

# 

0

### INDEX

STEP 1: CONNECT WAN PORT / LAN PORT	2
WAN CONNECTION	2
LAN CONNECTION	3
STEP 2: CONFIGURING THE GATEWAY	3
STEP 3: GATEWAY IP ADDRESS CONFIGURATION	4
STEP 4: 3CX SERVER IP ADDRESS CONFIGURATION	5
STEP 5: ADDING THE AIO IN THE 3CX MANAGEMENT CONSOLE	6
STEP 6: CONFIGURING FXO & FXS IN CALL4TEL PORTAL	8
PBX ADDRESS	9
FXO CONFIGURATION	9
GENERATING USER AND SECRET CREDENTIALS FROM THE 3CX MANAGEMENT CONSOLE	10
FXS CONFIGURATION	11
CONFIGURATION SUMMARY	12
STEP 7: 3CX REGISTRATION VERIFICATION	13

The Call4Tel AiO64 device comprises of a 3CX Server and FXO / FXS Gateway into one single appliance. There are two configuration methods required for this device, Gateway and 3CX Server.



- 1. Reset Button for Gateway
- 2. Analogue Line Status
- 3. FXS Port & FXO Port
- 4. LAN
- 5. WAN
- 6. USB
- 7. HDMI
- 8. Power Adapter
- 9. Reset Button for 3CX Server

## **STEP 1: CONNECT WAN PORT / LAN PORT**

#### **WAN Connection**

If there is DHCP, extract the IP address automatically via IP Scanner (based on WAN MAC found on the device).

	172.	3:8C:3E
5.	172.	6F:AF
	MAL	^50.2C
	172.	CA7:48
> 👼	NPX	CD:88
> 💻	MAC	109.5F
> 🐺	172.	AB:9F
	DESI	d82:6A
> 💻	172.	FCEC
5 💻	MAK	s0D:71
> 👼	172.	109:59
	172.	35:03
	172.	36:F1
5 💻	172.	.90:90
> 🐺	172.	:90:9F
	172.	48:41
> 📕	172.	31:58
>	MACBOOKPRO-5F05 172.16.8.119	38-A8:CD:60:09:34
	172.16 112	A-91-9C
	DESKT	-FO.FB
> 🚆	SipDes	88.0F
5 🔳	172.16	0.09.30

#### **LAN Connection**

If DHCP is not available, IP address (can be found on the device) and you will need to enter this manually.

LAN 1: 192.168.101.1

LAN 2: 192.168.101.99 (For Gateway)

# **STEP 2: CONFIGURING THE GATEWAY**

Open your browser and enter the IP address of the device based on WAN / LAN configured in Step 1, you will be directed to the Call4tel portal.

\*Add (:5448) in the IP address eg:192.168.101.1:5448



#### **Login Credentials**

Username: root Password: 3cx



Upon successful login, click on Next

## **STEP 3: GATEWAY IP ADDRESS CONFIGURATION**

1. Select the Gateway (AiO) tab and click on Network.

		3CX
IP CONFIGURA	TION FIREWALL SIP CONNECT GATEWAY(AIO) SETTIN	Version
	AIO Settings	
	Network     O     Reboot Gateway     Advanced	Settings
Ŀ	🛎 Status 😩 Voip Endpoints 🏕 Call Routing Rules	At Group
Port Status Port Info SIP Info Rout	ting Info	
AIO S	Settings	
🐵 Network 🕐 Reboot Ga	teway 🛛 🗘 Advanced Settings	
LAN2	Settings	
LAN2 Type:	Static	
LAN2 Type: MAC:	Settings Static 38:a8:cd:60:09:35	
LAN2 Type: MAC: Address:	Settings Static 38:a8:cd:60:09:35 172.16.8.237	
LAN2 Type: MAC: Address: Netmask:	Settings Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0	
LAN2 Type: MAC: Address: Netmask: Default Gateway:	Settings Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0 172.16.8.1	
LAN2 Type: MAC: Address: Netmask: Default Gateway:	Settings Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0 172.16.8.1	
LAN2 Type: MAC: Address: Netmask: Default Gateway: Save	Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0 172.16.8.1 Close	
LAN2 Type: MAC: Address: Netmask: Default Gateway: Save 2. Enter the following of	Settings Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0 172.16.8.1 Close	
LAN2 Type: MAC: Address: Netmask: Default Gateway: Save 2. Enter the following of Address	Settings Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0 172.16.8.1 Close	
LAN2 Type: MAC: Address: Netmask: Default Gateway: Save 2. Enter the following of Address Netmask	Settings Static 38:a8:cd:60:09:35 172.16.8.237 255.255.255.0 172.16.8.1 Close	

Click on "Save".

# **STEP 4: 3CX SERVER IP ADDRESS CONFIGURATION**

To configure the 3CX server, you must use LAN Port.

\*If you have configured the gateway via WAN Port earlier, please switch to LAN Port.

IP CONFIGU	RATION	REWALL	SIP CO	INECT	GATEWAY(AIO)	SETTINGS	CONTACT US	:	
Obtain an IP address automaticall Use the following IP address	у	A							
	Address	172	16	8	236				
Update IP Details	Netmask	255	255	255	0				
	Gateway	172	16	8	1				
	MAC Address:	38:a8	cd:60:09	9:34					
Sec									Update Lan
Obtain an IP address automaticall	y								
Use the following IP address									
WAN 💌	Address	172	16	8	119				
Update IP Details	Netmask	255	255	255	0				
		172	16	8	1				
	MAC Address		cd:60:09	:33					
1					7				Update Wan
IS Information									
DNS Update IP Details	DNS 1	8	8	8	8				
gin to 3CX installation wiz http://172.16.8.236:5015	ard	в		1					
									Update DNS

A. Enter the IP Address, Netmask and Gateway based on LAN. There will be icon to showcase active connection.

B. Login to the 3CX installation wizard to continue on the 3CX instance set up

# **STEP 5: ADDING THE AIO IN THE 3CX MANAGEMENT CONSOLE**

1. Login to the 3CX Management Console and go to SIP Trunks --> Add Gateway

Users										
WHEN A	SIP Trunk	S								Ø.
Phones										
SIP Trunka	SIP Trunks	-								
Inbound Rules	+ Add Sile To	ank 🕈 Add gate	way + Add SBC	+ Add Bridge / Edia	X julies X Enable All	Ø Onable All	C Reliesh Registration	± Import Previder	± Export Provider	
Outbound Rules	C Push Cost	1 Subare								
Messaging	Search									
Digital Receptionists	1	Name	Nort	Type	Sim Falls	Main Tourk No.	Pupirtar Cast	Basister OX	Last Failed	
Ring Groups	0.	Bero	(NA)	1994	ann cans	esam trank ny	-	meganes wa		
Call Queves	-	bero (400								
Backup and Restore		1022								
Reporting Y	•	Bord						(10)		
Security ¥	•	Bord					- 141. -		-	
Advanced	•	Callr					(B)	7	17	
Call Flow Joons		Calle						1.44	(H)	
Contrata		Call+					1994 - C.	123	12	
	•	Calle					. *		-	
p rax		(4/6/								
Add PSTN Gatew	ay					×				
alact Brand										
Select Brand Call4tel						~				
ielect Brand Call4tel ielect model/device						~				
Gelect Brand Call4tel Gelect model/device Call4tel FXO (4/8/14	6)					~				
Select Brand Call4tel Select model/device Call4tel FXO (4/8/10 Iumber of Physical P:	6) STN Ports on	device				> >				
Select Brand Call4tel Select model/device Call4tel FXO (4/8/10 Number of Physical P: 1	6) STN Ports on	device				>				
Select Brand Call4tel Select model/device Call4tel FXO (4/8/10 Tumber of Physical P: 1 4ain Trunk No	6) STN Ports on	device				~				
elect Brand Call4tel elect model/device Call4tel FXO (4/8/1) lumber of Physical P 1 1 fain Trunk No	6) STN Ports on	device				~				
elect Brand Call4tel elect model/device Call4tel FXO (4/8/1) lumber of Physical P 1 fain Trunk No	6) STN Ports on	device				~				

Select Brand	Call4tel
Model	Call4Tel FXO (4/8/16)
Number of Physical PSTN Ports on device	(Based on current set up)
Main Trunk No	(Based on existing PSTN Number)

-	3CX		Support •	Updates •	۰.	1	Aw:
di R	Dashboard Users	Call4tel FXO (4/8/16) Cenerose device config			1	© неір	
(i) 0 →	Phones SIP Trunks Inbound Rules	General DLDs Caller ID Options Inbound Parameters Outbound Parameters Trunk Details					
* 0 0	Outbound Rules Messaging Digital Receptionists	Enter name for Trunk Call4tel AJO64 (FXO Device) Registrar/Server/Gateway Hostname or IP		5050			
留 小 日 日 の	Ring Groups Call Queues Backup and Restore Reporting Security	Number of SIM Calls  1  Number of Physical PSTN Ports on device  1		3000			
۰	Advanced						

2. Enter the Name for Trunk based on own preference

Note: For Registrar / Server/ Gateway Hostname or IP – Input Gateway IP address configured in Step 3 and click on Ok to confirm.

1	Users														
8	Phones		SIP Tr	unks											
.0	SIP Trunks		++	d SP Tou	+ Add automate	+ ANTER	+ Add Bridge	100	N factors M food	A All O'Clauble All	D Ashesh Resistantion	A inset basider	A Logart Provider		
+	Inbound Rules		014	o, Cunfig	C Update										
t	Outbound Rules														
ø	Messaging		Searc	h											
0	Digital Receptionists				Name	Host	Туре		Sim Calls	Main Trunk No	Register Sent	Register OK	Last Failed Register		
쑵	Ring Groups				Bero						72	370	T.	×	
凼	Call Queues				(400)										
	Backup and Restore														
-	Reporting	~		•	Bord							(L)	2	×	
ø	Security	~		•	Bord						₫.5	5 <del>2</del> 30	171	×	
•	Advanced	^		•	Cal14						34	1441	-	×	
40	Call Flow Apps			•	Call4						<b>1</b>	(#J.)	*	×	
	Contacts			•	Call4tel AlOG4 (FXD Device)	172.16.8.237	Analog	6	1	63401005	-		Э	×	
0	Fax.			•	Call4						-	(4)	-	×	
0	Fax Server			•	Call4							(#5	+	×	
R.	RKS/DECT			•	Test							121	**	×	

- 3. The device has been added to the management console with the red (inactive) status.
- 4. Click on the device once again. The below screen will appear.

=	3CX		50	oport+	Updates •	٠	2	٨
41 2	Dashboard Users		Call4tel AIO64 (FXO Device) Generate device config OK Cancel				() Help	
6 0	Phones SIP Trunks		General DIDs Caller ID Options Inbound Parameters Outbound Parameters					
+ †	Inboand Rules Outbound Rules		Trunk Betails Enter name for Trunk					
0 0	Messaging Digital Receptionists		Call4tel AlD64 (FXD Device) Registrat/Servet/Gateway Hostname or IP					
알 本	Ring Groups Call Queues		172.16.8.237 Number of SIM Calls		5060			
	Backup and Restore Reporting	v	1 Number of Physical PSTN Ports on device					
Ð	Security	*						
4	Advanced Call Flow Apps	^	Authentication					
	Fax		Register/Account based Authentication (D (aka SIP User ID)				*	
6	FaxServer		10001					

5. "Generate device config" will direct to Call4Tel portal shown below. If it is not directed, the portal can be reached via following URL http://IP/Wizard,

eg: http://172.16.8.237/Wizard (Gateway IP address configured in Step 3)

## **STEP 6: CONFIGURING FXO & FXS IN CALL4TEL PORTAL**



**Login Credentials** 

Username: root

Password: 3cx

#### **PBX Address**

	SE	ETTINGS		
PBX address*				
PBX port				
	"Re	quired fields		
	Deputation	Evit	Nevt	

Once you enter the credentials you will be prompted to enter the PBX Address and Port.

PBX Address: Based on the IP address configured in Step 4

PBX Port : 5060

Click on "Next" to proceed to next step

### **FXO Configuration**

	FXO	Configurat	tion	
Group Name*				
Ports*		🗹 fxo-1	🗹 fxo-2	
User*				
Auth				
Secret*				
	*R	equired fields	í	
	Previous	Exit	Next	

Enter the all the mandatory field highlighted in \*.

Group Name	Based on own preference
Ports	No of ports to be configured as FXO
User	Generated from 3CX management console up)
Auth	Generated from 3CX management console PSTN Number)
Secret	Generated from 3CX management console PSTN Number)

#### Generating User and Secret Credentials from the 3CX Management Console

1. Login to the 3CX Management console --> SIP Trunk --> Select the Gateway (Added in Step 5)

	3CX				٠=		
P	Messaging		Catiletel A1064 (FXD Device)				
Q	Digital Receptionists		Registrar/Server/Gateway Hostname or IP				
	Ring Groups		172.168.237	5060			
4	Call Queues		Number of SIM Calls				
	Backup and Restore		1				
	Reporting	÷	Number of Physical PSTN Ports on device				
	Sacally		1				
	Advanted						
4	Call Flow Apps	5745	Authentication				
	Contacts		Type of Authentication				
	Fax		Register/Account based			2	
	Fax Server		Authentication ID (aka StP User ID)				
é	FXS/DECT		10001				
5	Hotdesking		Authentication Password				
	Suttings		nulcurit (f		1	0	
3CX	Portal		3 Way Authentication Password				

- 2. The Authentication ID will be used to enter "User" and "Auth" Field in FXO Configuration.
- 3. Authentication Password details to be input as "Secret".
- 4. Upon completing all fields in the FXO Configuration, click on "Next" to FXS Configuration.

### **FXS** Configuration

Easy Configuration Wizard

### FXS Configuration

fxs-3-sip-198-172.16.8.236

User	
Auth	
Secret	
	fxs-4-sip-199-172.16.8.236
User	
Auth	
Secret	
	Optional
	Previous Exit Next

1. Enter the extension details in "User" Field and click on "Next"

Х

#### **Configuration Summary**

Easy Configuration Wizard



Afrer using the 'Activate'-button, the gateway will be configured and restarted

Exit

Previous

Next Activate

- 1. The configuration summary on the FXO and FXS will be shown as per above.
- 2. Click on "Activate" to finalize the configuration. Successful configuration message will be prompted.

## **STEP 7: 3CX REGISTRATION VERIFICATION**

- 3CX . ھ de Dashboard SIP Trunks ( Help 1 Users 2 Phones **SIP Trunks** © SP Trunks / Life X Drives X Enable All @Disable All @Reflech Registration & report Provider & Lips + Add Stir Trunk + AND Dridge Inbound Rules Orush Canity Dia 1 Outbound Rules Search\_ D Messaging Last Failed Q Digital Receptionists Name Hest Type Sin Calls Main Trunk No **Register Sent** Register OK Register Mang Groups Be . н be AL Call Queues (40 Backup and Restore Bo ٠ × 18 Reporting ~ . 80 × C Security \* . Ċai × O Advanced • Cal . H 46 Call Flow Apps 172.16.8.237 63403005 Califiel AID64 Analog . 1 н Consacts (FXO Device) @ fax . CalM x Call4 Ø Fax Server ٠ ж . B DIS/DECT Test ×
- 1. Login to the 3CX management console --> SIP Trunk

2. Device status is now Green and Active