

OpenScape Business V3

How to Configure SIP Trunk for: - AAPT SIP Connect

Australia

About this document

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

Note: The basis for this document is the current OpenScape Business V3 R2. 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.

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Date	Version	Changes
2022-01-13	1.0	released version for OpenScape Business V3R2
2024-09-10	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.

Information

The AAPT SIP Connect SIP-Trunk will be released for the first time with OpenScope Business V3R2.

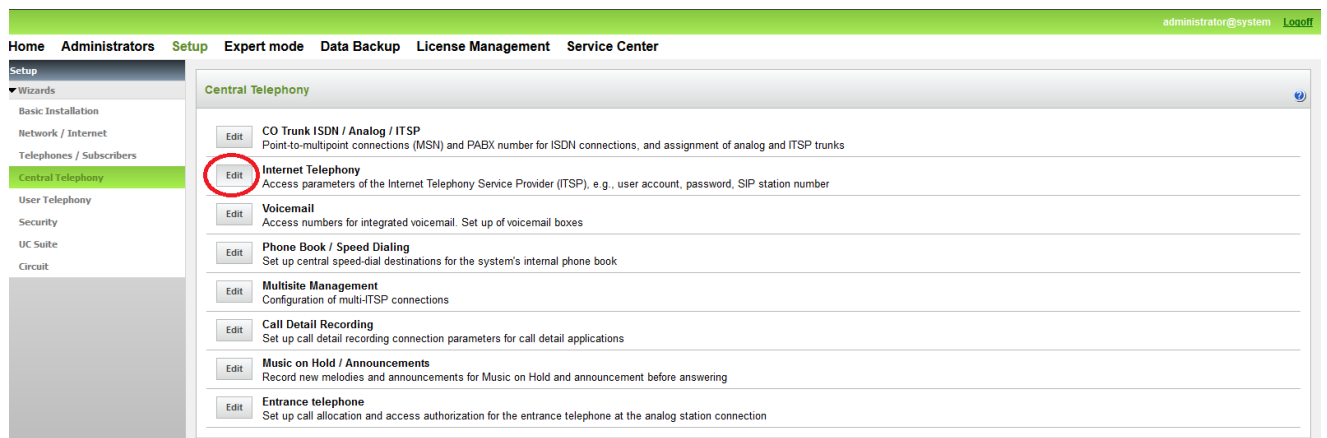
Trunk Configuration Data provided by AAPT SIP Connect

Via email

Configuration Wizard

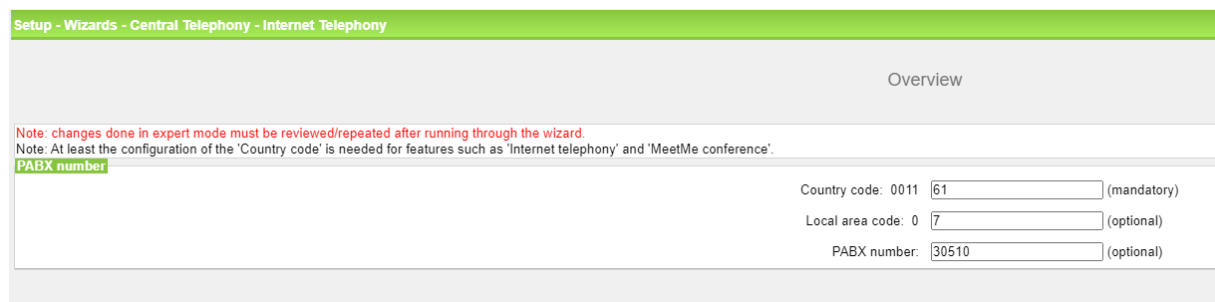
Internet Telephony

Go to Central Telephony – “Internet Telephony“



The screenshot shows the configuration wizard interface. At the top, there is a navigation bar with links: Home, Administrators, Setup, Expert mode, Data Backup, License Management, and Service Center. The user is logged in as administrator@system. On the left, a sidebar menu lists various setup categories, with 'Central Telephony' selected and highlighted in green. The main content area is titled 'Central Telephony' and contains several configuration options, each with an 'Edit' button. The 'Internet Telephony' option is circled in red. Below it are 'Voicemail', 'Phone Book / Speed Dialing', 'Multisite Management', 'Call Detail Recording', 'Music on Hold / Announcements', and 'Entrance telephone'.

The overview page appears for entering the location data. The Country Code, Area code and PABX number is entered (minus the DID which is entered in the station data).



The screenshot shows the 'Overview' page for the 'Internet Telephony' configuration. The page title is 'Setup - Wizards - Central Telephony - Internet Telephony'. Below the title, there is a note: 'Note: changes done in expert mode must be reviewed/repeated after running through the wizard.' and another note: 'Note: At least the configuration of the 'Country code' is needed for features such as 'Internet telephony' and 'MeetMe conference'.' The 'PABX number' field is highlighted in green. The input fields are: Country code: 0011 [61] (mandatory), Local area code: 0 [7] (optional), and PABX number: [30510] (optional).

Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck
Use County specific view: Australia and select AAPT SIP Connect.

	Activate Provider	Internet Telephony Service Provider
Add		Other Provider
Edit	<input checked="" type="checkbox"/>	AAPT SIP Connect
Edit	<input type="checkbox"/>	Broadcloud
Edit	<input type="checkbox"/>	COLT UK & Europe
Edit	<input type="checkbox"/>	COLT VPN
Edit	<input type="checkbox"/>	Commander Primus
Edit	<input type="checkbox"/>	Engin
Edit	<input type="checkbox"/>	gnTel
Edit	<input type="checkbox"/>	Internode
Edit	<input type="checkbox"/>	Skype Connect
Edit	<input type="checkbox"/>	Skype for Business

Activate Provider and click on [Edit].

On the next page enter the following information:

- **Domain Name**

The **SIP Domain Name** and **Registrar Host name** can be found on the paperwork/email provided by AAPT SIP Connect. The SIP Domain Name and Registrar host name are valid for the State that the system resides. Choose the appropriate one from the list below or take the one directly from the paperwork: –

- vic.sip-t.aaptbc.com.au
- nsw.sip-t.aaptbc.com.au
- qld.sip-t.aaptbc.com.au
- tas.sip-t.aaptbc.com.au
- sa.sip-t.aaptbc.com.au
- nt.sip-t.aaptbc.com.au
- wa.sip-t.aaptbc.com.au

The Port is set to “0” in each case to allow for DNS-SRV.

The **Provider Outbound Proxy** is not used and therefore left deactivated, **Route optimize** is not used and should be left unchecked.

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:

Click [OK & Next].

In the next dialog the specific customer SIP Credentials are configured.

Internet Telephony Stations for AAPT SIP Connect	
	Name of Internet Telephony Station
Add	New Internet Telephony Station

Click on [Add].

Data and Credentials are provided on the AAPT SIP Connect paperwork/email

- Internet telephony station:** Username is inserted here (e.g: **0735323821**)
- Authorization name:** Username is inserted here (e.g: **0735323821**)
- Password:** Password provided by AAPT SIP Connect
- Default number:** The Main number of ITSP connection. The default number is used as outgoing number when no DDI number is assigned to a station. (e.g: 0730510813). Usually the **Main Number** is entered here.

Internet telephony station: 0735323821

Authorization name: 0735323821

Password:

Confirm Password:

Call number assignment

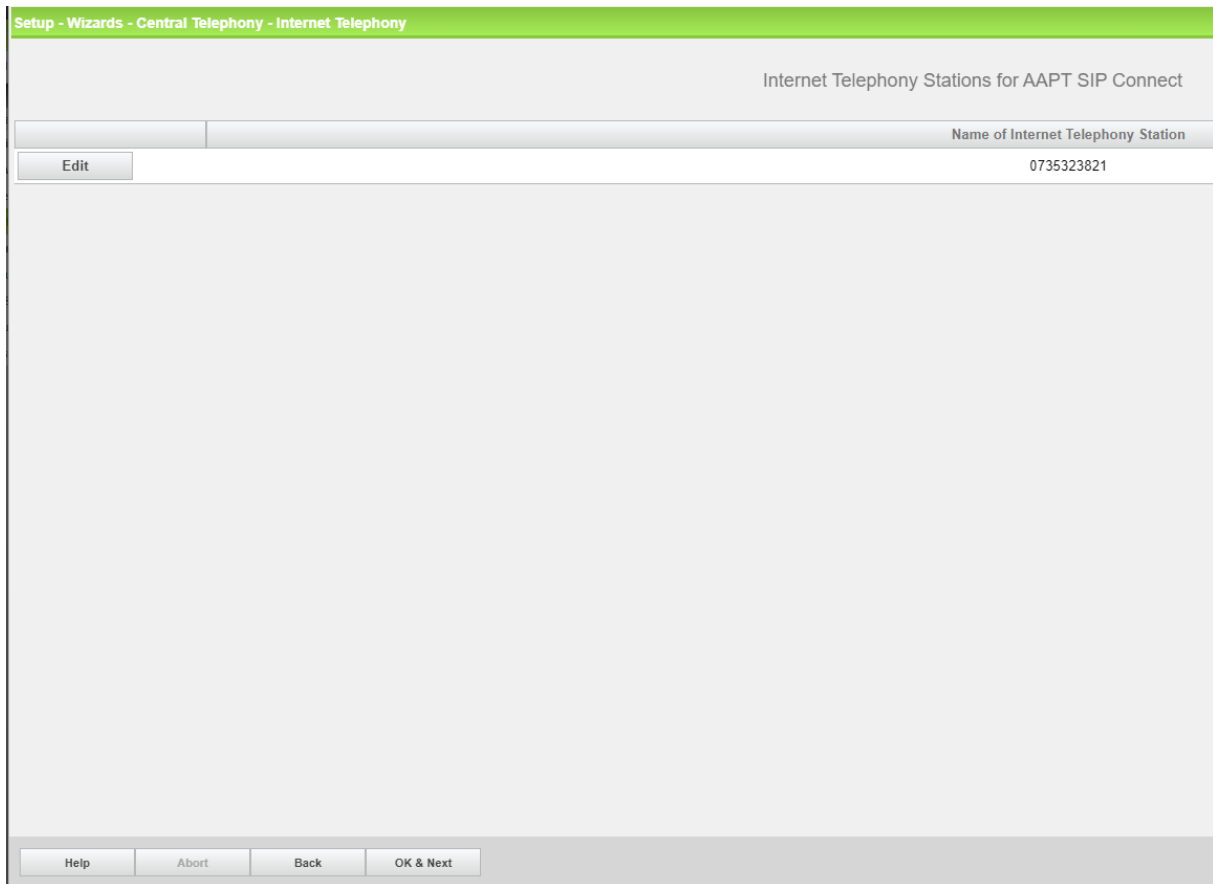
Use public number (DID) [v]

ITSP-multiple route:

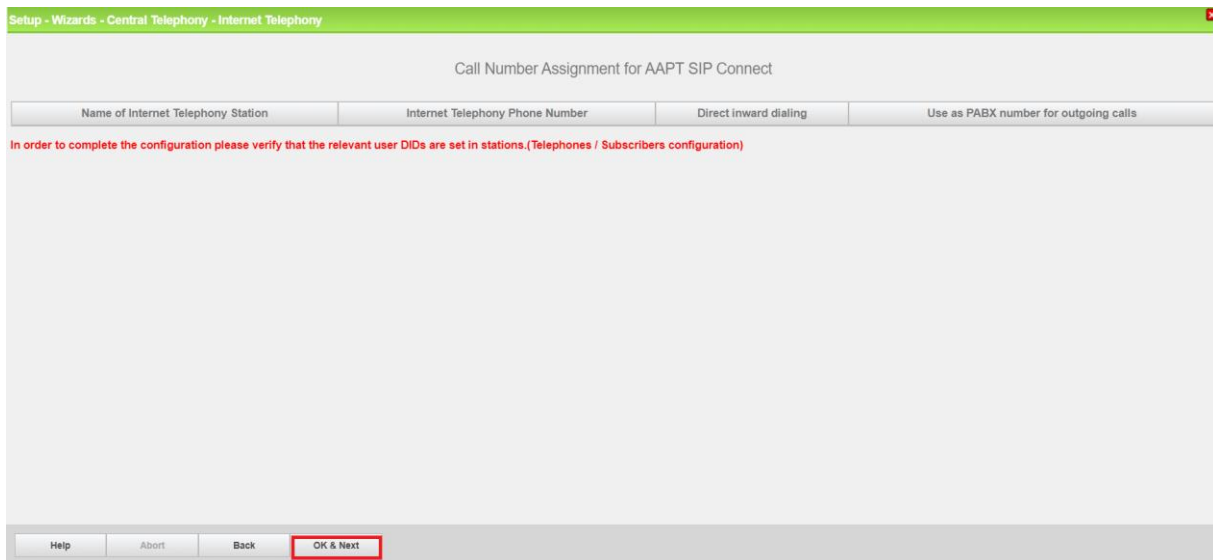
Default Number: 0730510813

Default Number
ITSP as primary CO access
Enter one of the call numbers supplied by your network provider here. This will be used in outgoing calls as the calling party number in case no other number is available for the respective call.
All call numbers supplied by your network provider are to be entered within the trunk and telephones configuration (DID field) primary CO access.

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



Click [OK & Next]



Click [OK & Next] (no input needed)

Setup - Wizards - Central Telephony - Internet Telephony

Provider configuration and activation for Internet Telephony

No call via Internet:

Country specific view:

Note: changes done in expert mode must be reviewed/repeated after running through the wizard.

	Activate Provider	Internet Telej
<input type="button" value="Add"/>		Other Provider
<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	AAPT SIP Connect
<input type="button" value="Edit"/>	<input type="checkbox"/>	Broadcloud
<input type="button" value="Edit"/>	<input type="checkbox"/>	COLT UK & Europe
<input type="button" value="Edit"/>	<input type="checkbox"/>	COLT VPN
<input type="button" value="Edit"/>	<input type="checkbox"/>	Commander Primus
<input type="button" value="Edit"/>	<input type="checkbox"/>	Engin
<input type="button" value="Edit"/>	<input type="checkbox"/>	gnTel
<input type="button" value="Edit"/>	<input type="checkbox"/>	Internode
<input type="button" value="Edit"/>	<input type="checkbox"/>	Skype Connect
<input type="button" value="Edit"/>	<input type="checkbox"/>	Skype for Business
<input type="button" value="Edit"/>	<input type="checkbox"/>	Telstra Australia
<input type="button" value="Edit"/>	<input type="checkbox"/>	Verizon
<input type="button" value="Edit"/>	<input type="checkbox"/>	VoIPXS

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 AAPT SIP Connect paperwork/email.

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) = 10000
In the 'Change Feature --> Internet Telephony' Assistant. This upstream allows you to conduct up to 78 Internet phone calls simultaneously. If the call quality deteriorates due to the network load, you will need to reduce this number of simultaneous Internet Calls. The number of simultaneous Internet Calls also depends on the licensing.

Upstream up to (Kbps): 10000
Number of Simultaneous Internet Calls: 4

Line assignment

Internet Telephony Service Provider	Configured Lines	
AAPT SIP Connect	0	4

Help Abort Back **OK & Next**

Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers. Use 000 to contact Emergency Services in Australia.

The screenshot shows a dialog box titled "Special phone numbers" with a green header bar. Below the header, there is a "Note" section that reads: "Please make sure that all special call numbers are supported by the selected provider without fail." The main area of the dialog is a table with three columns: "Special phone number", "Dialed digits", and "Dial over Provider". The "Special phone number" column contains numbers 1 through 15. The "Dialed digits" column contains a text input field for each number, with "0000" entered in the first field. The "Dial over Provider" column contains a dropdown menu for each number, all of which are set to "AAPT SIP Connect". At the bottom of the dialog, there are four buttons: "Help", "About", "Back", and "OK & Next".

Special phone number	Dialed digits	Dial over Provider
1	0000	AAPT SIP Connect
2		AAPT SIP Connect
3		AAPT SIP Connect
4		AAPT SIP Connect
5		AAPT SIP Connect
6		AAPT SIP Connect
7		AAPT SIP Connect
8		AAPT SIP Connect
9		AAPT SIP Connect
10		AAPT SIP Connect
11		AAPT SIP Connect
12		AAPT SIP Connect
13		AAPT SIP Connect
14		AAPT SIP Connect
15		AAPT SIP Connect

Click [OK & Next]

On next page status of ITSP is displayed.

The screenshot shows a dialog box titled "Status for the Internet Telephony Service Provider (ITSP)" with a green header bar. The dialog displays the status of the ITSP in a table format. The table has four columns: "Provider", "Enabled", "User", and "Diagnose". The "Provider" column contains "AAPT SIP Connect", the "Enabled" column contains "Enabled", the "User" column contains "registered", and the "Diagnose" column contains a "Diagnose" button. There is also a "Restart" button on the left side of the table.

Provider	Enabled	User	Diagnose
AAPT SIP Connect	Enabled	registered	Diagnose

Click [Next]

„Exchange Line Seizure“:

Select which trunk will access code 0.

The screenshot shows a dialog box titled "Exchange Line Seizure" with a green header bar. The dialog has a "Trunk Access Code" field with the value "089" and a "Dial over Provider" dropdown menu set to "AAPT SIP Connect".

Trunk Access Code	089
Dial over Provider	AAPT SIP Connect

Click [OK & Next]

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

Setup - Wizards - Central Telephony - Internet Telephony

Seizure Code for the 'Outside line Seizure'

Seizure code for 'Outside line Seizure'	
AAPT SIP Connect	0

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

DID configuration

In the DID Section, only the last 3 digits of the national number is required.

Expert mode - Telephony Server

Station

UP0 Stations

Station	Callin	DID	First Name	Last Name	Display	Clip/Lin	Active	Device Type	Fax Callin
0 100 UP0e 1									
1 101 UP0e 2									
2 102 UP0e 3									
3 103 UP0e 4									
4 104 -									
5 105 -									
6 106 -									
7 107 -									
8 108 -									

Configure the DID numbers for the IP Clients as well

Additional Configuration

License

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

The screenshot shows the 'License Management' section of a software interface. The 'CO Trunks' section is active, displaying the following information:

- 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
- 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 (highlighted with a red box)

CO Trunks	Type Slot	Port	Feature	Demands

Route Configuration (Best practice)

We have included these settings as most of the ITSP services in Australia will not work without these settings and they are not default.

Change Route: -

Seizure code: 0

Location number: *ticked*

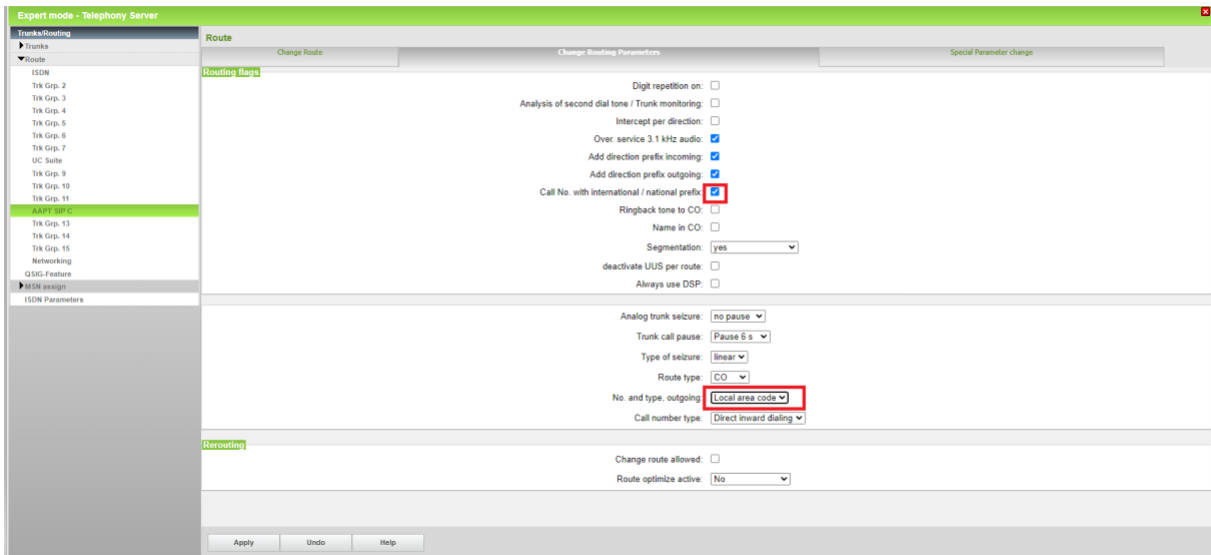
Change Routing Parameters: -

Call No. with international / national prefix: *ticked*

No. and type, outgoing: *Local area code*

The screenshot shows the 'Route Configuration' interface for 'AAPT SIP C'. The 'Change Routing Parameters' section is expanded, showing the following settings:

- Route Name: AAPT SIP C
- Seizure code: 0 (highlighted with a red box)
- CO code (2nd trunk code):
- Gateway Location: Country code: 61, Local area code: 7, PABX number: 30510
- PABX number (incoming): Country code: 61, Local area code: 7, PABX number: 30510, Location number: (highlighted with a red box)
- PABX number (outgoing): Country code: 61, Local area code: 7, PABX number: 30510, Suppress station number: (highlighted with a red box)
- Overflow route: None
- Digit transmission: en-bloc sending
- Mobile Extension Number (MEX):
- Trusted External Users:



Known limitations and restrictions:

- Faxing is based on G.711, T.38 is not supported by AAPT SIP Connect
- Route Optimization is not certified for AAPT SIP Connect
- TLS was not tested.

Mandatory configuration in Expert Mode

Port management - no change

Go to Expert Mode → Telephony Server → Basic Settings → Port Management

Default port configuration was used during the certification, *no changes required*.

Protocol Name	Port Number	
CSP	8800	single
HFA	4060	single
HFA_EXT	4062	single
HFA_TLS	4061	single
HFA_TLS_EXT	4063	single
MEB_SIP	15060	single
RTP_MIN	29100	min. (ext. RTP-port range 30274-30529)
SIP	5060	single
SIP_EXT	5070	single
SIP_TLS_SUB	5062	single
SIP_TLS_SUB_EXT	5071	single
SIPS	5061	single
VSL_MULTISITE	8778	single

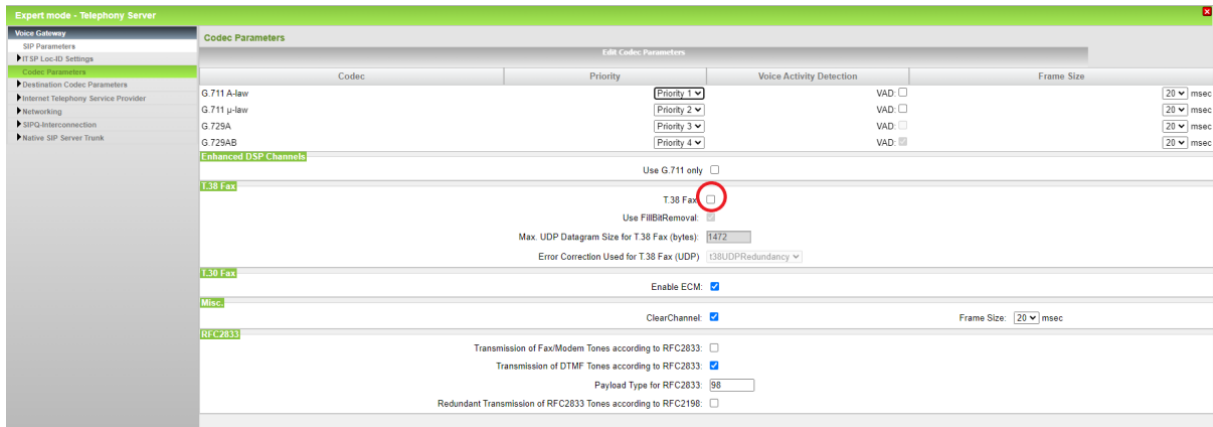
Codec Parameters, deactivate T.38 Fax

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

T38 fax protocol is not supported by AAPT SIP Connect.

Fax is supported via G.711 only.

Untick the T.38 Fax box to deactivate.



Reboot system after applying changes, in order to take effect