

Spectrum Enterprise SIP Trunking Service Epygi QX50/200/2000/M8L R6.1.2 IP PBX Configuration Guide

About Spectrum Enterprise:

Spectrum Enterprise is a division of Charter Communications following a merger with Time Warner Cable and acquisition of Bright House Networks. Spectrum Enterprise is a national provider of scalable, fiber technology solutions. The Spectrum Enterprise portfolio includes networking and managed services solutions, including Internet access, Ethernet and Managed Network Services, Voice, TV and Cloud solutions. Our industry-leading team of experts works closely with clients to achieve greater business success.

About this document:

Spectrum Enterprise assures IP PBX compatibility by conducting interoperability testing to ensure any potential compatibility issues have been resolved prior to installation. Please review the IP PBX configuration instructions in this guide prior to your installation date.

Be advised that this document may contain references to Charter or Charter Business. All references to Charter should be read as Spectrum Enterprise.

Thank you,

Spectrum Enterprise

Epygi QX50/200/2000/M8L R6.1.2 IP PBX Configuration Guide



1 Introduction

This document describes how to configure the Epygi QX50/200/2000 and M8L IP PBX to inter-operate with the Charter network. It does not provide any information for provisioning, configuring or using the features of the AsteriskNow . Please refer to the documentation provided with the IP PBX or contact the vendor.

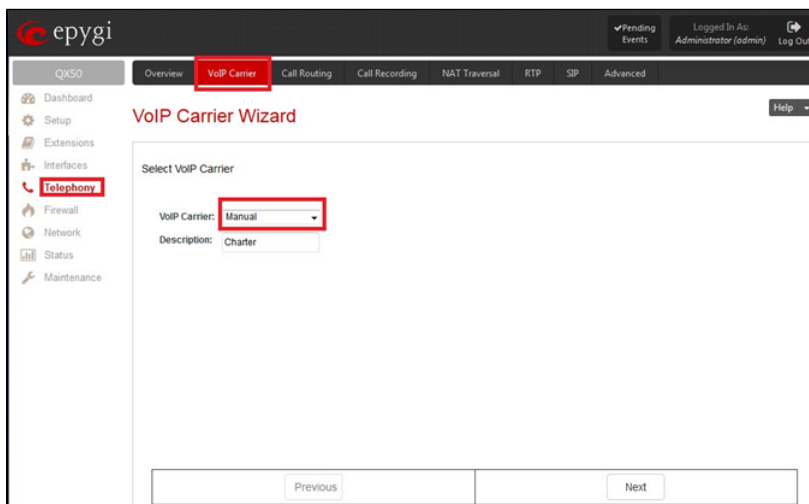
2 Configuration

2.1 SIP Trunk Setup

To setup the SIP trunk, follow the step-by-step procedure.

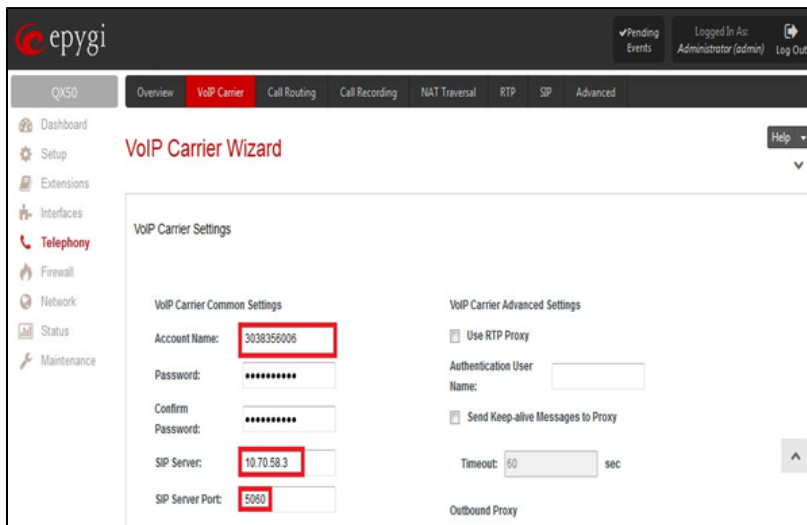
Step	Action	Result
1	Navigate to Telephony	
2	Click the VoIP Carrier tab	VOIP Carrier Wizard opens
3	Under Select VOIP Carrier at VOIP Carrier: Select Manual	
4	Description: Enter Charter	
5	Click Next Button	VOIP Carrier Settings open
6	Go to the next table	

VOIP Wizard-VOIP Carrier



Step	Action	Result
7	Under VOIP Carrier Settings Account Name: Enter the Trunk DID number	
8	SIP Server: Enter the SBC LAN IP	
9	SIP Server Port: Enter 5060	
10	Go to the next table	

VOIP Wizard-VOIP Carrier Settings



Step	Action	Result
11	Under Outbound Proxy Host Address: Enter the SBC LAN IP	
12	Port: Enter 5060	
13	Click Next button	VOIP Carrier Access Code opens
14	Go to the next table	

VOIP Wizard-Outbound Proxy Settings

SIP Server Port: 5060

Outbound Proxy

Host Address: 10.70.58.3

Port: 5060

Secondary SIP Server

Host Address:

Port:

Outbound Proxy for Secondary SIP Server

Host Address:

Port:

Previous Next

Step	Action	Result
15	Under VOIP Carrier Wizard Access Code: Click By pattern :	
16	Enter 9*	
17	Click Next button	VOIP Carrier Summary opens
18	Go to the next table	

VOIP Wizard-VOIP Carrier Access Code

epygi

Overview **VoIP Carrier** Call Routing Call Recording NAT Traversal RTP SIP Advanced

Dashboard Setup Extensions Interfaces **Telephony** Firewall Network Status Maintenance

VoIP Carrier Wizard

VoIP Carrier Access Code

Access code: By prefix:

By pattern: 9*

Emergency Code:

Route Incoming Calls to: 00

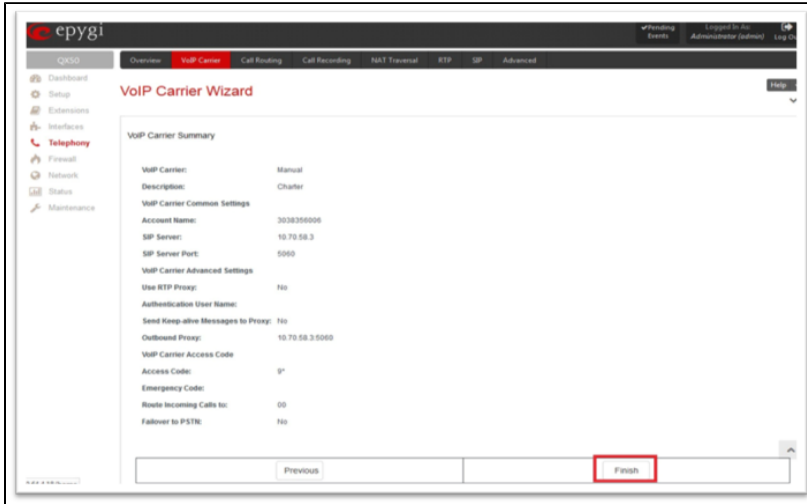
Failover to PSTN

Previous Next

Step	Action	Result
19	At the VOIP Carrier Summary Verify the details of the summary	

20	If the summary details is correct Click the Finish button Then go to Step 22.	
21	If the summary details are not correct Click the Previous button to return to the form,	
22	Procedure completed	

VOIP Wizard-VOIP Carrier Summary



2.2 Extension Setup

To setup the extension, follow the step-by-step procedure.

Step	Action	Result
1	Navigate to Interfaces	
2	Click the IP Lines tab	IP Lines opens
3	Click New IP Line	The new IP Line selected opens IP Line 7 is an example.
4	Go to the next table	

Extension Setup-New IP Line

Available IP Lines	Attached Extension	Type	Details
IP Line 1	101	SP	UserName: locext101, Model: Polycom SoundPoint IP 330, 000442:14b55d, Template: systemdefault
IP Line 2	104	SP	UserName: locext104, Model: Polycom SoundPoint IP 330, 000442:14b63f, Template: systemdefault
IP Line 3	105	SP	UserName: locext105, Model: Polycom SoundPoint IP 330, 000442:14b55d, Template: systemdefault
IP Line 4	106	SP	UserName: locext106, Model: Cisco SPA301G, e1edf36b-b55d, Template: systemdefault
IP Line 5	107	SP	UserName: locext107, Model: Cisco 7960, 0014a9f19089, Template: systemdefault
IP Line 6	108	SP	UserName: locext108, Model: Cisco 7960, 001c58575c79, Template: systemdefault
IP Line 7	109	SP	UserName: locext109, Model: Polycom SoundPoint IP 335, 000442:2f5baa, Template: systemdefault

Step	Action	Result
5	In IP Line Settings Click SIP Phone	
6	Phone Model: Select the phone model	Polycom SoundPoint IP 335 is an example
7	MAC Address: Enter the MAC address of the IP Phone	
8	Transport: Select UPD	
9	Click Save button	
10	Go to the next table	

Extension Setup

IP Line Settings - IP Line 7

Inactive

SIP Phone

Phone Model:

MAC Address:

Line Appearance:

Username:

Password:

Transport:

Use Session Timer

Use template:

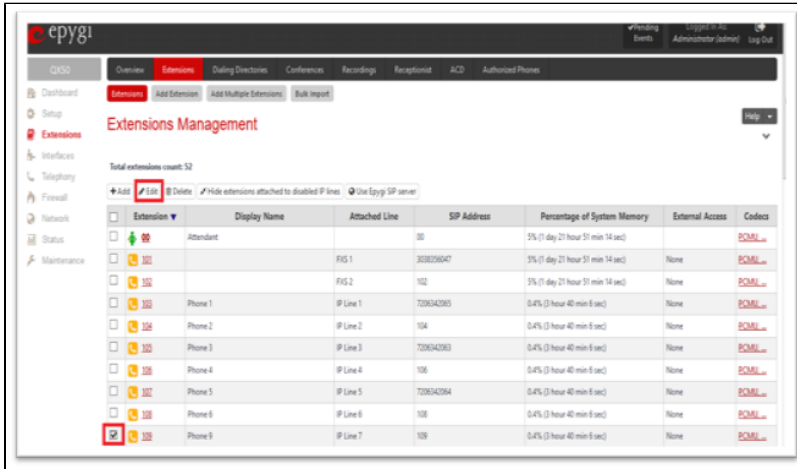
Enable Hot Desking Capability

Hot Desking Automatic Logout:

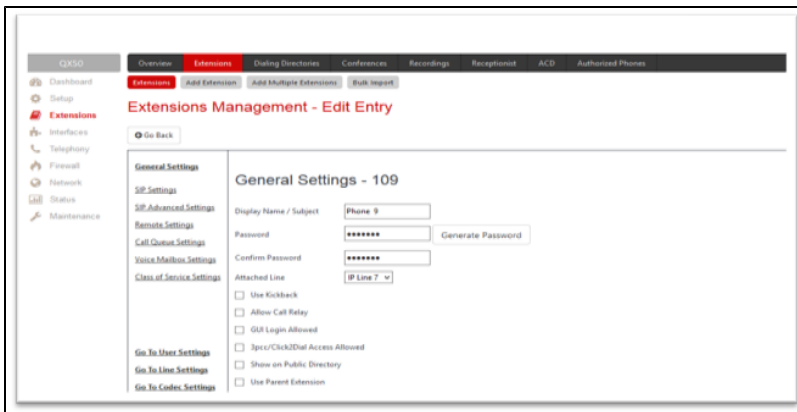
Step	Action	Result
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11	Navigate to Extensions	
12	Click the Extensions tab	
13	Click the box next to the number to edit Click the Edit tab	Extensions Management-Edit Entry screen opens
14	Make changes required	
15	Procedure completed	

Extension Management



Extension Management-Edit Entry



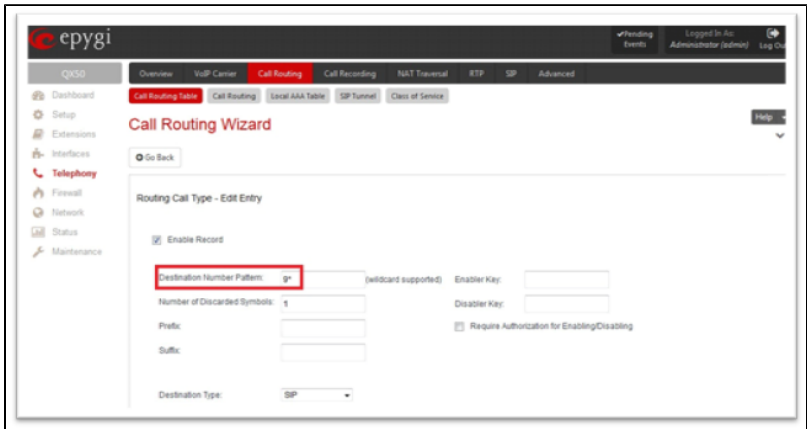
2.3 Call Routing Setup

To setup the call routing, follow the step-by-step procedure.

Step	Action	Result
1	Navigate to Telephony	
2	Click the Call Routing tab tab	Call Routing Wizards opens

3	Under Routing Call Type-Edit Entry Destination Number Pattern: Enter 9*	
4	Description: Enter Charter	
5	Check Filter on Source /Modify Caller ID:	
6	Click the Next button	Routing Call Setting-Edit Entry opens
7	Go to the next table	

Call Routing Wizard-Routing Call Type



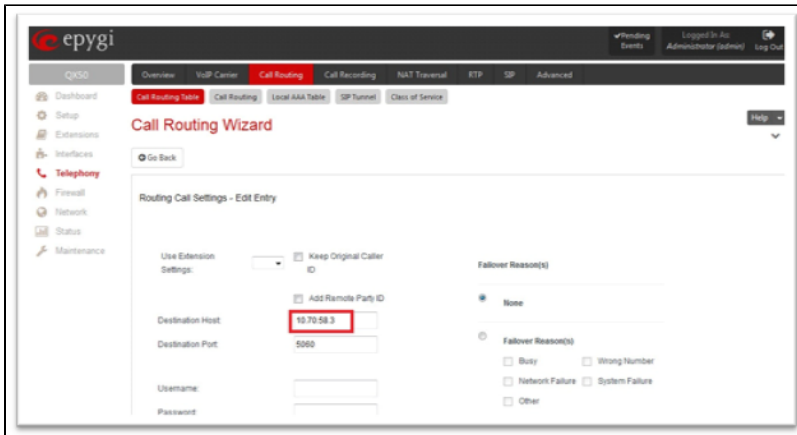
Call Routing Wizard-Routing Call Type



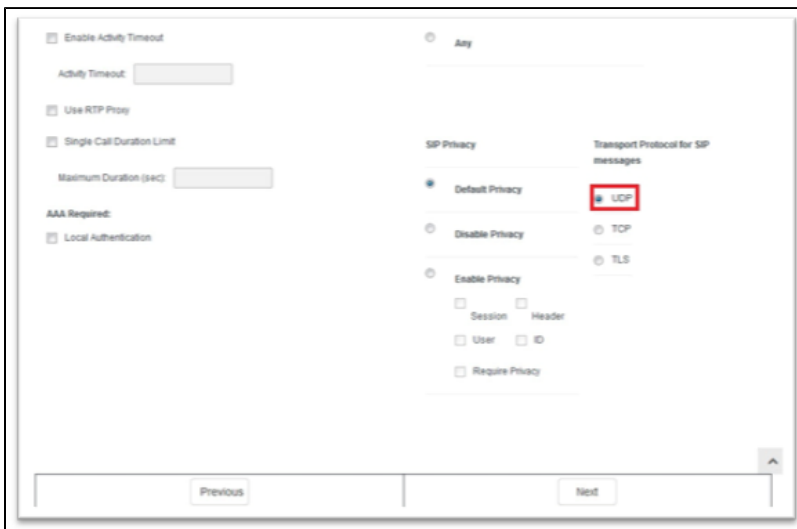
Step	Action	Result
8	In Routing Call Settings-Edit Entry Desination Host: Enter the SBC LAN IP address	
9	Under SIP Privacy Click Default Privacy	

10	Under Transport Protocol for SIP Click UDP	
11	Click the Next button	Source Filter/ Modify Caller ID-Edit Entry opens
12	Go to the next table	

Call Routing Wizard-Routing Call Settings



Call Routing Wizard-Routing Call Settings

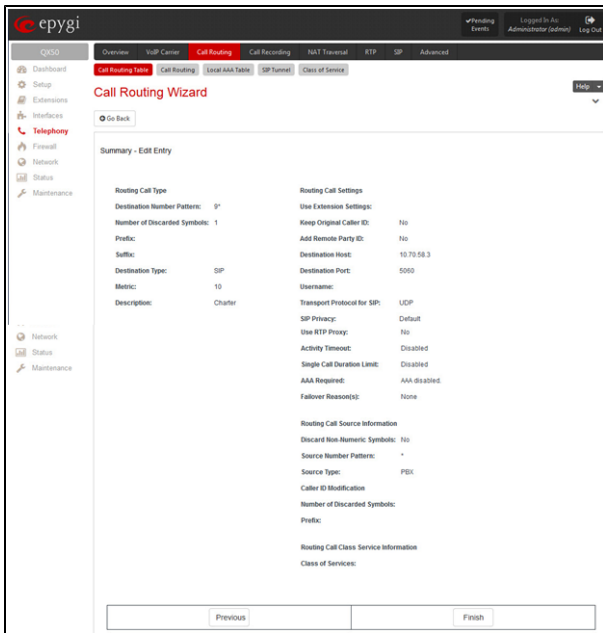


Step	Action	Result
13	In Source Filter/ Modify Caller ID-Edit Entry For Source Number Pattern Enter *	
14	Source Type: Select PBX	
15	Click the Next button	Summary- Edit Entry opens
16	Go to the next table	

Source Filter/ Modify Caller ID-Edit Entry

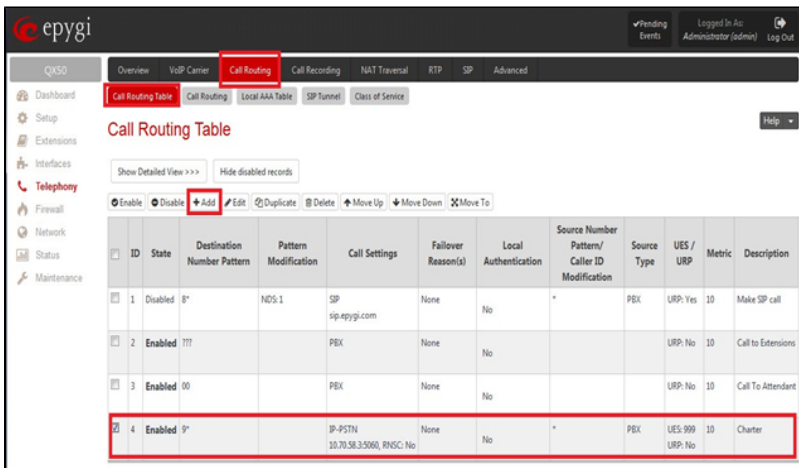
The screenshot shows the epygi web interface. The top navigation bar includes 'Overview', 'VoIP Carrier', 'Call Routing' (highlighted), 'Call Recording', 'NAT Traversal', 'RTP', 'SP', and 'Advanced'. A left sidebar lists various system components like Dashboard, Setup, Extensions, Interfaces, Telephony, Firewall, Network, Status, and Maintenance. The main content area is titled 'Call Routing Wizard' and contains a 'Go Back' button and the heading 'Source Filter / Modify Caller ID - Edit Entry'. The form includes fields for 'Source Number Pattern' (with a wildcard support note), 'Source Type' (set to PBX), 'Number of Discarded Symbols', 'Prefix', 'Display Name', and checkboxes for 'Discard Non-Numeric Symbols' and 'Remove Display Name'. 'Previous' and 'Next' buttons are at the bottom.

Step	Action	Result
17	In Summary- Edit Entry Verify details	
18	If the details are correct Go to Step 19 If not click, the Previous button to correct	
19	Click the Next button	Call Routing table opens
20	Go o the next table	



Step	Action	Result
21	At the Call Routing Table Click the +Add tab	The call route entry will appear in the table
22	Procedure completed	

Call Routing Table



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