

Spectrum Enterprise SIP Trunking Service Samsung OfficeServ 7100 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

Samsung OfficeServ 7100 IP PBX Configuration Guide



1 Introduction

The document describes how to configure the Samsung OfficeServ 7100 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 Configuration

2.1 Configuring SIP Trunk Profile

To configure the SIP trunk profile, follow the step-by-step procedure.

Step	Action	Result										
1	Navigate to Features > VoIP Options > SIP Carrier Options (5.2.13)	5.2.13 SIP Options screen opens										
2	Set the following: <table border="1"><tr><td>SIP Carrier Name:</td><td>Charter</td></tr><tr><td>SIP Server Enable:</td><td>Enable</td></tr><tr><td>Registra Port:</td><td>Enable</td></tr><tr><td>Registra Port:</td><td>5060</td></tr><tr><td>Outbound Proxy:</td><td>10.70.98.3</td></tr></table>	SIP Carrier Name:	Charter	SIP Server Enable:	Enable	Registra Port:	Enable	Registra Port:	5060	Outbound Proxy:	10.70.98.3	<p>Note: This is the static LAN IP address of the Charter Adtran (E-SBC). Use the actual (E-SBC) LAN IP for the network.</p>
SIP Carrier Name:	Charter											
SIP Server Enable:	Enable											
Registra Port:	Enable											
Registra Port:	5060											
Outbound Proxy:	10.70.98.3											
3	Outbound Proxy Port: 5060 Supplementary Type: Server Managed	<p>Note: Setting this parameter to Server Managed enables refer support. By enabling refer support Samsung OfficeServ 7100 will not use additional resources when transferring/forwarding calls to the PSTN.</p>										
4	Click Save button.											
5	Procedure completed.											

5.2.13 SIP Carrier Options	
SIP Carrier 1	
Item	Value
SIP Carrier Name	Charter
SIP Server Enable	Enable
SIP Service Available	Yes
Registra Address	
Registra Port	5060
Outbound Proxy	10.70.96.254
Alternative Outbound Proxy	0.0.0.0
Outbound Proxy Port	5060
Proxy Domain Name	
Local Domain Name	
DNS Server 1	0.0.0.0
DNS Server 2	0.0.0.0
User Name	
Auth Username	
Auth Password	
Regist Per User	Disable
Session Timer	None
Session Expires Time (sec)	1800
Trunk Reg Expires Time (sec)	1800
Alive Notify	Options
Alive Notify Time (sec)	1800
IMS Option	Disable
P Asserted ID Use	Primary
SIP Peering	Disable
Send CLI Table	1
Supplementary Type	Server Managed
302 Response	Disable
SIP Destination Type	To Header
Codec Auto Nego	Enable
URI Type	SIP
SIP Signal Type	UDP
E164 Support	Disable
PRACK Support	Enable
Hold Mode	Send Only
Response to Tag	Keep
SIP Connection Reuse	Disable
SIP Trunking Codec PR1	G.729
SIP Trunking Codec PR2	G.711a
SIP Trunking Codec PR3	G.711a
SIP Trunking Codec PR4	Disable
SIP Trunking Use Alias	Disable
SIP Trunking Max Channel	64
Outgoing Originator Codec Use	Disable
Incoming Call Fixed Codec	Disable
Anonymous Host Name	Enable
Privacy Header Value	id,critical



2.2 Configuring Incoming Routing

To provision DID numbers in the Samsung OfficeServ 7100, follow the steps below. The DID numbers used in this example are for test purposes only. Consult your Charter representative for appropriate DID phone numbers or a range of DID phone numbers.

To configure the incoming routing, follow the step-by-step procedure.

Step	Action	Result
1	Navigate to Call Routing > Incoming > DID Ringing (3.2.3)	
2	Enter the following “Entry No” numbers (1 thru 2) as follows. <ul style="list-style-type: none"> When 3038356006 is received the call terminates to extension 3201 When 3038356047 is received the call terminates to extension 3202 	Note: For this example “Entry No” 1 – 2 will be populated and described below. Each entry will be associated with an extension or a group. The DID numbers used in this example are for test purposes only. Consult your Charter representative for appropriate DID phone numbers or a range of DID phone numbers.
3	Click Save button.	
4	Procedure completed.	

3.2.3.DID Ringing											
Entry No	Incoming Digits	Ring Plan 1		Ring Plan 2		Ring Plan 3		Ring Plan 4		Ring Plan 5	
		Ring Port	Max Count	Ring Port	Max Count	Ring Port	Max Count	Ring Port	Max Count	Ring Port	Max Count
1	3038356006	3201	99	99	99	99	99	99	99	99	99
2	3038356047	3202	99	99	99	99	99	99	99	99	99



2.3 Configuring Outgoing Dial Plan

Assign Station name to be displayed on the phone. This view has several more columns to the right that are all set to default values.

To configure an outgoing dial plan, follow the step-by-step procedure

Step	Action	Result
1	Navigate to Configuration > Port Configuration > Set CLI Number (2.4.3)	
2	Scroll until locating the “Tel Number” required	This example is using extension (3201 and 3202).
3	Assign the Name for each extension.	Note: Assign Station name is displayed on the phone. This view has several more columns to the right that are all set to default values.

4	Click Save button.	
5	Procedure completed.	

2.4.3. Send CLI Number					
Tel Number	Send CLI Number				Send SIP Alias Name
	1	2	3	4	
3201	3038356005				
3202	3038356047				



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