

and are defined in the device configuration files, provided that the template files are created with the correct Device Management tags.

The device profile created in the previous section should be assigned to the BroadWorks user. Assigning the device profile to the user automatically causes the Device Management feature to generate the device configuration files for this user's device.

To assign the device profile to the user, browse to the BroadWorks  $\langle user \rangle \rightarrow Addresses$  page and set the parameters as described in the following table.

It is expected that parameters not identified in the following table are already set or are self-explanatory.

Parameter	Value	Description
Identity/Device Profile Name	<device-profile-name> Example: BSFT_IOP_SN4110</device-profile-name>	From the drop-down list, select the device profile instance created in the previous section.
Line/Port	<sip address-of-record="" register=""> Example: 8881001023@as.iop1.broadworks.n et</sip>	Supply the desired SIP register Address-of-Record.

## Example User Addresses Settings



Figure 12 Assign Device Profile to User

#### 5.2.5 Configure Edge Device

In many deployments, an edge device is deployed on the enterprise edge. Configure the edge device SIP server setting with the service provider's session border controller IP address or FQDN.

To integrate the edge device with Device Management, the SBC address tag (%SBC\_ADDRESS%) defined in section 5.2.1.1 Create System Default Tags must be overridden at the group level with the LAN address of the edge device. At the Group  $\rightarrow$  Utilities  $\rightarrow$  Configure Device page, select the Patton device profile (example: Patton\_SmartNode\_2-8\_FXS). Perform the following steps.

- 1) Click on the *Custom Tags* tab.
- 2) Click Add.



- 3) Add the SBC tag.
- 4) For the tag, enter "SBC\_ADDRESS".
- 5) For the value, enter the IP address (that is, the edge device LAN IP address).
- 6) To save the tag data, click **OK**.

This Tag/Value is applied to all Patton model phones in the group using the modified *Device Profile Type*.

Repeat for each Patton model provisioned in the group.

#### 5.2.6 Configure Patton SmartNode

This section describes the steps necessary to configure the Patton SmartNode for integrating with BroadWorks Device Management.

- 1) Connect to the SmartNode. You can access the SmartNode through Telnet/SSH using options A or B below, depending on the model of your SmartNode.
  - Ethernet port 0/0 acts as a DHCP Client so it will take a DHCP address from your networks DHCP Server. You can then use the SmartNode Discovery tool to find the IP address assigned to the unit.



Figure 13 SmartNode as DHCP Client

 Ethernet port 0/1 acts as a DHCP Server. You can connect this directly to your computer and it can receive a DHCP address from the SmartNode.



Figure 14 SmartNode as DHCP Server

2) Once connected, you will see a login screen. The factory default username is *administrator* and the password is left blank.



Example:

```
login: administrator
password:
10.10.50.106>
```

3) Once logged in, you will need to configure the following to enable the auto provisioning.

Example (update the server address and device access URI per deployment environment):

```
enable
configure
profile provisioning PF_PRO_BROADSOFT
destination configuration
location 1 http://xsp.iop1.broadworks.net/dms/Patton_2-
8_FXS_DM/Patton_$ (system.mac).cfg
location 2 http://xsp.iop1.broadworks.net/dms//Patton_2-
8_FXS_DM/Patton_$ (system.mac).cfg
location 3 http://199.19.193.16/dms/Patton_2-
8_FXS_DM/Patton_$ (system.mac).cfg
activation reload immediate
provisioning execute PF_PRO_BROADSOFT
```

4) Once step 3 is configured, the Patton SmartNode will execute the provisioning request to the BroadWorks server, GET the configuration stored and then reload itself.

Your Patton SmartNode is now configured and ready for service.

### References:

Patton Support website: http://www.patton.com/support/

Email Patton Technical Support: <a href="mailto:support@patton.com">support@patton.com</a>

Call Patton Technical Support: 301.975.1007

Patton Support Online Knowledge Base: http://www.patton.com/support/kb.asp



# Appendix A: Sample Patton SmartNode Configuration Files

**NOTE**: The following samples are examples and should be used as a reference only. DO NOT CUT AND PASTE THESE EXAMPLES TO GENERATE YOUR CONFIGURATION FILES. Use the configuration files obtained from Patton with the specific release to generate your configuration files.

\_\_\_\_\_ #-----# # SN4526/4JS2JO/EUI # R6.T 2012-07-18 H323 SIP FXS FXO # 1970-01-15T07:22:35 # SN/00A0BA0403AA # Generated configuration file # #-\_\_\_\_\_ cli version 3.20 clock local default-offset +00:00 dns-client server 8.8.8.8 webserver port 80 language en system ic voice 0 low-bitrate-codec g729 profile napt NAPT profile ppp default profile call-progress-tone defaultSItone play 1 330 950 -7 play 2 330 1400 -7 profile call-progress-tone US Dialtone play 1 1000 350 -13 440 -13 profile call-progress-tone US Alertingtone play 1 1000 440 -19 480 -19 pause 2 3000 profile call-progress-tone US Busytone play 1 500 480 -24 620 -24 pause 2 500 profile call-progress-tone US Releasetone play 1 250 480 -24 620 -24 pause 2 250 profile tone-set default map call-progress-tone dial-tone US Dialtone map call-progress-tone ringback-tone US Alertingtone map call-progress-tone busy-tone US Busytone map call-progress-tone release-tone US Releasetone map call-progress-tone congestion-tone US Busytone

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profile voip default codec 1 g711ulaw64k rx-length 20 tx-length 20 dtmf-relay rtp fax transmission 1 relay t38-udp profile pstn default profile ringing-cadence default play 1 1000 pause 2 4000 profile sip default autonomous-transitioning profile aaa default method 1 local method 2 none context ip router interface WAN ipaddress 192.168.1.2 255.255.255.192 use profile napt NAPT context ip router route 0.0.0.0 0.0.0.0 192.168.1.1 0 context cs switch routing-table called-e164 RT FROM FXS00 route .T dest-interface BROADSOFT routing-table called-e164 RT TO FXS00 route default dest-interface FXS00 interface sip BROADSOFT bind context sip-gateway GW BROADSOFT route call dest-table RT TO FXS00 remote as.iop1.broadworks.net local as.iop1.broadworks.net early-connect early-disconnect interface fxs FXS00 route call dest-table RT FROM FXS00 message-waiting-indication stutter-dial-tone message-waiting-indication frequency-shift-keying call-transfer caller-id-presentation mid-ring subscriber-number 2405555731 context cs switch no shutdown authentication-service AUTH realm 1 as.iop1.broadworks.net username fred password fsmith location-service locserv domain 1 as.iop1.broadworks.net

#### **BROADSOFT PARTNER CONFIGURATION GUIDE – PATTON SMARTNODE**



match-any-domain identity-group default authentication outbound authenticate 1 authentication-service AUTH username fred registration outbound registrar as.iop1.broadworks.net preferred-transport-protocol udp proxy 1 redas.iop1.broadworks.net lifetime 1200 register auto retry-timeout on-system-error 10 retry-timeout on-client-error 10 retry-timeout on-server-error 10 message inbound message-server as.iop1.broadworks.net 5060 lifetime 120 subscribe implicit retry-timeout on-system-error 10 retry-timeout on-client-error 10 retry-timeout on-server-error 10 call outbound proxy 1 redas.iop1.broadworks.net invite-transaction-timeout 3 non-invite-transaction-timeout 32 identity 2405555731 inherits default registration outbound proxy 1 redas.iop1.broadworks.net call outbound proxy 1 redas.iop1.broadworks.net context sip-gateway GW BROADSOFT interface sipgwint bind interface WAN context router port 5060 context sip-gateway GW BROADSOFT bind location-service locserv no shutdown port ethernet 0 0 medium auto encapsulation ip bind interface WAN router no shutdown port ethernet 0 1 medium 10 half shutdown port fxs 0 0 use profile fxs us encapsulation cc-fxs

bind interface FXS00 switch



no shutdown port fxs 0 1 shutdown port fxs 0 2 shutdown port fxs 0 3 shutdown port fxo 0 0 shutdown port fxo 0 1 shutdown

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System Default File: nvram:factory-config

```
_____
#
                                                            ---#
#
# Factory configuration file
                                                              #
#
#
                _____
dns-relay
sntp-client
sntp-client server primary 129.132.2.21 port 123 version 4
system
 ic voice 0
   low-bitrate-codec g729
profile napt NAPT
profile dhcp-server DHCP
 network 192.168.1.0 255.255.255.0
 include 1 192.168.1.10 192.168.1.99
 lease 2 hours
 default-router 1 192.168.1.1
 domain-name-server 1 192.168.1.1
context ip router
 interface eth0
   ipaddress dhcp
   use profile napt NAPT
   tcp adjust-mss rx mtu
   tcp adjust-mss tx mtu
 interface eth1
```



ipaddress 192.168.1.1 255.255.255.0 tcp adjust-mss rx mtu tcp adjust-mss tx mtu context ip router dhcp-server use DHCP port ethernet 0 0 medium auto encapsulation ip bind interface eth0 router no shutdown port ethernet 0 1 medium auto encapsulation ip bind interface eth1 router no shutdown