

## Spectrum Enterprise SIP Trunking Service snom ONE Mini 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**

# snom ONE Mini IP PBX Configuration Guide



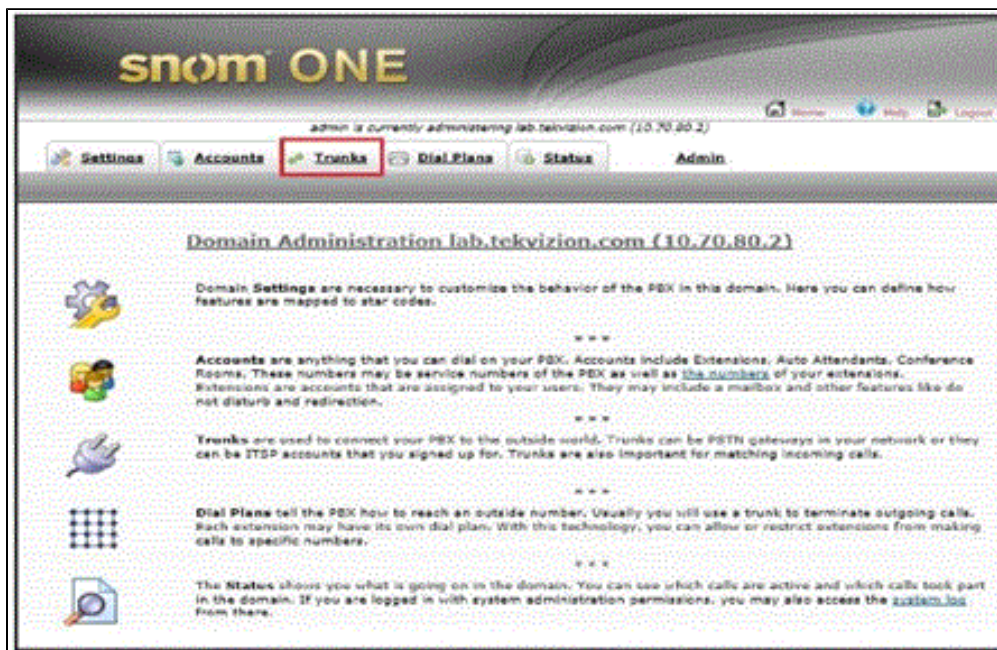
## 1 Introduction

The document describes how to configure the snom ONE Mini IP PBX to interoperate with the Charter network. It does not provide any information how 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 Trunk Profile Configuration

To create a trunk profile, follow the step-by-step procedure.

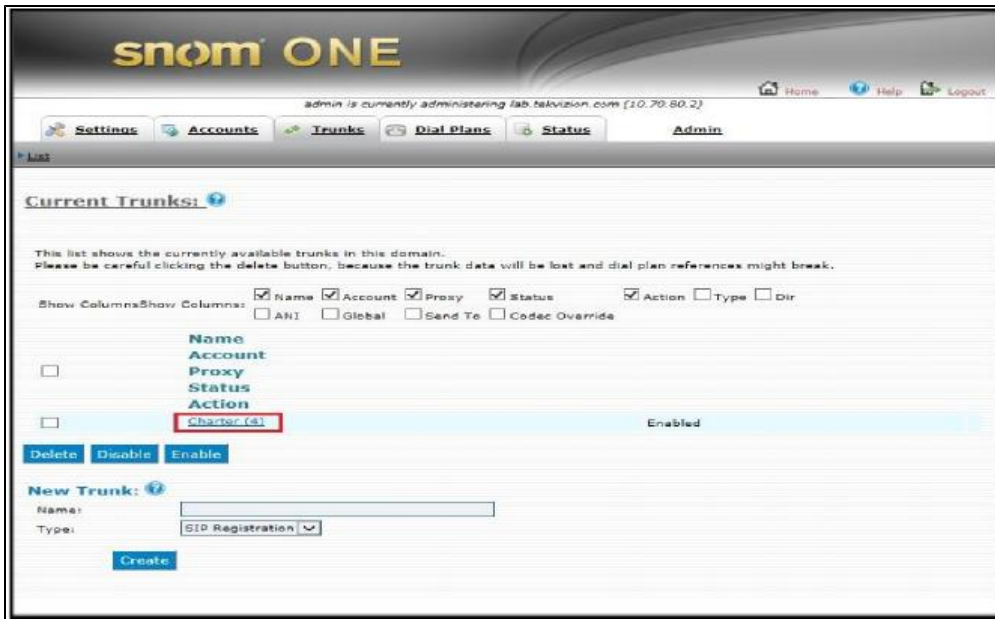
Step	Action	Result
1	Login to the snom One Mini IP PBX	
2	Click <b>Trunks</b> tab at the top menu.	Current Trunks screen opens
3	Go to the next table.	



Step	Action	Result
1	Under New Trunk Enter the following: Name: <b>Charter</b> Type: <b>Select SIP Proxy</b> Click <b>Create</b> button	The Current Trunks screen refreshes
2	Go to the next table.	



Step	Action	Result
1	To configure the trunk Click <b>Charter</b>	Edit Trunk Charter screen opens
2	Go to the next table.	



Step	Action	Result
1	Under General Enter the following: Account: <b>Enter the SBC supplier name</b> Domain: <b>IP address of the LAN interface</b> Proxy Address: <b>IP address of the SBC LAN interface</b>	<b>Note:</b> Adtran was used here.
2	Under Routing/Redirection At Diversion Header: Select <b>Default(RFC)</b>	
3	Go to the next table.	

**snom ONE**

admin is currently administering lab.tekvizion.com (10.70.80.2)

Home Help Logout

Settings Accounts Trunks Dial Plans Status Admin

List Edit Graphs Rates

### Edit Trunk Charter: ?

Click [here](#) to switch to a text-based editing window for the trunk.

**General: ?**

Name: Charter

Type: SIP Proxy

Direction: Inbound and outbound

Trunk Destination: Generic SIP Server

State: Enabled

Display Name:

Account: Adtran

Domain: 10.70.80.3

Username:

Password: .....

Password (repeat): .....

Proxy Address: 10.70.80.3

CO Lines:

Error message when all lines are busy: 500 Line Unavailable

Permissions to monitor this account:

**Registrations: ?**

**Routing/Redirection: ?**

Failover Behavior: No failover

Accept Redirect:  Yes  No

Diversion Header: Default(RFC)

Assume that call comes from user:

Send call to extension:



Step	Action	Result
1	Under/Call Identification Enter the following: Trunk ANI: <b>3038356006 (Trunk pilot DID)</b> Remote Party/Privacy Indication: Select <b>Custom Headers</b>	

2	<p>Under Headers</p> <p>Select the following:</p> <p>Request-URI: <b>Let the system decide(Default)</b></p> <p>From: Other (<u>sip:{ext-ani}@{domain}:user=phone</u>)</p> <p>To: <b>Same as Request-URI</b></p> <p>P-Asserted-Identity: <b>Don't user header</b> P-Preferred-Identity: <b>Don't user header</b></p> <p>Remote-Party-ID: <b>Let the system decide(Default)</b> P-Charging-Vector: <b>Don't user header</b></p> <p><b>Privacy Indication: Don't user header</b></p>	
3	Go to the next table.	

**Number/Call Identification:**

Prefix:

Trunk ANI:

Remote Party/Privacy Indication:

Header	Value
Request-URI	Let the system decide(Default)
From:	Other <sip:{ext-ani}@{domain}:user=phone>
To:	Same as Request-URI
P-Asserted-Identity:	Don't use header
P-Preferred-Identity:	Don't use header
Remote-Party-ID:	Let the system decide(Default)
P-Charging-Vector:	Don't use header
Privacy Indication:	Don't use header

Rewrite global numbers:

Generate unique extension identifiers:  Yes  No

Interpret SIP URI always as telephone number:  Yes  No

Caller ID update on trunk:

Customer specific header (Example: X-snom: my header):

**Multi-Domain:**

Global:  Yes  No

Inter-Office Trunk:  Yes  No



Step	Action	Result
1	<p>Under Security confirm the following:</p> <p>Is Secure: <b>Yes</b></p> <p>Explicitly list addresses for inbound traffic: <b>use the IP address of the SBC LAN interface</b></p>	
2	<p>Under Media/Audio</p> <p>Enter <b>G.711U</b> for the Override Codec Preference</p>	
3	Click <b>Add</b> button	
4	Click the <b>Save</b> button.	

5 Procedure completed.

**Security:**

Is Secure:  Yes  No

Explicitly list addresses for inbound traffic: 10.70.80.3

**Media/Audio:**

Override Codec Preferences:

G.711U	G.726
	GSM 6.10
	G.711A
	G.722
	G.729A

Up Down Remove Add

Lock codec during conversation:  Yes  No

Strict RTP Routing:  Yes  No

Trunk requires out of band-DTMF tones:  Yes  No

Requires busy tone detection:  Yes  No

PRACK support:  Yes  No

Ringback(Support early media):  Message 180  Media

Force local ringback:  Yes  No

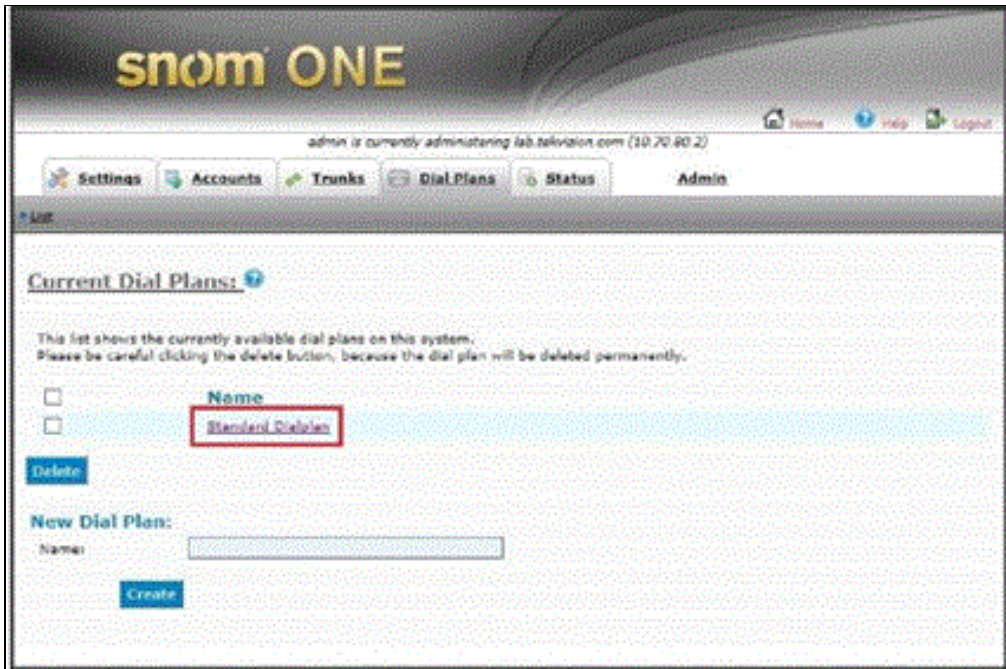
Save



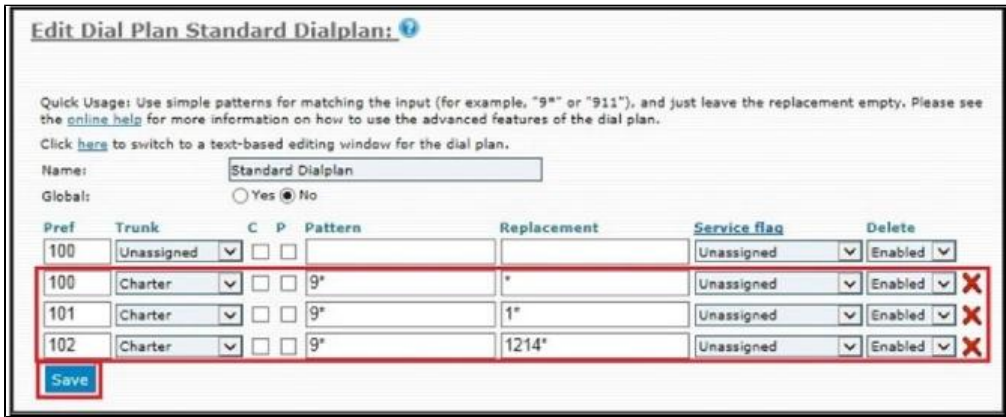
### 3 Dial Plan Configuration

To create a dial plan, follow the step-by-step procedure.

Step	Action	Result
1	From the main screen Select <b>Dial Plans</b> tab	Current Dial Plans screen opens
2	Under Name Click on <b>Standard Dialplan</b>	Edit Dial Plan Standard Dial plan screen opens
3	Go to the next table.	



Step	Action	Result
1	Add the required dialing plans for 11, 10, and 7 digit plans	
2	Click the <b>Save</b> button	
3	Procedure completed.	



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