

Konfigurationsbeispiel für Unify OpenScape Business

Bitte leiten Sie dieses Dokument an den zuständigen Techniker bzw. Systemintegrator weiter!

Dieses Dokument dient zur Unterstützung bei der Konfiguration der IP-PBX mit dem M-net SIP-Trunk. Die Empfehlung gilt für die freigegebene Version. Bei Änderung an Hard- bzw. Software kann es zu Abweichungen kommen. In diesem Fall ist eine fehlerfreie Funktion mit dem M-net VoIP Vermittlungssystem nicht mehr garantiert.

Details zur IP-PBX	
Hersteller	Unify
PBX-Bezeichnung	OpenScape Business
zusätzliche Hardware	
Softwareversion	V2 R3.0.1
Zertifizierungsstufe	Zertifizierte Kompatibilität
bekannte Einschränkungen	Partial Rerouting wird von der PBX nicht unterstützt Faxe über die UC-Suite Faxbox sind nicht möglich, da die UC-Suite Faxbox nur T.38 unterstützt Verwendung mehrerer SIP-Trunk Anschlüsse nicht möglich

Hinweis:

Das SIP Application Layer Gateway (kurz: SIP ALG) ist in einer Vielzahl von modernen Routern zu finden. Durch die Funktion des SIP ALG sollen etwaige Probleme mit NAT umgangen werden. Die VoIP Infrastruktur von M-net verfügt über wirksame Methoden, die den Einsatz eines SIP ALG überflüssig machen. Das SIP ALG ist nur zu aktivieren, wenn über den Inhalt und Funktion des SIP Nachrichtenverlaufes in Kombination mit NAT-Traversal detaillierte Kenntnisse bestehen. Andernfalls ist das SIP ALG zu deaktivieren.

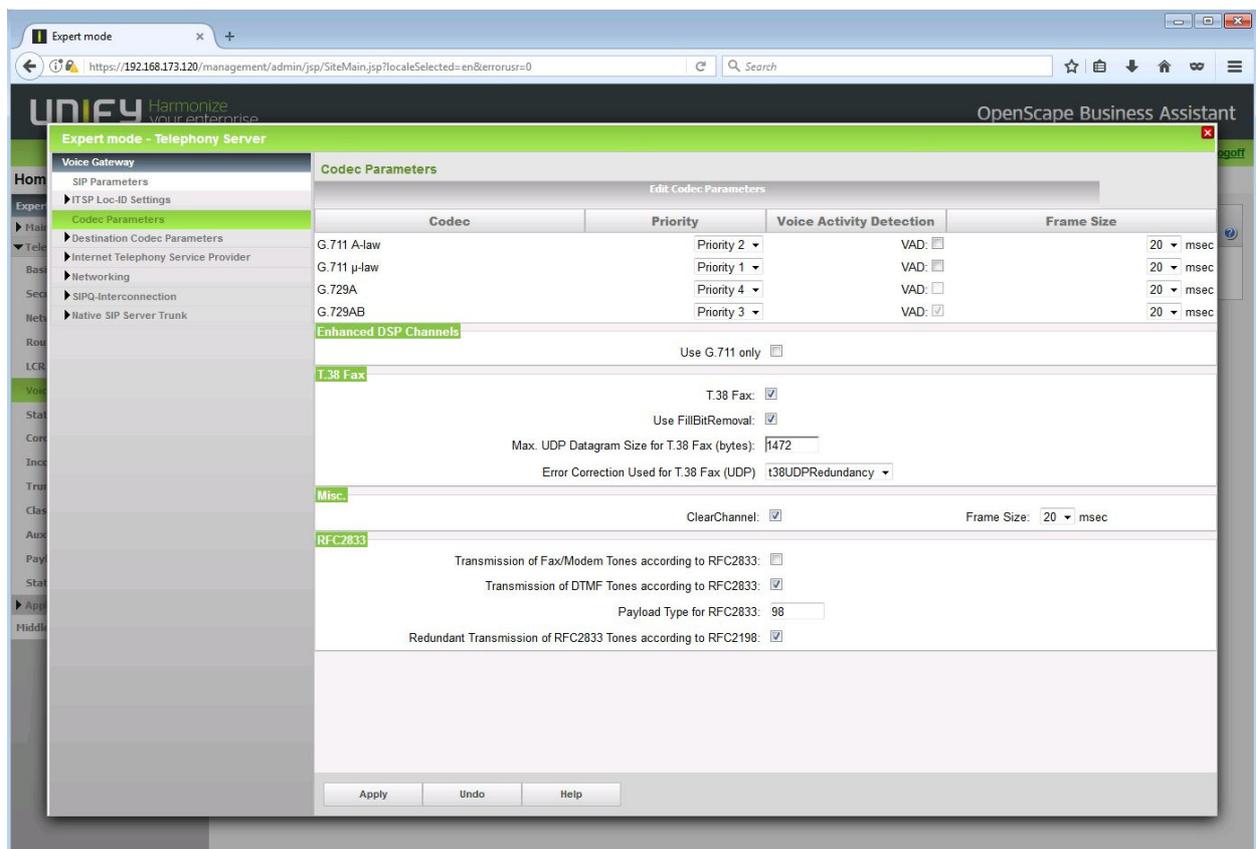
Hier sind die IP-Adressen der Domain „business.mnet-voip.de“, falls dies in einer Firewall eingetragen werden müssen:

Protokolle	IP-Adressen und Ports der Domain business.mnet-voip.de
Signalisierung (SIP)	62.216.220.1 und 62.216.221.1 / Port 5060
Mediadaten (RTP)	62.216.222.1 und 62.216.222.33 / Portrange: 16385 - 65535

Verschlüsselung (TLS/SRTP) 62.216.220.1 und 62.216.221.1 / Port 5061

Weitere technische Informationen zur Sprachplattform finden Sie in den technischen Hinweisen in Kapitel 6: https://www.m-net.de/Technische_Hinweise

1. Einstellungen Codec Parameters



The screenshot shows the 'Expert mode - Telephony Server' configuration page in the OpenScape Business Assistant. The 'Codec Parameters' section is active, displaying a table of codec settings and various configuration options.

Codec	Priority	Voice Activity Detection	Frame Size
G.711 A-law	Priority 2	VAD: <input type="checkbox"/>	20 msec
G.711 μ-law	Priority 1	VAD: <input type="checkbox"/>	20 msec
G.729A	Priority 4	VAD: <input type="checkbox"/>	20 msec
G.729AB	Priority 3	VAD: <input checked="" type="checkbox"/>	20 msec

Below the table, there are several sections with checkboxes and dropdown menus:

- Enhanced DSP Channels:** Use G.711 only
- T.38 Fax:**
 - T.38 Fax:
 - Use FillBitRemoval:
 - Max. UDP Datagram Size for T.38 Fax (bytes): 1472
 - Error Correction Used for T.38 Fax (UDP): t38UDPRedundancy
- Misc:**
 - ClearChannel:
 - Frame Size: 20 msec
- RFC 2833:**
 - Transmission of Fax/Modem Tones according to RFC2833:
 - Transmission of DTMF Tones according to RFC2833:
 - Payload Type for RFC2833: 98
 - Redundant Transmission of RFC2833 Tones according to RFC2198:

At the bottom of the page, there are buttons for 'Apply', 'Undo', and 'Help'.

2. Konfiguration SIP-Provider

Expert mode - Telephony Server

Internet Telephony Service Provider

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

Provider Name: M-net Premium SIP-Trunk

Enable Provider:

Provider Identifier in System: Trunk Group 12

Domain Name: business.mnet-voip.de

Transport protocol: udp

Transport security: traditional (udp or tcp)

Media security: RTP only

Provider Registrar

Use Registrar:

IP Address / Host name: business.mnet-voip.de

Port: 5060

Registration Interval at Provider (sec): 1200

Provider Proxy

IP Address / Host name: business.mnet-voip.de

Port: 5060

Provider Outbound Proxy

Use Outbound Proxy:

IP Address / Host name: 0.0.0.0

Port: 0

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:

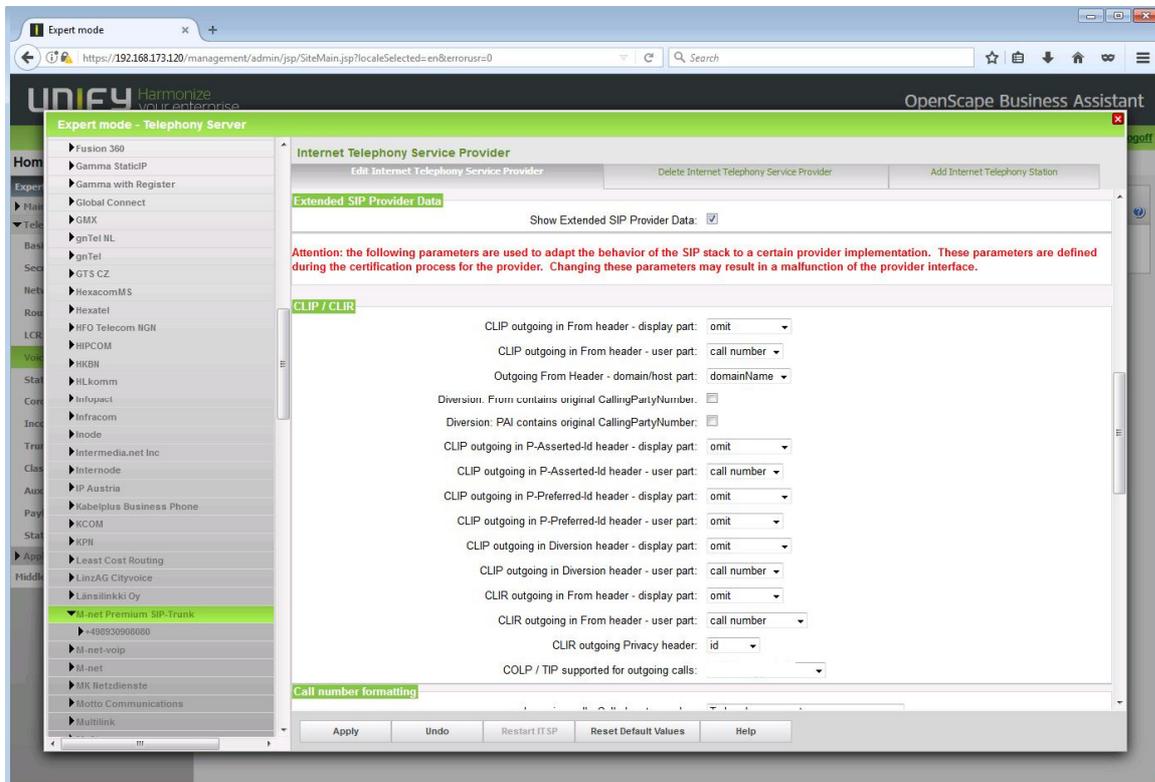
IP Address / Host name: stun.mnet-voip.de

Port: 3478

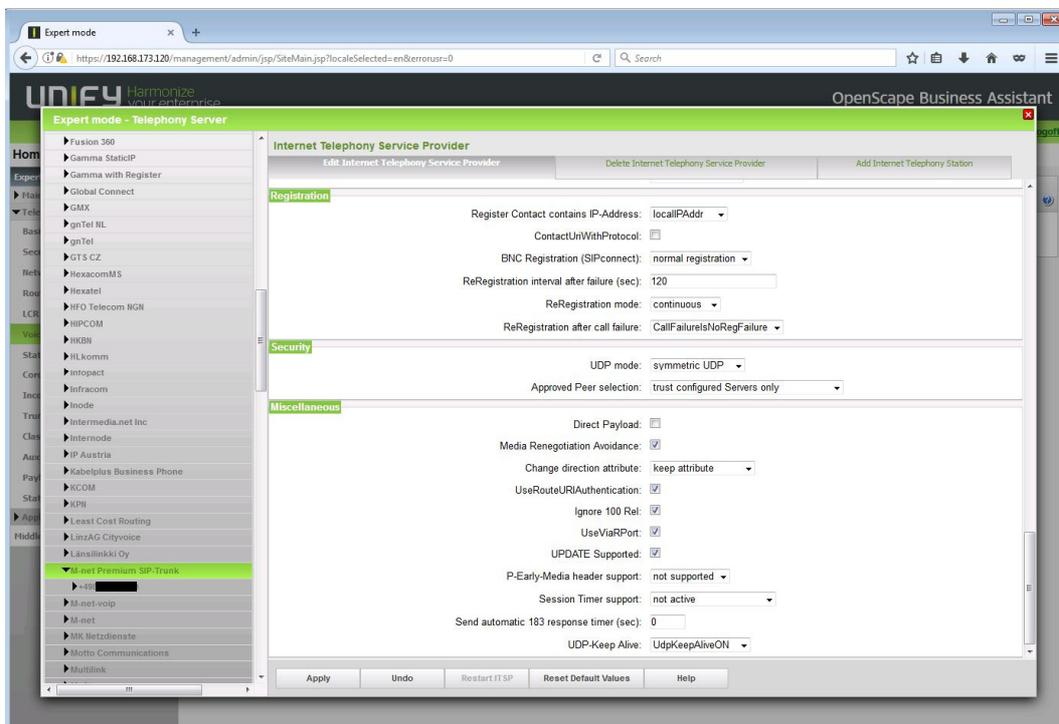
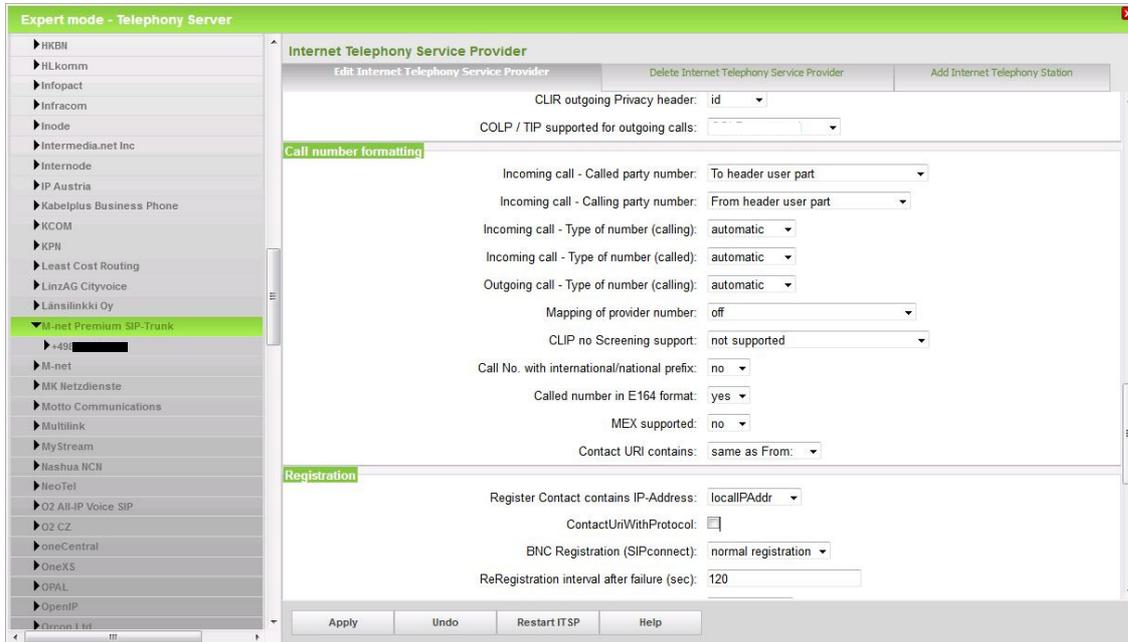
Extended SIP Provider Data

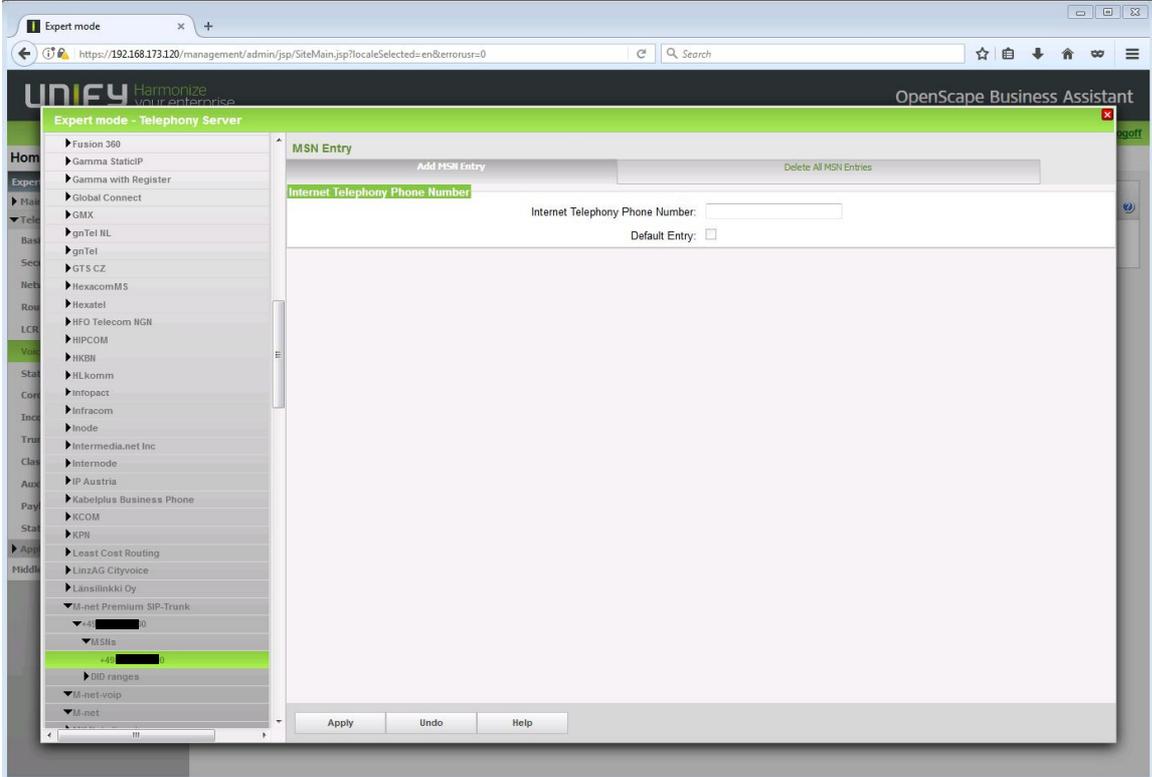
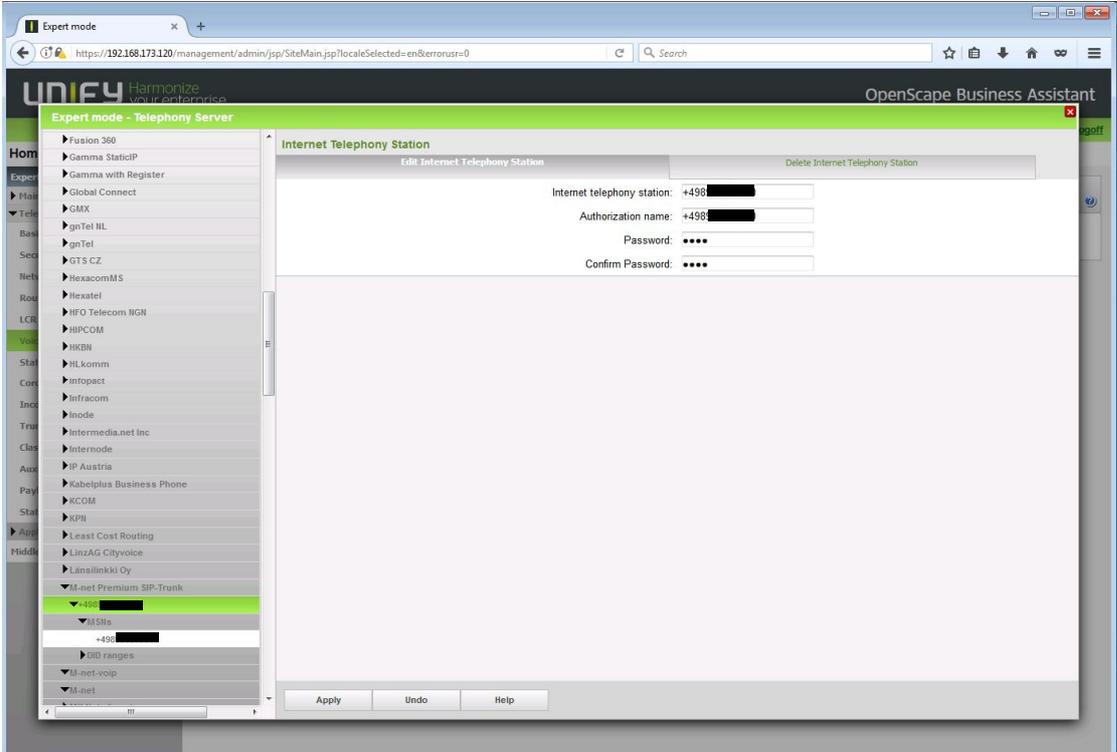
Show Extended SIP Provider Data:

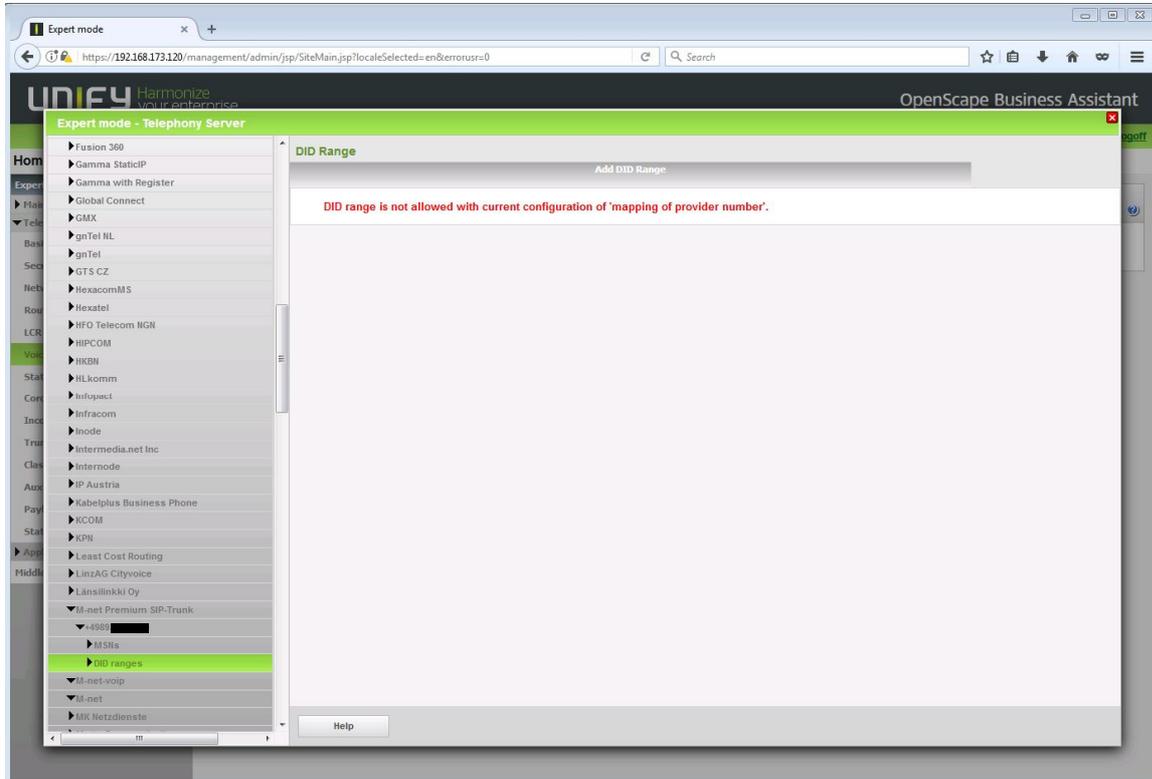
Apply Undo Restart ITSP Help

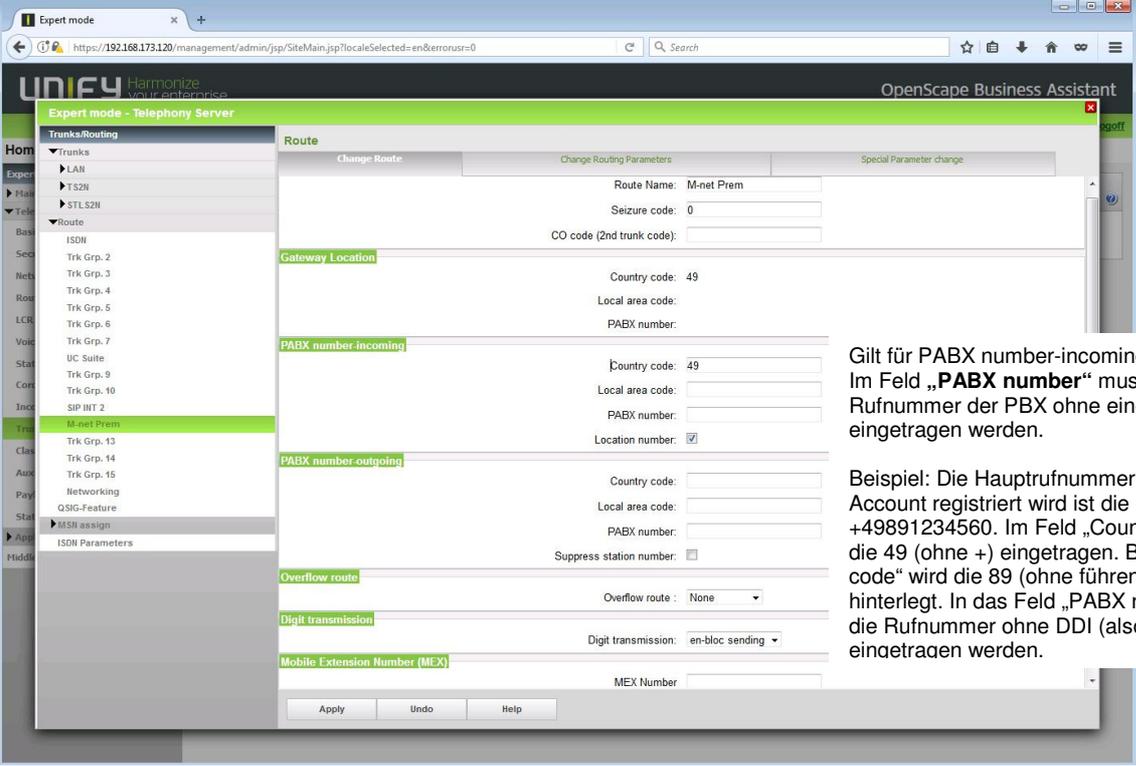


Da das Leistungsmerkmal COLP bei M-net nicht unterstützt wird, ist "COLP/TIP supported for outgoing Calls" ggf. zu deaktivieren









Route

Route Name: M-net Prem
 Seizure code: 0
 CO code (2nd trunk code):

Gateway Location

Country code: 49
 Local area code:
 PABX number:

PABX number-incoming

Country code: 49
 Local area code:
 PABX number:
 Location number:

PABX number-outgoing

Country code:
 Local area code:
 PABX number:
 Suppress station number:

Overflow route

Overflow route: None

Digit transmission

Digit transmission: en-bloc sending

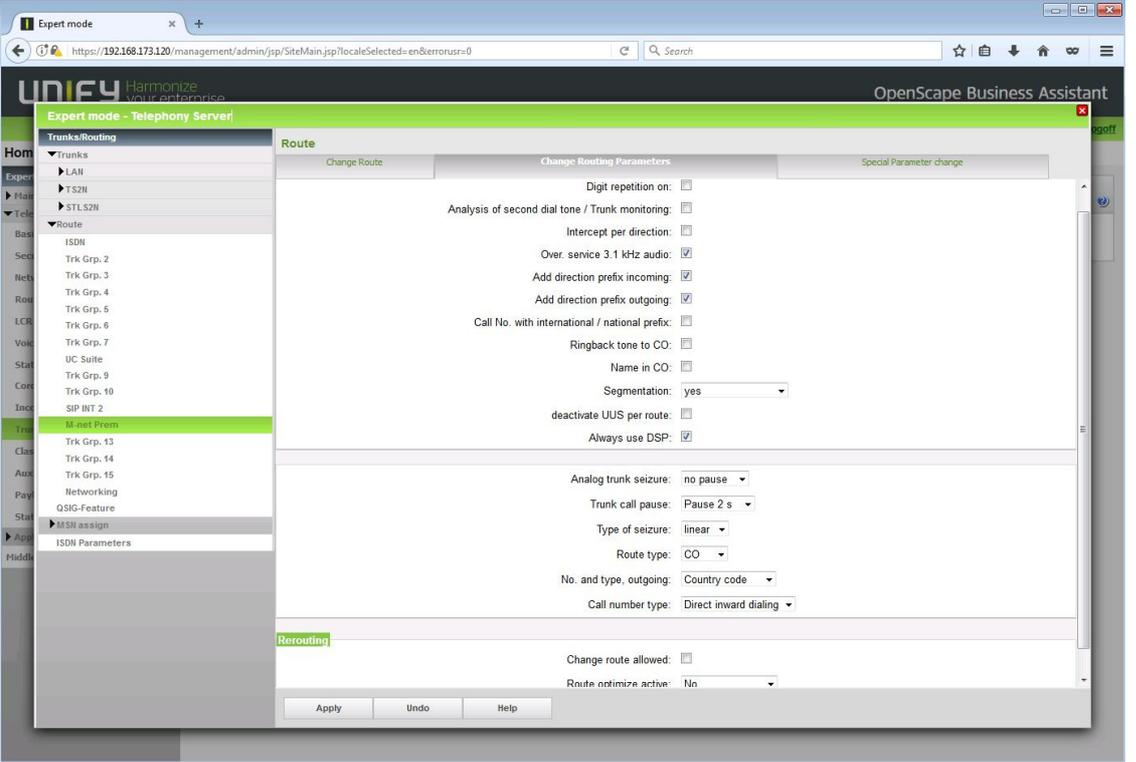
Mobile Extension Number (MEX)

MEX Number:

Apply Undo Help

Gilt für PABX number-incoming:
 Im Feld „PABX number“ muss die Rufnummer der PBX ohne eine DDI eingetragen werden.

Beispiel: Die Hauptrufnummer, mit der der Account registriert wird ist die +49891234560. Im Feld „Country Code“ wird die 49 (ohne +) eingetragen. Bei „Local area code“ wird die 89 (ohne führende 0) hinterlegt. In das Feld „PABX number“ muss die Rufnummer ohne DDI (also 123456) eingetragen werden.



Route

Digit repetition on:
 Analysis of second dial tone / Trunk monitoring:
 Intercept per direction:
 Over. service 3.1 kHz audio:
 Add direction prefix incoming:
 Add direction prefix outgoing:
 Call No. with international / national prefix:
 Ringback tone to CO:
 Name in CO:
 Segmentation: yes

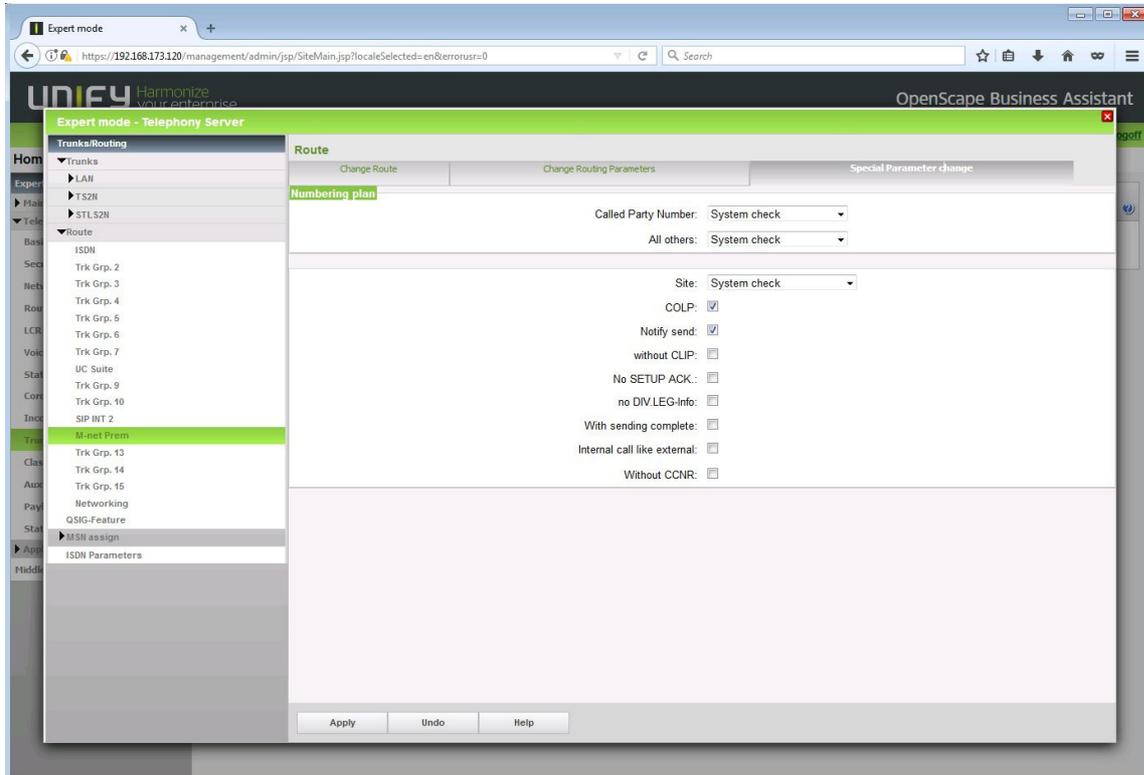
deactivate UUS per route:
 Always use DSP:

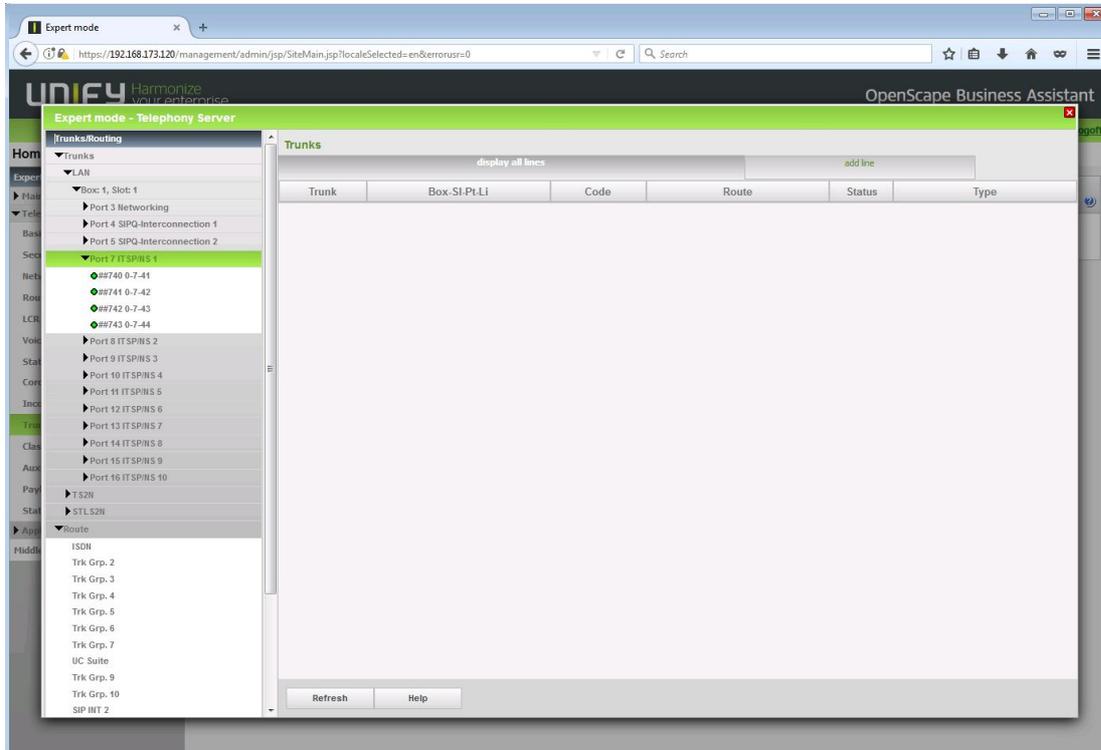
Analog trunk seizure: no pause
 Trunk call pause: Pause 2 s
 Type of seizure: linear
 Route type: CO
 No. and type, outgoing: Country code
 Call number type: Direct inward dialing

Rerouting

Change route allowed:
 Route optimize active: No

Apply Undo Help





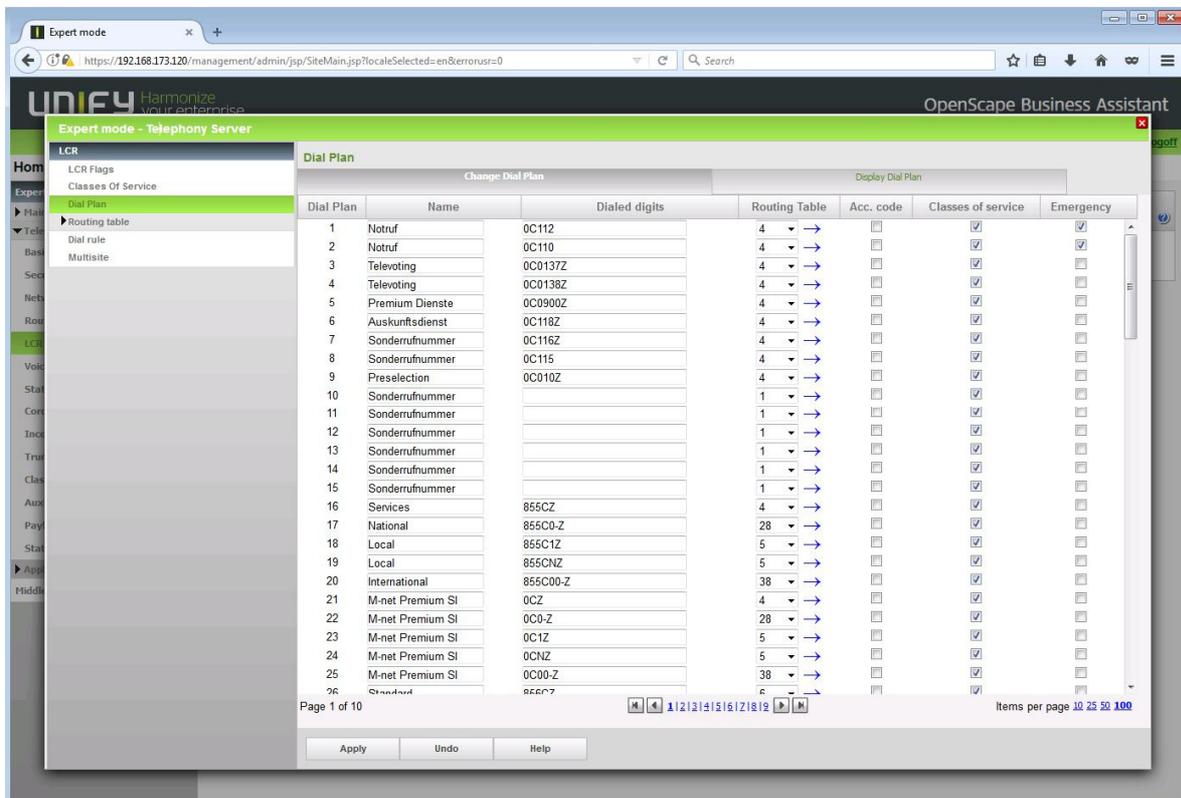
Expert mode - Telephony Server

Trunks

display all lines

Trunk	Box-SI-Pt-Li	Code	Route	Status	Type
-------	--------------	------	-------	--------	------

Refresh Help



Expert mode - Telephony Server

Dial Plan

Change Dial Plan

Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency
1	Notruf	0C112	4		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Notruf	0C110	4		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Televoiting	0C0137Z	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Televoiting	0C0138Z	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Premium Dienste	0C0900Z	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Auskunftsdienst	0C118Z	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Sonderrufnummer	0C116Z	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Sonderrufnummer	0C115	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Preselection	0C010Z	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Sonderrufnummer		1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Sonderrufnummer		1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Sonderrufnummer		1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Sonderrufnummer		1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	Sonderrufnummer		1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	Sonderrufnummer		1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	Services	855CZ	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	National	855C0-Z	28		<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	Local	855C1Z	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	Local	855CNZ	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	International	855C00-Z	38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	M-net Premium SI	0CZ	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
22	M-net Premium SI	0C0-Z	28		<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	M-net Premium SI	0C1Z	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	M-net Premium SI	0CANZ	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	M-net Premium SI	0C00-Z	38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	Standard	855C7	6		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Page 1 of 10

Apply Undo Help

Expert mode

https://192.168.173.120/management/admin/jsp/SiteMain.jsp?localeSelected=en&errorusr=0

UNIFY Harmonize your enterprise

OpenScape Business Assistant

Expert mode - Telephony Server

LCR

- LCR Flags
- Classes Of Service
- Dial Plan
- Routing table
 - 1 - Table
 - 2 - Table
 - 3 - Table
 - 4 - Table
 - 5 - Table
 - 6 - Table
 - 7 - Table
 - 8 - Table
 - 9 - Table
 - 10 - Table
 - 11 - Table
 - 12 - Table
 - 13 - Table
 - 14 - Table
 - 15 - Table
 - 16 - Table
 - 17 - Table
 - 18 - Table
 - 19 - Table
 - 20 - Table
 - 21 - Table
 - 22 - Table
 - 23 - Table
 - 24 - Table
 - 25 - Table
 - 26 - Table
 - 27 - Table
 - 28 - Table
 - 29 - Table
 - 30 - Table
 - 31 - Table

Change Routing Table

Routing Table: 4 en-bloc sending

Index	Dedicated Route	Route	Dial Rule	min. COS	Warning	Dedicated Gateway	GW Node ID
1	<input type="checkbox"/>	M-net Prem	SIP →	15	None	No	
2	<input type="checkbox"/>	None	None	15	None	No	
3	<input type="checkbox"/>	None	None	15	None	No	
4	<input type="checkbox"/>	None	None	15	None	No	
5	<input type="checkbox"/>	None	None	15	None	No	
6	<input type="checkbox"/>	None	None	15	None	No	
7	<input type="checkbox"/>	None	None	15	None	No	
8	<input type="checkbox"/>	None	None	15	None	No	
9	<input type="checkbox"/>	None	None	15	None	No	
10	<input type="checkbox"/>	None	None	15	None	No	
11	<input type="checkbox"/>	None	None	15	None	No	
12	<input type="checkbox"/>	None	None	15	None	No	
13	<input type="checkbox"/>	None	None	15	None	No	
14	<input type="checkbox"/>	None	None	15	None	No	
15	<input type="checkbox"/>	None	None	15	None	No	
16	<input type="checkbox"/>	None	None	15	None	No	

Apply Undo Help

Expert mode

https://192.168.173.120/management/admin/jsp/SiteMain.jsp?localeSelected=en&errorusr=0

UNIFY Harmonize your enterprise

OpenScape Business Assistant

Expert mode - Telephony Server

LCR

LCR Flags

Classes Of Service

Dial Plan

Routing table

1 - Table

2 - Table

3 - Table

4 - Table

5 - Table

6 - Table

7 - Table

8 - Table

9 - Table

10 - Table

11 - Table

12 - Table

13 - Table

14 - Table

15 - Table

16 - Table

17 - Table

18 - Table

19 - Table

20 - Table

21 - Table

22 - Table

23 - Table

24 - Table

25 - Table

26 - Table

27 - Table

28 - Table

29 - Table

30 - Table

31 - Table

Change Routing Table

Routing Table:28 en-bloc sending

Index	Dedicated Route	Route	Dial Rule	min. COS	Warning	Dedicated Gateway	GW Node ID
1	<input type="checkbox"/>	M-net Prem	National_to_Canc →	15	None	No	
2	<input type="checkbox"/>	None	None	15	None	No	
3	<input type="checkbox"/>	None	None	15	None	No	
4	<input type="checkbox"/>	None	None	15	None	No	
5	<input type="checkbox"/>	None	None	15	None	No	
6	<input type="checkbox"/>	None	None	15	None	No	
7	<input type="checkbox"/>	None	None	15	None	No	
8	<input type="checkbox"/>	None	None	15	None	No	
9	<input type="checkbox"/>	None	None	15	None	No	
10	<input type="checkbox"/>	None	None	15	None	No	
11	<input type="checkbox"/>	None	None	15	None	No	
12	<input type="checkbox"/>	None	None	15	None	No	
13	<input type="checkbox"/>	None	None	15	None	No	
14	<input type="checkbox"/>	None	None	15	None	No	
15	<input type="checkbox"/>	None	None	15	None	No	
16	<input type="checkbox"/>	None	None	15	None	No	

Apply Undo Help

Expert mode

https://192.168.173.120/management/admin/jsp/SiteMain.jsp?localeSelected=en&errorusr=0

UNIFY Harmonize your enterprise

OpenScape Business Assistant

Expert mode - Telephony Server

LCR

LCR Flags

Classes Of Service

Dial Plan

Routing table

1 - Table

2 - Table

3 - Table

4 - Table

5 - Table

6 - Table

7 - Table

8 - Table

9 - Table

10 - Table

11 - Table

12 - Table

13 - Table

14 - Table

15 - Table

16 - Table

17 - Table

18 - Table

19 - Table

20 - Table

21 - Table

22 - Table

23 - Table

24 - Table

25 - Table

26 - Table

27 - Table

28 - Table

29 - Table

30 - Table

31 - Table

Change Routing Table

Routing Table:5 en-bloc sending

Index	Dedicated Route	Route	Dial Rule	min. COS	Warning	Dedicated Gateway	GW Node ID
1	<input type="checkbox"/>	M-net Prem	SIP local_Canoni →	15	None	No	
2	<input type="checkbox"/>	None	None	15	None	No	
3	<input type="checkbox"/>	None	None	15	None	No	
4	<input type="checkbox"/>	None	None	15	None	No	
5	<input type="checkbox"/>	None	None	15	None	No	
6	<input type="checkbox"/>	None	None	15	None	No	
7	<input type="checkbox"/>	None	None	15	None	No	
8	<input type="checkbox"/>	None	None	15	None	No	
9	<input type="checkbox"/>	None	None	15	None	No	
10	<input type="checkbox"/>	None	None	15	None	No	
11	<input type="checkbox"/>	None	None	15	None	No	
12	<input type="checkbox"/>	None	None	15	None	No	
13	<input type="checkbox"/>	None	None	15	None	No	
14	<input type="checkbox"/>	None	None	15	None	No	
15	<input type="checkbox"/>	None	None	15	None	No	
16	<input type="checkbox"/>	None	None	15	None	No	

Apply Undo Help

Expert mode

https://192.168.173.120/management/admin/jsp/SiteMain.jsp?localeSelected=en&errorusr=0

UNIFY Harmonize your enterprise

OpenScope Business Assistant

Expert mode - Telephony Server

Routing Table

Change Routing Table

en-bloc sending

Routing Table: 38

Index	Dedicated Route	Route	Dial Rule	min. COS	Warning	Dedicated Gateway	GW Node ID
1	<input type="checkbox"/>	M-net Prem	Internat_to_Can →	15	None	No	
2	<input type="checkbox"/>	None	None	15	None	No	
3	<input type="checkbox"/>	None	None	15	None	No	
4	<input type="checkbox"/>	None	None	15	None	No	
5	<input type="checkbox"/>	None	None	15	None	No	
6	<input type="checkbox"/>	None	None	15	None	No	
7	<input type="checkbox"/>	None	None	15	None	No	
8	<input type="checkbox"/>	None	None	15	None	No	
9	<input type="checkbox"/>	None	None	15	None	No	
10	<input type="checkbox"/>	None	None	15	None	No	
11	<input type="checkbox"/>	None	None	15	None	No	
12	<input type="checkbox"/>	None	None	15	None	No	
13	<input type="checkbox"/>	None	None	15	None	No	
14	<input type="checkbox"/>	None	None	15	None	No	
15	<input type="checkbox"/>	None	None	15	None	No	
16	<input type="checkbox"/>	None	None	15	None	No	

Apply Undo Help

Expert mode

https://192.168.173.120/management/admin/jsp/SiteMain.jsp?localeSelected=en&errorusr=0

UNIFY Harmonize your enterprise

OpenScope Business Assistant

Expert mode - Telephony Server

LCR

- LCR Flags
- Classes Of Service
- Dial Plan
- Routing table
- Dial rule
- Multisite

Dial Rule

Change Dial Rule

Rule Name	Dial rule format	Network access	Type
1 ISDN	A	Main network supplier	Unknown
2 SIP	A	Main network supplier	Unknown
3 SIP lokal	HE2A	Main network supplier	Unknown
4 MEB	E1A	Corporate Network	PABX number
5 IP-Network	A	Corporate Network	Unknown
6 Multi-Location	BA	Corporate Network	Unknown
7 Gateway call	E1A	Corporate Network	Unknown
8 COIntermat	D0E4A	Main network supplier	Unknown
9 Add_cc_to_Canoni	D49E2A	Main network supplier	Country code
10 National_to_Cano	D49E3A	Main network supplier	Country code
11 Internat_to_Can	E3A	Main network supplier	Country code
12 SIP_local_Canoni	HE2A	Main network supplier	Country code
13		Unknown	Unknown
14		Unknown	Unknown
15		Unknown	Unknown
16		Unknown	Unknown
17		Unknown	Unknown
18		Unknown	Unknown
19		Unknown	Unknown
20		Unknown	Unknown
21		Unknown	Unknown
22		Unknown	Unknown
23		Unknown	Unknown
24		Unknown	Unknown
25		Unknown	Unknown

Page 1 of 11

Items per page 10 25 50 100

Apply Undo Help