Release Notes for Cisco SPA232D Multi-Line DECT ATA and Cisco SPA302D Multi-Line DECT Handset Firmware Version 1.3.5

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These Release Notes provide information about Cisco SPA232D Multi-Line DECT ATA and Cisco SPA302D Multi-Line DECT Handset 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 SPA302D/SPA232D, following are the changes in the firmware version 1.3.5:

- Added a new parameter "DTMF DECT Input Length" to adjust the DTMF length (which is too short) in AVT method. This parameter controls the event duration in RFC 2833 RTP event packet triggered by the DTMF digit sent from the handset.

> **Note** This parameter is available in SPA232D only. The parameter "DTMF Playback Length" under Voice > Regional tab controls DTMF duration in INFO method.

- 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.

- 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-SPA232D-G1 TAN-74-9321-01 F0
- PID-SPA232D-G7 TAN-74-9324-01 F0
- PID-SPA232D-R1 TAN-74-9323-01 F0
- PID-SPA232D-R7 TAN-74-9325-01 F0

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 firmware (before 1.3.3.) The 1K server certificate is compatible with all firmware, 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

SPA232D (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 or earlier
Device 1 (128MB Flash + New SLIC)	After CCQ1906001V	Yes	No	No
Device 2 (128MB Flash + Old SLIC)	CCQ17100G3L to CCQ1906001U	Yes	Yes	No
Device 3 (32MB Flash + Old SLIC)	Before CCQ17100FS0	Yes	Yes	Yes

Note 1.3.2p is identical to 1.3.2 and additionally supports 128MB flash and new SLIC.
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.

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.*

Resolved Issues

Tracking Number	Description
CSCun19842	SPA302: After enabling CFWD on the server, the CFWD does not sync with the handset (HS).
CSCuo15517	SPA232D: No RTP stream issue while making a call 30 minutes after the phone upgrades (with domain name in <Upgrade Rule> and specific configuration setup.)
CSCup79722	The default value of LLDP is different from the configuration generated by the SPC tool.
CSCuq15066	SPA232D: Changing Block Anonymous Call in the HS GUI impacts the value of DTMF Length.
CSCul42353	SPA302D: The speaker icon overlaps the ringoff icon on the HS.
CSCul46866	SPA302D: Changing the default outgoing line to PSTN on the HS impacts the priority of other outgoing lines.
CSCul73424	SPA302D: Making a secure call from the HS causes the voice module to hang (no audio.)
CSCul76449	SPA302D: DECT line 10 cannot make the second call.
CSCul77235	SPA302D: The HS does not reply 'Busy' while receiving the 5th call.
CSCum02009	SPA302D: While making the 5th call there is no audio issue, dialing issue, or FXS no ring issue.
CSCun00566	SPA302D: The DTMF tone is too short and not configurable causing DTMF detection failure on the IVR. InBand DTMF does not work.
CSCun17960	SPA232D ignores the NOTIFY expiry.
CSCun27290	SPA302D: The Line Status is displayed incompletely if the Display Name is too long.
CSCun38352	SPA232D: IVR 73738 does not work for voice parameter reset.

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Tracking Number	Description
CSCun67002	SPA232: FXS port, Enable/Disable DND works even after stopping the DND server.
CSCun83124	SPA302D: Call information missing when the User ID is over 20 characters.
CSCuo44802	Obsolete Link for Music Coupler needs to be updated.
CSCuc02874	SPA302D: During secure call there is no indication tone on the HS for hold/resume on the remote party.

Known Issues

Due to CSCug32425, when upgrading the SPA232D loaded with v1.3.1 (or a previous firmware version), it is required to upgrade the SPA232D v1.3.2 firmware twice if provisioning the device via the Upgrade Rule to correctly upgrade to the corresponding embedded SPA302D handset software. A special version of SPA232D firmware has been created to be used to perform the first upgrade while the second upgrade can use SPA232D_SPA302D_1.3.2_014_FW.bin which then installs the SPA302D handset software correctly.

This is not an issue while upgrading the SPA232D firmware via the web-based configuration utility, as the SPA232D needs to be upgraded only once.

Tracking Number	Description
CSCup89627	SPA232D: While continuously running TR69, the ATA displays 'Connection Refused' (between the ATA and the server.)
CSCup96190	SPA232D: PSTN Caller ID is incorrect with specific configuration.
CSCup99031	SPA302D: When a first call is on hold, the second call cannot be answered while the other handset is upgrading.
CSCun11831	SPA302D: The CWT tone continues to play on the second incoming call even after the first call ends.
CSCun17894	SPA302D: The Dial Plan syntax (without the exclamation mark) does not work on the HS, but works on FXS port.
CSCun46895	SPA232D: Media Loopback is not supported.
CSCun51326	SPA302D: When both DND and CFWD Busy are enabled then CFWD does not take effect.
CSCun58955	SPA232D: The phone sends random DTMF when the "Conference Tone" is changed.
CSCun73086	SPA302D: Outgoing line from the HS cannot be emptied.
CSCun75923	SPA232D: Download failure of auto-recovery file blocks manual recovery.

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Tracking Number	Description
CSCun93568	SPA232D: Setting IP Dialing format for CFWD target does not work.
CSCuo26397	SPA302D: 'Reply 182 on Call Waiting' does not work on DECT line (works in FXS port.)
CSCuo26703	SPA232D: "Conference Bridge Ports" does not work.
CSCup66338	SPA302D: Cannot dial out when the dialed number is 32 characters.
CSCup83750	SPA302D: Hold Tone on the HS is missing during a long call if the call is put on hold by the called party.
CSCup83991	SPA302D: Conference cannot be set up using Conference Bridge if the calls are swapped.
CSCup88756	SPA232D: While one handset is upgrading, "Call Forwarding" cannot be accessed.
CSCup89327	SPA302D: The HS does not display the underline in the name of an incoming call.
CSCuq08098	SPA232D: Reminder Ring does not play immediately after an end of a PSTN call.
CSCuq08810	SPA232D: The CFWD last caller setting on PSTN User tab in the web GUI does not take effect.
CSCuq12895	SPA232D: The max duration setting for PSTN/VoIP Call does not take effect in the handset.
CSCuc85269	SPA232D: While a PSTN line is in use, Caller ID is not displayed on FXS port during an incoming call.
CSCun39409	SPA302D: The SPA302D has a missed call when two or more handsets are using the same line.

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
SPA232D-G1	74-9321-01 F0
SPA232D-G7	74-9324-01 F0

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PID	TAN
SPA232D-R1	74-9323-01 F0
SPA232D-R7	74-9325-01 F0

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). 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, which means it works for all the devices.

Upgrade the Firmware

Upgrade the Cisco SPA232D

Follow these instructions to upgrade the phone adapter.

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 ATA.

Step 3 Log in to the Configuration Utility. (On first use, enter admin as the username and the password. After logging in, you should configure a unique password that is hard to guess.)

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.

Upgrade the Cisco SPA302D

Perform this procedure after you upgrade the Cisco SPA232D while you wait for the ATA to reboot.

Note To verify the upgrade, go to the **Administration > Firmware Upgrade** page, and confirm that the firmware version number is correct.

Step 1 On the handset, press the center **Select** button, scroll to **Settings**, and press the **Select** button again.

Step 2 In the settings menu, choose **Update Software**, and then press the **Select** button.

Step 3 At the **Check for software update** prompt, press **Confirm**.

Step 4 Within a moment, the handset displays the current version of software on the handset and the latest software version available from the Cisco SPA232D. Press the **Select** softkey.

Step 5 Place the handset in the charging cradle.

Caution Do not remove the handset from the charging cradle during the upgrade. Do not power off the handset, charging cradle, or base station, or otherwise interrupt the upgrade process.

The handset erases the flash memory, downloads the new software, and verifies the upgrade data. After the upgrade, a message appears indicating the status of the upgrade (for example, if the upgrade succeeded).

Step 6 After the success message appears, press **Reset** to reboot the handset.

If the upgrade fails, press **Reset** to reboot the handset. Check the status lights on the Cisco SPA232D to make sure that it is powered on and functioning. Then, repeat the upgrade steps.

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.

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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

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html.

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