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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.

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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_aan1-000088 🔿		
Call Forwards	0 Call Forwards		Ton	Stops 0 TopStops		
Attributos	0 Attributes		Top	stops o lopstops 🛶		
Attributes	o Attributes ap		Basic	Advanced Answering Machi	ine Virtual PBX MGCP	
Basic Routing &	Rating Advanced		1	Number	0449980510	
n Tenant	aan1 🔻 🌳			Domain	213.173.185.12	
Account Name	aan1-000088			Display Name	<u> </u>	
Info	Test Frank 3CX PBX 0449980510 - 0449980519			Desertment		
Into		/		Department		
Username	DifficultUsername 2			Presentation	•	
Password				Language	Deutsch 🔻	
Channels	4			Address Type	Main Number 🔻	
Location	GN0000 Unbestimmter Ort	Q	Routin	over main registration	No T	
SIP Trunks	0 SIP Trunks 🌳					
			Ok	Save Delete		Close
Addresses of Act	count: aan <u>1-000088</u>			-		
		(* 2 IId d-)		Registration for numbe	r: <u>0449980510</u> @213.173.185.12	. 🗙
Numbe		(or ras wildcards)		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	1 (10 Entries) 🖨	S	earch	User Agent	МуРВХ	
Number 5	Endpoint name	Registration	4	Connection	SIP behind NAT	
0.49980510		 sip 	×	Weight	1.000	
0449980511		• sip	×	Endpoint	Public IP Colt	
0449980512	4	sip	- Â			
		• sip	×			Close
0449980514	1 · · · · · · · · · · · · · · · · · · ·					
0449980514 0449980515 0449980516		sip	×			
0449980514 0449980515 0449980516 0449980517		sıp sip sip	××			
0449980514 0449980515 0449980516 0449980517 0149980518 0449980519		sip sip sip sip sip	××××			
0449980514 0449980515 0449980516 0449980517 0149980518 0449980519		sip sip sip 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

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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 1 1	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	Trupk
T Add Voir Hulik	Delete the selected	ITUIK
	Provider Name	Туре
	Aarenet	SIP
Volp Irunk		
VoIP Trunk		
🕂 Add VolP Trunk 🛛 📉 D	Edit VolP Trunk - Aarenet	X
•	Hostname IP	213 173 185 12
	Domain:	213.173.185.12
Service Provider	User Name:	0449980510
Add Service Provider	Authorization Hame:	DifficultUsername
	Password:	
	From User:	
	Online Number	
	Maximum Channels	Z
	Caller ID U:	
	Authenticating Incoming Call	No 🔻
		Enable Outbound Proxy Server
	Codecs :	First a-law econd: u-law Third: GSM Fourth: None Fourth: None
	Transpor	
	DTMF Mode	rfc2833
	DOD Settings	
	DOD: Asso	ociated Extension: 601 ▼ ↑Add DOD ↑Add Bulk
	h	Save 🔀 Cancel

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



Trunk St	atus					Status Sy
	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	PBX	
ound Routes								
Add Inbound F	Route K Delete the selected I	Route						
-		Route Name	DID Number	Caller ID Number				
	3 ±	TrunkMain10	0449980510					2
	7 2 7 2 7 2 7 2	TrunkMain10 TrunkDDI11	0449980510 0449980511					X

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
	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) setr2(FXO)
	pstr3(FXO) pstr4(FXO) →



Step 3. Outgoing traffic – allocate trunk /outbound rules

Outbound Routes		
Add Outbound Route	Route Name	Dial Pattarn
	ExternalTrunk	0.
<u></u>		
Outbound Routes		
🕂 Add Outbound Route	X Delete the selected Route	
	Edit Outbound Route - ExternalTr	unk X
	Rou	te Name ¹ : ExternalTrunk
		Password: PIN Settings
	T.38	Support : No
	Rrmem	ory Hunt 🛈 : No 🔻
	C	ffice Hours :
	Dial Patterns 🛈	
	Dial Pattern	Strip Prepend
	0. 1	
	Add -	
	Member Extensions	
	Available Extension	is Selected
		300(SIP) 301(SIP)
		302(SIP)
		303(SIP) 304(SIP) 2
		305(SIP)
		<pre></pre>
	Member Trunks	
	Available Trunks	Selected
	pstn1(FXO) pstn2(FXO)	Aarenet(SIP) 3
	pstn3(FXO)	
	pstn4(FXO)	
		-
		Save X Cancel

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
7	General
1	Tyre: SIP Tyre:
8	Name: 300 Caller ID: 300 Register Name: 300
Extensions	Voicemail
Add Extension	Ad Schemal Voicemail Access PIN #0: 300
	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.
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature.
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature. Group Pickup Group :
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature. Group Pickup Group :
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature. Group Pickup Group : Call Duration Setting Max Call Duration : s
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature. Group Pickup Group : Call Duration Setting Max Call Duration : s VoIP Settings -
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature. Group Pickup Group 1: • Call Duration Setting Max Call Duration 1: s VolP Settings NAT 1: Qualify: Qualify: Enable SRTP 1: S
	Note: Please ensure that the section 'SMTP Settings for Voicemail'(in the 'Voicemail Settings') have been properly configured before using this feature. Group Pickup Group 1: • Call Duration Setting Max Call Duration 1: s VolP Settings NAT 1: Call Duration 1: s VolP Settings NAT 2: Qualify: Register Remotely 1: Register Remotely 1: s

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.