



Release Notes for SPA100 Series Analog Telephone Adapters Firmware Version 1.3.5

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These Release Notes provide information about SPA100 Series Analog Telephone Adapters firmware version 1.3.5.

IMPORTANT

As with any firmware release, read these release notes before upgrading the firmware. Cisco also recommends backing up the configuration before any firmware upgrade.

Changes in Firmware Version 1.3.5

For the Cisco SPA112/SPA122, following are the changes in the firmware version 1.3.5:

- The open Secure Sockets Layer (SSL) open source library used in the ATA is upgraded to 1.0.1g in order to support TLS 1.2.
- LED pattern added specifically for RC status in SPA122-RC to allow users to view and monitor the RC process.
- The SIP parameter "Hook Flash MIME Type" is set to application/broadsoft so that the Broadsoft server recognizes the flashhook event.

The devices with the following PID and TAN numbers (or later numbers) cannot be downgraded to a version older than 1.3.3:

- PID—SPA112-BR TAN—74-11115-01 G0
- PID—SPA122-BR TAN—74-11116-01 F0
- PID—SPA112 TAN—74-9317-02 G0
- PID—SPA122 TAN—74-9318-02 G0
- PID—SPA122-RC TAN—74-9319-02 G0



SSL/TLS Certificate

Server Certification

If a device is upgraded to SW 1.3.3 or later, the provisioning server requests a server certification signed by the Cisco 2K Small Business CA or can use the certificate signed by 1K CA.



Note The 2K server certificate is not compatible with old firmwares (before 1.3.3.) The 1K server certificate is compatible with all firmwares, before and after 1.3.3.

Client Certification

Devices with serial number CCQ18230001 (and newer) are built-in with 2K Client Certificate.

For a device with 2K Client Certification, the provisioning server should update the combined CA if client certification is requested.



Note The new combined CA is compatible with both 1K and 2K Client Certification.

Hardware and Firmware Compatibility Matrix

SPA112/SPA122 (3 types of devices)	SN Range	1.3.5p(XU), 1.3.5p, 1.3.2p	1.3.5(XU), 1.3.5, 1.3.4, 1.3.3, 1.3.2n	1.3.2(XU), 1.3.2 or earlier
Device 1 (128MB Flash + New Si3217x-B SLIC)	SPA112 <ul style="list-style-type: none"> • CCQ18400001 to CCQ1841033K • After CCQ18500DAE SPA122 <ul style="list-style-type: none"> • CCQ1834031U to CCQ1834037D • CCQ1847066I to CCQ184707YA • CCQ184902ED to CCQ184904UL • CCQ184904UM to CCQ184904Y3 • CCQ184904Y4 to CCQ184904Y5 • After CCQ185001YH 	Yes	No	No

SPA112/SPA122 (3 types of devices)	SN Range	1.3.5p(XU), 1.3.5p, 1.3.2p	1.3.5(XU), 1.3.5, 1.3.4, 1.3.3, 1.3.2n	1.3.2(XU), 1.3.2 or earlier
Device 2 (128MB Flash + Old Si3217x-B SLIC)	SPA112 <ul style="list-style-type: none"> • CCQ175106J3 to CCQ175106OM • CCQ181607OO to CCQ181607U7 • CCQ18240E34 to CCQ18400000 • CCQ1841033L to CCQ18500D9K SPA122 <ul style="list-style-type: none"> • CCQ174602V3 to CCQ1746030M • CCQ181502B7 to CCQ181502GQ • CCQ182002W3 to CCQ1834031T • CCQ1834037E to CCQ18470660 • CCQ184707YB to CCQ184902EC • CCQ184904UM to CCQ184904UL • CCQ184904Y4 to CCQ184904Y3 • CCQ184904Y6 to CCQ185001YH 	Yes	Yes	No
Device 3 (32MB Flash + Old Si3217x-B SLIC)	SPA112: Before CCQ182002W2 SPA122: Before CCQ181805KR	Yes	Yes	Yes

**Note**

Do not upgrade any device to an unsupported firmware version as detailed in the Hardware and Firmware Compatibility Matrix table.

**Note**

New devices have a label that reads *S/W: Must use 1.3.5(004p) or later*.

**Note**

1.3.2p is identical to 1.3.2 and additionally supports 128MB flash and new SLIC.
 1.3.2n is based on 1.3.2; both have the same feature set, except that 1.3.2n supports 128MB flash while 1.3.2 does not.
 1.3.5p is based on 1.3.5; both have the same feature set, except that 1.3.5p supports new SLIC while 1.3.5 does not.
 1.3.5p(XU), 1.3.5(XU), 1.3.2(XU): SRTP functionality has been removed, and it cannot be configured or provisioned in firmware versions that are designated with XU in the filename.

Resolved Issues

Tracking Number	Description
CSCuo85817	DNS retry optimization for RC provisioning.
CSCup79722	The default value of LLDP is different from the configuration generated by the SPC tool.
CSCuq14803	SPA112: Admin access not available in the configuration file generated by the SPC tool.
CSCtz07722	SRP references in the administration guide changed to SPA100.
CSCtz15389	Blind Transfer: When a complete number is entered, the ATA sends a SIP INVITE message with the Refer-To target equals to *98 target_number.
CSCud44154	SPA122 fails to load the first profile rule when both the profile rules are changed.
CSCuh26401	SPA112: IVR option 170 does not work properly.
CSCuo42957	SPA112: PSTN Caller ID is not displayed on the phone connected to SPA112/SPA122.
CSCuo44768	IVR Menu Options 1911 and 1921 are not valid anymore.
CSCuo49341	SPA122-RC: Power LED Indicator on RC devices to check the status of RC provisioning process.
CSCuo77458	SPA122-RC: DNS retry missed the first value in the Resync Error Retry Delay.
CSCuo85834	Monitor and document the SPA122-RC Provisioning Time Optimization. (Reduce the RC provisioning time by at least 2 minutes.) Note The complete RC device provisioning time should be between 5 - 7 minutes.
CSCuo44802	Obsolete Link for Music Coupler needs to be updated.

Known Issues

Tracking Number	Description
CSCud44154	When profile_rule and profile_rule_b are both changed, the SPA100/200 fails to load the first profile rule.
CSCul21696	T38 fax fails with model "Cannon MX850", but successful with other models like Brother FAX 8360P, Xerox WorkCentre Pro 575, Panasonic UF-9000, and HP Officejet 7110.
CSCtq39251	The volume is 2dbm lower than the SPA2102 with default settings.
CSCuf54553	FQDN is required in the profile rule after setting Restricted Access Domains.
CSCul61825	The SPA100/200 series does not support RFC2543 Call Hold. Re-INVITE message always has the device ip address in its SDP and not 0.0.0.0
CSCuo77458	During DNS query retry, the first value for the parameter <Resync Error Retry Delay> is ignored.

Tracking Number	Description
CSCuq06381	SPA122-RC: To get the new configuration on RC, powercycle is needed after custom reset.
CSCuq17200	SPA112/122: The minor version number in brackets () is ignored while upgrading using "Upgrade Rule".
CSCuq21428	SPA112: Cannot change Web Utility Access and Remote Management Port via resync.

Note 1: Firmware Downgrade Limitation

The devices with the following PID and TAN (or later TAN number) cannot be downgraded to a version older than 1.3.3.

PID	TAN
SPA112-BR	74-11115-01 G0
SPA122-BR	74-11116-01 F0
SPA112	74-9317-02 G0
SPA122	74-9318-02 G0
SPA122-RC	74-9319-02 G0

Note 2: 2K Certificate

Server Certification

If the device is upgraded to 1.3.3 or later (no hardware related), the server could request a server certification signed by the "Cisco 2k Small Business CA" or keep using certificate signed by 1k CA. Be careful, it is optional because the new signed 2k server certificate is not compatible with old firmware (before 1.3.3). While the server certificates signed by 1k CA are working for all firmware, before and after 1.3.3.

Client Certification

SPA112&122&232D with SN CCQ18230001 and after have a built-in 2k Client Certificate. Then server must update the new Combined CA if the client certification is required. The new Combined CA is compatible with the old 1k & 2k certificate, that means it works for all the devices.

Upgrade the Firmware

Follow these instructions to upgrade the phone adapter.

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- Step 1** Download the latest firmware by using the Firmware link on the following web page:
www.cisco.com/go/smallbizvoicegateways
 - Step 2** Launch a web browser, and enter the LAN IP addresses of the phone adapter.
 - Step 3** Log in to the Configuration Utility.
 - Step 4** Click **Administration** in the menu bar, and then click **Firmware Upgrade** in the navigation tree.

Step 5 Click **Browse** and select the location of the upgrade file that you downloaded.

Step 6 Click the **Upgrade** button to upgrade the firmware.



Note

Upgrading the firmware may take several minutes. Until the process is complete, **DO NOT** turn off the power, press the hardware reset button, or click the Back button in your current browser.

Behavior During Times of Network Congestion

Anything that degrades network performance can affect voice and video quality, and in some cases, can cause a call to drop. Sources of network degradation can include, but are not limited to, the following activities:

- Administrative tasks, such as an internal port scan or security scan
- Attacks that occur on your network, such as a Denial of Service attack

To reduce or eliminate any adverse effects to the devices, schedule administrative network tasks during a time when the devices are not being used or exclude the devices from testing.

Related Information

Support	
Cisco Small Business Support Community	www.cisco.com/go/smallbizsupport
Online Technical Support and Documentation (Login Required)	www.cisco.com/support
Cisco Small Business Support and Resources	www.cisco.com/go/smallbizhelp
Downloads and Documentation	
Firmware	www.cisco.com/go/software
Cisco Small Business Voice Gateways Documentation	www.cisco.com/go/smallbizvoicegateways
Open Source Documentation	Follow the Release Notes link at www.cisco.com/go/smallbizvoicegateways
Cisco Small Business	
Cisco Partner Central for Small Business (Partner Login Required)	www.cisco.com/web/partners/sell/smb
Cisco Small Business Home	www.cisco.com/smb

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