aare net?

Aarenet System and IPPBX settings to connect Yeastar MyPBX U100 IP-PBX through SIP Trunk

Revision History

Autor	Date	Info	Version
F.Remmers	12.09.2017	Initial Version	1.0

All information without warranty and valid only based on the used hardware and software and only for informative use. Settings can be different on different Aarenet systems.

aare net?

Content

Aarenet ad	lvised base settings	. 3
Aarenet SIP	Trunk Config Center Settings	. 3
Yeastar My	PBX U100 direct SIP	. 4
Step 1.	Add SIP Trunk	. 5
Step 2.	Allocate DDI Nummern to subscriber	. 6
Step 3.	Outgoing traffic – allocate trunk /outbound rules	. 7
Step 4.	Codecs and DTMF on device level	. 8
Step 5.	SIP Registration expiry	. 8



Aarenet advised base settings

Settings can be system specific and/or SIP phone specific. If deviating values are used, connection issues may result. All information informative and without warranty. The settings can be different for different Aarenet systems. Basic setup of a SIP Trunk on the Aarenet system is not part of this document.

Advised system / SIP phone settings:

- Voice Codec G711A
- FAX Codec: G711A
- Hold Methode: direction attribute "sendonly"

1760s

- DTMF Methode: RFC 2833
- Session Timer:
- SIP Registration Expiry: 300s

Aarenet SIP Trunk Config Center Settings

Account: aan <u>1-0</u>	000088	×	Address	s: <u>0449980510</u>		×
Channels	0 Channels 🌳		Registr	ation 1 Registration 🔿		
Addresses	10 Addresses 🔊 🥕 3		Ac	- count aan <u>1-000088</u> 🌳		
Call Forwards	0 Call Forwards 🏟			Stops 0 TopStops 🏟		
			Top:	stops o topstops 🌳		
Attributes	0 Attributes 🏟		Basic /	Advanced Answering Mach	ine Virtual PBX MGCP	
Basic Routing & I	Rating Advanced			Number	0449980510	
Tenant	aan1 🔻 🔿					
Account Name	aan1-000088				213.173.185.12 1	
	Test Frank 3CX PBX			Display Name		
Info	0449980510 - 0449980519			Department	- *	
	DifficultUsemame 2	1		Presentation	•	
Username				Language	Deutsch V	
Password						
Channels	1			Address Type	Main Number 🔻	
A hard a street		Q	Routin	g over main registration	No 🔻	
SIP Trunks	0 SIP Trunks 🏟					
			Ok	Save Delete		Close
Addresses of Acc	count: aan <u>1-000088</u>					
Numbe		(* or ? as wildcards)		Registration for numbe	r: <u>0449980510</u> @213.173.185.12	×
				Statu	• registered 5	
Nam	ne	(= or ? as wildcards)		Registration Time left	00:04:20	
Endpoint nam	ne	(* or ? as wildcards)		IP Address	185.150.4.10:25549	
Page 1 of 1	L (10 Entries) 🌳		Search	User Agent	MyPBX	
Number 7				Connection	SIP behind NAT	
0449980510	Endpoint name	e Registration	÷ ×	Weight	1.000	
0449980511		 sip 	×		Public IP Colt	
0449980512	4	• sip	×	Enapoint	Public IF Colt	
0449980513 0449980514		 sip sip 	××			Close
		 sip 	×			
0449980515						
0449980516		sip	×			
0449980516 0449980517		● sip ● sip	×			
0449980516		sip				
0449980516 0449980517 0149980518		● sip ● sip ● sip	××			

- 1. IP Adress for SIP registration
- 2. Username / Password info
- 3. Info 10 DDI Number
- 4. List with single DDI
- 5. Confirmation registration Yeastar MyPBX on SIP Trunk

Aarenet IP PBX Settings Yeastar U100 direct SIP 20170912.docx

aare net?

Yeastar MyPBX U100 direct SIP

Setup	MyPBX direct on Aarenet SIP Trunk
Devices in use	Siemens 2010, Yealink T46G
External	079xxx6113, 079xxx4594
Tested	
Incoming calls	OK
Incoming calls with CLIR	OK
Outgoing calls	OK
Internal calls	OK
User Groups	OK
Fax	Not tested
DECT	Not tested
Registration	OK
Session Refresh timer	OK default 300 sec.
DTMF outgoing	OK
Early media to mobile (disconnected)	OK
CF external to internal	OK, using usergroups and «announce»
Call to 161	OK
Call to 0900 55 33 11	OK
3 party conference	OK
Transfer with announcement	OK
Transfer without announcement	OK
Swap calls	OK

Important: Please make sure that no ALG is activated in the pbx nor in the NAT Router.



Step 1. Add SIP Trunk

VolP Trunk		
VoIP Trunk		
Add VolP Trunk	Delete the selected	Truck
Add VoiP Hulik	Delete the selected	ITUIK
	Provider Name	Туре
	Aarenet	SIP
VoIP Trunk		
VoIP Trunk		
🕂 Add VolP Trunk 🛛 📉 D	Edit VolP Trunk - Aarenet Provider Name:	X
II		213.173.185.12 : 5060
		213.173.185.12
Service Provider	User Name:	0449980510
Add Service Provider	Authorization Name:	DifficultUsername
	From User:	
	Online Number Maximum Channels	2
	Caller ID	
	Realm	
	Authenticating Incoming Call	No T
		Enable Outbound Proxy Server
	Codecs :	Firs a-law ▼ econd: u-law ▼ Third: GSM ▼ Fourth: None ▼ Fifth: None ▼
	Transport	UDP Enable SRTP : Qualify:
	DTMF Mode	rfc2833
	DOD Settings	
	DOD: Asso	ociated Extension: 601 ▼ ↑Add DOD ↑Add Bulk
		Save X Cancel

Make sure the credentials from the config center are correct. Select correct codec order, Transport protocol and DTMF mode.



					Status
tus Status	Signal	Trunk Name	Туре	User Name	Port/Hostname/IP
Registered		Aarenet	SIP	0449980510	213.173.185.12
Disconnected		pstn1	FXO		Port 1
Disconnected		pstn2	FXO		Port 2
Disconnected		pstn3	FXO		Port 3
Disconnected		pstn4	FXO		Port 4

The Status overview shows an active SIP Trunk on the Aarenet system

Step 2. Allocate DDI Nummern to subscriber

This is done through the programming of inbound routes.

					Status	System	РВХ
nd Routes				un di di casa di bulari da si bular sa su substan seria di bu			
u Roules							
Add Inbound R	oute K Delete the selected F	Route					
Add Inbound R	oute K Delete the selected F	Route Route Name	DID Number	Caller ID Number			
Add Inbound R	Delete the selected F		DID Number 0449980510	Caller ID Number			
-		Route Name		Caller ID Number			

Below Route (TrunkMain10) routes the number 0449980510 from Aarenet SIP trunk to the internal extension 601

	Delete the selected Route
	Edit Inbound Route: TrunkMain10
D	General Route Name : TrunkMain10
	DID Number 0 - 0449980510
	Extension 0 601
	Caller ID Number 🛈 :
	Distinctive Ringtone 🛈 :
	Enable Callback : No Callback Settings
	Member Trunks
	Available Trunks Selected
	pstn1(FXO) pstn2(FXO) pstn3(FXO)
	psus(KO) pstn4(FXO) →



Step 3. Outgoing traffic – allocate trunk /outbound rules

	Route Name	Dial Pattern
	ExternalTrunk	0.
bound Routes		
Add Outbound Route	Contract Selected Route Edit Outbound Route - ExternalTrun	¢
	Route I	Name: ExternalTrunk
		assword: PIN Settings
	T.38 Su	pport 🛈 : No 🔻
		Hunt 🛈 : No 🔻
		e Hours :
	Dial Patterns 🛈	
	Dial Pattern	Strip Prepend
	0. 1	
	🕂 Add	
	Member Extensions	
	Available Extensions	Selected
		>>> 300(SIP) 301(SIP)
		302(SIP)
		304(SIP)
		305(SIP) «« 601(FXS)
		- «« 601(FXS) 602(FXS)
	Member Trunks	
	Available Trunks	Selected
	pstn1(FXO)	Aarenet(SIP) 3
	pstn2(FXO)	>>>
	pstn3(FXO) pstn4(FXO)	\rightarrow
		←
		««

Example: all calls starting with 0, made with one off he allocated devices are routed through Aarenet(SIP) trunk.



Step 4. Codecs and DTMF on device level

Port	Edit Extension - 300
5	
6	General Other Settings
	General
7	Type: SIP Extension : 300 Password : pincode 300
8	Name : 300 Caller ID : 300 Register Name : 300
Extensions	Voicemail
Add Extension	
	Mail Setting
	Enable Send Voicemail
	Email Address 🕖 :
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature.
	been properly configured before using this feature.
	been properly configured before using this feature. Group
	been properly configured before using this feature. Group Pickup Group Pickup Group
	been properly configured before using this feature. Group Pickup Group ①: ▼ Call Duration Setting
	been properly configured before using this feature. Group Pickup Group 1: • Call Duration Setting Max Call Duration 1: s
	been properly configured before using this feature. Group Pickup Group 1: • Call Duration Setting Max Call Duration 2: s VoIP Settings

Please make sure that all relevant settings are set on each single device. Settings may deviate per device type and manufacturer.

Step 5. SIP Registration expiry

No information on SIP registration expiry settings found. The basic settings did not affect the performed tests.