

Configure Firmware Upgrade in Voice Provisioning Settings on SPA100 Series

Objective

The Firmware Upgrade in the SPA100 Series Analog Telephone Adapter is used to improve the performance of the device and keep it up to date.

The objective of this document is to explain how to configure the Firmware Upgrade in the SPA100 Series Analog Telephone Adapter.

Applicable Devices

- SPA112
- SPA122

Software Version

- 1.3.2-XU (014)

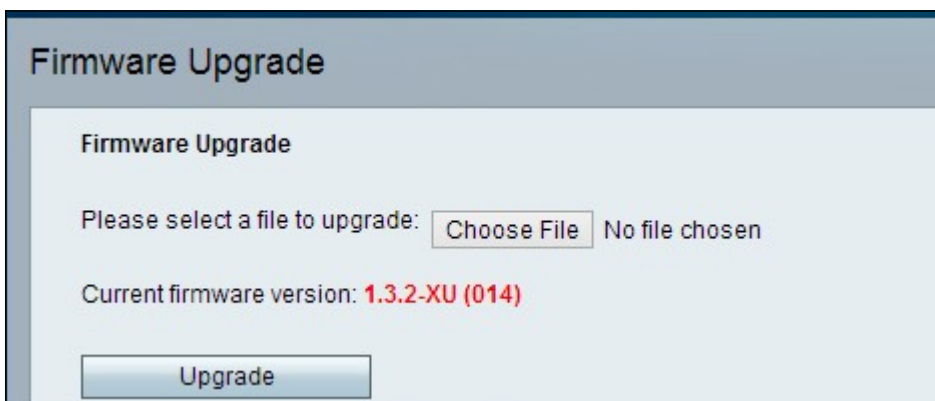
Software Download URL

[SPA100 Series](#)

Firmware Upgrade

Step 1. Access the Cisco web page and download the latest firmware version. This comes in a .Zip file.

Step 2. Log into the *Phone Adapter Configuration Utility* page and choose **Administration > Firmware Upgrade**. The *Firmware Upgrade* page opens:



Firmware Upgrade

Firmware Upgrade

Please select a file to upgrade: No file chosen

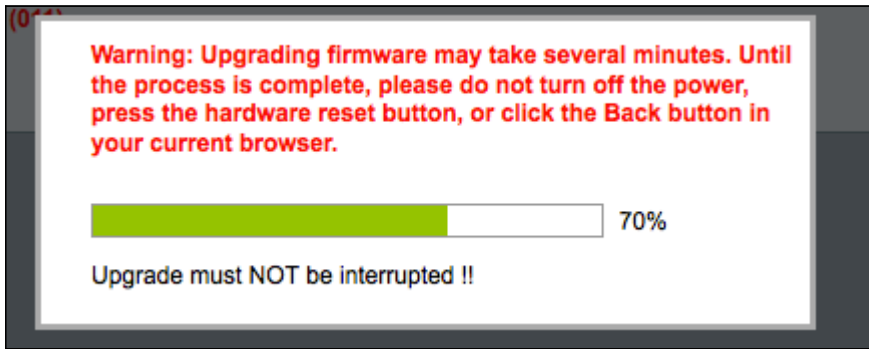
Current firmware version: **1.3.2-XU (014)**

Step 3. Click **Choose File** to select the .Zip update file from your computer.

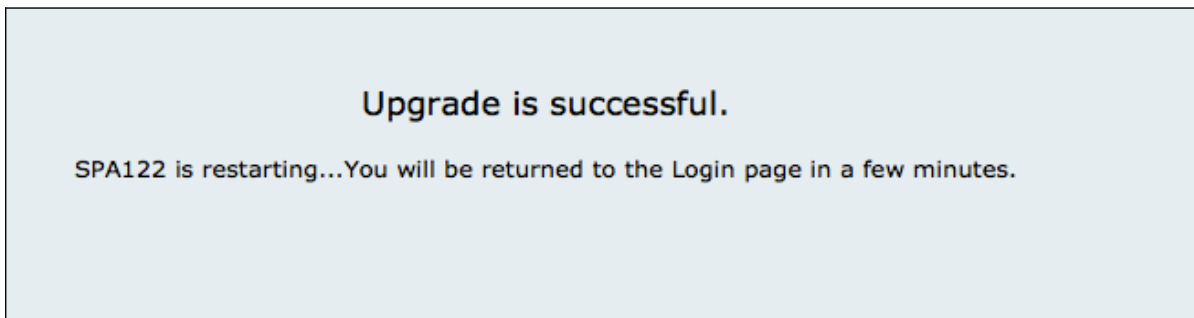
Step 4. Click .bin from the .Zip file

Step 5. Click **Upgrade**.

A warning message appears during firmware upgrade:



Step 6. The firmware updates successfully and a message appears notifying that the SPA122 will restart.



Step 7. The user is sent back to the *Login* page where the *username* and *password* fields are required.

Step 8. After the firmware is successfully updated, log into the *Phone Adapter Configuration Utility* page and choose **Voice > Provisioning**. The *Provisioning* page opens:

A screenshot of the "Provisioning" configuration page. The page has a blue header with the title "Provisioning". Below the header is a form with various fields and buttons. The form is organized into two columns. The left column contains fields for "Provision Enable" (set to "yes"), "Resync Random Delay" (2), "Resync At Random Delay" (600), "Resync Error Retry Delay" (3600), "Resync From SIP" (set to "yes"), "Resync Trigger 1" and "Resync Trigger 2" (empty), "Resync Fails On FNF" (set to "yes"), "Profile Rule" (/spa\$PSN.cfg), "Profile Rule B", "Profile Rule C", "Profile Rule D" (empty), "Profile Name" (empty), and "Log Resync Request Msg" (SPN \$MAC -- Requesting resync \$SCHEME://\$SERVIP:\$PORT\$PATH). The right column contains fields for "Resync On Reset" (set to "yes"), "Resync At (HHmm)" (empty), "Resync Periodic" (3600), "Forced Resync Delay" (14400), and "Resync After Upgrade Attempt" (set to "yes"). At the bottom of the form are three buttons: "Submit", "Cancel", and "Refresh".

Step 9. Scroll down to the *Firmware Upgrade* area.

Step 10. Choose "yes" from the **Upgrade Enable** drop-down list to enable firmware upgrade operations.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/> Downgrade Rev Limit: <input type="text"/>
Upgrade Rule:	<input type="text"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Step 11. Enter a value in the *Upgrade Error Retry Delay* field, to set the retry interval in the case of a failed upgrade attempt. The default value is 3600 seconds.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/> Downgrade Rev Limit: <input type="text"/>
Upgrade Rule:	<input type="text"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Step 12. Enter a value in the *Downgrade Rev Limit* field. This enforces a lower limit on the acceptable version number during a firmware upgrade or downgrade. The default setting is empty.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/> Downgrade Rev Limit: <input type="text" value="60"/>
Upgrade Rule:	<input type="text" value="https://www.SPA.com/admin"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Note: In order to complete the firmware upgrade operation the firmware version should be greater than or equal to this field.

Step 13. Enter a value in the *Upgrade Rule* field. This parameter defines upgrade conditions and associated firmware URLs. The default setting is empty.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/> Downgrade Rev Limit: <input type="text" value="60"/>
Upgrade Rule:	<input type="text" value="https://www.SPA.com/admin"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Step 14. Enter a value for the *Log Upgrade Request Msg* field. This is the syslog message

issued at the start of a firmware upgrade attempt.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/>
Downgrade Rev Limit:	<input type="text" value="60"/>
Upgrade Rule:	<input type="text" value="https://www.SPA.com/admin"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Step 15. Enter a value for the *Log Upgrade Success Msg* field. This is the syslog message issued after a firmware upgrade attempt completes successfully.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/>
Downgrade Rev Limit:	<input type="text" value="60"/>
Upgrade Rule:	<input type="text" value="https://www.SPA.com/admin"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Step 16. Enter a value for the *Log Upgrade Failure Msg* field. This is the syslog message issued after a failed firmware upgrade attempt.

Firmware Upgrade	
Upgrade Enable:	<input type="text" value="yes"/>
Upgrade Error Retry Delay:	<input type="text" value="3600"/>
Downgrade Rev Limit:	<input type="text" value="60"/>
Upgrade Rule:	<input type="text" value="https://www.SPA.com/admin"/>
Log Upgrade Request Msg:	<input type="text" value="\$PN \$MAC -- Requesting upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH"/>
Log Upgrade Success Msg:	<input type="text" value="\$PN \$MAC -- Successful upgrade \$\$SCHEME://\$SERVIP:\$PORT\$PATH -- \$ERR"/>
Log Upgrade Failure Msg:	<input type="text" value="\$PN \$MAC -- Upgrade failed: \$ERR"/>
License Keys:	<input type="text"/>

Step 17. The *License Keys* field is not currently used by the SPA100 Series ATAs.

Step 18. Click **Submit** to save the settings.