

Spectrum Enterprise SIP Trunking Service

Cisco UC520/540/560

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

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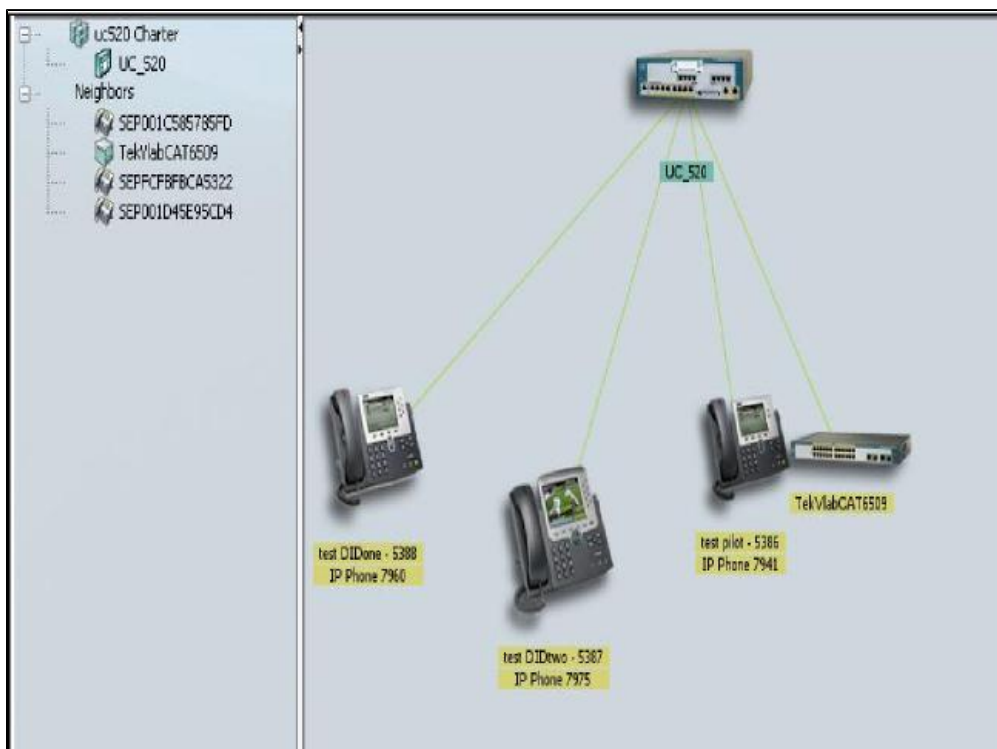
1 Introduction

This document describes how to configure the Cisco UC520 to interoperate with the Charter network. It does not provide any information how to provision, configure or use the features of the UC520. Please refer to the documentation provided with the IP PBX or contact the vendor.

2 Configuration

2.1 Topology

The following screen shot shows the topological view of the setup.

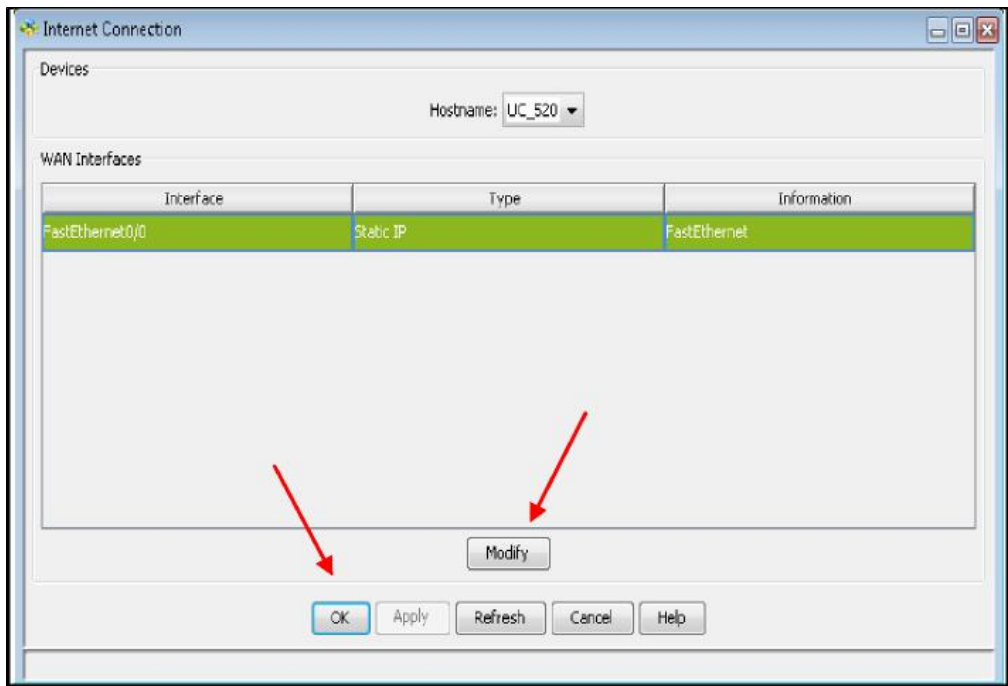


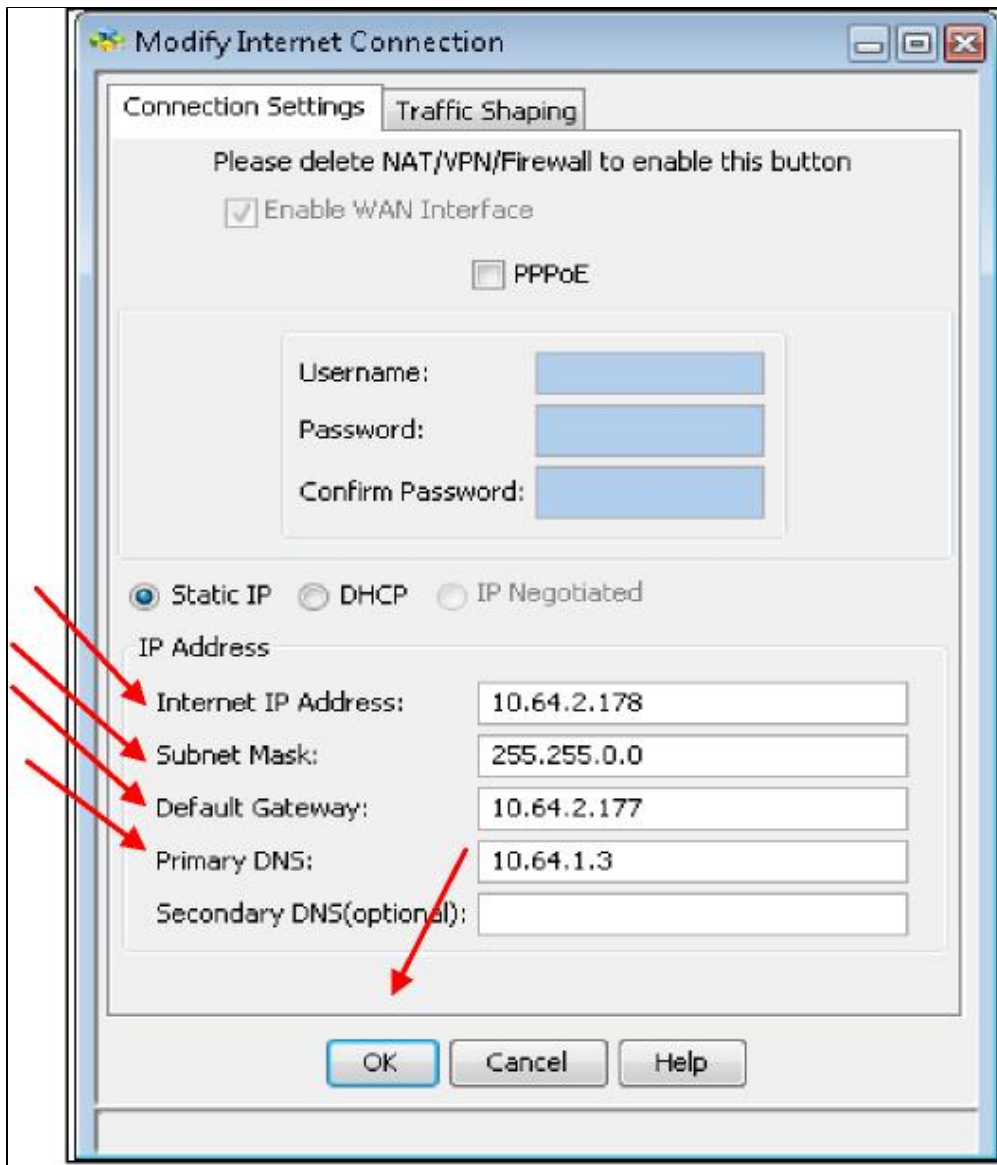
2.2 Establishing a Route

Follow the step-by-step procedure to establish a route.

Step	Action	Result
1	In the left frame of the window Click on Configure tab	

2	From the drop down menu Click on Routing	
3	From the drop down menu Click on Internet Connection	
4	In the right frame of the window Select WAN Interface	WAN Interface window opens
5	Click on Modify button	Modify Internet Connect pop-up window opens
6	In the Connections tab Confirm PPPoE Checkbox is unchecked	
7	Confirm Username, Password, Confirm Password fields are disabled	
8	Confirm Static IP is checked	
9	Internet IP Address Enter: IP address of UC520	Use the IP address of PBX for the network. Example: 10.64.2.178.
10	Subnet Mask Enter: Subnet Mask	Subnet Mask based on the above "Internet IP Address" Example: 255.255.0.0
11	Default Gateway Enter: e-SBC LAN IP for the network	This is the static LAN IP address of the Charter e-SBC
12	Primary DNS Enter: IP Address of DNS server	The IP Address of DNS server of the network as Primary DNS Example: 10.64.1.3
13	Click the OK button	Modify Internet Connection window closes
14	Click the OK button	
15	Go to the next table.	



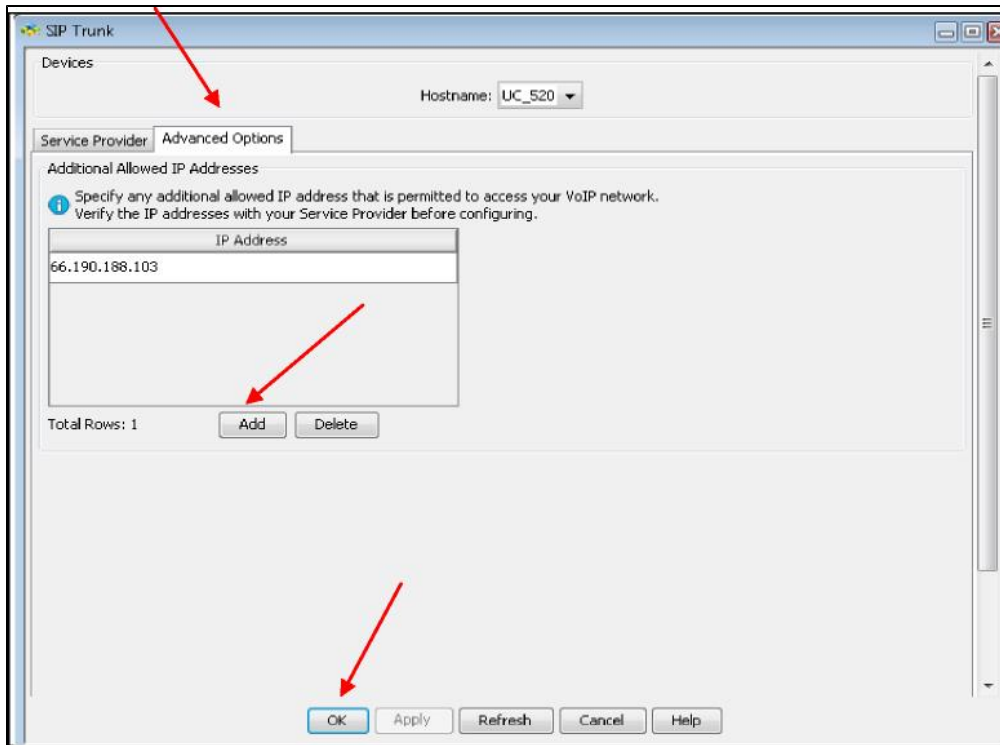


2.3 Creating SIP Trunk

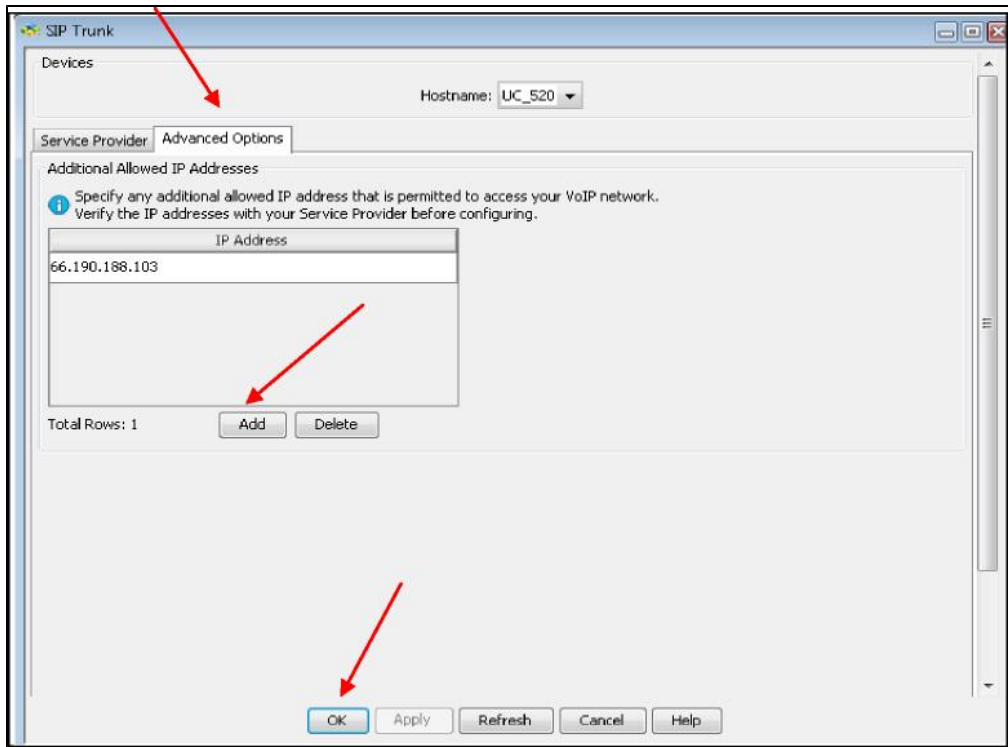
Follow the step-by-step procedure to create a SIP trunk.

Step	Action	Result
1	In the left frame of the window Click on Configure tab	
2	In the left frame of the window, navigate to Ports and Trunks Click SIP Trunk	

3	In right frame of the window under Devices In the Hostname Select the appropriate name	Example: UC_520
4	Click the Service Provider tab	
5	Service Provider: Select Generic SIP Trunk Provider	
6	Proxy Server (Primary): Enter: Static LAN IP address of the Charter E-SBC	Example: 10.64.2.177
7	Confirm (secondary): blank(no data)	
8	Confirm Registrar Server: blank(no data)	
9	Confirm Outbound Proxy Server: blank(no data)	
10	Maximum Number of Calls [1-14]: Enter: Appropriate number	Check with a Charter representative for a proper setting
11	Under Digest Authentication, Confirm Username: and Password: blank(no data)	
12	Under Domain Name Service SIP Domain Name: disabled and blank(no data)	
13	DNS Server Address: Confirm the IP Address is the same as the Device Configuration Confirm the field is disabled.	Device configuration can be found: Routing > IP Addresses> Device Configuration
14	Click the OK button	
15	Confirm User Credentials: blank(no data)	
17	Confirm User Credentials: blank(no data)	
18	Go to the next table.	



Step	Action	Result
1	At the top of this window, click on Advanced Options tab	
2	Under IP textbox Enter: IP addresses permitted to access VOIP network	Verify the IP addresses with service provider before configuring
3	Click the Add button	
4	Click OK button	
5	Procedure completed	



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