Release Notes for Cisco Business 220 Series Switches - Software Version 2.0.1.9

Introduction

January 2022

This Release Note describes the recommended practices and known issues that apply to software version 2.0.1.9 for the Cisco Business 220 Series Switches that include the following models:

Model	Product Label
CBS220-8T-E-2G	10-Port Gigabit Smart Switch
CBS220-8P-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-8FP-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-16T-2G	18-Port Gigabit Smart Switch
CBS220-16P-2G	18-Port Gigabit PoE Smart Switch
CBS220-24T-4X	24-Port Gigabit Smart Switch
CBS220-24P-4X	24-Port Gigabit PoE Smart Switch
CBS220-24FP-4X	24-Port Gigabit PoE Smart Switch
CBS220-48T-4X	48-Port Gigabit Smart Switch
CBS220-48P-4X	48-Port Gigabit PoE Smart Switch
CBS220-48FP-4X	48-Port Gigabit PoE Smart Switch
CBS220-24T-4G	24-Port Gigabit Smart Switch
CBS220-24P-4G	24-Port Gigabit PoE Smart Switch
CBS220-48T-4G	48-Port Gigabit Smart Switch
CBS220-48P-4G	48-Port Gigabit PoE Smart Switch

What's New

1.1 Call Home Agent

Upgrade to Version 2.4.0.20211213.

Resolved Issues

Table 1: Caveats Resolved in Release V2.0_1_9

Number	Description
CSCvz77749	**Symptom** It would take 10 minutes to connect to CBD after correct mismatched CBD configuration on switch.
CSCvz77754	**Symptom** When modifying CBD organization or network name on a switch, the connection to CBD manager would not disconnect.
CSCwa52390	**Symptom** Memory leaked when PNP was enabled.
CSCwa52387	**Symptom** POE was wrongly disabled due to false FAN state alarm.
CSCvz84226	**Symptom** STP Bridge ID and Root Bridge ID were swapped in the GUI.

Introduction

September 2021

This Release Note describes the recommended practices and known issues that apply to software version 2.0.1.5 for the Cisco Business 220 Series Switches that include the following models:

Model	Product Label
CBS220-8T-E-2G	10-Port Gigabit Smart Switch
CBS220-8P-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-8FP-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-16T-2G	18-Port Gigabit Smart Switch
CBS220-16P-2G	18-Port Gigabit PoE Smart Switch
CBS220-24T-4X	24-Port Gigabit Smart Switch
CBS220-24P-4X	24-Port Gigabit PoE Smart Switch
CBS220-24FP-4X	24-Port Gigabit PoE Smart Switch
CBS220-48T-4X	48-Port Gigabit Smart Switch
CBS220-48P-4X	48-Port Gigabit PoE Smart Switch

Model	Product Label
CBS220-48FP-4X	48-Port Gigabit PoE Smart Switch
CBS220-24T-4G	24-Port Gigabit Smart Switch
CBS220-24P-4G	24-Port Gigabit PoE Smart Switch
CBS220-48T-4G	48-Port Gigabit Smart Switch
CBS220-48P-4G	48-Port Gigabit PoE Smart Switch

What's New

1.1 New PHY Chipset

The following models support the new PHY- RTL8218D chipset:

- CBS220-16T-2G

- CBS220-16P-2G

- CBS220-24T-4G

- CBS220-24P-4G

- CBS220-24FP-4G

- CBS220-48T-4G

- CBS220-48P-4G

1.2 Downgrade from Version 2.0.1.x to Version 2.0.0.x

As of firmware version 2.0.1.x, the switch supports the new PHY chipset. This new PHY driver is not supported in version 2.0.0.x, and therefore the firmware downgrade for the switch models with new PHY chipset will be prohibited.

1.3 Call Home Agent

The Call Home Agent has been upgraded to Version 2.3.1.20210917.

1.4 Active Image is Updated Automatically

Sincefirmware 2.0.1.x, once the device is upgraded with a new image, the new image will automatically be set as the active in the next boot up.

1.5 Default port mode changed

The old switch behavior (before firmware version 2.0.1.x): the default port mode is the trunk mode, and by default it only allows VLAN 1 on the trunk port.

The new switch behavior: the default port mode is changed to access mode; and by default it allows all VLANs on trunk port.

> • Limitation - Downgrade from Version 2.0.1.x to Version 2.0.0.x
>
> • As of version 2.0.1.x, the switch changes the default port mode from Trunk Port to Access Port. Configuration files containing default port mode cannot be maintained when downgrade to version 2.0.0.x and earlier.

Known Issues

Table 2: Caveats Acknowledged in Release V2.0.1.5

Number	Description
CSCvx77749	**Symptom** It takes 10 minutes to connect to CBD after correcting the mismatched CBD configuration on the switch. **Workaround** Issue CLI command "cbd reset" to reset the connection.
CSCvx77754	**Symptom** When modifying the CBD organization or network name on the switch, the connection to CBD manager is not disconnected. **Workaround** Issue CLI command "CBD reset" to reset the connection.

Resolved Issues

Table 3: Caveats Resolved in Release V2.1.0.5

Number	Description
CSCvx09227	**Symptom** Some phones may not receive proper VLAN assignment.
CSCvz39569	**Symptom** CBD Probe cannot reconnect to CBD manager after 30 days since the setup.
CSCvw24834	**Symptom** Management Access Method Profile Rule mask format issues.

Introduction

April 2021

This Release Note describes the recommended practices and known issues that apply to software version 2.0.0.17 for the Cisco Business 220 Series Switches that include the following models:

Model	Product Label
CBS220-8T-E-2G	10-Port Gigabit Smart Switch
CBS220-8P-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-8FP-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-16T-2G	18-Port Gigabit Smart Switch
CBS220-16P-2G	18-Port Gigabit PoE Smart Switch
CBS220-24T-4X	24-Port Gigabit Smart Switch
CBS220-24FP-4G	24-Port Gigabit PoE Smart Switch
CBS220-24P-4X	24-Port Gigabit PoE Smart Switch
CBS220-24FP-4X	24-Port Gigabit PoE Smart Switch
CBS220-48T-4X	48-Port Gigabit Smart Switch
CBS220-48P-4X	48-Port Gigabit PoE Smart Switch
CBS220-48FP-4X	48-Port Gigabit PoE Smart Switch
CBS220-24T-4G	24-Port Gigabit Smart Switch
CBS220-24P-4G	24-Port Gigabit PoE Smart Switch
CBS220-48T-4G	48-Port Gigabit Smart Switch
CBS220-48P-4G	48-Port Gigabit PoE Smart Switch

Resolved Issues

Table 4: Caveats Resolved in Release V2.0.0.17

Number	Description
CSCvx44876	**Symptom** Light memory leak when running PnP for a long time.
CSCvx44877	**Symptom** STP Loopback Guard functionality is missing on WEB GUI.
CSCvx44878	**Symptom** ACL fails to block DHCP packets if DHCP snooping is enabled.
CSCvx99239	**Symptom** Memory leak on CBD subscription actions.

Number	Description
CSCvx99245	**Symptom** PnP configuration template function is not working correctly.
CSCvx99248	**Symptom** Import configuration with user account which contain quote will add extra quotes.

Introduction

February 2021

This Release Note describes the recommended practices and known issues that apply to software version 2.0.0.13 for the Cisco Business 220 Series Switches that include the following models:

Model	Product Label
CBS220-8T-E-2G	10-Port Gigabit Smart Switch
CBS220-8P-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-8FP-E-2G	10-Port Gigabit PoE Smart Switch
CBS220-16T-2G	18-Port Gigabit Smart Switch
CBS220-16P-2G	18-Port Gigabit PoE Smart Switch
CBS220-24T-4X	24-Port Gigabit Smart Switch
CBS220-24P-4X	24-Port Gigabit PoE Smart Switch
CBS220-24FP-4X	24-Port Gigabit PoE Smart Switch
CBS220-48T-4X	48-Port Gigabit Smart Switch
CBS220-48P-4X	48-Port Gigabit PoE Smart Switch
CBS220-48FP-4X	48-Port Gigabit PoE Smart Switch
CBS220-24T-4G	24-Port Gigabit Smart Switch
CBS220-24P-4G	24-Port Gigabit PoE Smart Switch
CBS220-48T-4G	48-Port Gigabit Smart Switch
CBS220-48P-4G	48-Port Gigabit PoE Smart Switch

What's New

1.1 Browser and OS Support

The device web UI supports the following browsers and OS system:

- Supported OS – MS Windows 7 (32 & 64 bit), MS Windows 10 (32 & 64 bit), MAC OS (not supported: MS Windows 8, 8.1, XP and Vista; Linux).

- Supported Browsers – Chrome, Firefox and Microsoft Edge (Microsoft Internet Explorer not supported) – both for Windows and for MAC OS; Safari – MAC OS only.

1.2 Web GUI Style

Cisco Business Switches support a new modern web UI style which provides better user experience compared to the web UI implemented on the Sx220 switches.

1.3 Password Complexity

For enhanced security, the user does not have the option to disable the password complexity setting. The password complexity is supported with the following default and ranges:

- Minimum length – range 8-64, default = 8

- Minimum class – range 1-4, default = 3

- Number of repeat characters– range 1-16, default = 3

- New passwords cannot match the current password.

- Passwords cannot reverse or repeat the username nor Cisco.

1.4 SSL Cipher Support

For enhanced security, support following Ciphers:

- TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (secp256r1)

- TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (secp256r1)

- TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (dh 1024)

- TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (dh 1024)

- TLS_RSA_WITH_AES_256_GCM_SHA384 (rsa 2048)

- TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (secp256r1)

- TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (dh 1024)

- TLS_DHE_RSA_WITH_AES_128_CBC_SHA (dh 1024)

- TLS_RSA_WITH_AES_128_GCM_SHA256 (rsa 2048)

- TLS_AES_256_GCM_SHA384

- TLS_CHACHA20_POLY1305_SHA256

- TLS_AES_128_GCM_SHA256

1.5 SSL Cipher Support

OpenSSL version 1.1.0l.

1.6 Password Encryption

In the current release, the user's credentials are salted and hashed using PBKDF2 based on HMAC-SHA-256 hash. This adds additional security to the credentials and protects them from various attacks.

Relevant credentials:

- Local database Password
- Enable password

1.7 Self-Signed Certificate Lifetime

- Default: 3652 days (i.e., 10 years)

1.8 PNP Client

The Cisco Plug-n-Play (PnP) solution reduces the costs associated with deployment/installation of network devices, increase the speed of their installation and reduce the complexity of deployments without compromising the security. User can perform Zero Touch Installs of the CBS220 in various deployment scenarios and deployment locations.

1.9 CBD Call Home Agent

With Cisco Business Dashboard (CBD) Call home agent, CBS 220 can be monitored and managed by CBD manager.

1.10 Tech Support

Through WEB GUI or CLI user can generate the diagnostic information from switch for troubleshooting.

1.11 Locate device

Through WEB GUI user can blink all ports' LEDs in front panel to locate device.

Known Issues

Table 5: Caveats Acknowledged in Release V2.0.0.13

Number	Description
CSCvx44873	**Symptom** Packet loss occurs in RFC 2889 Back Pressure test when sending jumbo frame. Issue happens when packet size is greater than 6144 bytes in 100Mbps speed or 5120 bytes in 1Gbps speed. **Workaround** None.

Number	Description
CSCvx44875	**Symptom** RSPAN destination port always receives double broadcast/multicast packets if source port send broadcast/multicast packets. **Workaround** None.
CSCvx44876	**Symptom** Light memory leak when running PnP for a long time. **Workaround** Disable PnP agent.
CSCvx44877	**Symptom** STP Loopback Guard functionality is missing on WEB GUI. **Workaround** Configure it via CLI.
CSCvx44878	**Symptom** ACL fails to block DHCP packets if DHCP snooping is enabled. **Workaround** None.
CSCvx44879	**Symptom** PNP agent cannot connect manager via ipv6 link-local address. **Workaround** Use IPv4 unicast or IPv6 global unicast address.

Cisco Business Online Support

For current support information, visit the pages given below:

Cisco Business	
Cisco Business Home	http://www.cisco.com/go/ciscobusiness
Support	
Cisco Business Support Community	http://www.cisco.com/go/cbcommunity
Cisco Business Support and Resources	http://www.cisco.com/go/smallbizhelp
Cisco Business Phone Support	http://www.cisco.com/go/cbphone
Cisco Business Chat Support	http://www.cisco.com/go/cbchat

Cisco Business	
Cisco Business Firmware Downloads	http://www.cisco.com/go/smallbizfirmware Select a link to download the firmware for your Cisco product. No login is required.
Cisco Business Open Source Requests	If you wish to receive a copy of the source code to which you are entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please send your request to: external-opensource-requests@cisco.com. In your request, please include the Cisco product name, version, and the 18 digit reference number (for example: 7XEEX17D99-3X49X08 1) found in the product open source documentation.