



# TM MPLS Line configuration with NX-32 VoIP Gateway

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# DEVICE CONFIGURATION

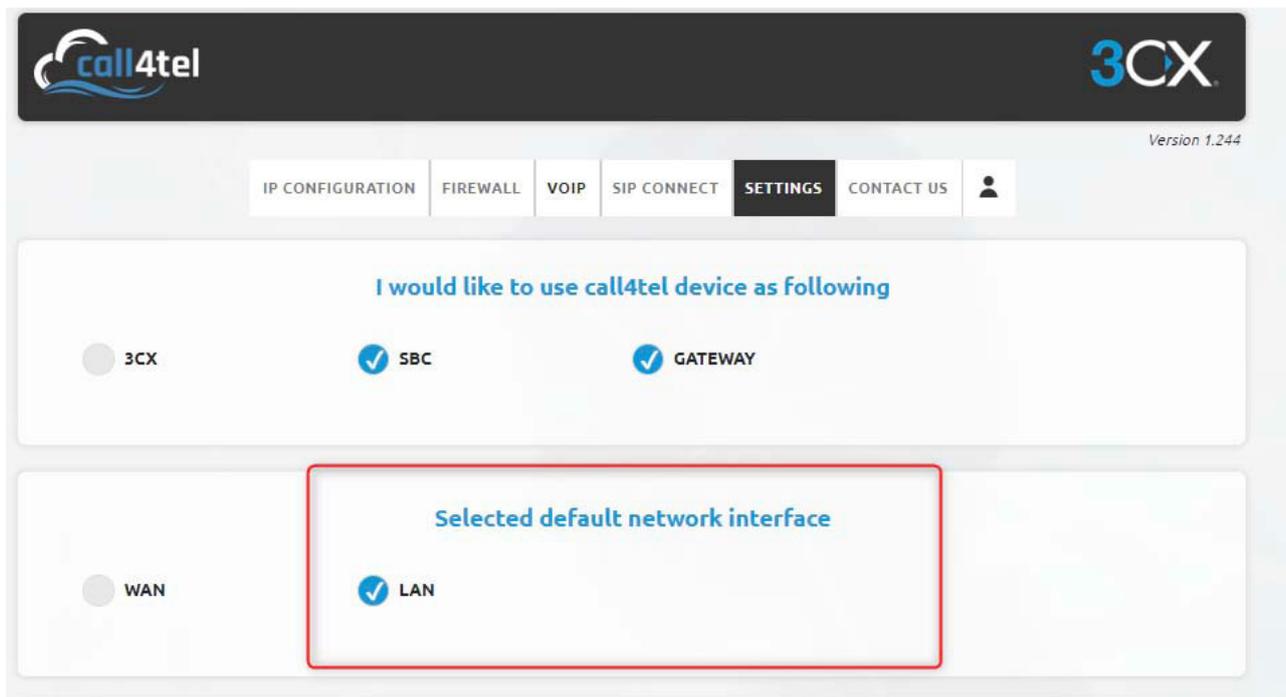
WAN will be used to connect the local LAN network to communicate with the 3CX server or 3CX SBC. LAN is needed to set the static local IP address.

LAN will be used to connect the TM MPLS line which will come from TM. The LAN interface will obtain the IP address from the TM DHCP server.

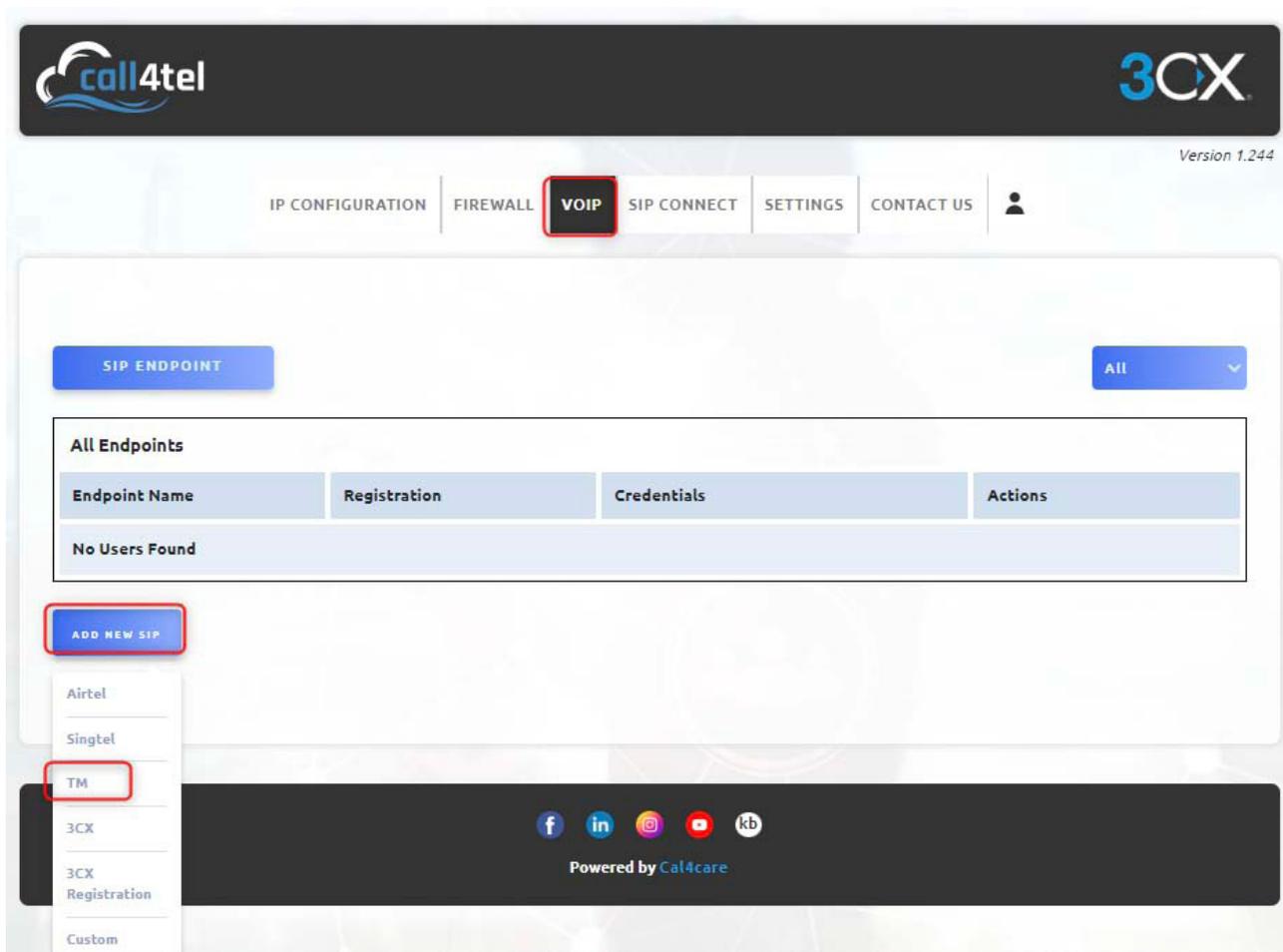
The screenshot shows the 'IP CONFIGURATION' page in the 3CX management interface. At the top, there are logos for 'call4tel' and '3CX' with the version '1.244'. A navigation menu includes 'IP CONFIGURATION', 'FIREWALL', 'VOIP', 'SIP CONNECT', 'SETTINGS', and 'CONTACT US'. Two radio buttons are visible: 'Obtain an IP address automatically' (checked) and 'Use the following IP address'. Below this, there are two main configuration panels: 'LAN' and 'WAN'. The LAN panel is highlighted in blue and contains a red warning box with the text: 'Connect TM MPLS line with LAN interface. Device will get DHCP IP address from MPLS Line'. The WAN panel is highlighted in teal. Both panels show fields for Address, Netmask, Gateway, and MAC Address. An 'Update Lan' button is located to the right of the LAN panel.

Interface	Address	Netmask	Gateway	MAC Address
LAN	10.168.101.8	255.255.255.0	10.168.101.1	70:b3:d5:04:33:75
WAN	172.16.8.244	255.255.255.0	172.16.8.1	70:b3:d5:04:33:74

Ensure the default trunk is selected to LAN on the Settings page



To create the TM Trunk, open the Call4tel portal using IP address:5448 navigate to VoIP, Add New SIP endpoint and select TM.



A pop up will appear prompting you to enter TM user name and password. The details will be provided by TM. Enter the details and click Save.

The image shows two screenshots of a web interface. The top screenshot displays a pop-up window titled "TM SIPTRUNK" with a red close button in the top right corner. The pop-up contains the following text and fields:

- SIP User Name provided by TM** (highlighted in red)
- Username: +60388XXX000
- SIP Password provided by TM** (highlighted in red)
- Password: 58XX13
- Save button

The background interface shows a header with "call4tel" and "3CX" logos, and a navigation menu with "IP CONFIGURATION", "FIREWALL", "VOIP", "SIP CONNECT", "SETTINGS", and "CONTACT US". Below the header, there is a "SIP ENDPOINT" section with a dropdown menu set to "All". A table titled "All Endpoints" is shown with the following structure:

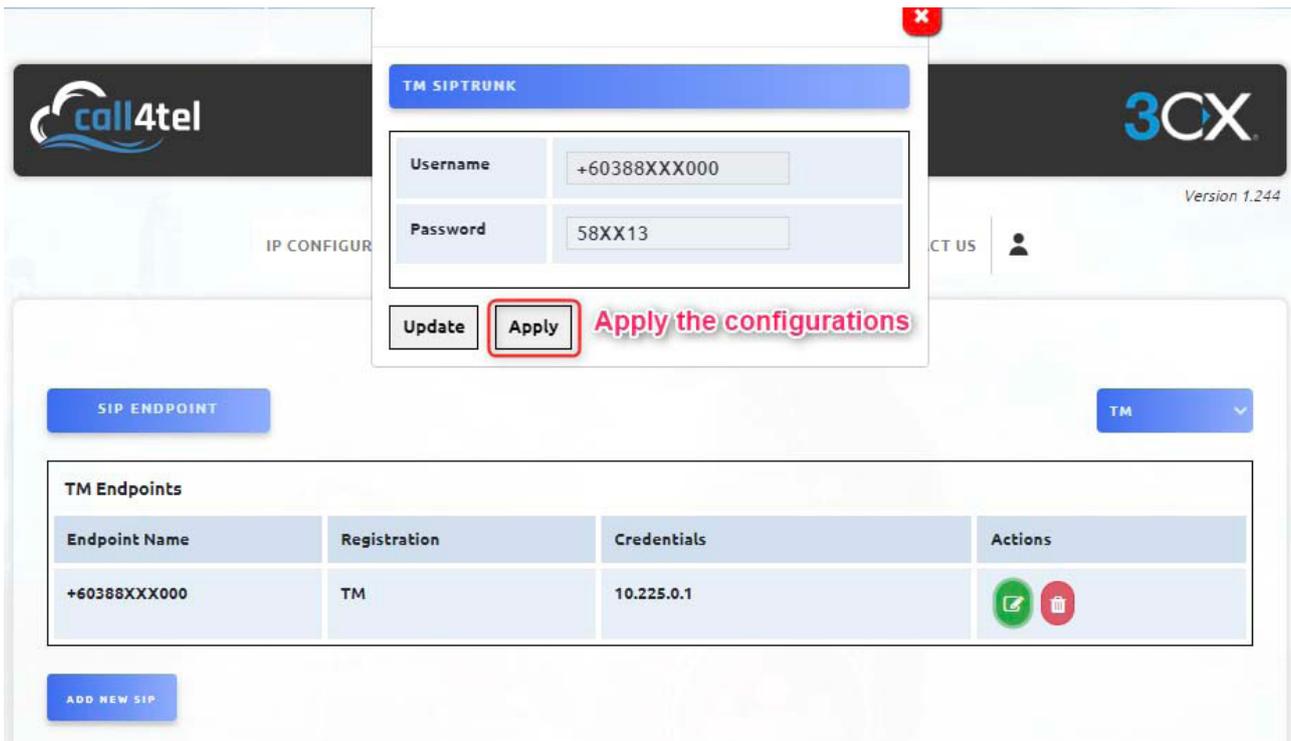
Endpoint Name	Registration	Credentials	Actions
No Users Found			

The bottom screenshot shows the same interface but with the dropdown menu set to "TM". The table now displays one endpoint:

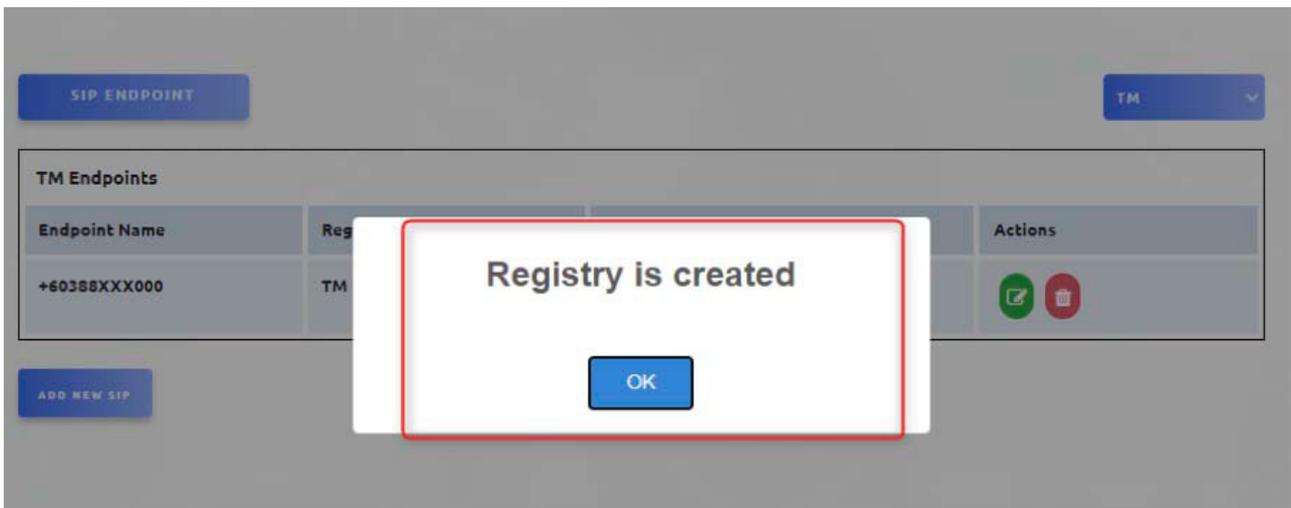
Endpoint Name	Registration	Credentials	Actions
+60388XXX000	TM	10.225.0.1	 

At the bottom of both screenshots, there is a footer with social media icons (Facebook, LinkedIn, Instagram, YouTube, and a 'kb' icon) and the text "Powered by Cal4care".

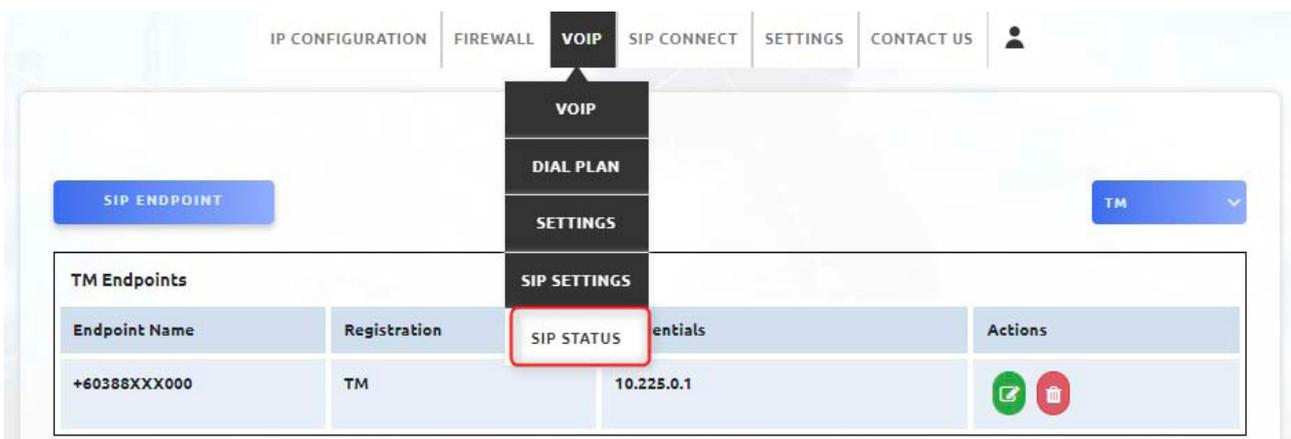
To apply the configuration, edit the TM Trunk by clicking on the green button as shown above and click on apply to save the configuration, as shown below.

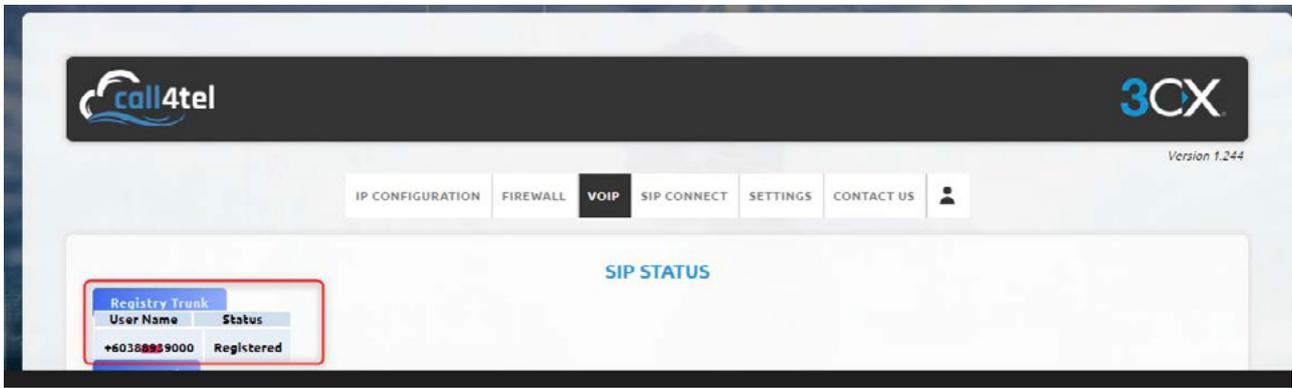


A pop up will appear informing you that the Registration is completed successfully. Click ok.

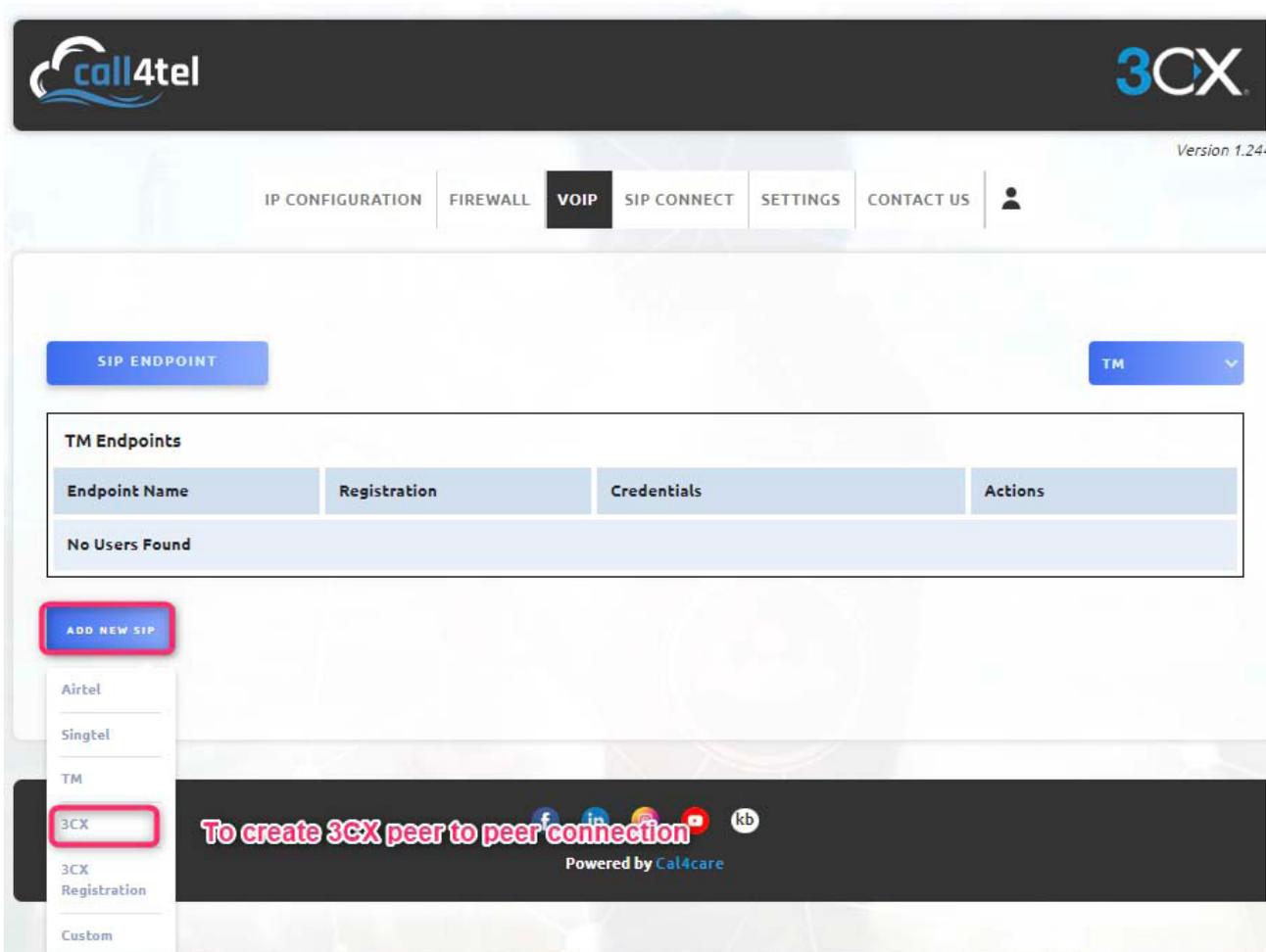


Check the trunk status by going to VoIP> SIP Status.





Now you need to configure the 3CX SIP trunk with your NX32 Gateway using peer to peer connections (Applicable only with 3CX & NX32 VoIP Gateway in same location or VPN connections),



Enter the required details

3CX SIPTRUNK

Username: 3cx\_trunk **User Name (Any)**

Host: 172.16.8.200 **3CX Server IP address**

Port: 5060 **3CX server SIP port**

Update

Once the trunk is created you will see both the trunk and the SIP end points.

3cx Endpoints

Endpoint Name	Registration	Credentials	Actions
3cx_trunk	3cx	172.16.8.200	 

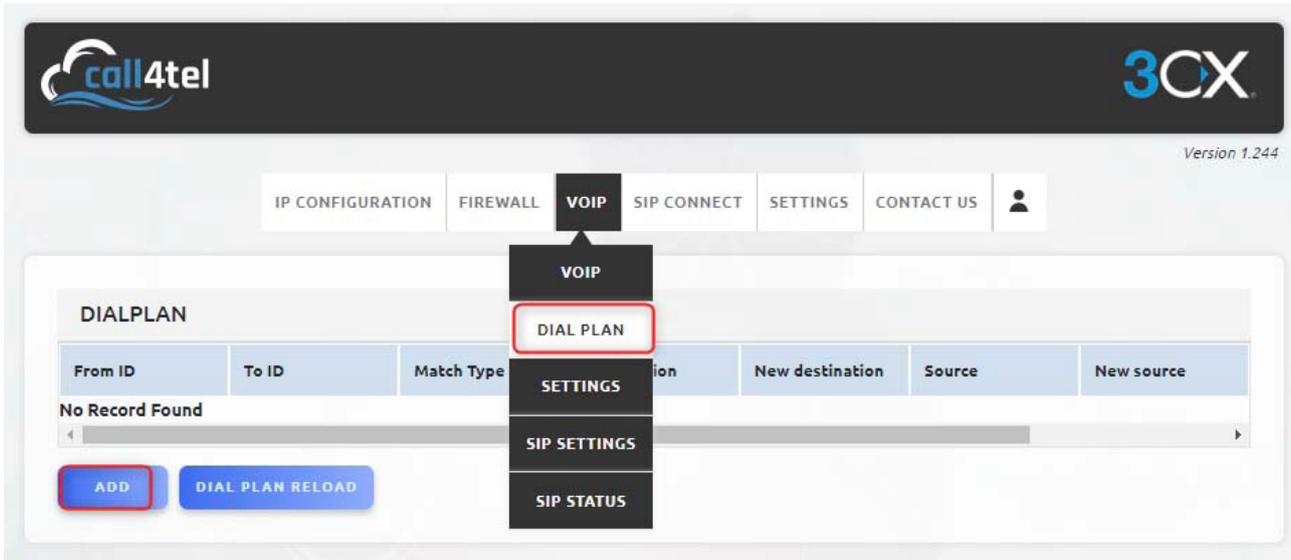
TM Endpoints

Endpoint Name	Registration	Credentials	Actions
+60320357660	TM	10.225.0.1	 

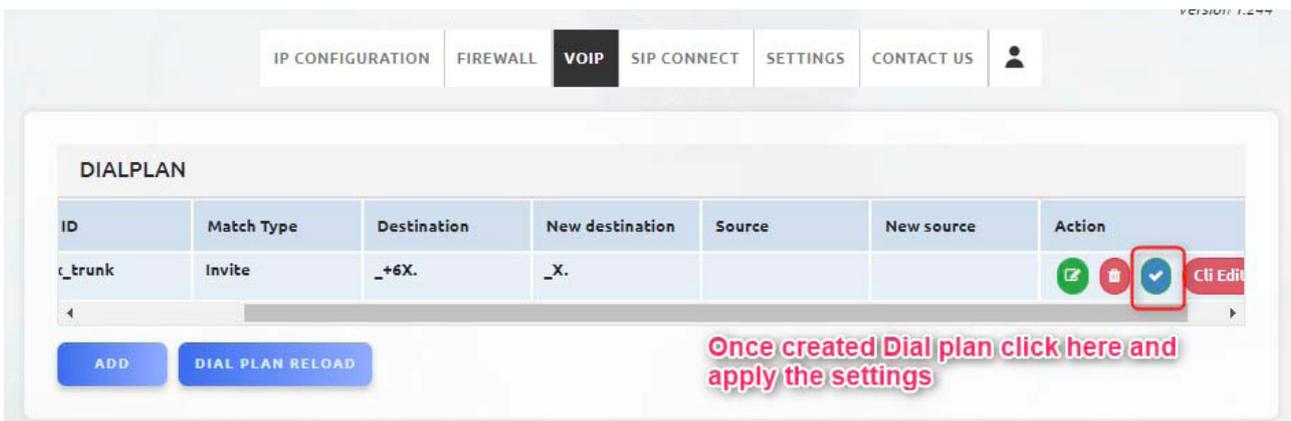
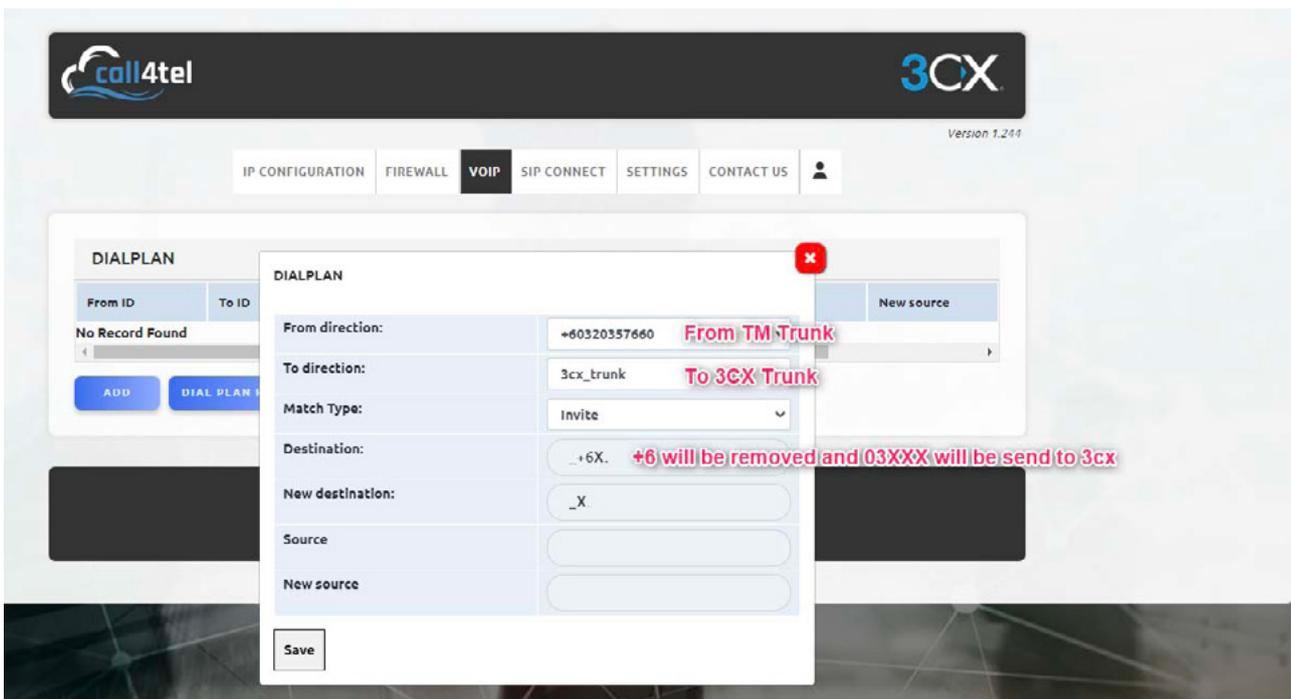
ADD NEW SIP

# CREATE A DIAL PLAN

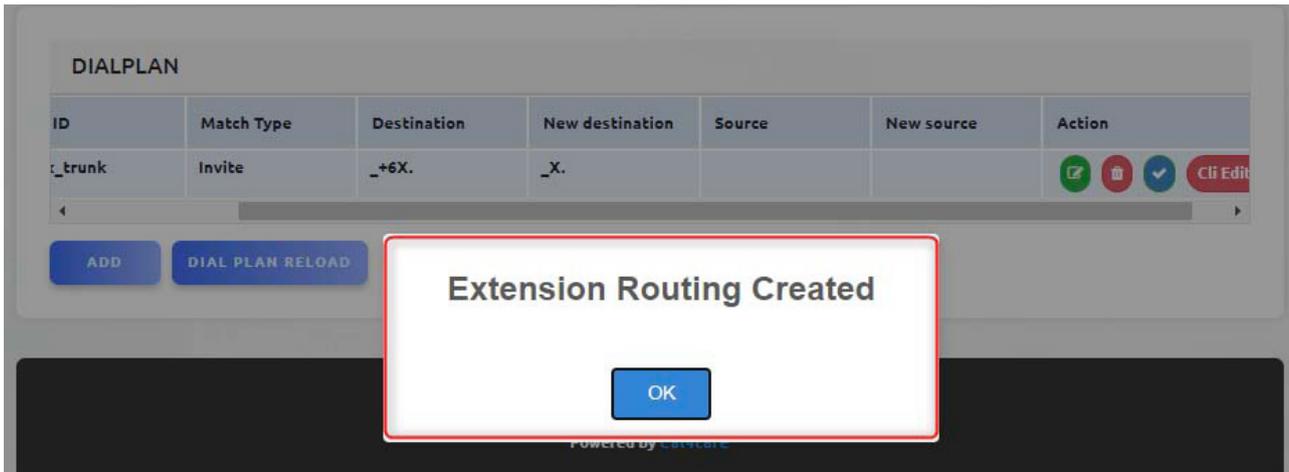
Now you need to configure a dial plan to route your calls. Go to your Call4tel portal > VoIP > Dial Plan.



From TM the incoming calls begin with +60XXXXXXXXX so we will use +6 as the prefix to route the calls. +6 will be removed when it reaches the 3CX server. If you need to receive +6XXXX on 3CX just use dial plan "\_X." on destination

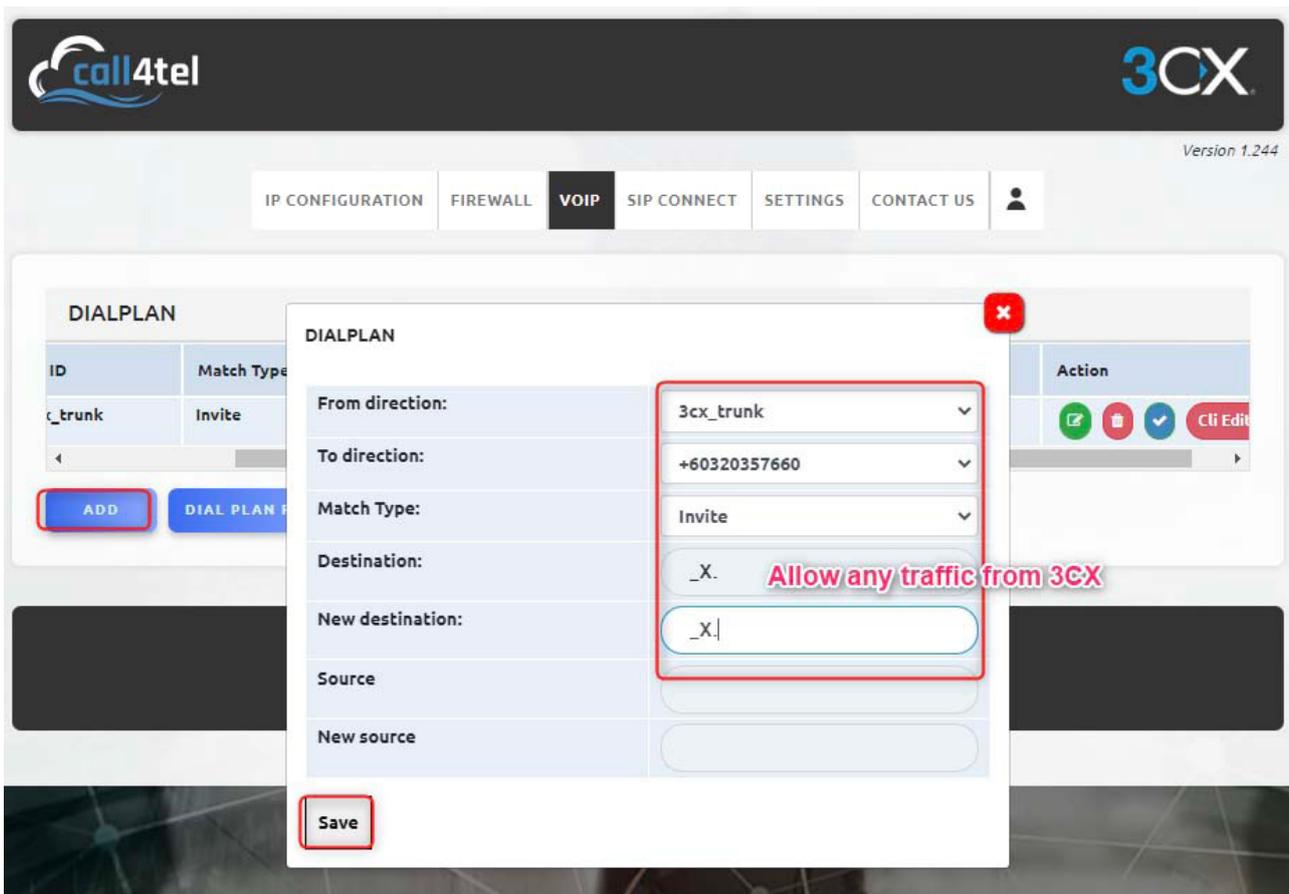


Once the dial plan is created you must apply your configuration otherwise the settings will not come into affect.

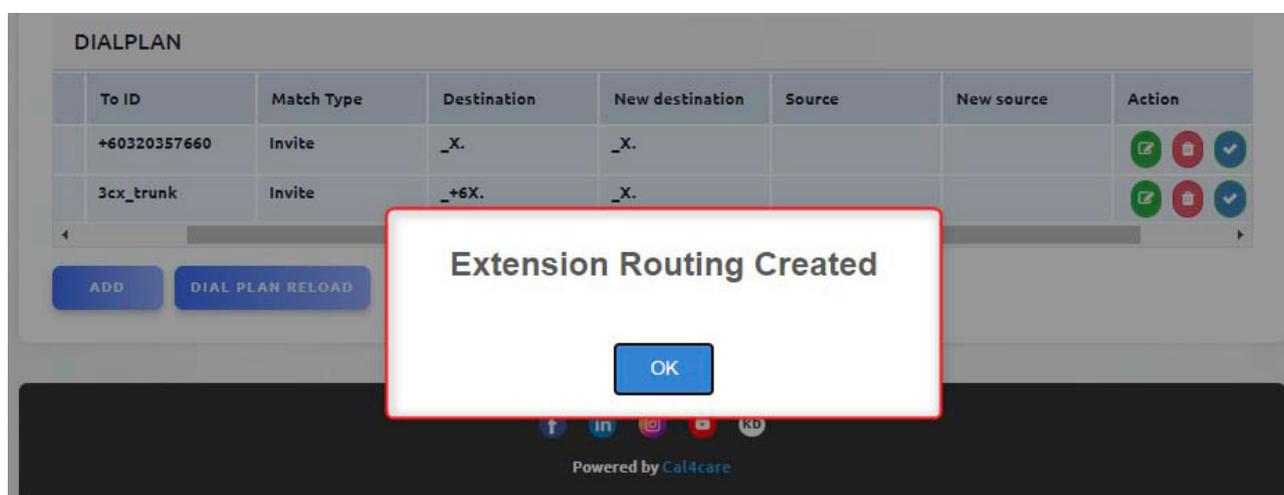
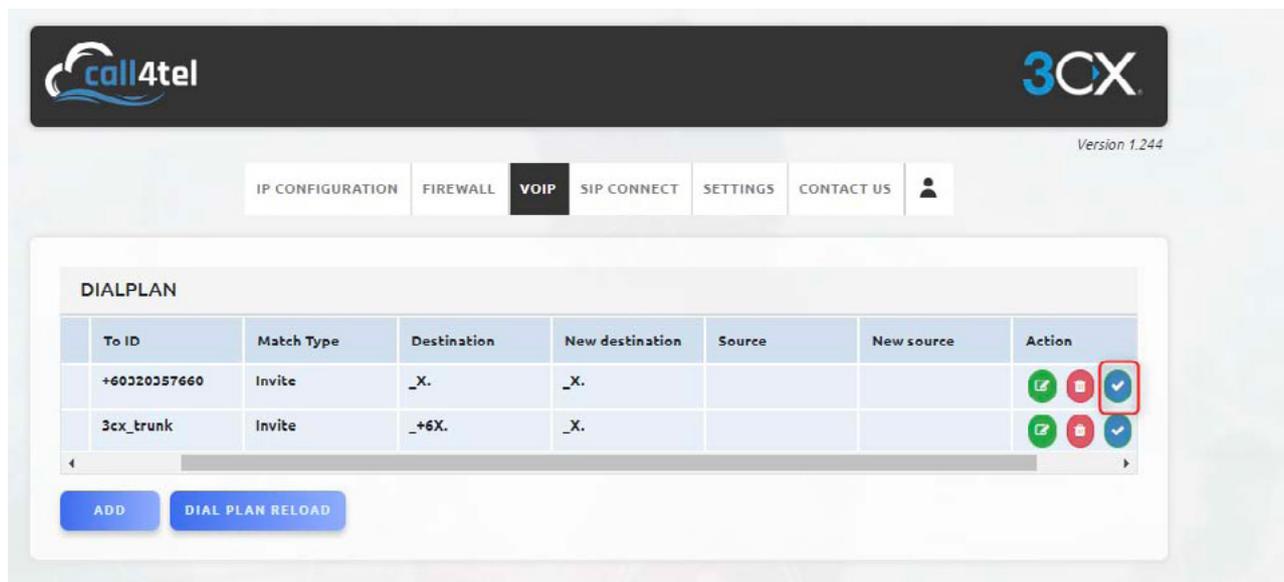


The above screen is confirmation that the routing was successfully created.

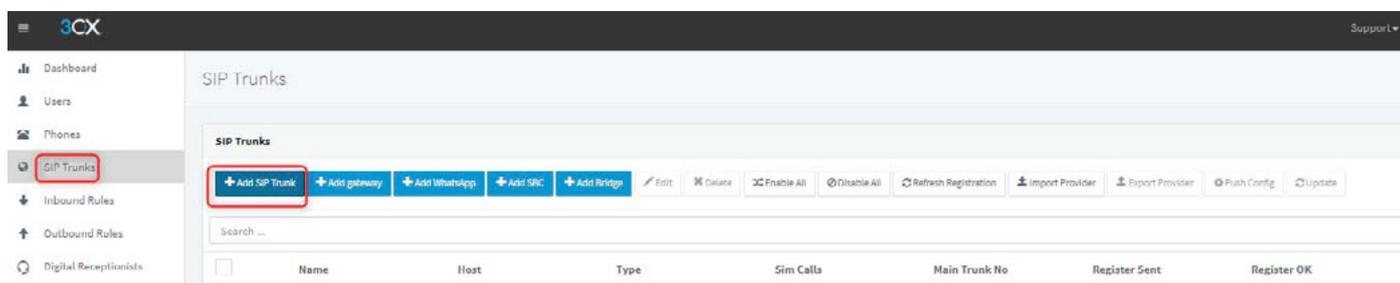
## CREATE DIAL PLAN 3CX TO TM TRUNK



Click save as shown above and then click the apply button activate the configuration



## CREATE PEER TRUNK ON 3CX



### Add SIP Trunk/VoIP Provider

Select Country

Generic

Select Provider in your Country

Generic VoIP Provider

**⚠ We strongly recommend using a preferred, or at least a supported vendor. 3rd Party supported means they must test and SUPPORT the integration.**

Main Trunk No

+60320357660

OK Cancel

### Generic VoIP Provider

OK Cancel Help

General DIDs Caller ID Options Inbound Parameters Outbound Parameters

**Trunk Details**

Enter name for Trunk **Trunk Name**

Calltel

Registrar/Server/Gateway Hostname or IP **Nx32 VoIP Gateway IP address**

172.16.8.244

**Gateway SIP Port**

5060

Auto Discovery

Outbound Proxy

5060

Auto Discovery

Number of SIM Calls

10

**Authentication**

Type of Authentication **Select this for peer connection**

Do not require - IP Based

Authentication ID (aka SIP User ID)

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

**DIDs**

**+ Add DID Formats**

**DID/DDI Number**

0320357660

0320357661

0320357662

0320357663

0320357664

# INBOUND RULES

Add Inbound Rule OK Cancel

---

**General**

Name  
Inbound rule name

DID/DDI  
0320357660 **DID to select**

---

**Route calls to**

Destination for calls during office hours  
Extension  
000 Omni Channel

Destination for calls outside office hours  
Extension  
000 Omni Channel

Set up Specific Office Hours for this rule

Play holiday prompt when it's a global holiday

# OUTBOUND RULES

Add Outbound Rule

OK

Cancel

## General

Rule Name

Im\_out

## Apply this rule to these calls

Calls to numbers starting with prefix

0-9

Calls from extension(s)

000-999

Calls to Numbers with a length of

Calls to Numbers with a length of

Calls from extension group(s)

+Add

## Make outbound calls on

Configure up to 5 backup routes for outgoing calls. Each route can be configured differently

Route		Strip Digits	Prepend	Outbound Caller ID
1	Call4tel	0	9	
2	BLOCK CALLS	0		

Add 9 prepend for all calls