

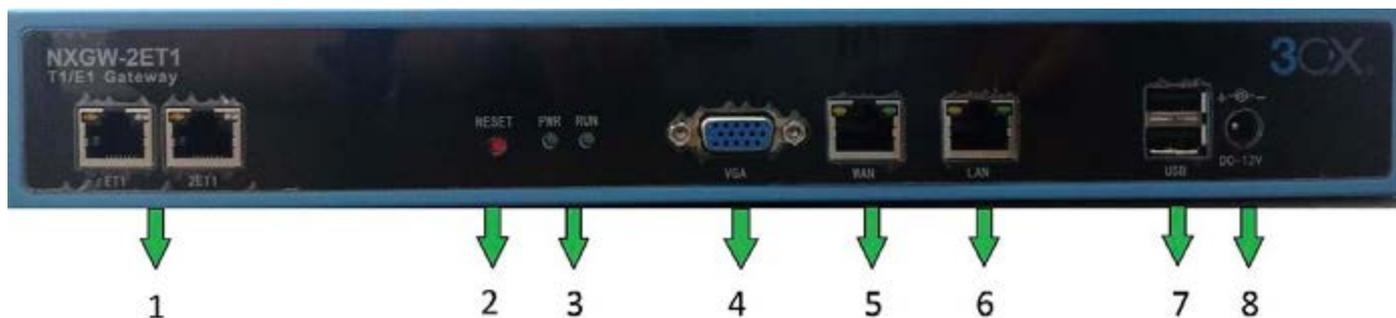


Configuring the Call4Tel E1 Gateway

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Call4Tel E1 Gateway is used to connect ISDN (PRI / BRI) lines.



1. Port for E1 Line
2. Reset Button for Gateway
3. Device power indicator
4. VGA port
5. WAN Port
6. LAN Port
7. USB
8. Power Adapter

CONNECT WAN PORT / LAN PORT ON E1 DEVICE

WAN Connection

If there is a DHCP network, you can connect it with the device via the WAN interface and extract the IP address via an IP Scanner (based on WAN MAC found on the device).

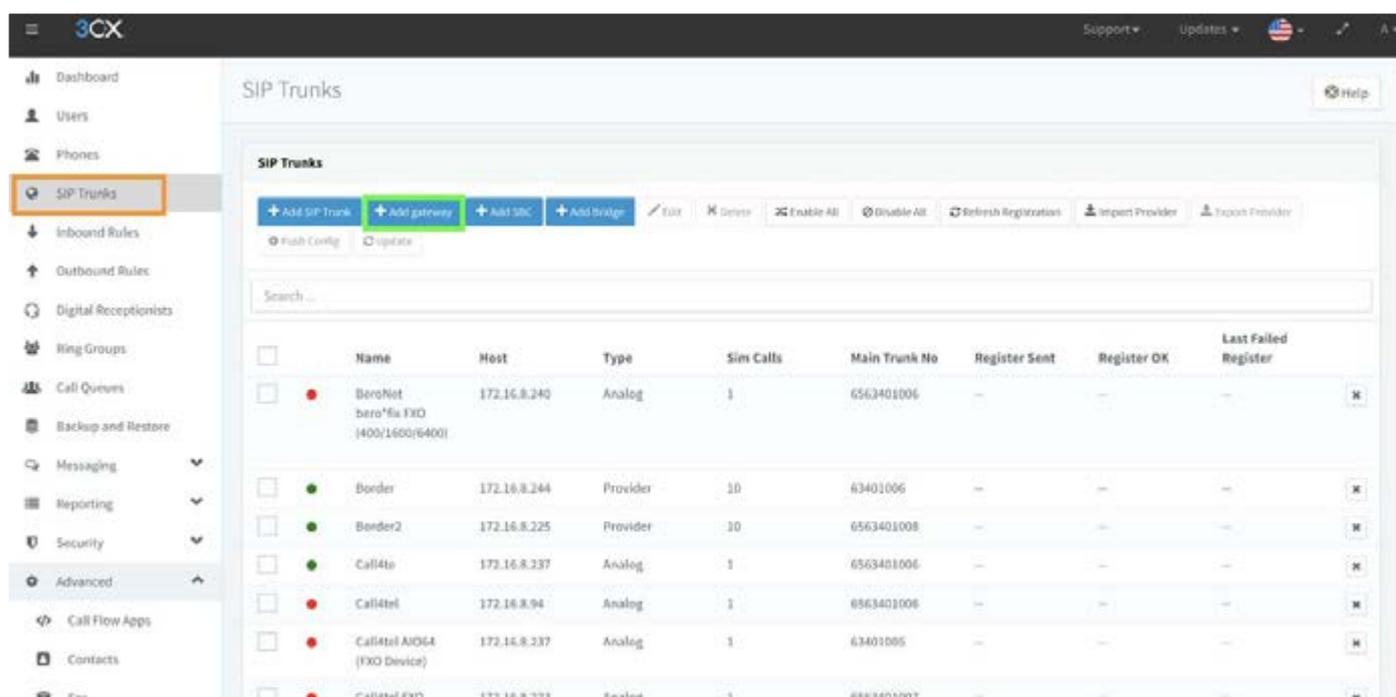


LAN Connection

If a DHCP network is not available, you can use LAN1 which is configured using a fixed static IP 192.168.100.99. You can configure the static IP address on your PC and try to access the device via direct connect to LAN1
LAN 1: 192.168.100.99

ADDING THE GATEWAY TO THE 3CX MANAGEMENT CONSOLE

1. Login to your 3CX Management console --> SIP Trunk --> Add Gateway



2. Select the Gateway

Add PSTN Gateway

Select Brand
Call4tel

Select model/device
Call4tel PRI(E1/2E1)

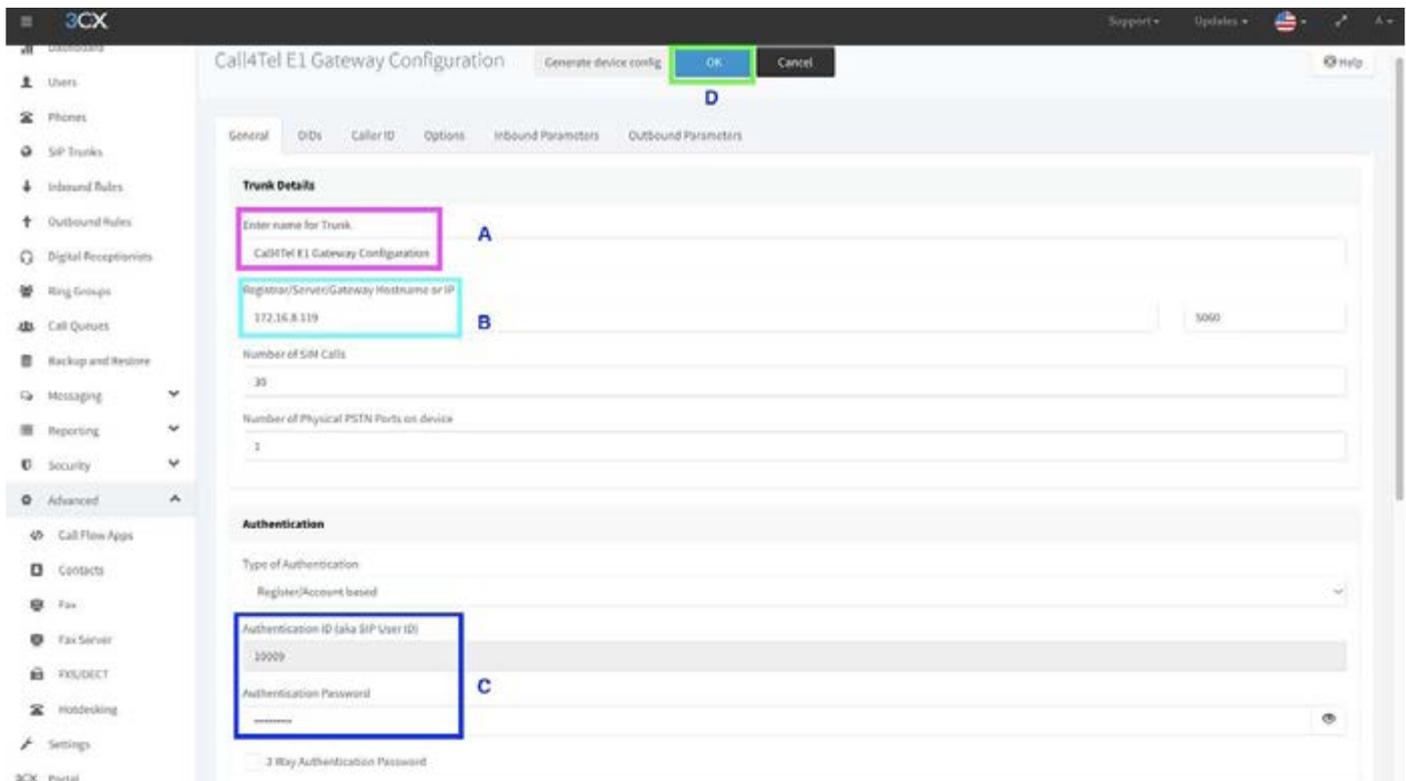
Number of Physical PSTN Ports on device
1

Main Trunk No
63401010

OK Cancel

Brand	Call4tel
Model	Call4Tel PRI (E1/2E1)
Main Trunk No	Based on the DID Number

3. Insert the Gateway Details



A. Enter Name for Trunk	Based on preferred Name
B. Registrar / Server / Gateway	Gateway IP Address configured
C. Authentication ID	Please use these credentials to configure the gateway in next step

4. Click OK to proceed

5. Check Device Status

	Name	Host	Type	Sim Calls	Main Trunk No	Register Sent	Register OK	Last Failed Register
<input type="checkbox"/>	BeroNet bero*lix FXO (400/1400/1400)	172.11	Analog	1	65	--	--	--
<input type="checkbox"/>	Border	172.11	Provider	10	63	--	--	--
<input type="checkbox"/>	Border2	172.11	Provider	10	65	--	--	--
<input type="checkbox"/>	Call4te	172.11	Analog	1	65	--	--	--
<input type="checkbox"/>	Call4tel	172.11	Analog	1	65	--	--	--
<input type="checkbox"/>	Call4tel AIO64 (FXO Device)	172.11	Analog	1	63	--	--	--
<input type="checkbox"/>	Call4Tel E1 Gateway Configuration	Http://172.16....	E1	30	63401010	--	--	--
<input type="checkbox"/>	Call4tel FXO	172.16.8.223	Analog	1	6563401007	--	--	--

- Device status was added but inactive.
- Click on the device again for further configuration.

6. Generate Device Config

Call4Tel E1 Gateway Configuration Generate device config OK Cancel

General | DIDs | Caller ID | Options | Inbound Parameters | Outbound Parameters

Trunk Details

Enter name for Trunk
Call4Tel E1 Gateway Configuration

Registrar/Server/Gateway Hostname or IP
172.16.8.119 5060

Number of SIM Calls
30

Number of Physical PSTN Ports on device
1

Authentication

Type of Authentication
Registered/Account based

Authentication ID (aka SIP User ID)
10000

Authentication Password
[Masked]

3 Way Authentication Password

7. Select "Generate Device config"

CALL4TEL E1 GATEWAY CONFIGURATION

- You will be directed to the Call4Tel portal upon clicking on "Generate device config".
- If you are not, the portal can be reached via the following URL <http://GatewayIP/cgi-bin/php/system-wizard.php> eg: <http://172.16.8.119/cgi-bin/php/system-wizard.php>

Login Credentials

Username: root

Password: 3cx

3CX Settings

1. Enter the PBX's IP address and click on Next

SYSTEM | T1/E1 | VOIP | ROUTING | NETWORK | ADVANCED | LOGS

3CX SETTINGS

PBX address* 172.16.8.236 IP Address of PBX

PBX port 5060

*Required fields

Previous Exit Next

E1/T1 Configuration

E1/T1 CONFIGURATIONS

Locale* Singapore A

Mode* E1 T1 B

Port #	Timing Source	Interface	Framing	Coding	CRC4	Signalling
Port 1	1	E1	CCS	HD03	On	PRI (CPE side)

*Required fields

Previous Exit Next

- A. Select the Country
- B. Choose depending on the current line (E1 or T1)
- C. Configuration set up

Click on Next upon completion

Username and Credentials Configuration

CONFIGURATION

Group Name*	Call4Tel E1 Gateway
Ports*	Port-1 <input checked="" type="checkbox"/>
User*	10009
Auth	10009
Secret*	r00Qulka70

**Required fields*

Previous Exit Next

Group Name	Based on preferred Name
Ports	Tick on the Port (There will be 2 ports selection for E2 Device)
Users & Auth	Based on the Authentication ID which can be found in the 3CX management console (step 2)
Secret Code	Authentication Password in the 3CX management console (step 2)

Click on Next to continue.

Configuration Summary

Gateway Configuration



3CX SETTINGS

PBX address	PBX port
172.16.8.236	5060

E1/T1 CONFIGURATIONS

Locale	Mode
Singapore	e1

Port #	Timing Source	Interface	Framing	Coding	CRC4	Signalling
Port 1	1	E1	CCS	HDB3	On	PRI (CPE side)

CONFIGURATION

Group name	Ports	User	Auth
Call4Tel E1 Gateway	Port-1	10009	10009

DIAPIAN ENTRIES

Direction	From	To
SIP-PRI	10009	Call4Tel E1 Gateway
PRI-SIP	Call4Tel E1 Gateway	10009

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

Previous Exit Next **Activate**

- Configuration summary as per above will appear.
- Please check all the information and click on "Activate" if correct

Activation message prompt

172.16.8.119 says

Wait three to five minutes

OK

Activation is in progress upon receiving above prompt

Device configured successfully

172.16.8.119 says

Save succeeded

OK

Gateway System Status

SYSTEM | T1/E1 | VOIP | ROUTING | NETWORK | ADVANCED | LOGS

System Status | Call Status | Time | Login Settings | General | Tools | Information

call4tel digital soft gateway 3CX

Interface Status

Port1

OK Down Reboot

Channels Status

Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	OK																														

Idle Busy Same Node Type Disable S channel

SIP Information

Endpoint Name	User Name	Host	Registration	Status
10008	10008	172.16.8.236	client	OK (51 ms)
10009	10009	172.16.8.236	client	OK (54 ms)

Status "Ok" indicates that the device has been successfully configured

3CX REGISTRATION VERIFICATION

Login to the 3CX management console --> SIP Trunk

The screenshot shows the 3CX management console interface. On the left is a navigation menu with options like Dashboard, Users, Phones, SIP Trunks, Inbound Rules, Outbound Rules, Digital Receptionists, Ring Groups, Call Queues, Backup and Restore, Messaging, Reporting, Security, and Advanced. The main area is titled 'SIP Trunks' and contains a table of SIP Trunk configurations. The table has columns for Name, Host, Type, Sim Calls, Main Trunk No, Register Sent, Register OK, and Last Failed Register. The row for 'Call4tel E1 Gateway Configuration' is highlighted with a green border, showing a green status icon and 'Active' in the Register OK column.

	Name	Host	Type	Sim Calls	Main Trunk No	Register Sent	Register OK	Last Failed Register
<input type="checkbox"/>	Berolnet bero*lix FXO (409/1600/6400)	172.16.8.249	Analog	1	6563401000	--	--	--
<input type="checkbox"/>	Bonder	172.16.8.244	Provider	10	63401000	--	--	--
<input type="checkbox"/>	Bonder2	172.16.8.225	Provider	10	6563401000	--	--	--
<input type="checkbox"/>	Call4te	172.16.8.237	Analog	1	6563401000	--	--	--
<input type="checkbox"/>	Call4tel	172.16.8.94	Analog	1	6563401000	--	--	--
<input type="checkbox"/>	Call4tel A1064 (FXO Device)	172.16.8.237	Analog	1	63402000	--	--	--
<input type="checkbox"/>	Call4tel E1 Gateway Configuration	http://172.16.8.110/	E1	30	63401010	--	Active	--
<input type="checkbox"/>	Call4tel FXO	172.16.8.223	Analog	1	6563401007	--	--	--
<input type="checkbox"/>	Call4tel FXS	172.16.8.229	Analog	1	6563401000	--	--	--
<input type="checkbox"/>	Call4tel PR0(1/2E1)	172.16.8.119	E1	30	6563401000	--	--	--

Device status has become Green and Active.