

OpenScape Business V2

How To Configure SIP Trunk for your ITSP (**SIG**NET NL)

SIGNET.

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Table of History

Date	Version	Changes
2016-06-21	1.0	First version
2016-07-15	1.1	Updated to final tests
2016-09-30	1.2	Update contents



Configuration Data

Information from ITSP **SIG**NET provided:

Name	Example
Call Number:	(085) 7470048 0049 ,0028 0407470093
Number of DID digits:	9
SIP Domain:	Sip.wlvoip.net
SBC_IP:	31.226.168.234 UDP 5060
digest Auth.:	Yes
SIP Username:	certifytest01
SIP Passwort:	*****
Clip no Screening:	no
Number of voice-channels:	8



Configuration Wizard

Internet Telephony

Go to "Central Telephony – Internet Telephony"

UNIFY Harmonize your enterprise OpenScape Business Assistant				
System in networkd Synchronization sta	tus: O	administrator@system Logoff		
Home Setup Expert mode	Data Backup License Management Service Center Networking			
Setup				
▼ Wizards	Central Telephony	(2)		
Basic Installation				
Network / Internet	Edit CO Trunk ISDN / Analog / ITSP			
Telephones / Subscribers	Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and assignment of analog and ITSP trunks			
Central Telephony				
User Telephony	Edit Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account,			
Security	password, SIP station number			
UC Smart	Edit Phone Book / Speed Dialing Set up central speed-dial destinations for the system's internal phone book			
	Edit Call Detail Recording Set up call detail recording connection parameters for call detail applications			
	Edit Record new melodies and announcements for Music on Hold and announcement before answering			
	Edit Edit Entrance telephone Set up call allocation and access authorization for the entrance telephone at the analog station connection			
	Edit SmartVM Set up SmartVM			

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

Setup - Wizards - Central Telephony - Internet Telephony		
Ove	rview	
Note: changes done in expert mode must be reviewed/repeated after running through the wizard. Note: At least the configuration of the 'Country code' is needed for features such as 'Internet telephony' ar PABX number	d 'MeetMe conference'.	
Country code:	31	(mandatory)
Local area code:		(optional)
PABX number:		(optional)
Help Abort Back OK & Next		



As outgoing number only the port assigned phone numbers are used. In this case, remaining digits are filled in DID field. Click [OK & Next]

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck Use County specific view: Netherlands and select **SIG**NET.

Setup - Wizards - Central Telephony - Internet Telephony					
n	Provider configuration and activation for Internet Telephony				
	No callvia Internet.				
		Country specific view: (Netherlands •			
Note: changes done	e in expert mode must be reviewed/repeated after running through the wizard.				
	Activate Provider	Internet Telephony Service Provider			
Add		Other Provider			
Edit		BCOM			
Edit		OOLT UK & Europe			
Edit		COLTVPN			
Edit	8	Deanconnect B.V.			
Edit	8	infopact			
Edit	0	Moto Communications			
Edit	8	oneCentral			
Edit		OneXS			
Edit		Priority Telecom			
Edit		Roat Contraction Contraction			
Edit		Signet			
Eat		skype connect			
Edit		SpeakUp			
Edit		Tele2 NL-ASD			
Edit		Tele2 NL-RT			
Edit		T-Mobile (NL)			
Edit		Verizon			
Edit		Vodafone Anlagenanschluss R3			
Edit	0	Vodafone NL			
Edit	8	Voiceworks			
Edit		Ziggo			
	And Date Of Stand				
Help	Aport Baox OK & Next Display 81	35.4			

Activate Provider and click on [Edit].

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

	Setup - Wizards - Central Lelephony - Internet Lelephony
m	Internet Telephony Stations for Signet
	Name of Internet Telephony Station
	Add New Internet Telephony Station
9	
-1	
50	
C S	
Ire	
	Neig Abort Bask OK & Next
nik	

Click on [Add].

Data provided by ITSP SIGNET is inserted here.



Internet telephony station: Authorization name: Password: Default number: SIP Username is inserted here (gebruikersnaam / account)SIP Username is inserted here (gebruikersnaam / account)Password provided by ITSP SIGNET. (wachtwoord)Main number of connection. The default number is used as outgoing number when no DDI number is assigned to a station,.

Setup - Wizards - Central Telephony - Internet Telephony	
Internet Telephony Station for Signet	ĺ
Internet telephony staten: [certifytest01	
Authorization name: [certifytest01 Passwort: [
Cell number essignment	
Use public number (DID) *	
Use internal number (Callno) / Range entry	
If using 'configurable clip' you have to change the configuration to 'Use public num Changing trut	ber (DID)' here!
Default Number: +31857470028)
MEX Number TISP 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 cass full call numbers supplied by your network provider are to be entered within the tunk and telephones configuration (DID field) primary CO a	no other number is available for the respective call.
MEX Number To use the feature Mobile Extension (MEX) you have to enter a MEX number here. An entered MEX number will only be stored if the ITSP	s marked as 'active'.
Help Abort Back OK & Next Delete Data	

Click [OK & Next].

Setup - Wizards - Central Telephony - Internet Telephony		
Internet Telephony Stations for Signet		
Name of Internet Telephony Station		
Edit certiyes01		
EXR Orinjest)		
Many Abort Bank Ori 2 Next		

Click [OK & Next].

SIGNET.			
Setup - Wizards - Central Telephony - Internet Telephony			
	Call Number Assignmer	nt for Signet	
Name of Internet Telephony Station	Internet Telephony Phone Number	Direct inward dialing	Use as PABX number for outgoing calls
in other to complete the configuration please verify that the relevant user DDs are set	istators (ineprone / Bubscrifters configuration)		
Help Abort Back 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. [Netherlands +		
Note: changes done	in expert mode must be reviewed repeated after running through the wzard.			
0.44	Activate Provider	Internet letephony service Provider		
Add				
Eak				
Eat				
Eat				
Edit		Deanconnect B V.		
Edit		intopact		
Edit		Noto Communications		
Edit		oneCentral		
Edit		OneXS		
Edit		Priority Telecom		
Edit		Routt		
Edit	8	Signet		
Edit		Skype Connect		
Edit		SpeakUp		
Edit	0	Tele2 NL-ASD		
Edit		Tele2 NL-RT		
Edit		T-Mobile (NL)		
Edit		Verizon		
Edit		Vodafone Anlagenanschluss R3		
Edit		Vodafone NL		
Edit		Voiceworks		
Help	Abort Baok OK & Next Display 31	atus		

Click on "Display Status"

Next page status of ITSP is displayed. In case of a wrong SBC Address in Expert mode status of ITSP is "not registered"

Setup - Wizards - Central Telephony - Int	ternet Telephony		0
1	St	atus for the Internet Telep	hony Service Provider (ITSP)
2	Provider		User
a	BCOM	Disabled	
	Circuit UTC (Cloud)	Disabled	
	COLT UK & Europe	Disabled	
	COLT VPN	Disabled	
	Deanconnect B.V.	Disabled	
	Infopact	Disabled	
rc IIII	Motto Communications	Disabled	
	oneCentral	Disabled	
	OneXS	Disabled	
	Priority Telecom	Disabled	
	RoutiT	Disabled	
Restart	Signet	Enabled	certifytest01 registered
	Skype Connect	Disabled	
	SpeakUp	Disabled	
	Tele2 NL-ASD	Disabled	
	Tele2 NL-RT	Disabled	



Define bandwidth (# Trunks)

In the next part the number of simultaneous calls via the SIP trunk will be defined. The calculation of the number of trunks is done by the wizard automatically depending on the bandwidth. For each 128K, one trunk is created.

emp - mizaros - Lentral lelepnony - internet lelepnony							
	Settings for Internet Telephony						
Smultaneous Internet Calls Available Lines for ITSP: 190							
Please enter in field 'Upstream up to (Kbit/sec)' the Upstream of your Internet connection communicated by your F Unstream up to (Kbnx) = 1024	Provider. You have typed in						
in the 'Change Feature> Internet Telephony' Assistant. This upstream allows you to conduct up to 8 Internet pho	one calls simultaneously. If the call quality deteriorates due to the network load, you will need to reduce this number o	f simultaneous calls.					
The number of simultaneous Internet Calls also depends on the licensing.							
	Upstream up to (Kbps): 1024						
	Number of Simultaneous Internet Calls: 8 Distribute Lines						
Line assignment							
Internet Telephony Service Provider	Configured Lines	Assigned Lines					
Signet	8	8					
Help Abort Baok OK & Next							

Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers. When special phone numbers are not supported over the ITSP route it is possible to change this here.

Setup - Wizards - Central Telephony - Internet Telephony					
	Special phone numbers				
Note: Please make sure that all special call numbers are supported by the selected pro	vider without fail.				
Special phone number	Dialed dinits	Dial over Provider			
1 2 3 4 5 6 7 8 0 10 11 11 12 13 14 15		Signer - Signer -			
Help Abort Back OK & Next					

	IET.				
		Status for the Interne	t Telephony Service Provider (ITSP)	
	Dravide -			llear	
	Provider			User	
	Circuit (Cloud)	Disabled			
1=	COLT I/(& Europe	Disabled			
1=	COLTVEN	Disabled			
1=	Deanconnect B V	Disabled			
1=	Information Provide State	Disabled			
	Moto Communications	Disabled			
1=	anaContral	Disabled			
	OneXS	Disabled			
	Driarity Talacom	Disabled			
	Priority releases	Disabled			
	Root -	E statied			
Restart	olgner	Enabled	Certifytesto I		registered
	Skype Connect	Disabled			
	SpeakUp	Disabled			
	Ielez NL-ASD	Disabled			
	IEIEZ NL-RI	Disabled			
	I-Woble (NL)	Disabled			
	Verizon	Disabled			
1=	Vocalone Anagenarischicks Ro	Disabled			
	Voiseworks	Disabled			
	Zinno	Disabled			
Help Abort	Back Next				

After this status page two more dialogs with "Exchange Line Seizure" and an overview with all configured "Outside line Seizure" are displayed.

Multisite configuration

Multi-site refers to the integration of currently up to 8 different local area codes in a single system via the same or different ITSP connections. (For example, numbers from Rotterdam 010 xxx, Amsterdam 020, etc.). All up to 8 area codes <u>must</u> be within one country.

Additional configuration notes:

DID configuration

In general the DID has to be configured in long format. E.g. Axel HFA201 857470028 for a user regionfree, Axel HFA202 407470092 for user in Eindhoven.

The country code 31 has to be configured as described before.

Set	up - Wizzrds - Telephones / Subscribers - IP Telephones													
	Select a station -LAN Phones/WLAN Phones													
٠	Take DD from dhanged call number													
	Callno	First Name	Last Name	Name	DID	Туре		Fax Callno	Fax DID	Class of s	service	Call pickup		
P														
1	100	HFA	1	HFA 1	•	System Client		-	-	Internationaal	•	- *		
N	101	HFA	2	HFA 2	-	System Client		-	-	Internationaal		· ·		
N	102	SIP	1	SIP 1	•	SIP Client	•	-	•	Internationaal	•			
ø	103	-	-	103	857470048	SIP Client		-	-	Internationaal				
ı	201	HFA201	Axel	Axel, HFA201	857470028	System Client		211	407470093	Internationaal	•			
1	202	HFA202	Axel	Axel, HFA202	407470092	System Client		-	-	Internationaal		• •		
1	-	-	-	-		No Port	•	-	-	Internationaal	•	· ·		
1	-	-	-	-	-	No Port	•	-	-	Internationaal	•			
							_				_			



The Multisite wizard is available when at least one ITSP is active. In expert mode Multisite can be found in the LCR configuration. Here you define which phone uses which area code when dialing without local area code.

Instel	stellingen - Wizards - Netwerk / Internet - Multisite Management 🗧							
Tot 8 Conf	Meerdere locaties/gebieden bepalen op basis van de nationale toegangscode en de overeenkomstige ITSP-lijngroep toewijzen Tot 8 gebieden met een vrij bewerkbare naam en een optioneel gebied bestaande uit 15 tekens voor de kiescode met voorafgaande nationale prefix(0) Configuratie van gebieden maakt het voor gebruikers mogelijk om een lokale bestemming met/zonder nationale toegangscode te kiezen							
	Wissen	Interlokale code	Gebied	Specifieke richting				
1		0		-				
2		85	Regiovrij	Signet •				
3		40	Eindhoven	Signet •				
4				- •				
5				- •				
6				- •				
7				- •				
8				- T				
	Help	Annuleren Terug OK&Volgende	Opslaan					

Edit Stations/Groups



Additional manual Configuration

LCR settings

Important "Dial rule format settings" for local calls for OSBiz software <V2R2.

You need to modify the LCR Rules (more specifically the Dial rule format) in the way so as the dialed number will be finally sent with E.164 format (e.g:+3185xxxxxx)

Expert mode - Telephony Server								
LCR	Dial Rule	ial Rule						
LCR Flags Classes Of Service		Change Dial Rule						
Dial Plan	Rule	Name	Dial rule forma	it	Network access	Туре	9	
Routing table	1 CO	A			Main network supplier V	Country code	T	
Multisite	2 SIP	D31E	3A		Main network supplier V	Country code	•	
maniforte	3 SIP local	D31H	E2A		Main network supplier V	Country code	-	
	4 MEB	E1A			Corporate Network V	PABX number	-	
	5 IP-Network	A			Corporate Network	Unknown	•	
	6 Multi-Location	BA		=	Corporate Network	Unknown	•	
	7 Gateway call	E1A			Corporate Network	Unknown	•	
	8 COInternat	E1A			Corporate Network	Unknown	•	
	9				Unknown 🔻	Unknown	•	
	10 Signet overig	E2A			Main network supplier *	Unknown	•	
	11 Signet Internati	E3A			Main network supplier *	Country code	•	
	12				Unknown 🔻	Unknown	•	
	13				Unknown 🔻	Unknown	•	
	14				Unknown 🔻	Unknown	•	
	15				Unknown 🔻	Unknown	•	
	16				Unknown 🔻	Unknown	•	
	17				Unknown •	Unknown	•	
	18			=	Unknown 🔻	Unknown	•	
	Page 1 of 11		H	121214151612	1819 🕨 🛤	Items pe	r page <u>10</u>	
	Apply	Undo	Help					

In case of sw>=V2R2, the default LCR rules (Dialed digits, Routing tables and Dial Rule formats) have been modified in order to avoid doing further manual configuration. Consequently, it's not necessary to change anything since the default values are well applied with SIGNET. The LCR will look like the screen below.

Expert mode - Telephony Server							×
LCR	Dial Plan						
LCR Flags Classes Of Service		Change	: Dial Plan		Display Dial	Plan	
Dial Plan	Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency
Routing table	5	Distanting Distanting	[v	
Dial rule	6	WSB.	Provincia de la composición de la composicinde la composición de la composición de la composición de l	$4 \rightarrow$			
Multisite	7	Contractor 2	have	$4 \rightarrow$			
	8	the day and		$4 \rightarrow$			
	9			$4 \rightarrow$			
	10			$4 \rightarrow$			
	11	The set of containers		$4 \rightarrow$			
	12	and a second		$4 \rightarrow$			
	13	2		$4 \rightarrow$			
	14	The shirts and		$4 \rightarrow$			
	15	Cult formation					
	16	Services	pcz	4 ▼ ->			
	17	National	pco-z	28 ▼ ->			
	18	Local	DC1Z	5 🔹 ->			
	19	Local	DCNZ	5 🔹 ->			
	20	International	0C00-Z	38 ▼ ->			
	21	SIGNET	80CZ	4 💌 ->			
	22	SIGNET	80C0-Z	28 💌 ->			
	23	SIGNET	80C1Z	5 🔹 ->			
	24	SIGNET	BOCNZ	5 🔹 ->			
	25	SIGNET	80C00-Z	38 🔹 ->			



Route configuration

After activation of SIGNET profile, the Route settings (e.g No. And type outgoing, call number with or without national/international prefix) are automatically applied properly. So you have nothing to configure in addition.

If don't keep the default seizure code, this can be changed at will (like in the example screenshot below). But then you have to double check again the LCR entries for Dialed Digits settings, since the setup of new seizure code will modify the front part of Dialed digits (before the separator 'C') for the entries which are used by the route of SIGNET.

Expert mode - Telephony Server					•
Trunks/Routing	Route				
Trunks	Change Pouts	Channe Routine Darameters		Countial Danameter channel	
Route					
ISDN		Route Name:	Signet		
Tk Orp. 2		Seizure code:	0		
Trk Orp. 3		20	-		
Trk Orp. 4		CO code (2nd trunk code):			
Thk Grp. 6	Gateway Location				
Trk Grp. 8		Country code:	31		
Trk Grp. 7		Local area code:			
App. Sulte		PABX number:			
Trk Orp. 9	PABX number-incoming				
Tk Orp. 10		Country code:	31		
The Orp. 11		Local area code:			
Th Gro 11	•				
Tk Grp 14		PABX number:			
Tk Grp. 16		Location number:			
Networking	PABX number-outgoing				
		Country code:			
		Local area code:			
		PABA 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				



Troubleshooting/Maintenance

Status OpenScape Business

In the service center there is some information to check the status of the provider.

The Event Viewer shows important information about the ITSP.

Service Center - Diagnostics - Event Viewer			
Display	Load via HTTP	Delete Event Viewer Log	
		Events	
regaration totals regulated, DP provide Dyna, dD and DP target and the second dyna, and the second dyna, DP provide Dyna, and DP target 20,07,02,09 and DP target 20,07,02,00 and DP target 20,07,00 and DP target 20,00 and DP target 20,00			•
-	a	to refresh 🕷	
	Seconds until next automa	ic refresh: 7	
Help Abort Baok	Finish Clear Display Retresh		

"Status" provides information about the registration status of the ITSP. The ITSP registration can also be restarted here.

Service Co	enter - Diagn	ostics - Status					
5		Dialup Network Status	ITSP Status	VPN Status	Overview of I	P Addresses	BLF Status
Callno	Name	Device Type	IP Address	MAC Address	Current SW Version	HW Version	Status
100	TDM 100	optiPoint 500 Basic	-	-	VM.PR2.02	-	Disabled
101	-	OpenStage 40	-	-			Disabled
102	-	optiPoint 500 Standard	-	-	P20		Disabled
103	-	-	-	-			Disabled
104	-	-	-	-			Disabled
105	-	optiPoint 500 Standard	-	-	P20		Disabled
106	-	Basestation	-	-			Disabled
107	-	Basestation	-	-	P20		Disabled
150	-	analog	-	-	-	-	Enabled
151	FAX 151	analog	-	-	-	-	Enabled
152	-	analog	-	-	-	-	Enabled
153	-	analog	-	-	-	-	Enabled
**131	OS60 131	OpenStage 60/80	<u>192.168.5.70</u>	00:1a:e8:58:3f:f9	V3R0.28.0 HFA C01	-	Enabled
132	-	OpenStage 80	<u>192.168.5.50</u>	00:1a:e8:03:02:99	V3R0.28.0 HFA C01	-	Enabled
133	OS15 133	OpenStage 15		-		387S41D0-0	Enabled
134	DP35 132	OpenScape Desk Phone IP 35G Eco	<u>192.168.5.68</u>	00:1a:e8:74:f1:1a	V3R0.25.0 HFA C01	S30817-S7710-A307-06	Enabled
135	OS60 135	OpenStage 60/80	192.168.5.57	00:1a:e8:4f:8a:ea	V3 R0.28.0	387S43B0-1	Enabled
136	-	OpenStage 40	-	-		387S42B0-1	Disabled
Page 1 of	1			(a 1 b b		It	ems ner nage 10 25 50 100
. ago 101			L.	<u> </u>		10	onio poi paĝo 11 11 11 11
Hel	р						

Service Center, Diagonatics - Status					
Salise Sales		TTEP Statue		R E Shkic	
una trutt una tuas				Multi ana kata	
	Status for the Internet	et Telephony Service Provider (I	ITSP)		
	Provider		User		
BCOM	Disabled				
Circuit UTC (Cloud)	Disabled				
COLT UK & Europe	Disabled				
COLT VPN	Disabled				
Deanconnect B.V.	Disabled				
Intepact	Disabled				
Moto Communications	Disabled				
OneVS	Disabled				
Priority Telecom	Disabled				
RoutIT	Disabled				
Restart Signet	Enabled	certifytest01		registered	
Share Connect	Dirabled			ě	
Snakilo	Disabled				
Tele2 NL-ASD	Disabled				
Tele2 NL-RT	Disabled				
T-Mobile (NL)	Disabled				
Verizon	Disabled				
Vodafone Anlagenanschluss R3	Disabled				
Vodafone NL	Disabled				
Voiceworks	Disabled				
Ziggo	Disabled				



How to get Traces in case of problem

Wireshark traces

A Wireshark trace helps you to analyses SIP issues very easily. It is possible to start traces on the system which can be analyzed via Wireshark.

Expert mode / maintenance / traces

TCP Dump: Create max. 5 files with PCAP which can be downloaded afterwards and opened in Wireshark.

Rpcap Daemon: Will start the rpcap daemon and open a server port which allows direct remote access from protocol analyzers like Wireshark.

Expert mode - Maintenance					
Traces	TCP Dump				
Trace Format Configuration Trace Output Interfaces	TCP Dump State				
Trace Log Digital Loopback Customer Trace Log		Start TCP Dump			
Most Trace Components Secure Trace Coll Most Log	TCP Dump Status: undefined / no capture (0)	Stop TCP Dump Cleanup TCP Dump			
License Component Trace Porfiles Trace Components TCP Dump	Currently no TCP Dump capture file available. Please create one via "Start TCP Dump".				
rpcap Daemon	⊠auto refresh	Seconds until next automatic refresh: 59			

Internal traces

For a better analyses of problems internal system traces will be needed. Trace profiles are already pre-configured to make it easier to capture internal traces.

When issues with ITSP's occurs, the following trace profiles should be activated:

- Basic
- Voice_Fax_Connection
- SIP_Interconnection_Subscriber_ITSP

In case there are issues with the registration of an ITSP the following trace profile should also be activated.

SIP_Registration

The relevant traces can be downloaded via Service Center – Diagnostics-Trace menu.

SIGNET.

ocara		Local administrator login 🔹 🛅 Openstage IP Phone Admin	
http	s://192.168.1.60/management	/admin/jsp/SiteMain.jsp?localeSelected=en&errorusr=0.	
n	IFY Harmoniz	re rorise	OpenScape Business Assi
erv	ice Center - Diagnost	ics - Trace	
	Start	CO M_application	connections to external applications or wrong functionality. Application 🛛 🚽
	Start	Display_problems	The displayed texts are incorrect, missing or appear after a delay. This applies to all device types with a display.
	Start	Feature_Service_activation	Issues with feature/service (de-)activation via service code or menu option. 🛛 🔍
	Start	Gateway_Stream_detailed	Detailed analysis of issues with missing payload in calls between IP and TDM, e.g. SIP trunk to UPOE phone or TDM trunk to IP phone. High influence on the system performance.
	Start	Gateway_Stream_overview	Issues with missing payload in calls between IP and TDM, e.g. SIP trunk to UPDE phone or TDM trunk to IP phone. Overview only, but low influence on the system performance.
	Start	IP_Interfaces	Issues with system IP interfaces; , i.e. WAN, LAN or Admin.
	Start	License_problem	Issues with licensing, e.g. with license configuration or evaluation.
	Start	Network_Call_Routing_LCR	Issues with alive monitoring in between nodes, LCR dialrules or unreachable 😑
	Start	Peripheral_cards	Issues with the initialization or startup of peripheral cards.
	Start	RAS_or_Internal_access	Shall be combined with the IP_Interfaces profile for detailed analysis of sissues with remote administration (RAS) or internet access.
	Start	Ressources_MOH_Conferencing	Issues with music on hold or conferencing.
-	Stop	SIP_Interconnection_Subscriber_ITSP	Shall be combined with the voice_fax_connection profile for detailed analysis of issues with SIP phones, access points, ITSP interfaces or SIP interconnections, e.g. calls to or from ITSP/SIP and standard at phones, DTMF or fax cannot be sent or received via ITSP/SIP interconnections.
	Start	SIP_Registration	ITSP / SIP-nodes / SIP-phones / SIP-access points cannot register or lose egistration.
	Start	Smart_VM	Shall be combined with the voice_fax_connection profile for detailed analysis
	Start	UC_Smart	Shall be combined with the voice_fax_connection profile for detailed analysis of issues with UC Smart.
	Stop	Voice_Fax_connection	Issues with voice or fax connections, e.g. missing or distorted connections, wrong LED signals, interrupted calls or faxes, user cannot take or answer call, call not ringing at phone, no ringback tone. This trace profile is enabled by default (factory settings). It may be combined with interface specific profiles depending on the involved device types.
	Start	VPN	Issues with VPN connections, e.g. connection disrupted, unable to import or generate SSL certificate (.crt), certificate revocation list (.crt), peer certificate (.pkcs12) for VPN, unable to import or generate SPE certificate.
			laavaa with the expert made of the 197ah haard Assistant is a idate not
	Help Abor	t Back Next Delete Trace	Diagnosis Logs

🍂 Start 🦪 🏹 🖸 🌀 🙆 🇞 🗞 🔤 🕑 🚊 🗃 🦪

EN 客 🔂 🗐 🕼 12:58 💻