N-Series

N-Series SIP IP PBX

User Configuration Guide

N-20 IP PBX
N-30 IP PBX
N-50 IP PBX

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N - Series

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Overview

NO.	Name	Description
1	Power LED	Indicate Power Status ON/OFF
2	Status LED	Indicate Device Status
		A. Power Status
		B. Running Status Of Device
		C. ETH 0 WAN LED Status [UP/DOWN]
		D. ETH 1 LAN LED Status [UP/DOWN]
3	RESET	To reset device on factory default
4	LCD Display	To check status of FXO/FXS Port or LAN/WAN
5	SIM Slot	To use SIM card
6	COM Port	Console port [For L3 Tech use only]
7	Power Socket	For external Power Supply Adaptor 12V-2A/ 12V-3A
8	ETH 1	RJ45 - 10/100 Ethernet Port [LAN]
9	ETH 0	RJ45 - 10/100 Ethernet Port [WAN]
10	USB	USB A Type for Storage device [For Recording]
11	FXS/FXO Port	To use analog phone or PSTN Line
12	Anteena Port	Anteena used for Signal

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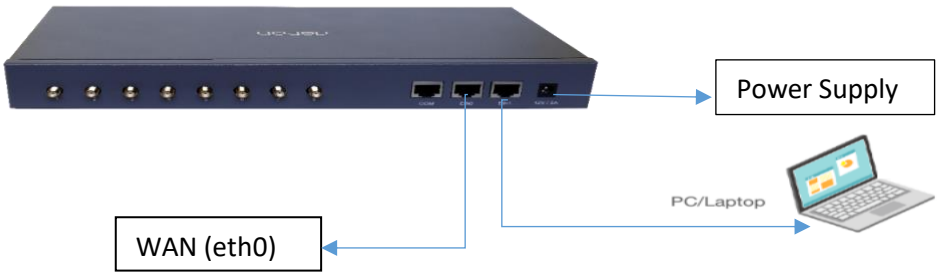
Login GUI

Name	Description
ETH 0 WAN	Default IP address [DHCP]
ETH 1 LAN	Default IP address - 10.91.8.1 Protocol - DHCP Server Subnet - 255.255.255.0
Login User ID	admin
Login Password	admin

GUI Login with PC/Desktop



- Connect Cat5/Cat6 LAN Cable to **PBX** ETH 1 port and Laptop/Desktop Ethernet port back to back
- Go to Network setting in PC and select DHCP in IPV4 Network Address
- **PBX** DHCP server will allocate IP for PC
- Open Google Chrome / Mozilla Firefox to Brows ip address 10.91.8.1 or https://10.91.8.1
- If DHCP server failed to allocate IP address for PC , configure manually network IP address in network setting > ETH port > IPV4 [IP address for PC 10.91.8.11 Subnet 255.255.255.0]
- Ping **PBX** IP address 10.91.8.1 using terminal or command prompt
- If Ping request is OK , Brows **PBX** default IP Address

Ping Request Status

Request Timeout (Sample)

```
PING 10.91.8.11 (10.91.8.11): 56 data bytes
Request timeout for icmp_seq 0
Request timeout for icmp_seq 1
Request timeout for icmp_seq 2
Request timeout for icmp_seq 3
```

Network Response (Sample)

```
PING 192.168.1.199 (192.168.1.199): 56 data bytes
64 bytes from 192.168.1.199: icmp_seq=0 ttl=64 time=2.159 ms
64 bytes from 192.168.1.199: icmp_seq=1 ttl=64 time=2.134 ms
64 bytes from 192.168.1.199: icmp_seq=2 ttl=64 time=2.127 ms
64 bytes from 192.168.1.199: icmp_seq=3 ttl=64 time=2.619 ms
```

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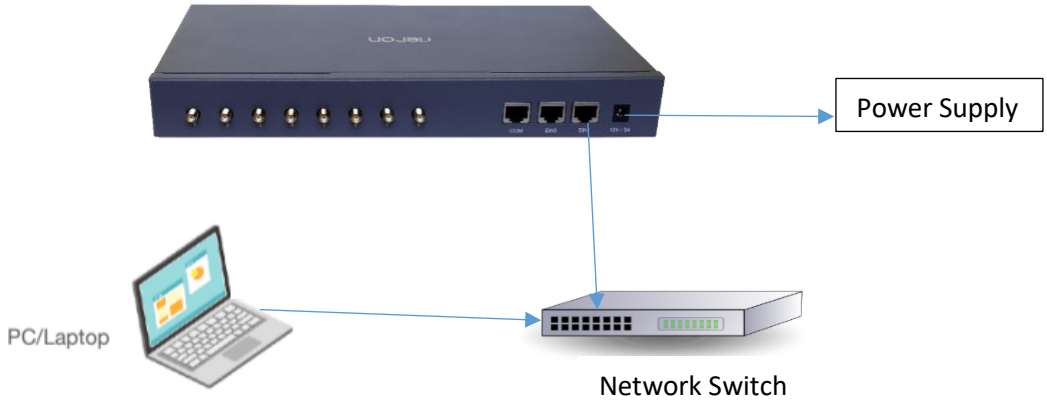
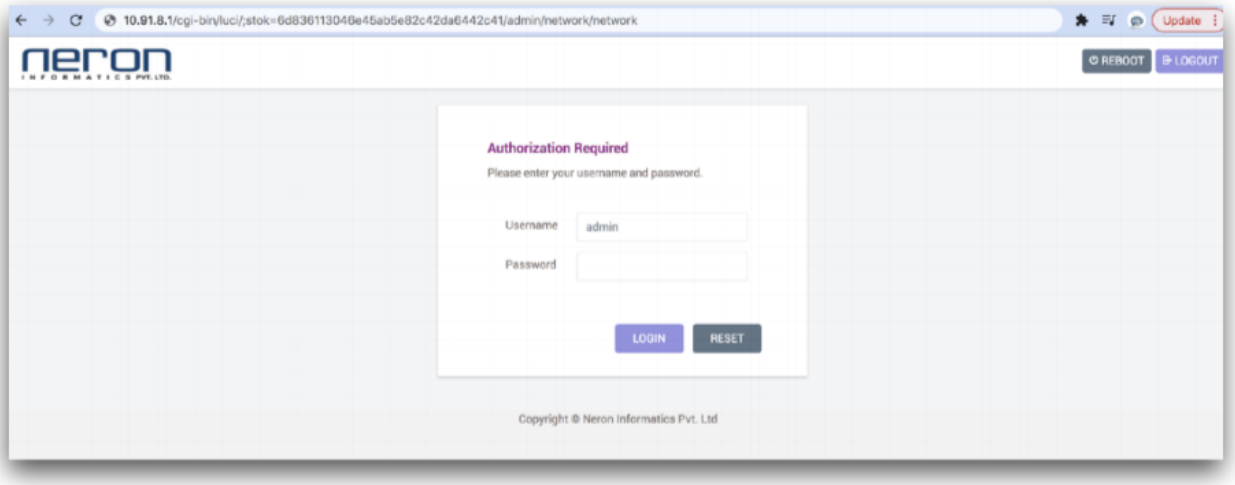
GUI Login with Network Switch

Name	Description
ETH 0 WAN	Default IP address [DHCP]
ETH 1 LAN	Default IP address - 10.91.8.1 Protocol - DHCP Server Subnet - 255.255.255.0
Login User ID	admin
Login Password	admin



- Connect LAN Cable to **PBX** ETH 1 port and Network Switch Ethernet
- Connect PC/Laptop Ethernet Port to Network Switch
- Go to Network setting in PC and select DHCP in IPV4 Network Address
- **PBX** DHCP server will allocate IP for PC
- If DHCP server failed to allocate IP address for PC , configure manually network IP address in network setting > Eth port > IPV4 [IP address for PC 10.91.8.11 Subnet 255.255.255.0]
- Open Google Chrome / Mozilla Firefox to Brows ip address 10.91.8.1 or https://10.91.8.1

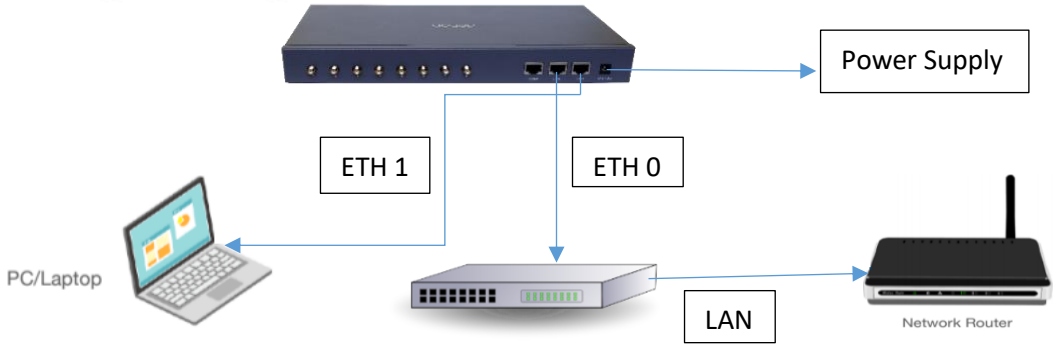


N - Series

Login PBX GUI

Name	Description
ETH 0 WAN	Default IP address [DHCP]
ETH 1 LAN	Default IP address - 10.91.8.1 Protocol - DHCP Server Subnet - 255.255.255.0
Login User ID	admin
Login Password	admin

GUI Login in Managed Network Environment

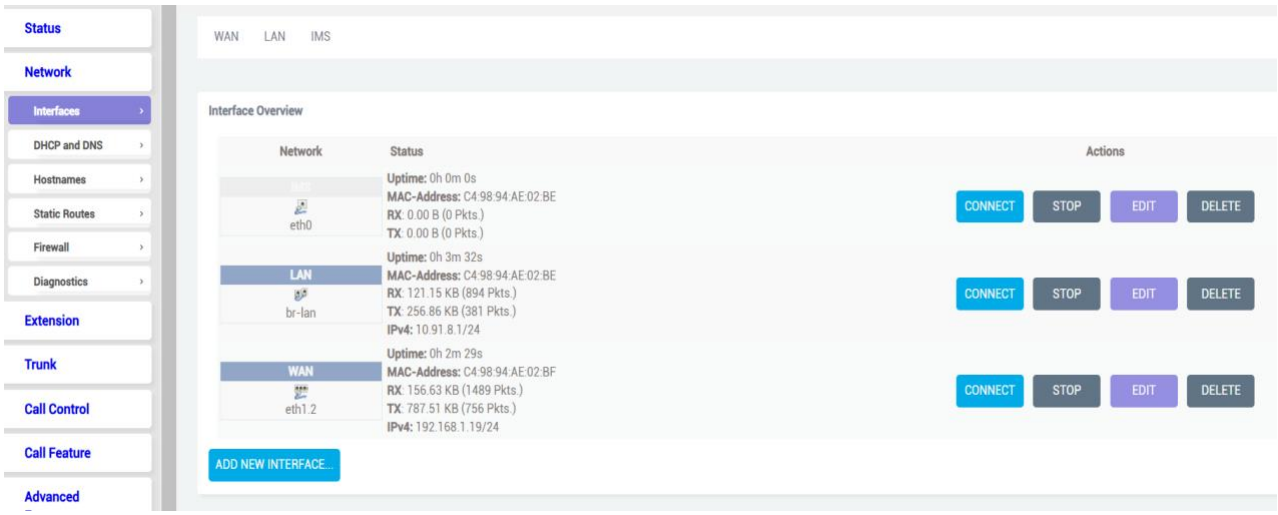


- Connect LAN Cable to **PBX** ETH 0 port and Network Switch Ethernet port
- Connect PC/Laptop Ethernet Port to **PBX** ETH 1
- Go to Network setting in PC and select DHCP in IPV4 Network Address
- **PBX** DHCP server will allocate IP for PC
- If DHCP server failed to allocate IP address for PC , configure manually network IP address in network setting > Eth port > IPV4 [IP address for PC 10.91.8.11 Subnet 255.255.255.0]
- Change ETH 0 Network IP address according to Network IP address series
- Open Google Chrome / Mozilla Firefox to Brows ip address 10.91.8.1 or https://10.91.8.1

Note :

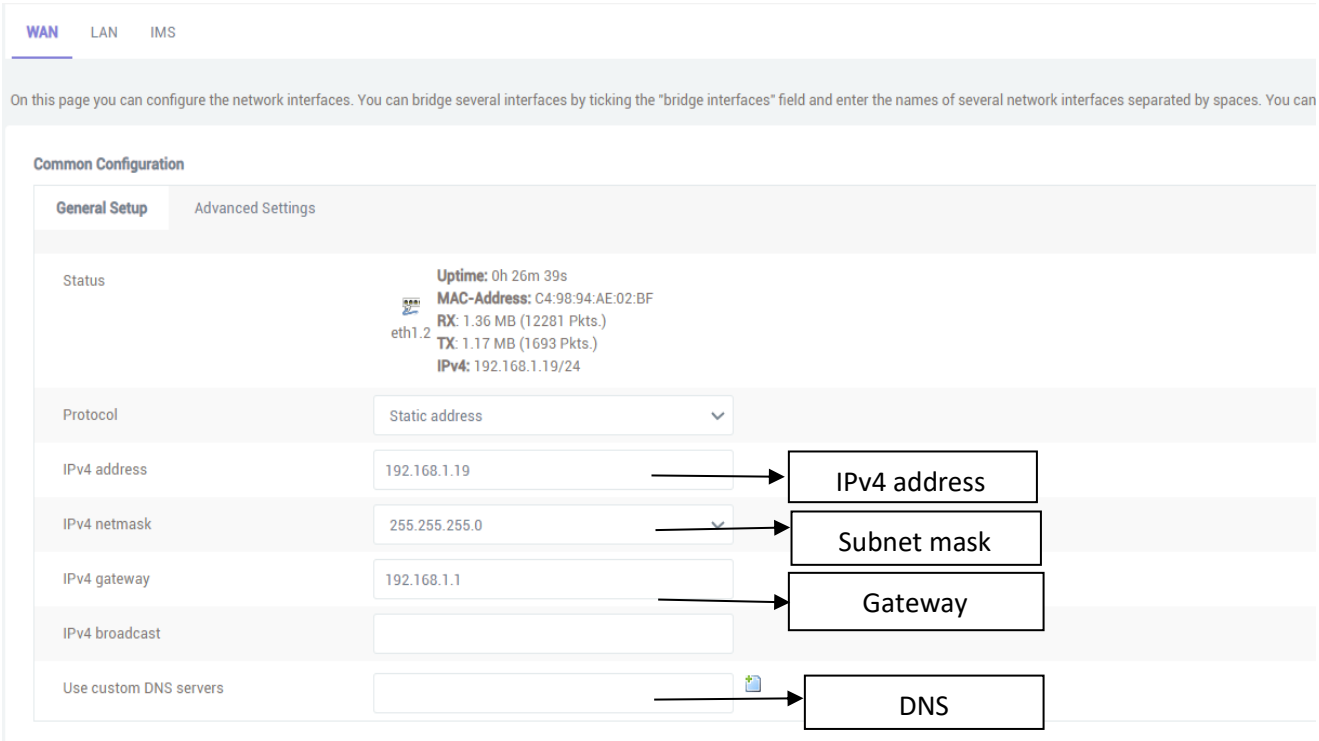
- Recommended not to use only one Router inbuilt Ethernet port for **PBX** or PC connectivity
- Check Ethernet cable using Loop Test or LED status on device
- Disable Firewall in PC during Back to Back connectivity
- Double check IP address in PC
- Before allocation of IP address in **PBX** device make sure same ip address is not assigned to any other device or system

Network Setting



Name	Description
Eth0 LAN	Recommend to use default setting (10.91.8.1) for IP address recovery or local monitoring
Eth1 WAN	Configure IP address according to network IP address series (DHCP or Static). Recommended to use static IP address

Network >> Interface >> WAN Edit >> General Setup



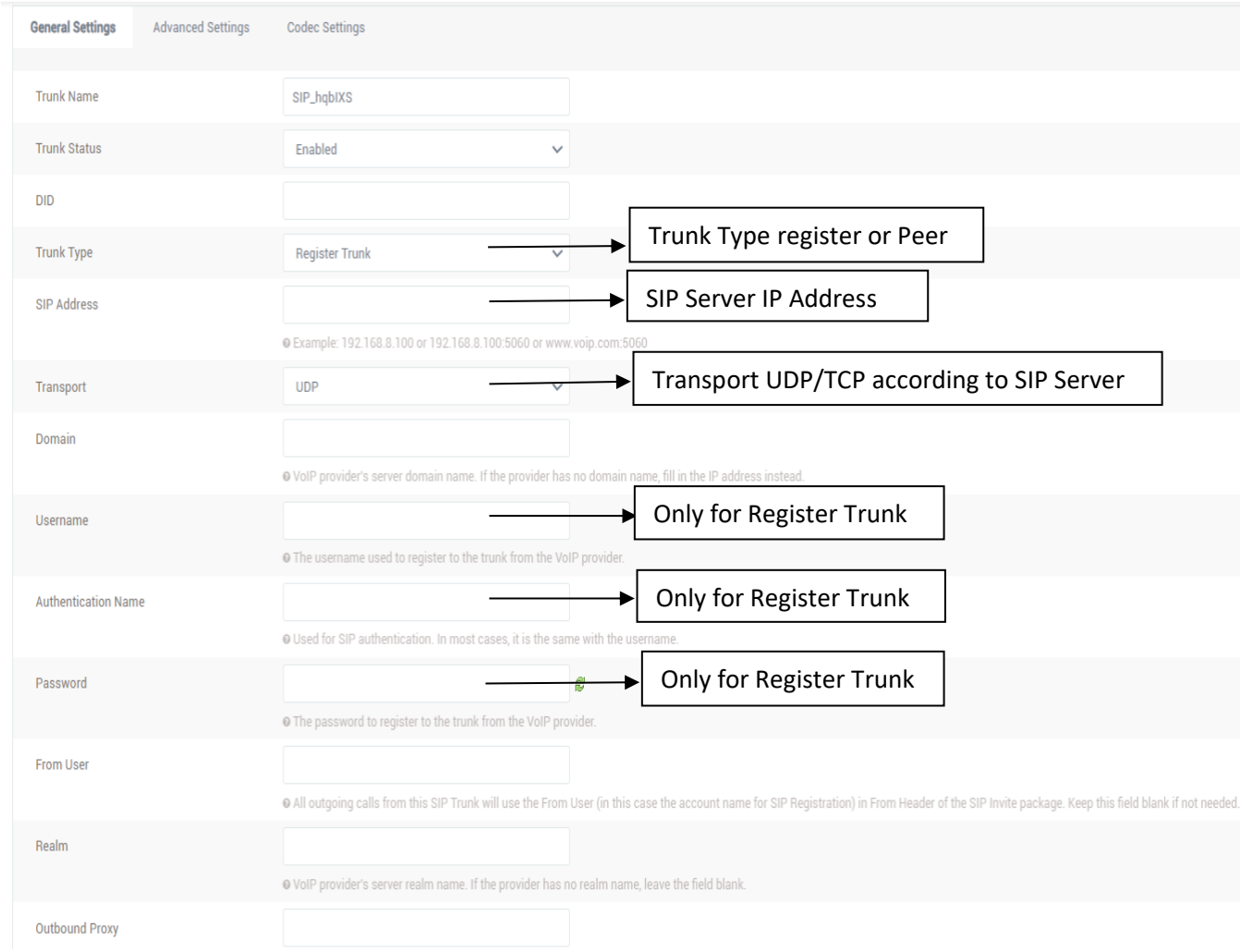
Note :

- Recommended to keep default setting for " Advance Settings " and " Firewall Settings " or apply changes under Technical Support Engineer supervision.

SIP Trunk Configuration

Contents	Description
SIP Trunk	SIP Trunk connectivity and configuration for 3rd Party IP-PBX, Contact Center Dialer or SIP Server
SIP Trunk Group	Group of Trunk for multiple SIP Server connectivity and call routing
Call Routing Table	Call Routing configuration for incoming and outgoing calls
CODEC	To match codec with remote party

Trunk >> SIP Trunk >> Add >> Save & Apply



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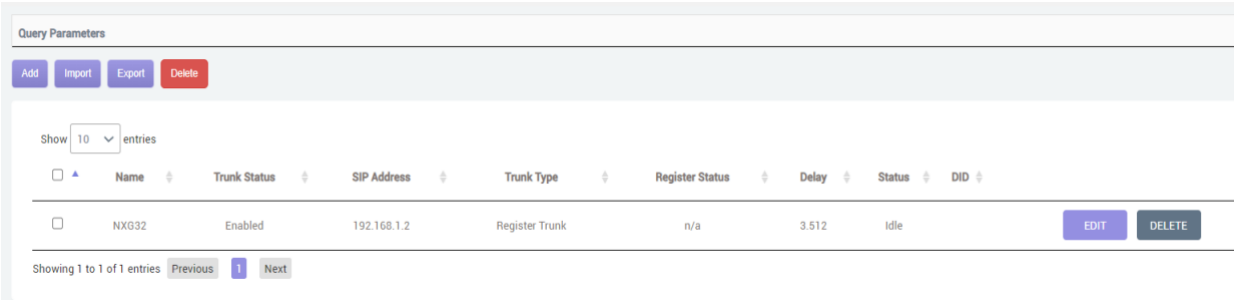
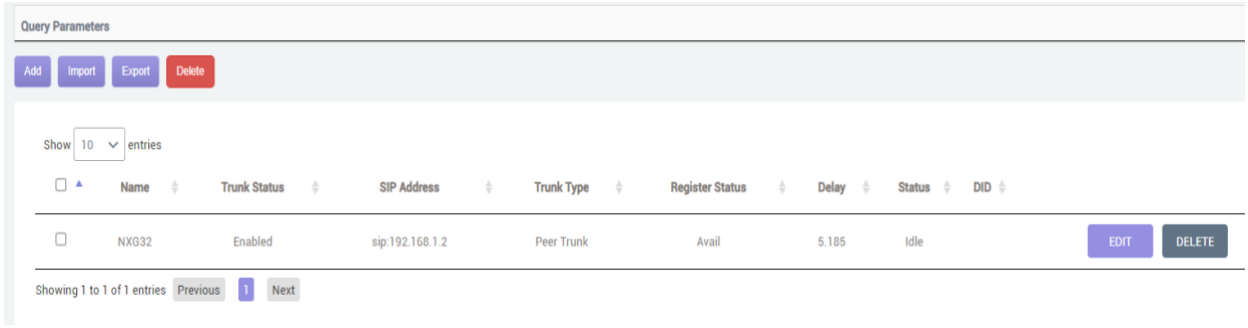
SIP Trunk

Register SIP Trunk



Peer SIP Trunk

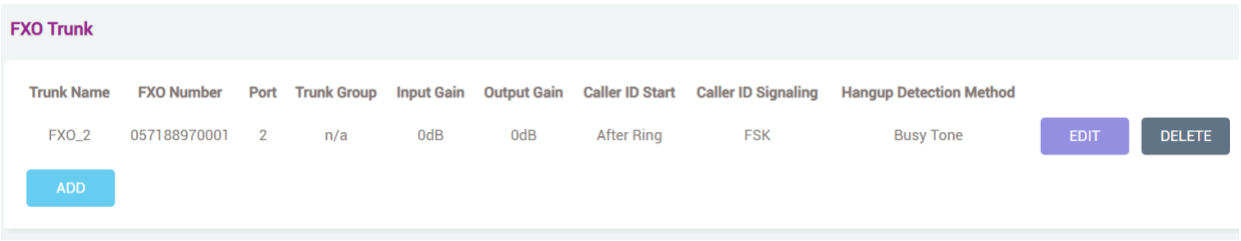


Mobile Trunk Status

ID	SIM	COPS	Signal	CCID	IMEI	Caller/Called	Status
1		IND_airtel_airte		[redacted]	[redacted]	n/a	Idle
2		IND_airtel_airte		[redacted]	[redacted]	n/a	Idle
3		n/a		n/a	n/a	n/a	NoSIM
4		n/a		n/a	n/a	n/a	NoSIM
5		n/a		n/a	n/a	n/a	NoSIM
6		n/a		n/a	n/a	n/a	NoSIM
7		n/a		n/a	n/a	n/a	NoSIM
8		n/a		n/a	n/a	n/a	NoSIM

FXO/FXS Status

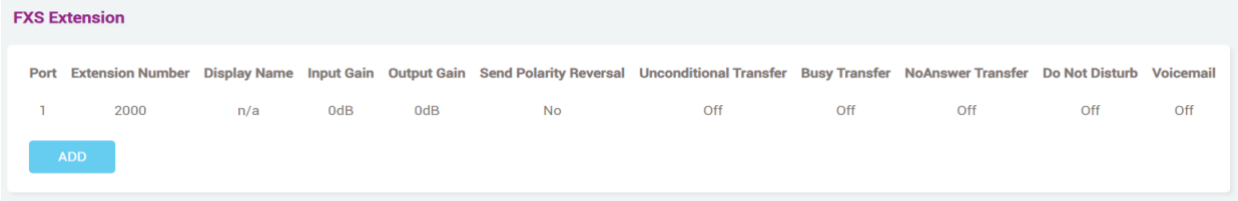
FXO Trunk



Trunk Name	FXO Number	Port	Trunk Group	Input Gain	Output Gain	Caller ID Start	Caller ID Signaling	Hangup Detection Method		
FXO_2	057188970001	2	n/a	0dB	0dB	After Ring	FSK	Busy Tone	EDIT	DELETE

ADD

FXS Extension



Port	Extension Number	Display Name	Input Gain	Output Gain	Send Polarity Reversal	Unconditional Transfer	Busy Transfer	NoAnswer Transfer	Do Not Disturb	Voicemail
1	2000	n/a	0dB	0dB	No	Off	Off	Off	Off	Off

ADD

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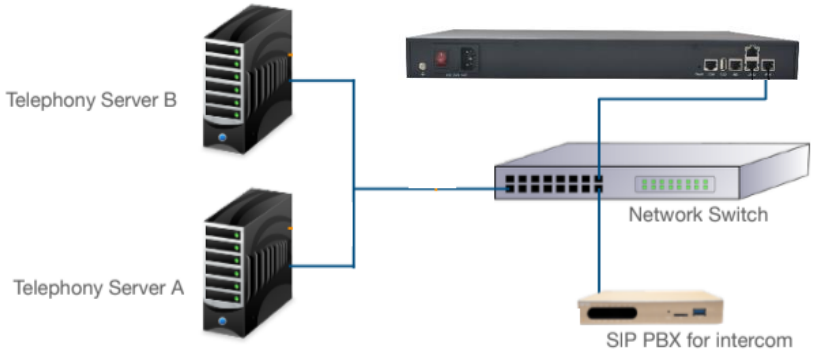
SIP Trunk Group



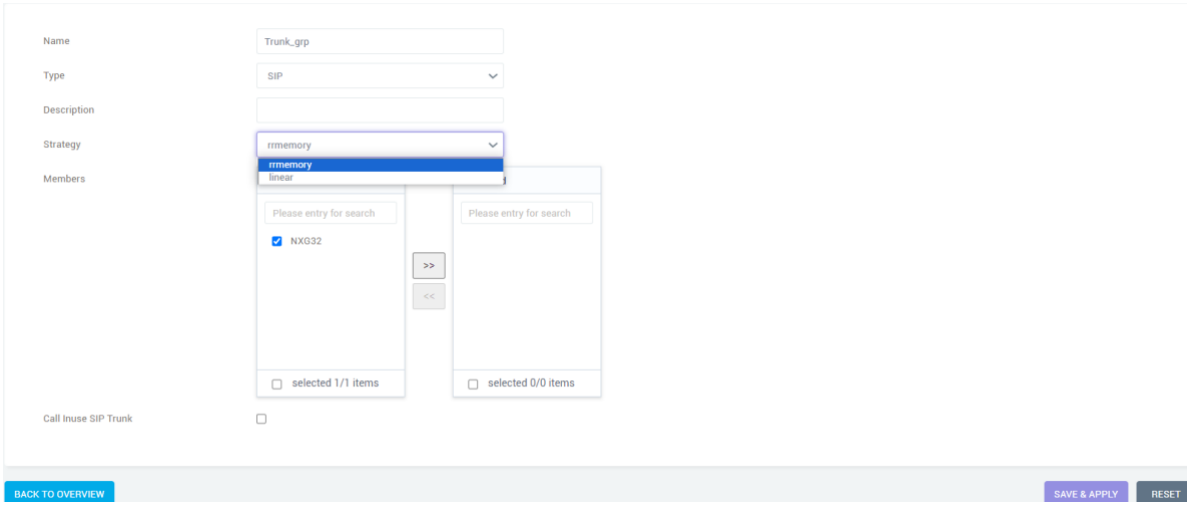
SIP Trunk Example : Multiple server Sip Trunk Group | Call Out

Server A SIP Trunk >> Call Out From SIP Trunk Group (Trunk_grp)

Server B SIP Trunk >> Call Out From SIP Trunk Group (Trunk_grp)

SIP PBX SIP Trunk >> Call Out From SIP Trunk Group (Trunk_grp01)

Trunk >> Trunk Group >> Add



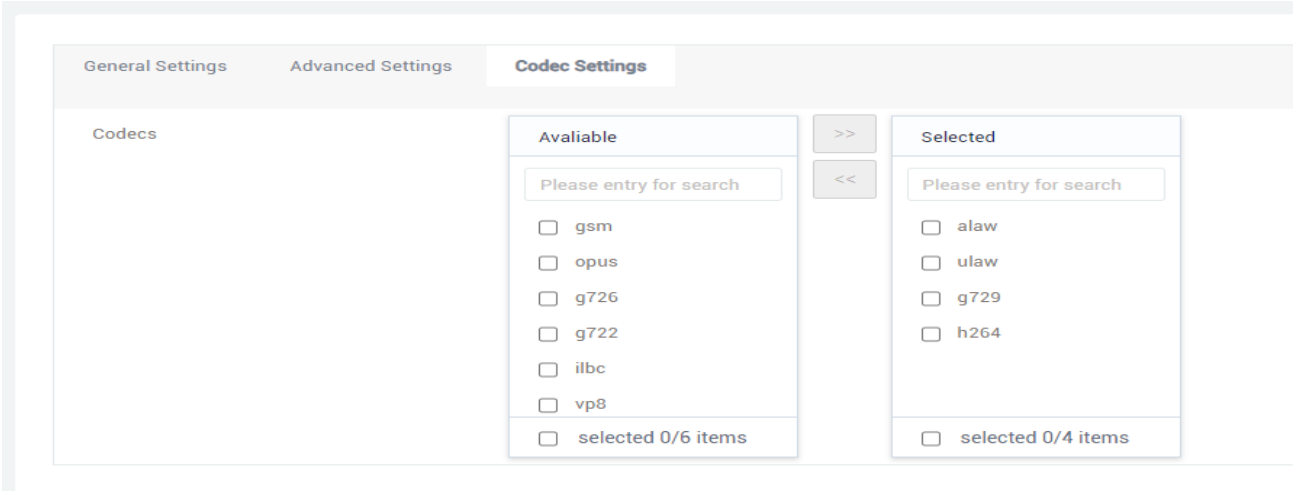
Note:

> Each SIP Trunk may work individual or part of group.

> Call Routing can be Configured according to individual SIP Trunk or Trunk Group.

SIP Trunk Codec

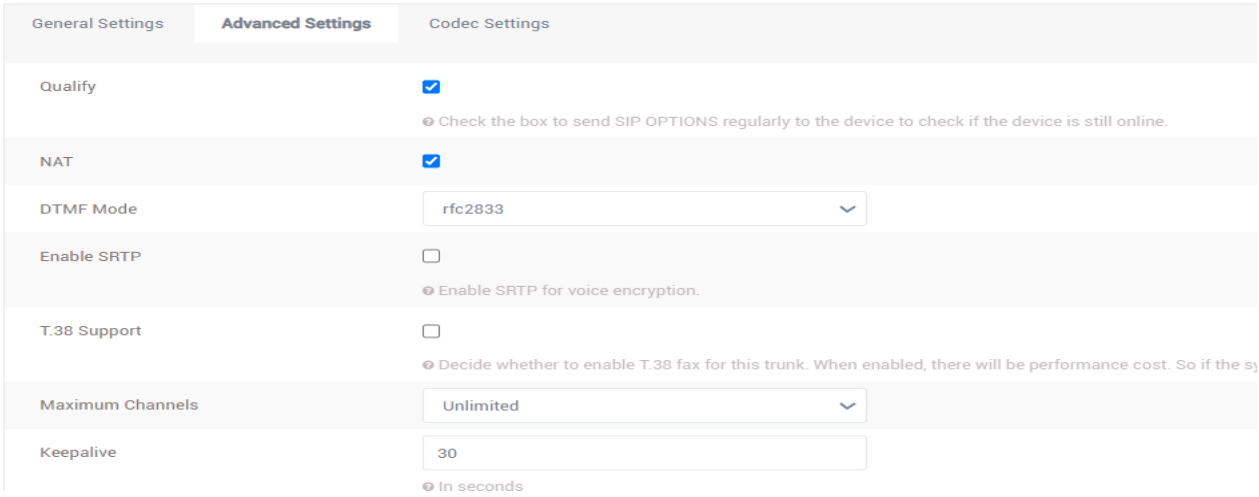
Trunk >> Sip Trunk >> Codec Settings



Recommennded to confirm CODEC setting of SIP Server and use the same in trunk setting to avoid voice and connectivity related issue.

SIP Trunk Channel

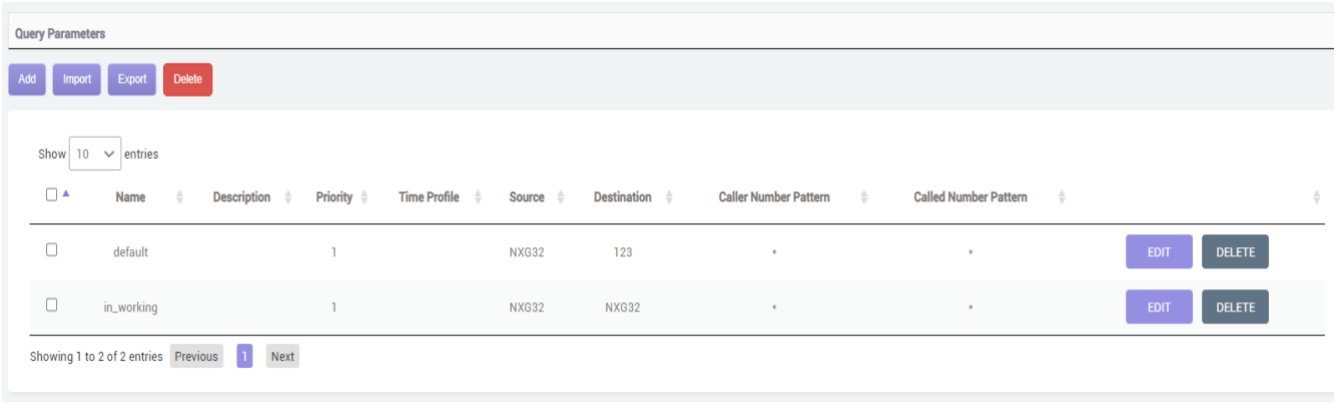
Trunk >> SIP Trunk >> Advanced Settings



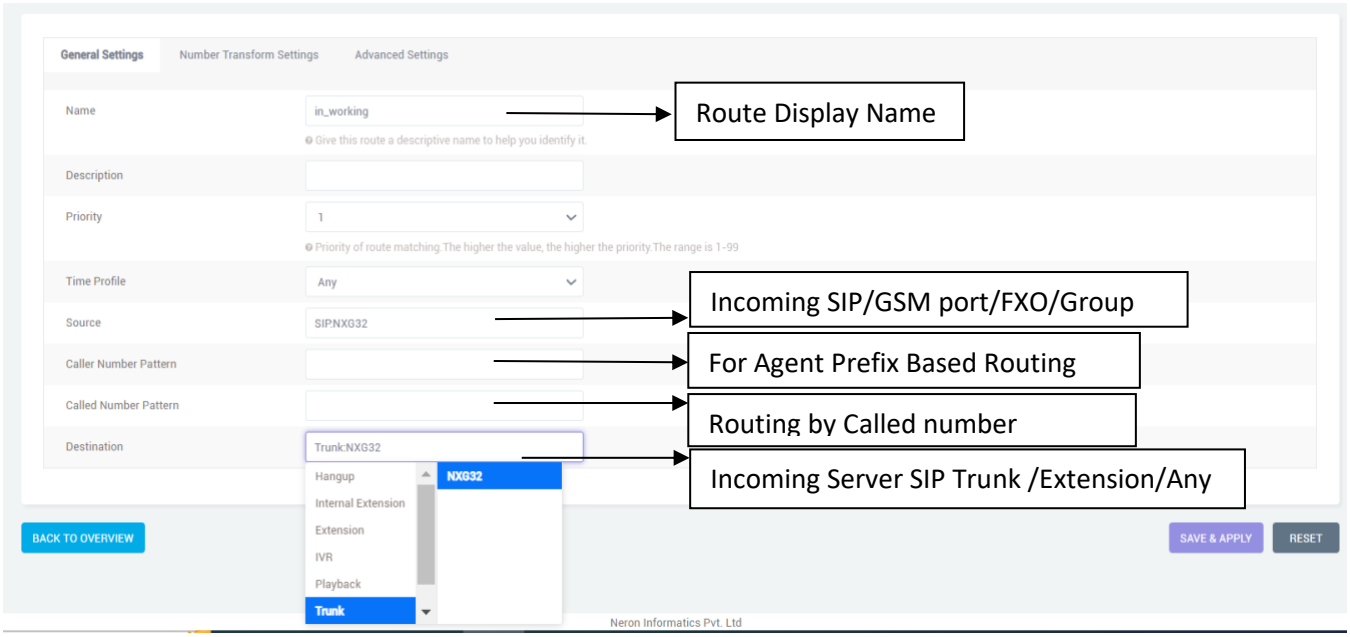
To avoid call conjunction and channel allocation allow Max channel on SIP Trunk.

Call Routing

Incoming Call Routing for SIP Server



Call Control >> Inbound Routers >> Add



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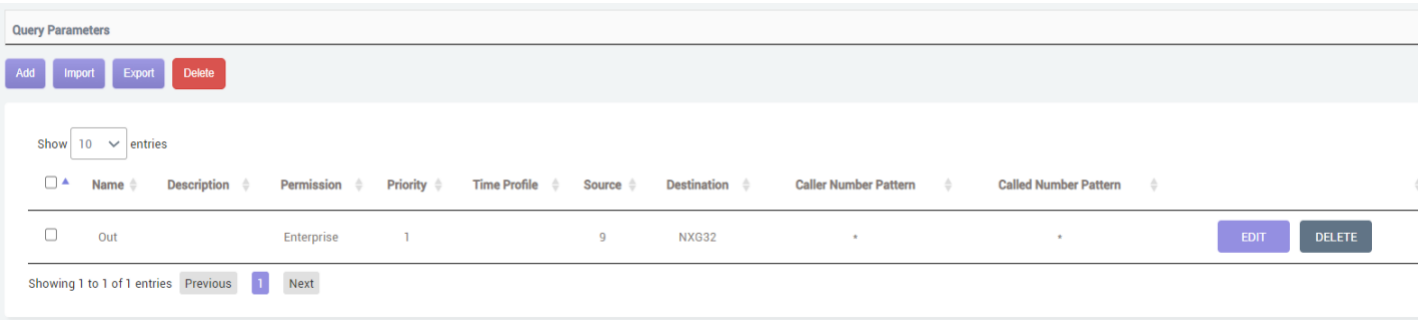
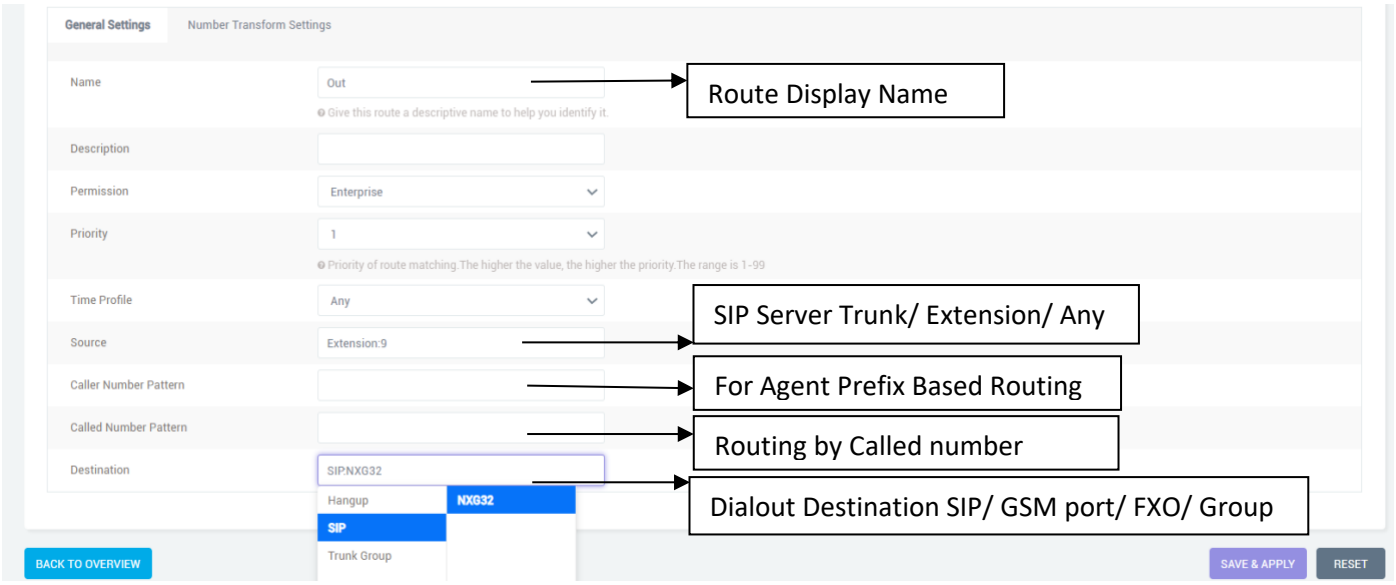
Call Routing

Outgoing Call Routing for SIP Server

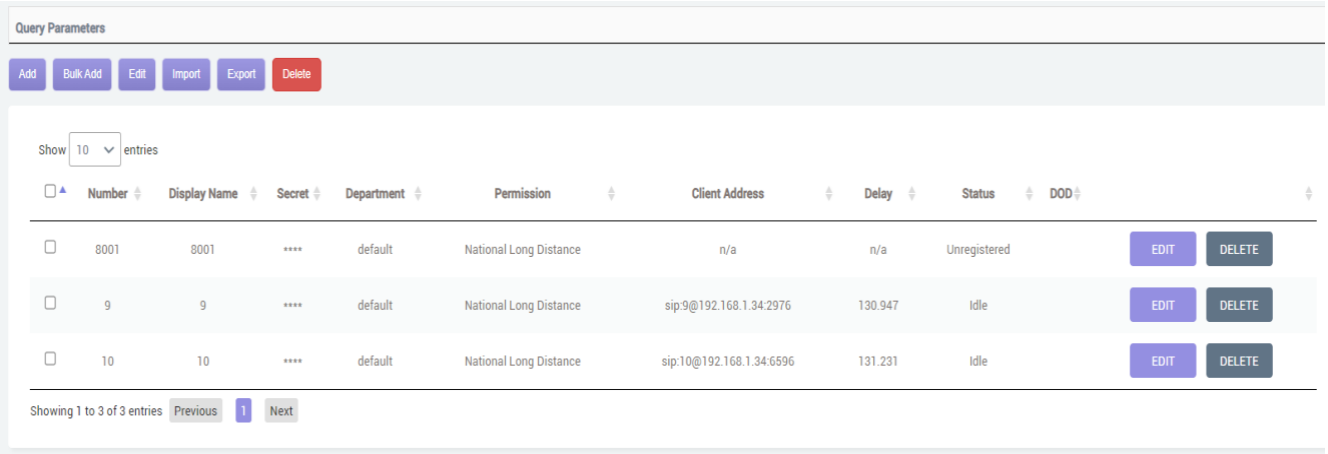


Call Control >> Outbound Routers >> Add



SIP Extension Status

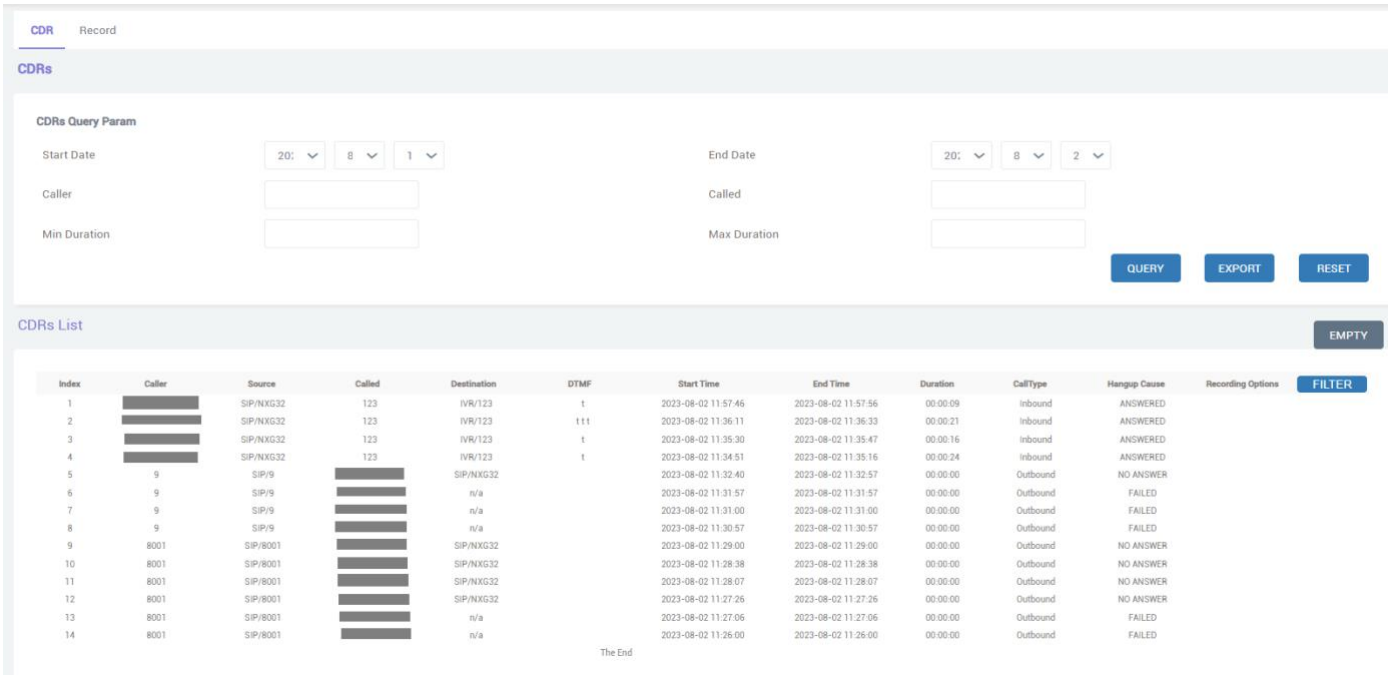
Extension >> SIP Extension



Call CDR and Recordings

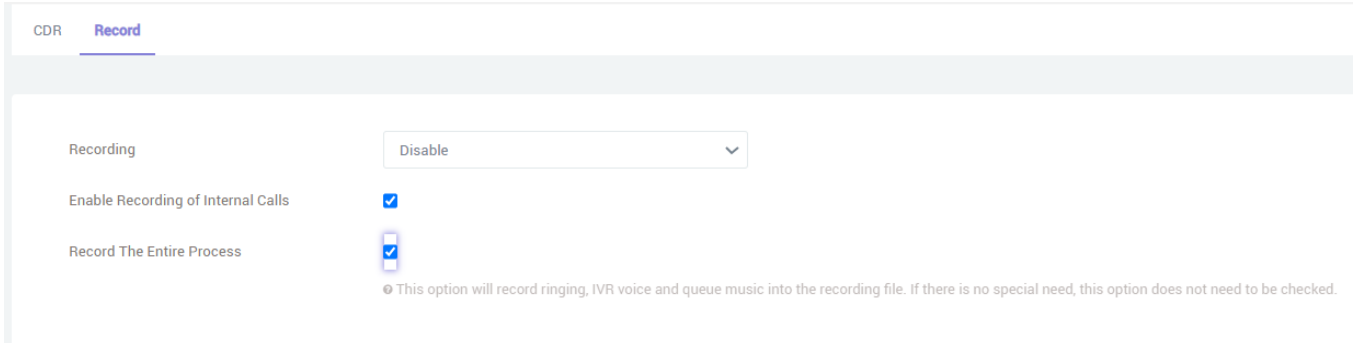
CDR:

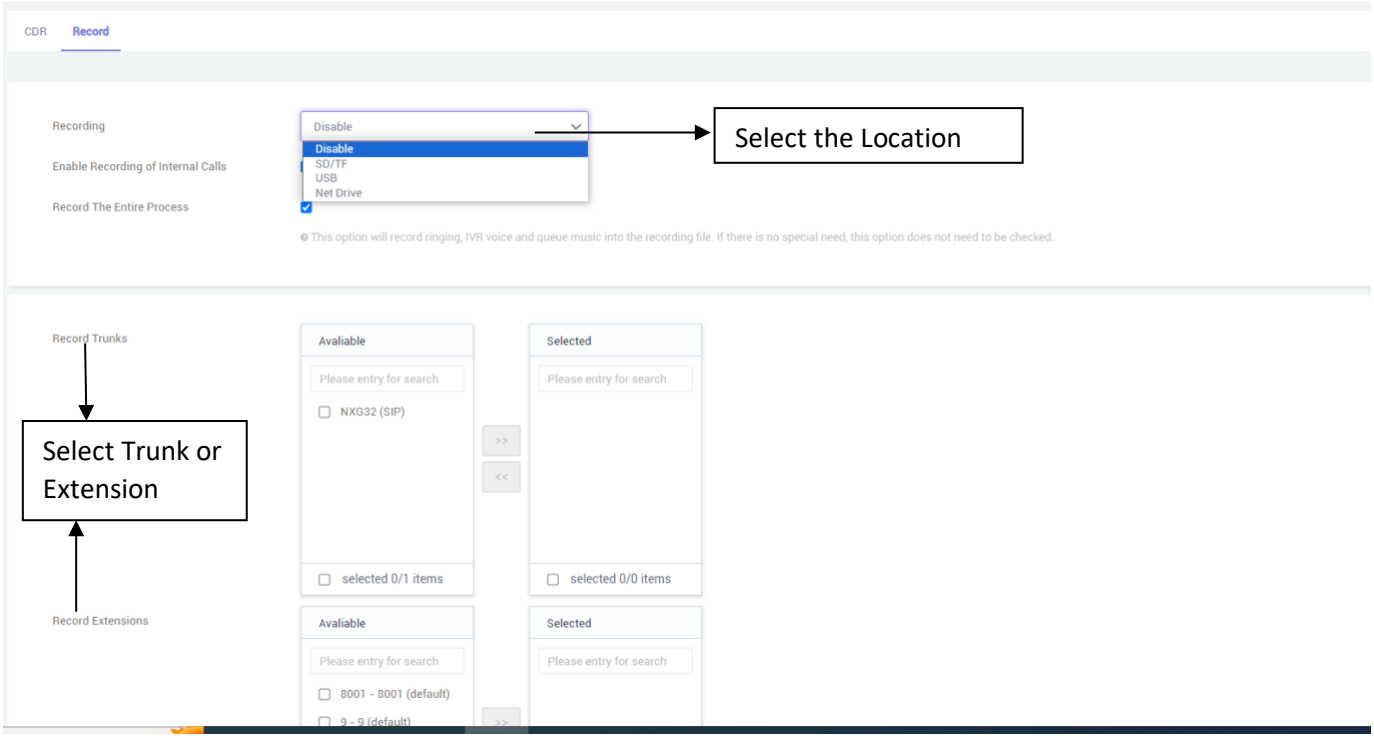
Advanced Feature >> CDR and Recording >> CDR



Recording:

Advanced Feature >> CDR and Recording >> Recording





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VoIP FXO/FXS and GSM Gateway | SIP IP PBX

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