



# **OpenScape Business V3**

SIP Trunk configuration

Multi-Registration and Multi-Site

Release Number 09/2024



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### **History of Changes**

Date	Issue	Summary
24.11.2017	1.0	initial version
21.03.2018	1.1	numbering schema update
28.03.2018	1.2	update on screenshot
27.09.2024	1.1	english version with 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.

Comments and corrections are welcome, please contact: <a href="mailto:osbiz-certification@mitel.com">osbiz-certification@mitel.com</a>

## **1** Introduction

The Multisite feature is used for different call scenarios. It allows Providers the handling of numbers from different locations/areas via a single trunk (single registration) or dedicated trunks for each location/area (multiple registrations). This covers the support of migration scenarios from ISDN to IP-based connections.







The Multisite feature is available for **DID based ITSP trunks only** and is required whenever multiple routes are defined for the same ITSP.

With some ITSPs it might be necessary to register each assigned number block individually. In such a case the customer receives a separate access code for each number block. This requires only one route, but the extended option is also required to differentiate between the individual access identifiers (= Internet telephony subscribers).

Additional info is available in the ITSP descriptions and the list of certified ITSPs stored in the Wiki. This data is continually updated.

### Possible use cases

- 1. The customer receives different DID number blocks from his provider with a separate registration per DID number range.
- 2. The customer has an OpenScape Business with several locations in different local areas (multisite) and receives a local telephone number from the associated local network (max. eight) for each location (site). All connections are provided via the same provider and have their own registration.
- 3. The customer has several ITSP DID connections on his OpenScape Business (max. eight) and would like to use the same extension numbers for all connections and use the directional area code to decide which phone number is sent to the central office.

#### When is multiple registration required?

- In DID mode, the SIP stack requires a criterion as to which phone numbers are assigned to a registration. This results in the need to assign unique telephone numbers to a registration.
- If the phone numbers of a connection have to be distributed in different directions, SIP Stack requires a criterion as to which phone numbers belong to one direction.

### When is multiple registration not necessary?

- No registration is used (static mode) and all phone numbers are forwarded in the same direction.
- Only one registration is required for all phone numbers.

# 2 Configuration

### 2.1 Create a basic multiple route

The registration details are entered in the *Internet Telephony* wizard on the following page:

Setup - Wizard	s - Central Telephony - Internet Telephony					
	Internet Telephony S	Station for myITSP				
	Authorization name: Password:	+496987409301 +496987409301@my-provid				
Call number as						
con number us	Use public number (DID)	~				
Default Numbe	ITSP-multiple route:       ✓         Default Number:       +4969874093010         Default Number       +4969874093010					
Enter one of the for the respectiv	e 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 d telephones configuration (DID field) primary CO access.				
	IT SP route prefixes					
Add	+496987409301					
Enter all prefixe	es assigned to this ITSP route.					
	이 가지 않는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이다. 같은 것이 있는 것 같은 것이 있는 것					
Help	Abort Back OK & Next	Delete Data				

If an ITSP requires multiple directions and/or registrations, **ITSP-multiple route** must be enabled. This enables the **ITSP route prefixes** configuration.

The following rules apply to the prefix:

• Phone number format:

The prefix MUST be configured in the same format as the phone number in the request URI of an upcoming INVITE message:

Example: INVITE sip:+49698740930100@87.173.126.61:62274;transport=tcp SIP/2.0

The prefix MUST contain the significant part of the phone number in the same format, i.e. +4969xxxx

Normally the *Default Number* and prefix are in the same format

Examples (in E.164 format):

- Number range: +496987409301 00-99
- **Default Number**: +4969874093010
- Prefix: +496987409301

If other formats are used (e.g. 004969... or 069...) the above rule applies accordingly.

- The prefix contains the significant part of the number range (always left-aligned).
- Prefix == **Default Number**:

If only one Internet telephony subscriber is configured on the ITSP and the prefix is identical to the **Default Number**, the prefix does not need to be added.

On following page of the wizard, the **Default Number** and prefixes are displayed for review:

Setup - Wizards - Central Telephony - Internet Telephony X				
Call Number Assignment for myITSP				
In order to complete the configurat	ion please verify that the relevant user DIDs are set i	n stations.(Telephones / S	ubscribers configuration)	
Name of Internet Telephony Sta	tion Internet Telephony Phone Number	Internal Call Number	Use as PABX number for outgoing calls	
+496987409301	+496987409301	-		
+496987409301	+4969874093010	-	۲	
Help Abort	Back OK & Next			

### 2.2 Add an additional ITSP route

For scenarios where multiple ITSP routes are required the **Add "Other Provider"** functionality is required:

Setup - Wizards	- Central Telephony - Interne	et Telephony		
	Pro	ovider configuration and ac	tivation for Internet Telephony	Î
Note: changes do	ne in expert mode must be revi	No call via Internet: Country specific view: weed/repeated after running throug	Germany V	
	Activate Provider		Internet Telephony Service Provider	
Add		Other Provider		
Edit		60		
Edit		All Transmit		
Edit		Mar Law		-
Help	Abort Back	OK & Next	Display Status	

On the following page you can select the appropriate ITSP under **Base Template**. All data defined in the profile is adopted.

Setup - Wizards - Central Telephony - Internet Telephony	×
Internet Telephon	y Service Provider
Base Template:	myITSP - imported
Provider Name:	myITSP_2
Enable Provider:	
Secure Trunk:	
Domain Name:	my.itsp.com
Transport protocol:	udp 🗸
Provider Registrar Use Registrar	0
IP Address / Host name:	my.itsp.com
Port	5060
Reregistration Interval at Provider (sec)	600
Provider Proxy IP Address / Host name:	my.itsp.com
Port:	· · · · · · · · · · · · · · · · · · ·
Provider Outbound Proxy	2000
Use Outbound Proxy:	
IP Address / Host name:	
-	Y
Help Abort Back OK & Next	Delete Data

A unique provider name (here: **myITSP\_2**) must be assigned. The name length is limited to 10 characters. This name is also used to identify the route used to reach the ITSP.

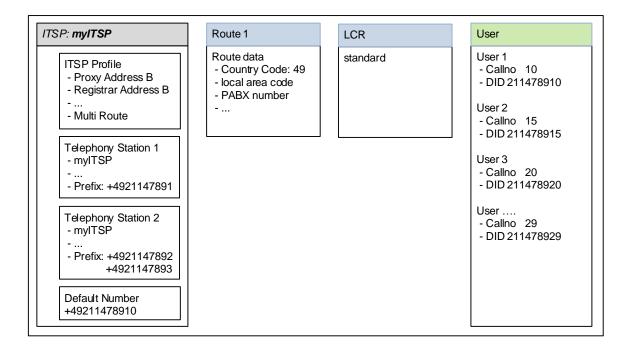
The **Internet telephony station** is then configured. The same instructions apply here as when setting up the 1<sup>st</sup> ITSP (see: **myITSP**).

# **3 Examples**

### 3.1.1 DID account with separate registration per DID number range

The customer receives different DID number ranges (blocks) from his provider with a separate registration.

- DID range 1: +49-211-4789 10 19
- DID range 2: +49-211-4789 20 39



In this example, two registrations are necessary to cover the DID ranges.

### **Configuration steps**

Select ITSP: myITSP

- configure first Internet Telephony Station for myITSP (see 2.1)
  - add New Internet Telephony Station
  - enter account data
  - assign **Default Number** (e.g. +49211478910)
  - enable ITSP-multiple route
  - add prefix +4921147891
- configure second Internet Telephony Station for **myITSP** 
  - add New Internet Telephony Station
  - enter account data
  - **Default Number** is preassigned (e.g. +49211478910)

Since there is no unique prefix for "DID range 2", two prefixes must be configured

- add prefix +4921147892
- add prefix +4921147893

Setup - Wizards -	Central Telephor	ıy - Internet Tele	ephony		×
			Internet Telepho	ony Stations for myITSP	
			Nar	ne of Internet Telephony Station	
Add	New Internet Telephony Station				
Edit	+4921147891				
Help	Abort	Back	OK & Next		

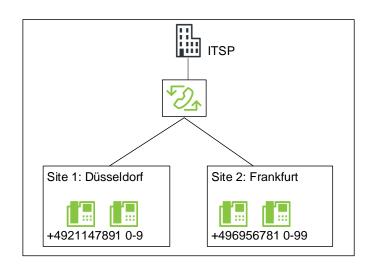
Setup - Wizards -	Setup - Wizards - Central Telephony - Internet Telephony X			
	Inte	ernet Telephony	Station for myITSP	
	Intern	et telephony station:	+4921147892	
		Authorization name:	+4921147892@my-provider.	
		Password:	••••	
		Confirm Password:	••••	
		ITSP-multiple route:		
	Default Number: +49211478910			
Enter one of the c available for the re	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.			
			ITSP route prefixes	
Add				
Delete	+4921147892			
Delete	+4921147893			
Enter all prefixes assigned to this ITSP route.				
Help	Abort Back	OK & Next	Delete Data	

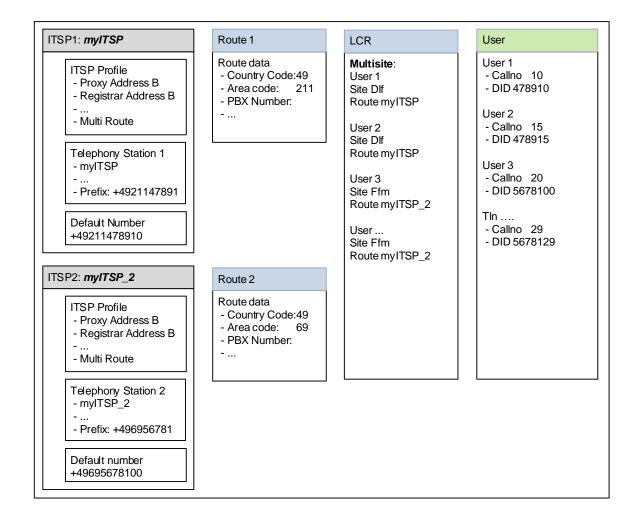
Call Number Assignment for myITSP				
In order to complete the configuration ple	ease verify that the relevant user DIDs are set in s	stations.(Telephones / Sub	scribers configuration)	
Name of Internet Telephony Station	Internet Telephony Phone Number	Internal Call Number	Use as PABX number for outgoing calls	
+4921147891	+4921147891	-	0	
+4921147891	+49211478910		۲	
+4921147892	+4921147892			
+4921147892	+4921147893	-	0	

#### 3.1.2 Multisite with different area codes via one provider

The customer has an OpenScape business with several locations in different local areas (multisite) and receives a local telephone number from the associated local area (max. 8) for each location. All connections are provided via the same provider and have their own registration

- DID range local area 1: +49-211-47891 0 9
- DID range local area 2: +49-69-56781 0 99





In this example, two registrations are necessary to cover the local areas and the number range.

### **Configuration steps**

#### Select ITSP: myITSP

- configure first Internet Telephony Station for *myITSP* (see: 2.1 Create a basic multiple route)
  - add New Internet Telephony Station
  - enter account data
  - assign **Default Number** (e.g. +49211478910)
  - enable **ITSP-multiple route**
  - add prefix +4921147891

Via the Internet Telephony wizard add **Other Provider myITSP\_2** using the **myITSP** template (see: 2.2 Add an additional ITSP route)

- configure second Internet Telephony Station for *myITSP\_2* (see: 2.1 Create a basic multiple route)
  - add New Internet Telephony Station
  - enter account data
  - assign **Default Number** (e.g. +4969567810)
  - enable *ITSP-multiple route*
  - add prefix +496956781

Setup - Wizards -	Central Telepho	ny - Internet Tele	phony	2
			Internet Telephony	Station for myITSP
		I	nternet telephony station	+4921147891
Authorization name:			Authorization name	+4921147891@my-provider.
Password:			Password	••••
			Confirm Password	••••
	ITSP-multiple route:			
	Default Number: +49211478910			+49211478910
Enter one of the c available for the re	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.			
				ITSP route prefixes
Add				
Delete	Delete +4921147891			
Enter all prefixes a	Enter all prefixes assigned to this ITSP route.			
Help	Abort	Back	OK & Next	Delete Data

Setup - Wizards - Central Telephony - Internet Telephony					
Inte	ernet Telephony S	Station for myITSP_2			
Inter	rnet telephony station:	+496956781			
	Authorization name:	+496956781@my-provider.c			
	Password:	••••			
	Confirm Password:	••••			
ITSP-multiple route:					
	Default Number: +4969567810				
available for the respective call.	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				
		ITSP route prefixes			
Add					
Delete +496956781					
Enter all prefixes assigned to this ITSP route.					
Help Abort Back	OK & Next	Delete Data			

### Perform route configuration and **Multisite Management** wizard

Setu	o - Wizards - N	etwork / Internet - Multisite	Management	×				
	Define multi-site areas based on an area dialing code and assign the corresponding ITSP/trunk group							
Up	to 8 areas with f	reely editable names and an o	ptional max 15 digit area dialing code with lea	ading national prefix (0)				
Cor	figuration of are	eas allows users to dial a local	destination w/o area dialing string					
	Delete	Area Code	Area	Dedicated Route				
1		211	Düsseldorf	myITSP 🗸				
2		69	Frankfurt	myITSP_2 🗸				
3				- •				
4				- •				
5				- •				
6				- •				
7				- •				
8				- •				
	Help	Abort Back	OK & Next Save					

Move from area: all v to area: Frankfurt v						
					×	
	-			-	System Client	Dusseidon
	10		211478910	User 1	System Client	Düsseldorf
	15		211478915	User 2	System Client	Düsseldorf
<ul><li>✓</li></ul>	20		695678120	User 3	System Client	Frankfurt
<b>~</b>	29		695678129	User 4	System Client	Frankfurt
	-		5.	-	System Client	Düsseldorf
	2		-	1	System Client	Düsseldorf

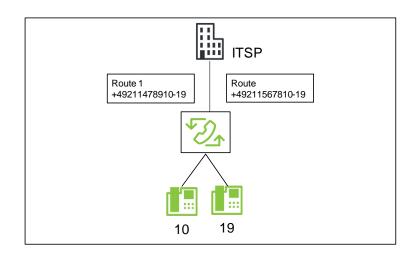
to assign the User to the different sites.

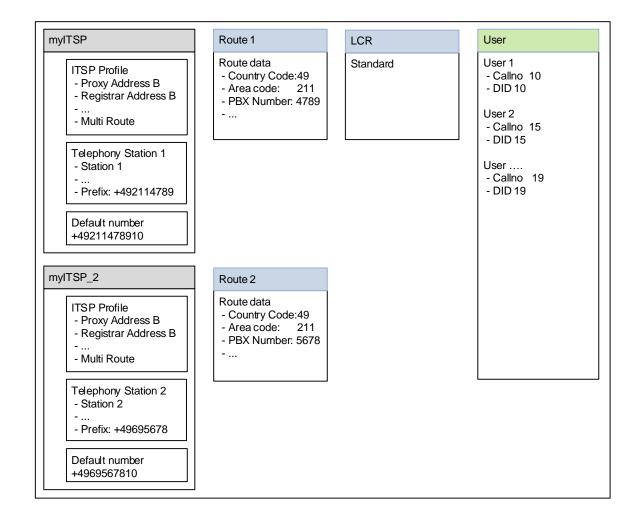
### 3.1.3 Different Routes for ITSP accounts of one Provider.

The customer has several ITSP DID connections on his OpenScape Business (max. 8) and would like to use the same extension numbers for all connections and use the line/direction code to decide which phone number is sent to the outside world.

In this example, two phone number ranges with identical extension ranges are used. The participants can therefore be reached via two different telephone numbers. Both number bands require their own direction and own registrations to cover the number range.

- DID range 1: +49-211-4789 10 19
- DID range 2: +49-211-5678 10 19





In this example, two registrations are necessary to cover the local areas and the number range.

### **Configuration steps**

### Select ITSP: myITSP

- configure first Internet Telephony Station for *myITSP* (see: 2.1 Create a basic multiple route)
  - add New Internet Telephony Station
  - enter account data
  - assign **Default Number** (e.g. +49211478910)
  - enable ITSP-multiple route
  - add prefix +492114789

Via the Internet Telephony wizard add **Other Provider myITSP\_2** using the **myITSP** template (see: 2.2 Add an additional ITSP route)

- configure second Internet Telephony Station for *myITSP\_2* 
  - (see: 2.1 Create a basic multiple route)
  - add New Internet Telephony Station
  - enter account data
  - assign **Default Number** (e.g. +49211567810)
  - enable **ITSP-multiple route**
  - add prefix +492115678



**Attention**: please be aware with this configuration that the **UC functionality** is ONLY possible via the default location (usually seizure code "0").



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