Use Inbound Proxy:

IP Address / Host name:

Port:

Provider STUN

Use STUN:

Help Abort Back OK & Next Delete Data

Figure 4

Click [OK & Next].

In the next dialog the specific customer SIP user data will be configured.

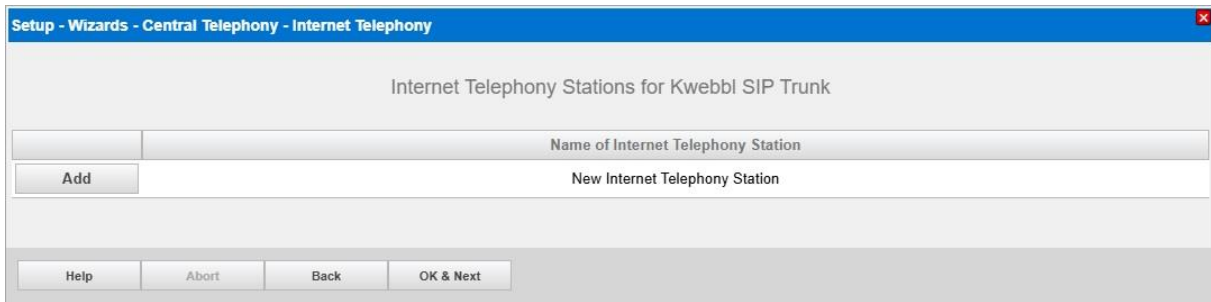


Figure 5

Click on [Add].

The Data is provided by the **Kwebbl** customer portal.

Internet telephony station: Username

Authorization name: Username

Password: Password

Default number: Main number of connection in E.164 format (e.g.: +4930300153[REDACTED]). The default number is used as outgoing number when no DDI number is assigned to a station. Usually the Lead Number is entered here.

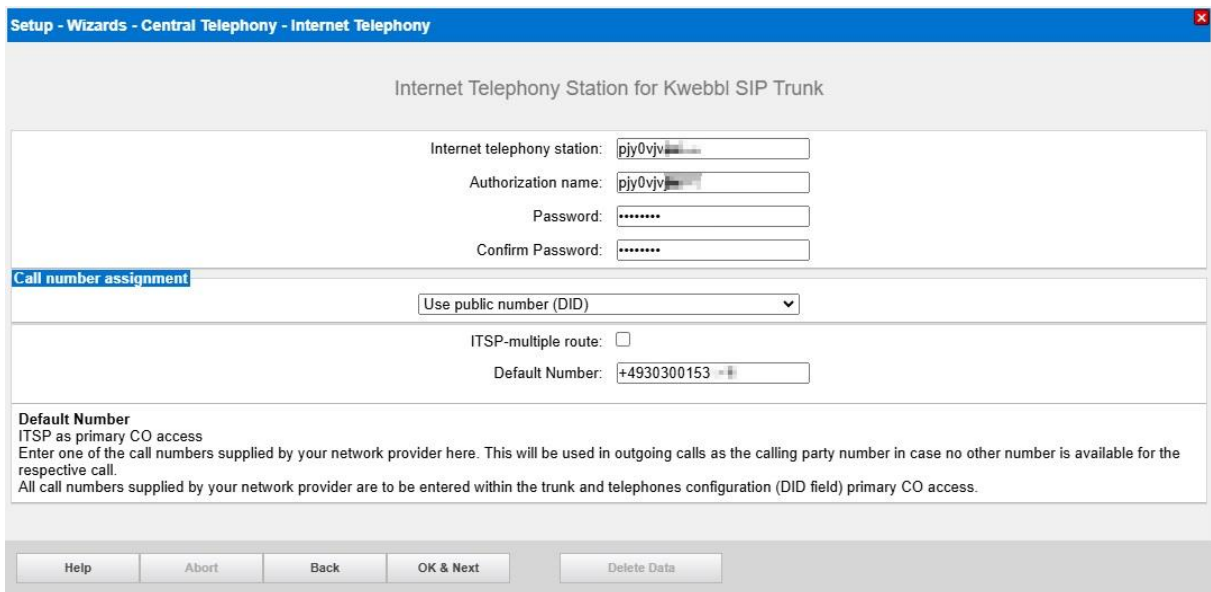


Figure 6

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

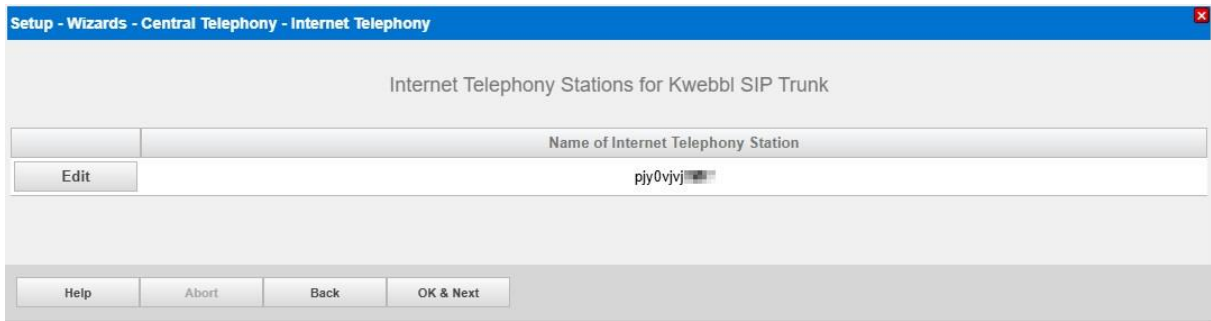


Figure 7

Click [OK & Next]

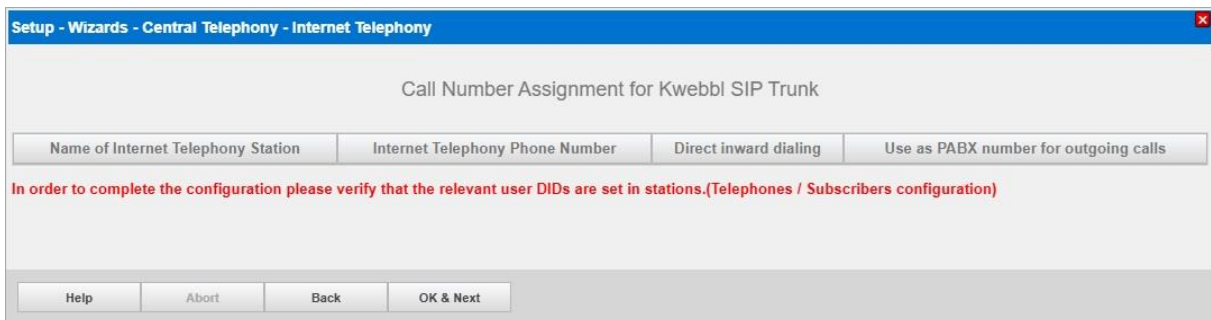


Figure 8

Click [OK & Next] (no input needed)

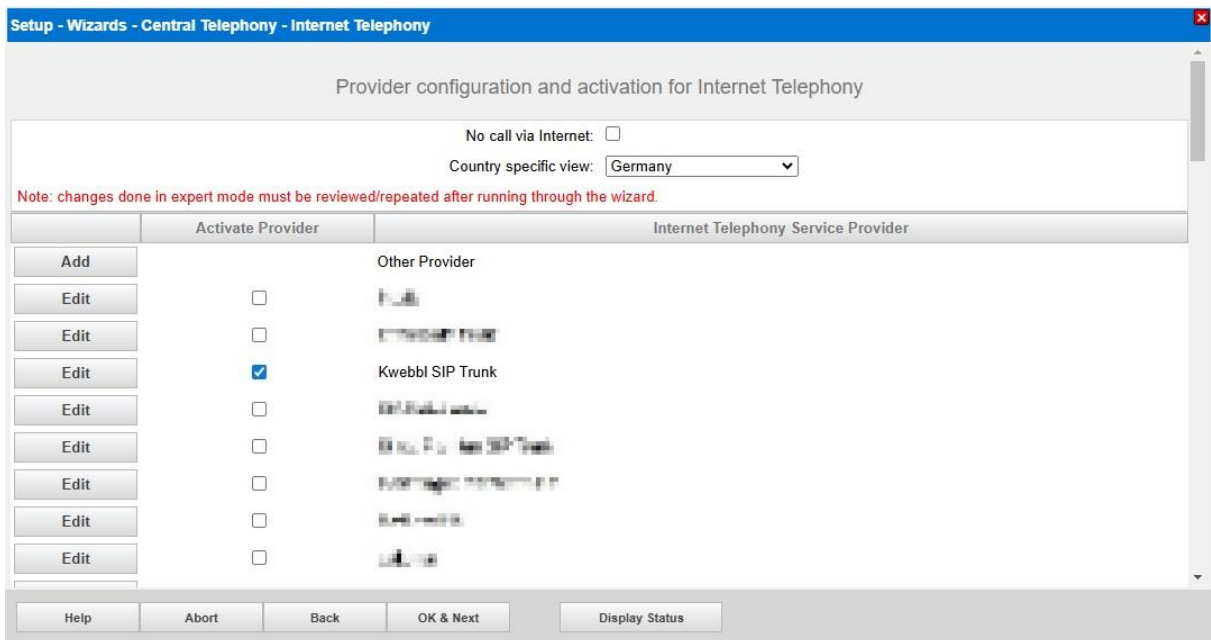


Figure 9

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 of the **Kwebbl SIP Trunk** customer portal.

Setup - Wizards - Central Telephony - Internet Telephony

Settings for Internet Telephony

Simultaneous Internet Calls

Available Lines for ITSP: 174

Please enter in field 'Upstream up to (Kbit/sec)' the Upstream of your Internet connection communicated by your Provider. You have typed in **Upstream up to (Kbps) = 2048**

In the 'Change Feature --> Internet Telephony' Assistant. This upstream allows you to conduct up to **16** Internet phone calls simultaneously. If the call quality deteriorates due to the network load, you will need to reduce this number of simultaneous calls.

The number of simultaneous Internet Calls also depends on the licensing.

Upstream up to (Kbps):

Number of Simultaneous Internet Calls:

0%

Line assignment

Internet Telephony Service Provider	Configured Lines	Assigned Lines
Kwebbl SIP Trunk	0	<input type="text" value="4"/>

Figure 10

Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers. If special numbers are not to be routed via the ITSP direction, this must be changed accordingly.

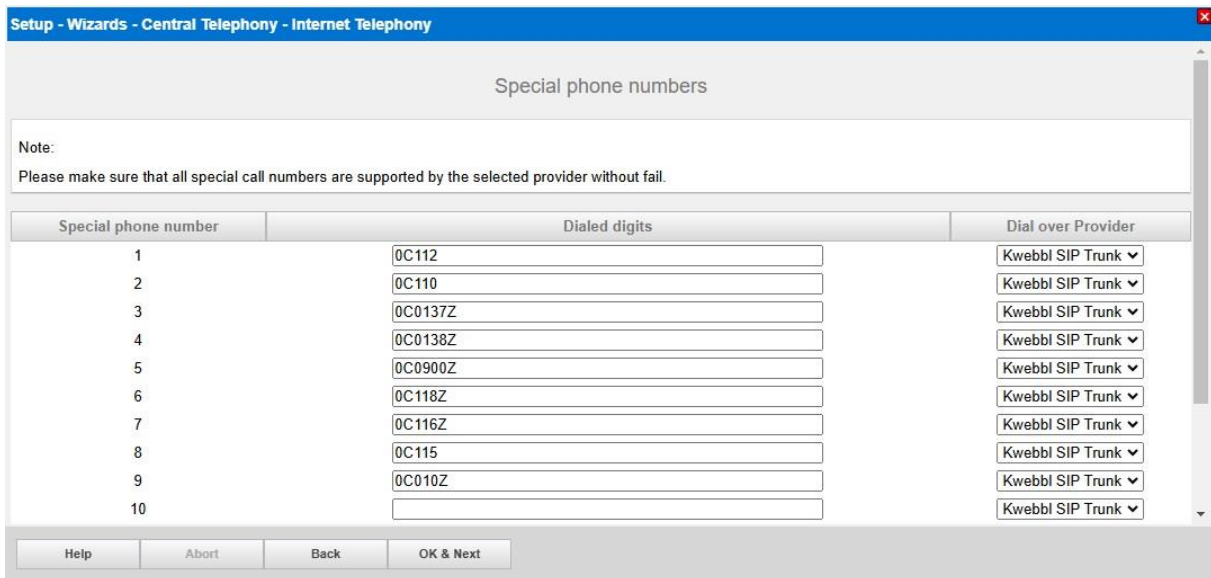


Figure 11

Click [OK & Next]

On next page status of ITSP is displayed.

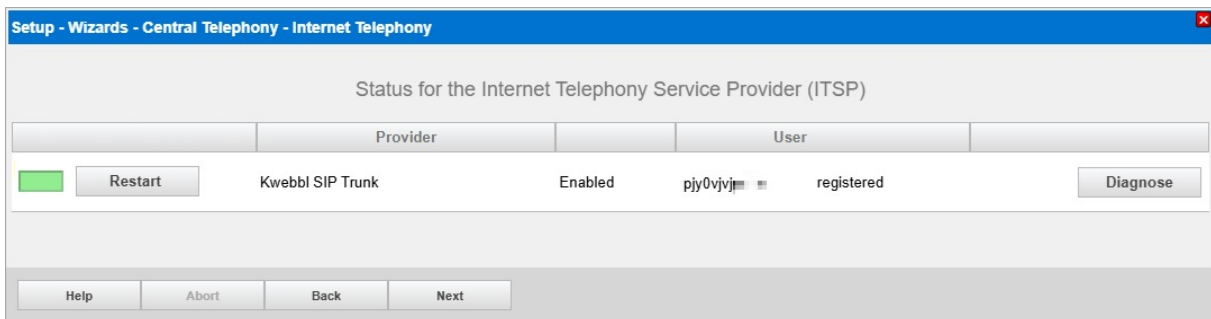
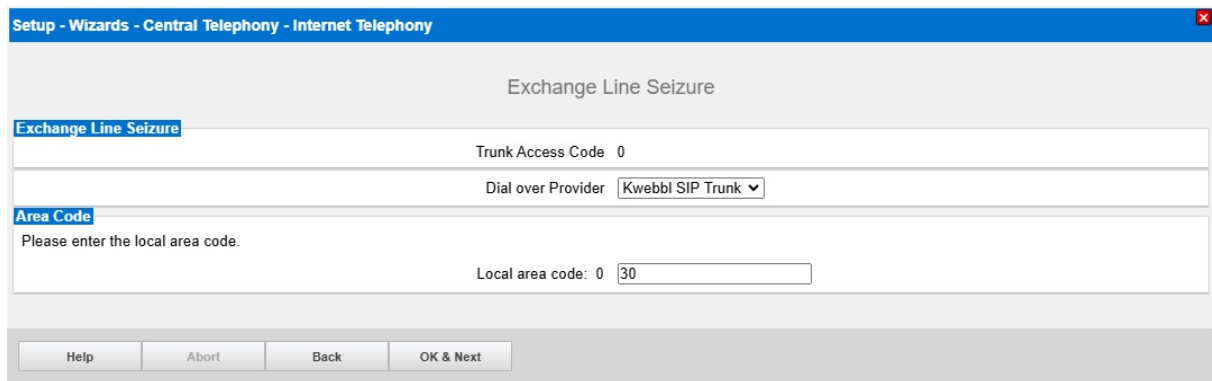


Figure 12

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)



The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "Exchange Line Seizure". Below this, there is a section titled "Exchange Line Seizure" with the following fields:

- Trunk Access Code: 0
- Dial over Provider: Kwebbl SIP Trunk (dropdown menu)

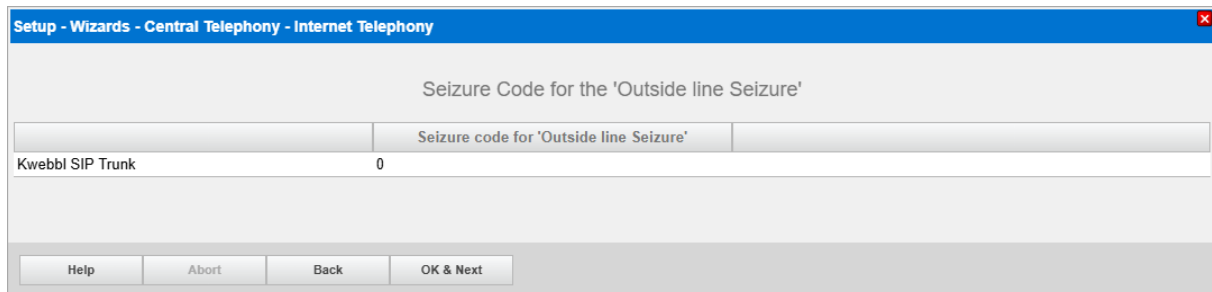
Below this is a section titled "Area Code" with the instruction "Please enter the local area code." and a field for "Local area code: 0" containing the value "30".

At the bottom, there are four buttons: Help, Abort, Back, and OK & Next.

Figure 13

Click [OK & Next]

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



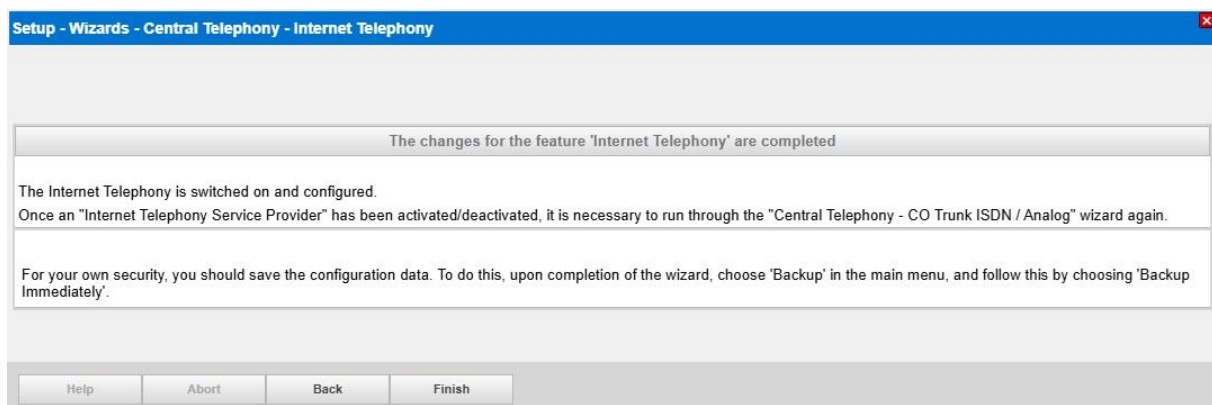
The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "Seizure Code for the 'Outside line Seizure'". Below this is a table with the following data:

	Seizure code for 'Outside line Seizure'	
Kwebbl SIP Trunk	0	

At the bottom, there are four buttons: Help, Abort, Back, and OK & Next.

Figure 14

Click [OK & Next] and



The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "The changes for the feature 'Internet Telephony' are completed". Below this is a text box with the following content:

The Internet Telephony is switched on and configured.
Once an "Internet Telephony Service Provider" has been activated/deactivated, it is necessary to run through the "Central Telephony - CO Trunk ISDN / Analog" wizard again.

For your own security, you should save the configuration data. To do this, upon completion of the wizard, choose 'Backup' in the main menu, and follow this by choosing 'Backup Immediately'.

At the bottom, there are four buttons: Help, Abort, Back, and Finish.

Figure 15

on the next page [Finish].

DID configuration

In the DID Section, the DID will need to be entered (remaining part without country code, and if configured without local area code, PABX number).

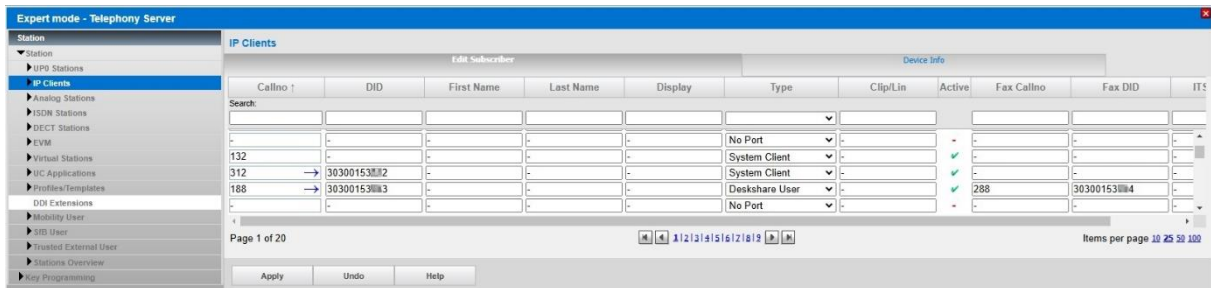


Figure 16

Additional Configuration

License

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

The screenshot shows the OpenScope Business Assistant interface. The top right corner displays "OpenScope Business Assistant" and "administrator@system Logoff". The main navigation bar includes "Home", "Administrators", "Setup", "Expert mode", "Data Backup", "License Management", and "Service Center". The left sidebar menu is expanded to "License Management", which includes "License information", "Additional Products", "Local User licenses", "CO Trunks", "System Licenses", "License Profiles", "Registration", and "Settings".

The main content area is titled "CO Trunks" and contains the following information:

- CO Trunks:** The access to central office via PRI(S2m/T1) trunks or via Internet telephony is licensed by CO trunk licenses. Available licenses for SIP and PRI(S2m/T1) trunks: 246.
- SIP trunks:** The configured number of simultaneous Internet calls for each Internet Telephony Service Provider is: 4. License number of simultaneous Internet calls in this node: 4. License demand for number of simultaneous Internet calls in this node: 4 (selected in a dropdown).
- PRI (S2M/T1):** A table with columns: Type, Slot, Port, Feature, Demands, used licenses.

At the bottom of the main content area, there are "Abort" and "Apply" buttons.

Figure 17

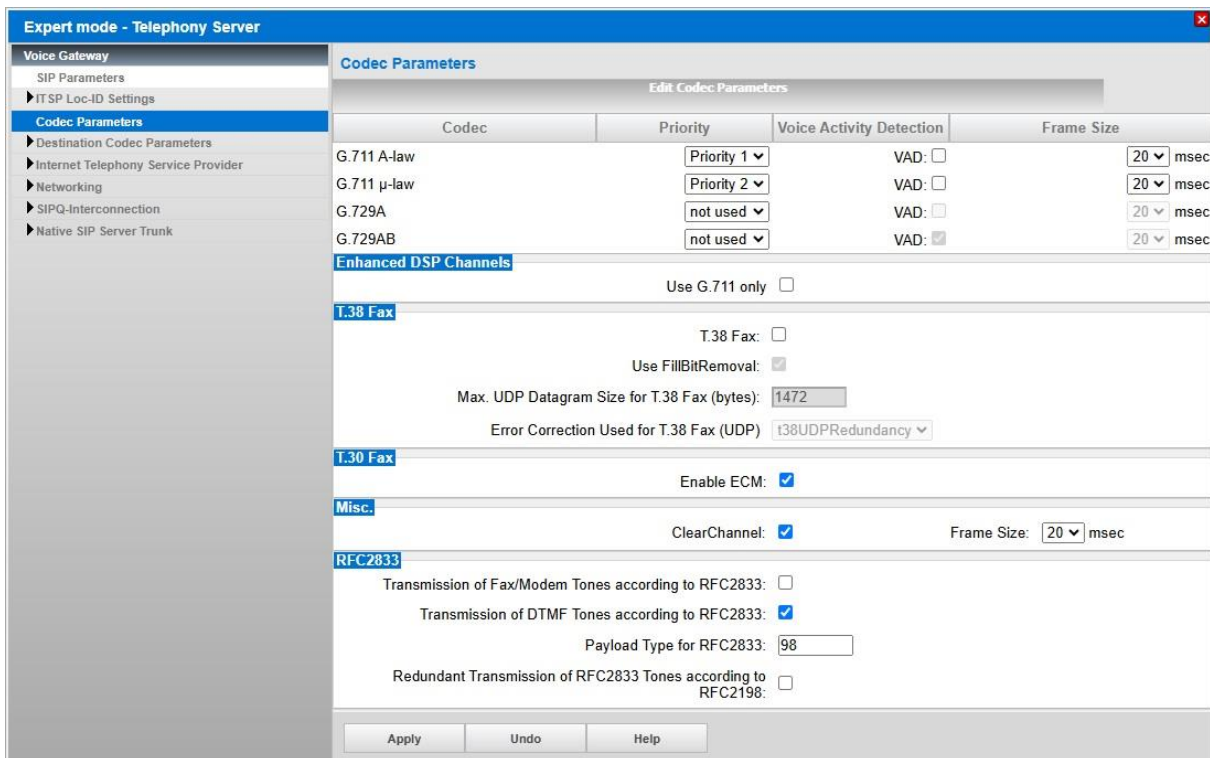
Mandatory configuration in Expert Mode

Codec Parameters

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

To comply with the requirements of the **Kwebbl SIP Trunk** profile the following codec parameters must be changed:

1. G.729A/G.729AB are not supported and should be disabled.
2. OpenScape Business is not approved for the use of the T.38-Fax protocol on the **Kwebbl SIP Trunk** profile. Therefore T.38 Fax should be deactivated.



After the T.38-Fax settings are changed OpenScape Business must be restarted.

Appendix

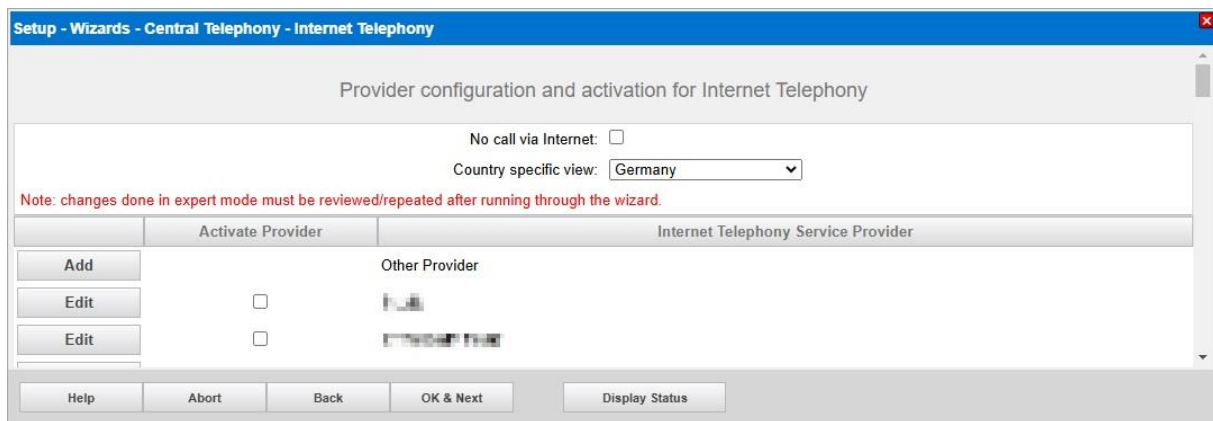
Create profile

As long as the **Kwebbl SIP Trunk** profile is not yet available, please first create a private profile with the name **Kwebbl_2** as follows.

Please open the wizard for “Central Telephony – Internet Telephony” as described in **Figure 1** and **Figure 2** and go to:

Provider Configuration and -activation for Internet-Telephony:

- “No call via Internet” -> uncheck
- “County specific view”: e.g. **Germany** and select **Other Provider**



Click on [Add].

Use the **default** template with name **Kwebbl_2**, enable the provider and configure the server data provided for the **Kwebbl SIP Trunk**

- **Gateway Domain Name:** 1.trunk.sip.kwebbl.net (Primary Trunk account)
- **Provider Registrar:** 1.trunk.sip.kwebbl.net (Primary Trunk account)
- **Provider Proxy:** 1.trunk.sip.kwebbl.net (Primary Trunk account)

as follows (see [Figure 4](#)):

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Base Template: default

Provider Name: Kwebbl_2

Enable Provider:

Secure Trunk:

Domain Name: 1.trunk.sip.kwebbl.net

Transport protocol: udp

Provider Registrar

Use Registrar:

IP Address / Host name: 1.trunk.sip.kwebbl.net

Port: 5060

Reregistration Interval at Provider (sec): 600

Provider Proxy

IP Address / Host name: 1.trunk.sip.kwebbl.net

Port: 5060

Provider Outbound Proxy

Use Outbound Proxy:

IP Address / Host name: 0.0.0.0

Port: 0

Provider Inbound Proxy

Use Inbound Proxy:

IP Address / Host name: 0.0.0.0

Port: 0

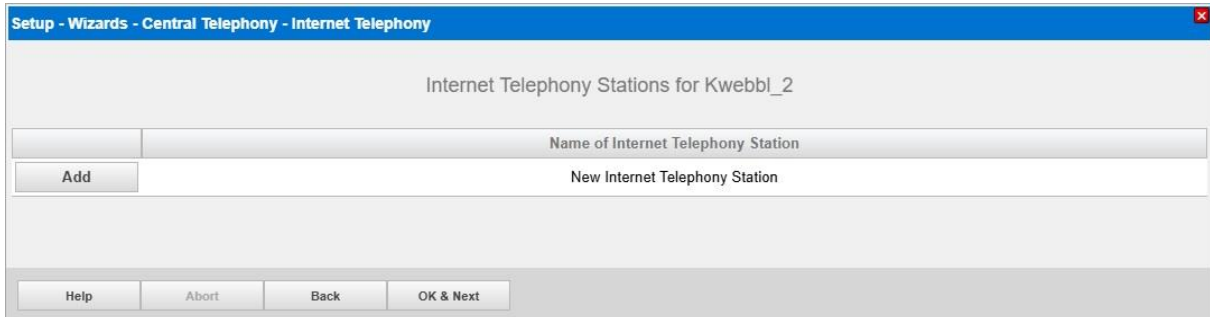
Provider STUN

Use STUN:

Help Abort Back OK & Next Delete Data

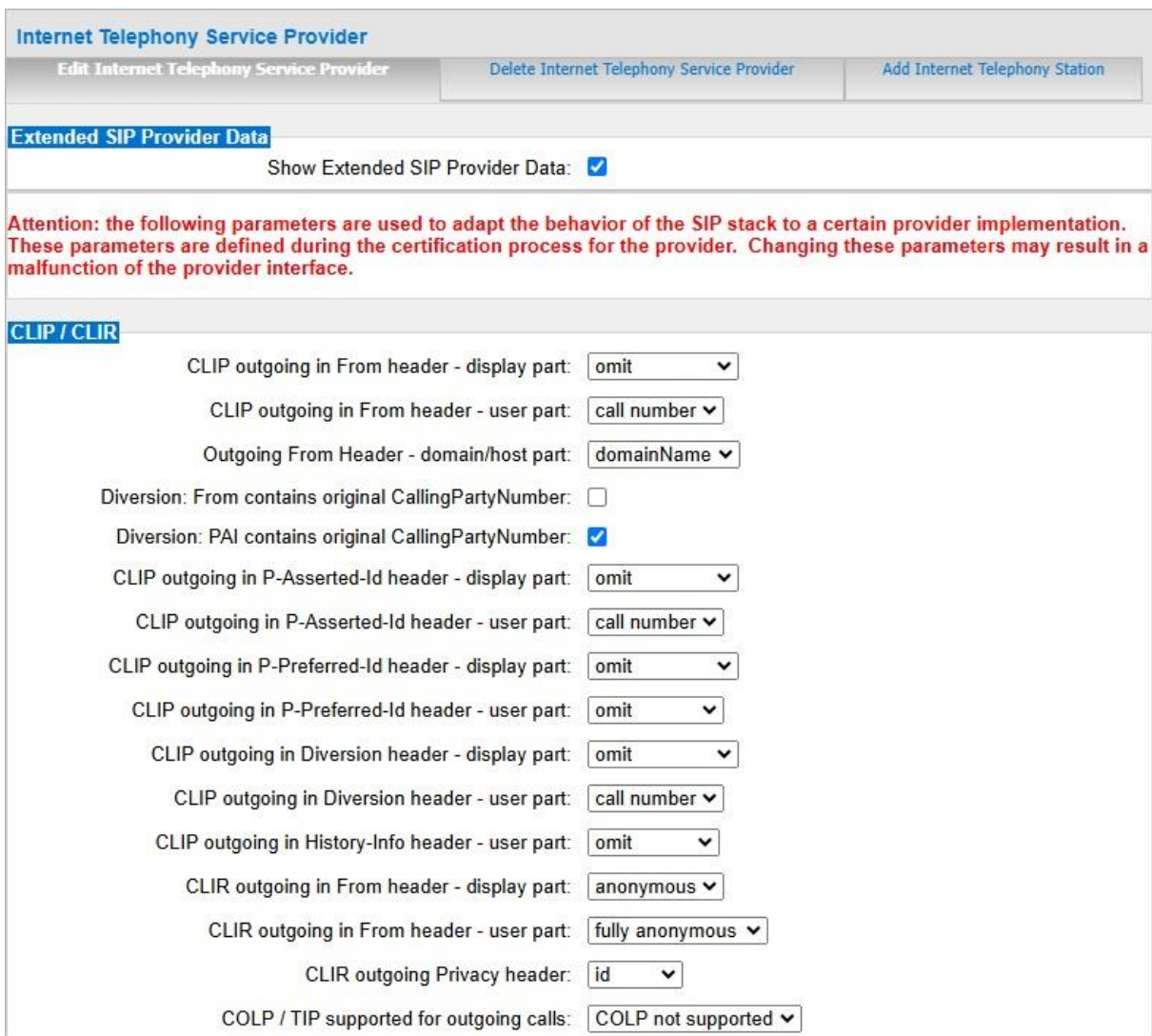
Click [OK & Next]

In the following dialog, the access data is entered, as described in the instructions from [Figure 5](#) onwards.



Extended SIP Provider Data

To ensure compatibility with the **Kwebbl SIP Trunk**, the following settings must be made in Expert Mode → Voice Gateway → Internet Telephony Service Provider → **Kwebbl_2** for the extended SIP provider data:



Internet Telephony Service Provider

Edit Internet Telephony Service Provider

Delete Internet Telephony Service Provider

Add Internet Telephony Station

Call number formatting

Incoming call - Called party number: request line ▼

Incoming call - Calling party number: From header user part ▼

Incoming call - Type of number (calling): automatic ▼

Incoming call - Type of number (called): automatic ▼

Outgoing call - Type of number (calling): automatic ▼

Outgoing call - Type of number (called): automatic ▼

Mapping of provider number: off ▼

CLIP no Screening support: not supported ▼

Call No. with international/national prefix: no ▼

Called number in E164 format: yes ▼

Route optimization: not allowed ▼

MEX supported: no ▼

Contact URI contains: RegistrationAOR ▼

TCP port used in Contact URI: ephem. src-port ▼

Registration

Register Contact contains IP-Address: localIPAddr ▼

ContactUriWithProtocol:

BNC Registration (SIPconnect): normal registration ▼

ReRegistration interval after failure (sec): 120

ReRegistration mode: continuous ▼

ReRegistration after call failure: CallFailureIsNoRegFailure ▼

Internet Telephony Service Provider

Edit Internet Telephony Service Provider Delete Internet Telephony Service Provider Add Internet Telephony Station

Security

UDP mode: symmetric UDP ▾

Approved Peer selection: trust configured Servers only ▾

Miscellaneous

Direct Payload:

Media Renegotiation Avoidance:

Change direction attribute: keep attribute ▾

Silence Suppression attribute: supported ▾

Mediasec extension: not supported ▾

SDP Filter: Default ▾

Check Redirection: Not supported ▾

UseRouteURIAuthentication:

Ignore 100 Rel:

Support 100rel:

UseViaRPort:

UPDATE Supported:

P-Early-Media header support: not supported ▾

Session Timer support: not active ▾

Send automatic 183 response timer (sec): 0

UDP-Keep Alive: UdpKeepAliveON ▾

Keep Alive interval for OPTIONS (sec): 60

Reregistration on OPTIONS Failure: NoRegisterOnFailure ▾

Answer to OPTIONS: Without Body ▾

Apply Undo Restart ITSP Reset Default Values Help

Click on [Apply] and restart the ITSP [Restart ITSP].

Please close the window and run through the ITSP Wizard for *Kwebbl_2* again (Figure 3).