

Spectrum Enterprise SIP Trunking Service Vertical IP500 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

Vertical IP500 IP PBX Configuration Guide



1 Introduction

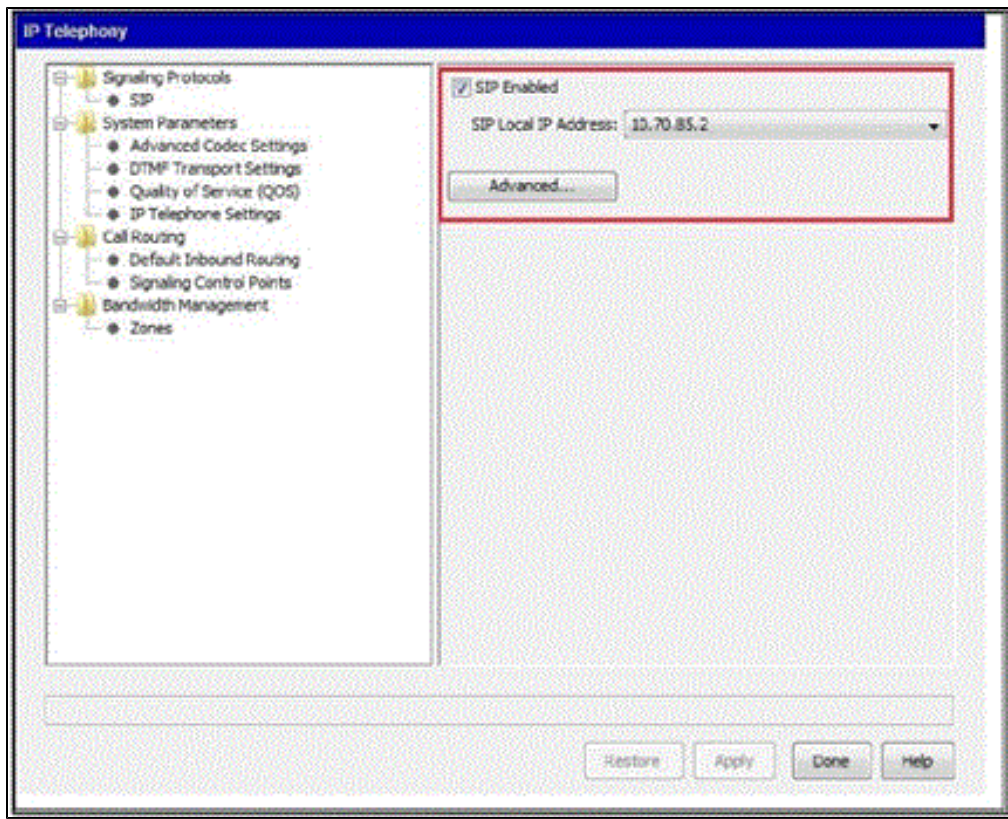
This document describes how to configure the Vertical IP500 IP PBX to interoperate with the Charter network. It does not provide any information to provision, configure, or use the features of the IP PBX. Please refer to the documentation provided with the IP PBX or contact the vendor.

2 Configuration

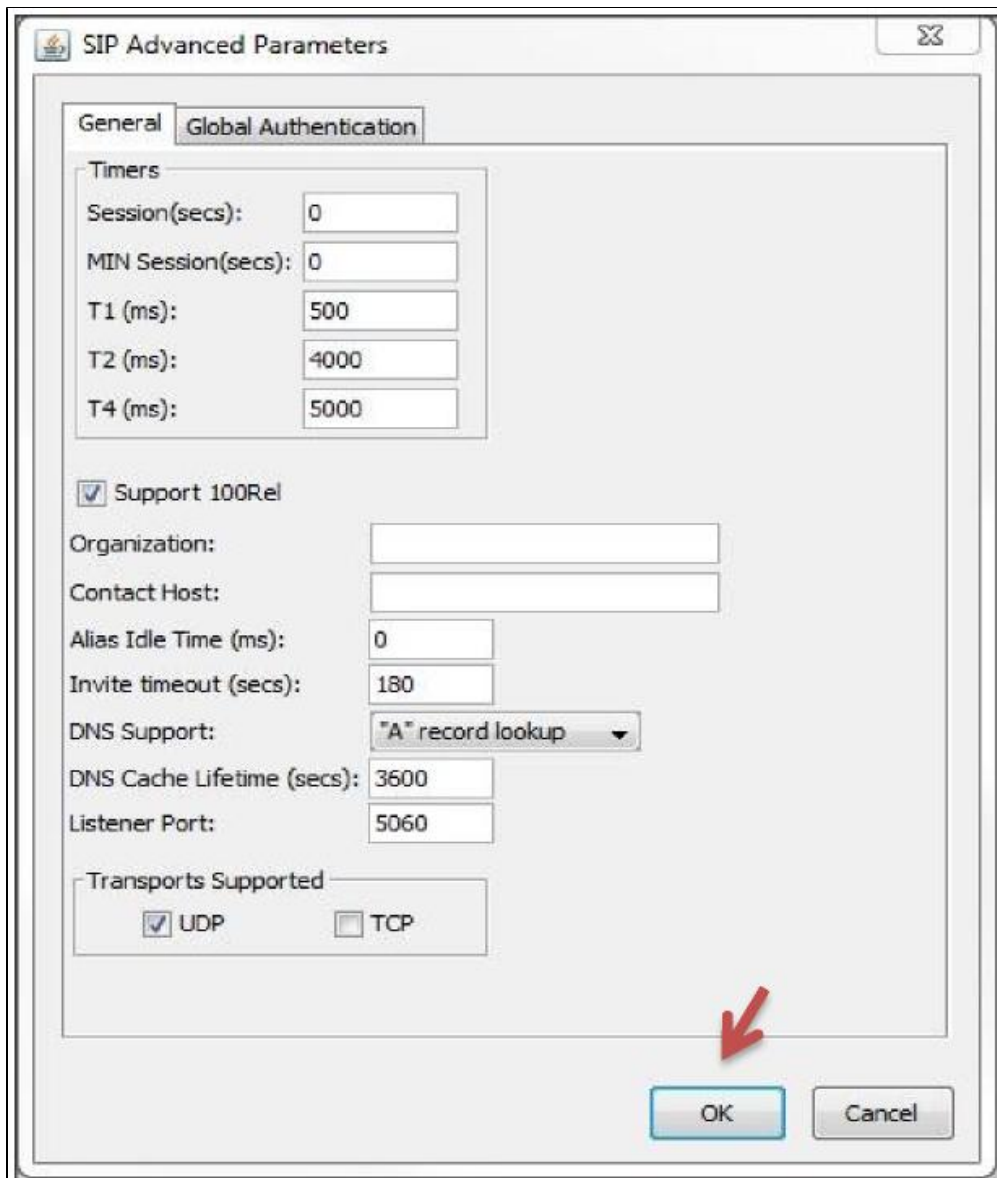
2.1 Setting SIP Carrier Options

To configure the SIP carrier options, follow the step-by-step procedure.

Step	Action	Result
1	Navigate to IP Telephony	
2	Check SIP Enabled	Note: By default SIP Enabled is turned off.
3	Confirm SIP Local IP Address	Set to the local IP address of the Vertical IP500 PBX.
4	Go to the next table	



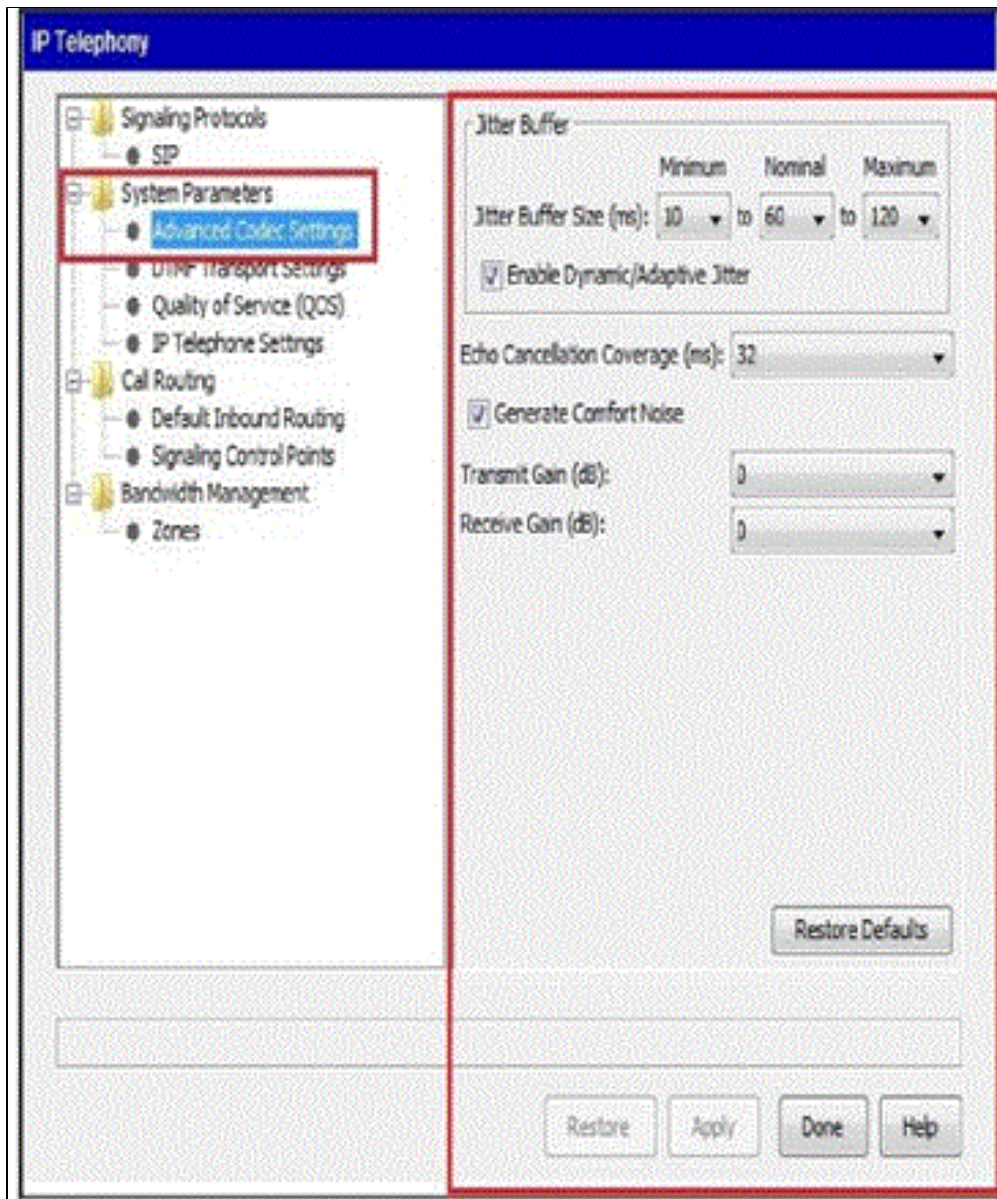
Step	Action	Result
1	Click SIP Advanced Parameters	
2	Check SIP Enabled	SIP Advance Parameters screen opens Note: All parameters are assigned by default
3	Click Ok button	The IP Telephony screen opens again
4	Click Done button	
5	Procedure completed	



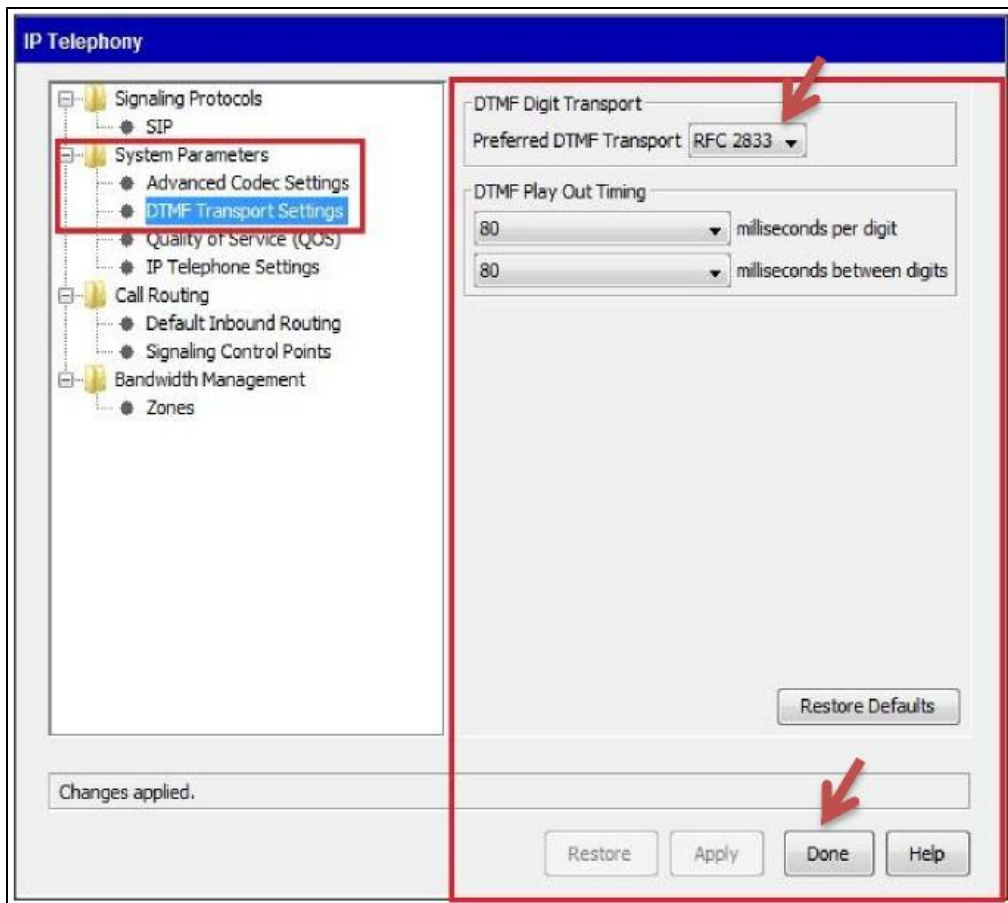
2.2 Setting System Parameters

To set the system parameters, follow the step-by-step procedure.

Step	Action	Result
1	Navigate to IP Telephony	
2	In the menu Click the Advanced Codec Settings	Ensure the default settings are as shown
3	Go to the next table	



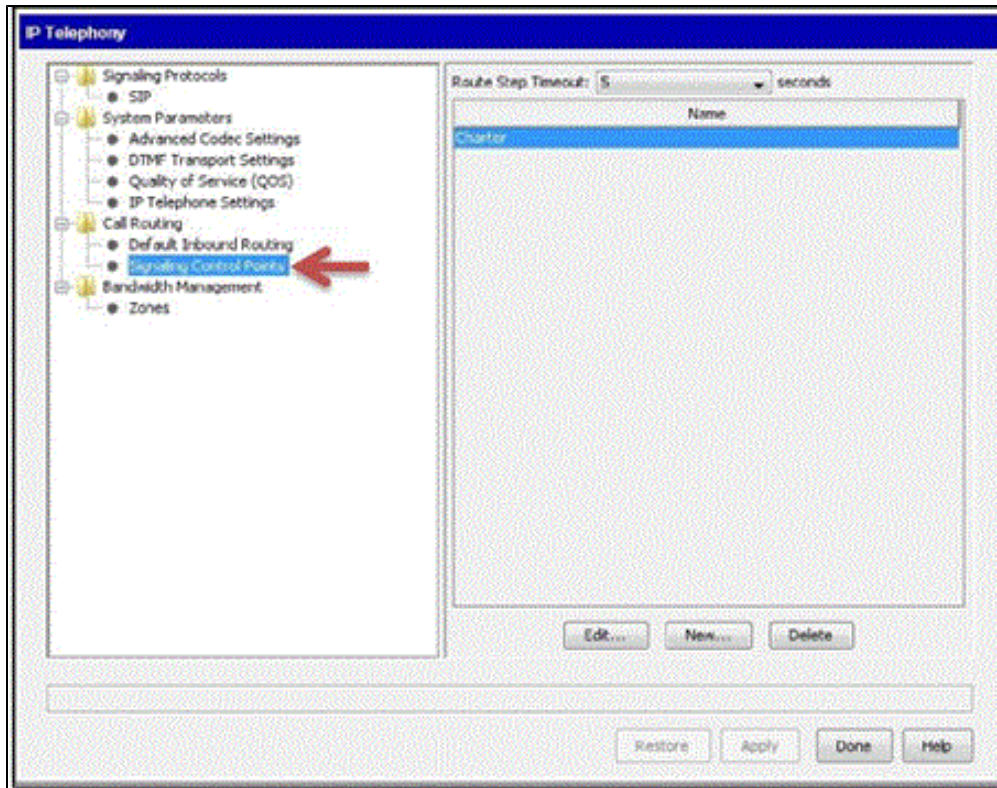
Step	Action	Result
1	In the menu Click the DTMF Transport Settings	
2	Make sure the Preferred DTMF Transport is set to RFC 2833	
3	Click Done button	
4	Procedure completed	



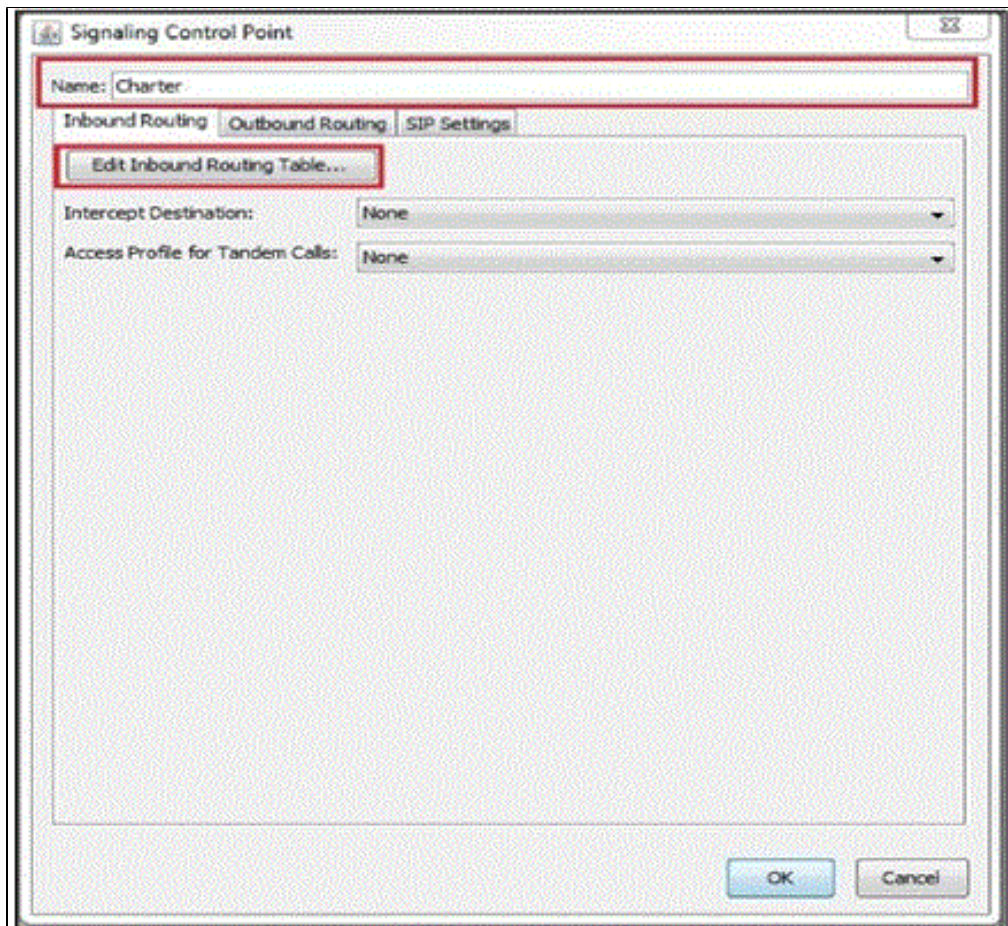
2.3 Setting SIP Profile

To set the SIP profile, follow the step-by-step procedure.

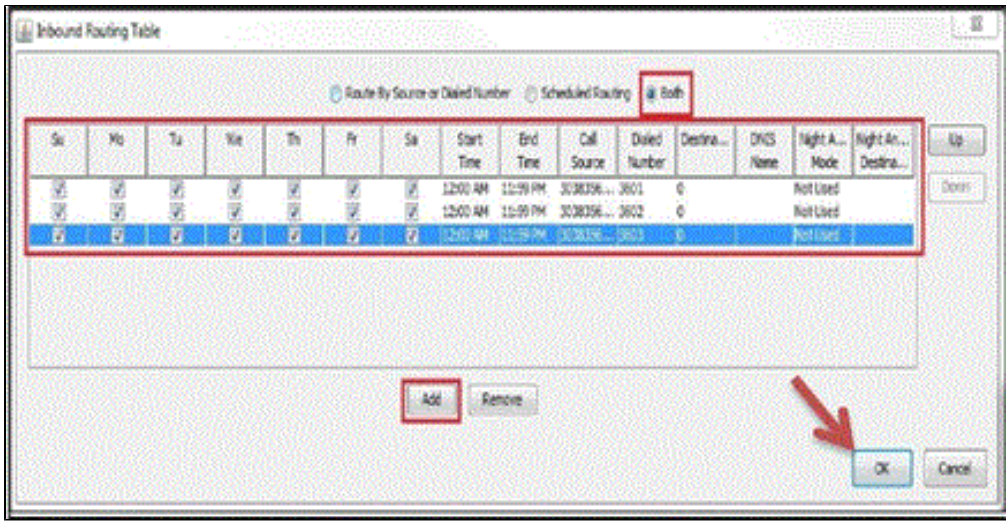
Step	Action	Result
1	In the menu Navigate to IP Telephony	
2	Click Signaling Control Points > New	Signaling Control Points screen opens
3	Go to the next table	



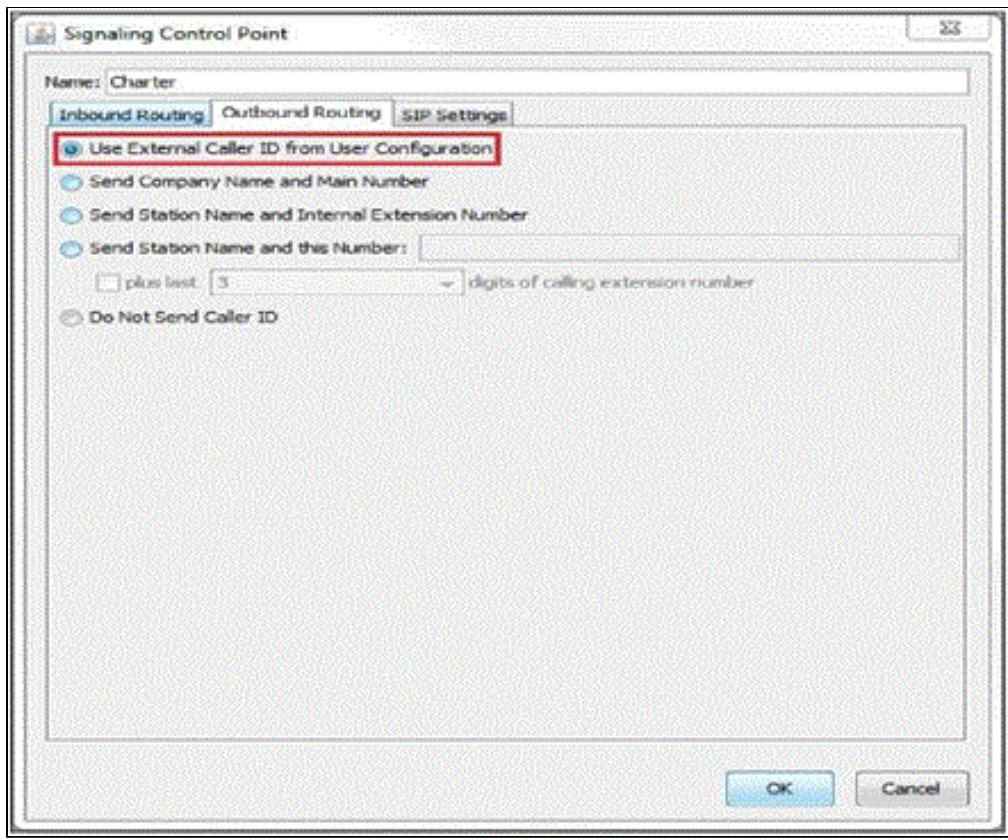
Step	Action	Result
1	In the Name: Enter the appropriate name	Note: For this example Charter was used.
2	Click Edit Inbound Routing tab	Signaling Control Points screen opens
3	Click Edit Inbound Routing Table button	Inbound Routing Table opens
4	Go to the next table	



Step	Action	Result
1	In the Inbound Routing Table Click the Both radio button	
2	Click Add button to enter the Call Source Number and Dialed Number	<p>Note: For the example Inbound routing configuration the following was used:</p> <ul style="list-style-type: none"> • Call source number of (3038356006) and a Dialed Number of 3601 • Call source number of (3038356047) and a Dialed Number of 3602 • Call source number of (3038356048) and a Dialed Number of 3603
3	Click the OK button	The Signaling Control Points screen returns
4	Go to the next table	



Step	Action	Result
1	Click the Outbound Routing tab	
2	Click the appropriate radio button	Note: For this example, Use External Caller ID from User Configuration was clicked.
3	Go to the next table	



Step	Action	Result
1	Click the SIP Settings tab	
2	To configure the SIP Trunk Profile Click Advance Setting button	The Advance Settings screen opens
3	Go to the next table	



Step	Action	Result
1	Check the box Enable Outbound Proxy	
2	Enter the appropriate parameters for Outbound Proxy Settings: <ul style="list-style-type: none"> • Outbound Proxy Server: 10.70.85.10 • Outbound Proxy Port: 5060 	Note: Parameters settings are for example only.
3	Click Local Listen Port radio button to Default	
4	Check Monitor SIP Trunks	
5	Leave the SIP OPTION Message Settings to the default parameters	
6	At Contact Source: Select Calling Party	
7	Click Ok button	The Signaling Control Points screen returns
8	To save Click the Done button	
9	Procedure completed	

Advanced Settings

Enable Outbound Proxy

Outbound Proxy Settings

Outbound Proxy Server: 10.70.85.10

Outbound Proxy Port: 5060

Local Listen Port

Default

Custom: _____

Include UII Data in SIP Messages

Monitor SIP Trunks

SIP OPTION Message Settings

Keep Alive Timer (seconds): 0

Recovery Timer (seconds): 180

SIP URI To Wave Mapping

Called Party Source: Request URI

Calling Party Source: From URI

SCP User Name Source: Contact URI

Wave To SIP URI Mapping

To Source: Called Party

From Source: Calling Party @ Proxy


Contact Source: Calling Party

P-Asserted-ID Source: None @ Proxy

SIP Trunk Transfer Options [SIP REFER / REPLACES]

Attempt Hairpin Elimination on Supervised Transfer

Attempt Hairpin Elimination on Blind Transfer





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