

# Release Notes for SF250, SG250, SF350, SG350, SG350X, SG350XG, SF550X, SG550X, and SG550XG Series Switches Software Version 2.2.0.63

**September 7, 2016**

These Release Notes describe the recommended practices and known issues that apply to software version 2.2.0.63 for the products listed in the following table:

Model	Description	Ports
<b>SF250-48</b>	SF250-48 48-Port 10/100 Smart Switch	fa1-fa48, gi1-gi4
<b>SF250-48HP</b>	SF250-48HP 48-Port 10/100 PoE Smart Switch	fa1-fa48, gi1-gi4
<b>SG250-10P</b>	SG250-10P 10-Port Gigabit PoE Smart Switch	gi1-gi10
<b>SG250-26</b>	SG250-26 26-Port Gigabit Smart Switch	gi1-gi26
<b>SG250-26HP</b>	SG250-26HP 26-Port Gigabit PoE Smart Switch	gi1-gi26
<b>SG250-26P</b>	SG250-26P 26-Port Gigabit PoE Smart Switch	gi1-gi26
<b>SF350-48</b>	SF350-48 48-Port 10/100 Managed Switch	fa1-fa48, gi1-gi4
<b>SF350-48P</b>	SF350-48P 48-Port 10/100 PoE Managed Switch	fa1-fa48, gi1-gi4

## Release Notes

<b>Model</b>	<b>Description</b>	<b>Ports</b>
<b>SF350-48MP</b>	SF350-48MP 48-Port 10/100 PoE Managed Switch	fa1-fa48, gi1-gi4
<b>SG350-10</b>	10-Port Gigabit Managed Switch	gi1-gi10
<b>SG350-10P</b>	10-Port Gigabit PoE Managed Switch	gi1-gi10
<b>SG355-10P</b>	10-Port Gigabit PoE Managed Switch	gi1-gi10
<b>SG350-10MP</b>	10-Port Gigabit PoE Managed Switch	gi1-gi10
<b>SG350-28</b>	28-Port Gigabit Managed Switch	gi1-gi28
<b>SG350-28P</b>	28-Port Gigabit PoE Managed Switch	gi1-gi28
<b>SG350-28MP</b>	28-Port Gigabit PoE Managed Switch	gi1-gi28
<b>SG550XG-8F8T</b>	16-Port 10G Stackable Managed Switch	te1-te16
<b>SG550XG-24T</b>	24-Port 10GBase-T Stackable Managed Switch	te1-te24
<b>SG550XG-48T</b>	48-Port 10GBase-T Stackable Managed Switch	te1-te48
<b>SG550XG-24F</b>	24-Port 10G SFP+ Stackable Managed Switch	te1-te24
<b>SG350XG-24F</b>	24-Port 10G SFP+ Stackable Managed Switch	te1-te24
<b>SG350XG-24T</b>	24-Port 10GBase-T Stackable Managed Switch	te1-te24
<b>SG350XG-48T</b>	48-Port 10GBase-T Stackable Managed Switch	te1-te48
<b>SG350XG-2F10</b>	12-Port 10G Stackable Managed Switch	te1-te12

## Contents

**What's New in this Release, page 3**

**Issues Resolved, page 4**

**Known Issues, page 4**

**Where to Find Support, page 11**

## What's New in this Release

- Support for 10G SFP+ modules—SFP-10G-SR-S= and SFP-10G-LR-S= SFP+ modules are now supported on SG350X, SG350XG, SF550X, SG550X, and SG550XG series switches.
- Err disable port recovery using shutdown/no shutdown command—The shutdown/ no shutdown command (and the equivalent operation in the GUI) can be used to recover interfaces that are in the err-disable state.
- RSPAN (Remote Switched Port Analyzer)—RSPAN allows you to define a mirroring session in which the source ports are on a certain switch while the target/analyzer port resides on a different switch. In this way, you can centralize SPAN activity from multiple switches to a single target switch. RSPAN operation mirrors the traffic from the source ports of an RSPAN session onto a VLAN that is dedicated for the RSPAN session. RSPAN VLAN allows forwarding the mirrored traffic across multiple switches to the switch that contains the destination port.
- Policy based routing (or policy routing)—A routing based on a packet contents rather than on the obvious shortest path. A policy based route is defined by creating an ACL that matches the required criteria and then implementing the ACL as part of a route map with the desired next hop.
- Embedded RADIUS server—The switch can be configured as a RADIUS server. The RADIUS server supports functionalities that are required by the RADIUS client on Cisco Small Business switch: Authorization and accounting of login and 802.1x user.
- SSH client—Allows you to use a certain switch for SSH management of other switches in the network. This capability is especially useful when there is no connectivity from the management station to some of the switches in the network.

## Release Notes

---

- PoE budget setting based on RPS slot information—When a device is powered by RPS, the PoE budget is set based on the power that the RPS can provide.
- Web auto refresh after reboot—If a device is reloaded via the GUI management interface, the web page is automatically redirected after it reloads to allow a user to log in to device. A progress bar indicates status of reload.

## Issues Resolved

No issues resolved in this release.

## Known Issues

### Open Bugs in Software Version 2.2.0.63

This section lists that bugs that are acknowledged in software version 2.2.0.63:

**Table 1 Open Bugs in Software Version 2.2.0.63**

Bug ID	Description
CSCuy97777	<p><b>Symptom:</b> After reload, the actual spanning tree cost of port-channel is different with running-config.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCuy97791	<p><b>Symptom:</b> When STP cost path is equal, Port channel is always selected as root port even if it has a higher priority value.</p> <p><b>Workaround:</b> STP still functions properly and no loops are created. If needed, use cost setting to change the root port.</p>
CSCuy97837	<p><b>Symptom:</b> On dashboard, the port rx Traffic Error indication shows in red even though the interface counter and rmon statistics of proper ports were cleared.</p> <p><b>Workaround:</b> There is no workaround.</p>

Table 1 Open Bugs in Software Version 2.2.0.63 (Continued)

Bug ID	Description
CSCuz01765	<p><b>Symptom:</b> Some revisions of the Cisco IP Phone 7960 cannot be powered up on switch 60W ports.</p> <p><b>Workaround:</b> This issue occurs due to a short between phone pins. Connect phone to af/at ports or use Cat 3 cable (2 pairs) to connect a phone to a 60W port.</p>
CSCuy97915	<p><b>Symptom:</b> Cannot change XG port setting to “disable negotiation” and set speed at the same time via the GUI.</p> <p><b>Workaround:</b> First disable negotiation and click <b>Apply</b>, then change speed and click <b>Apply</b>.</p>
CSCuy97943	<p><b>Symptom:</b> In some cases, master unit reloads if stack unit type is changed from fixed to auto.</p> <p><b>Workaround:</b> Occurs only if stack units are reloaded twice. Stack stabilizes following master reload.</p>
CSCuy97946	<p><b>Symptom:</b> DHCPv6 relay does not work if destination is set to tunnel interface.</p> <p><b>Workaround:</b> Use IPv6 Global destination address as DHCPv6 destination.</p>
CSCuy97999	<p><b>Symptom:</b> When using web based authentication and device DHCP server, unauthenticated station IP address is not expired after station is sent DHCP release.</p> <p><b>Workaround:</b> Wait until the IP address expires after full lease expiration.</p>
CSCuz45730	<p><b>Symptom:</b> When negotiating 60W PoE with Cisco PD switches, Cisco PoE-PSE switches sometimes are not able to provide 60W and provide 30W only.</p> <p><b>Workaround:</b> Connect PD switch to PSE switch before PSE switch boot up. Or disconnect then connect PD switch when issue happens. Or use static 60 watt.</p>

## Open Bugs in Software Version 2.1.0

This section lists that bugs that are acknowledged in software version 2.2.0.63:

**Table 2 Open Bugs in Software Version 2.1.0**

Bug ID	Description
CSCux77649	<p><b>Symptom:</b> When connecting a switch to a Cisco Catalyst compact UPOE PD device, LLDP may not negotiate power on AT / AF ports.</p> <p><b>Workaround:</b> Use CDP to negotiate.</p>
CSCux77651	<p><b>Symptom:</b> When applying policer on ingress interface and sending traffic with multiple priority may result in dropping of higher priority traffic on lower speed egress ports.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCux77654	<p><b>Symptom:</b> Egress ACL cannot be applied to an interface if ACE includes TCP/UDP port range as a parameter.</p> <p><b>Symptom:</b> Apply required TCP/UDP ports as individual ports in ACL, or apply a range as ingress ACL on relevant interfaces.</p>
CSCux77675	<p><b>Symptom:</b> Aggregate policer QoS statistic always display a value of 0 for both in and out of profile counters.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCux89410	<p><b>Symptom:</b> PVID is enabled on an interface when membership type is set to forbidden via the GUI. Interface functionality is not affected. The port still blocks traffic for the relevant VLAN.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCux89413	<p><b>Symptom:</b> Auto SmartMacro—In some cases, the interface is set to BPDU guard err-disable state after replacing the device connected to the interface from a phone/desktop to switch.</p> <p><b>Workaround:</b> Either disable persistent setting on the interface, or, after the issue occurs, remove the desktop/phone macro from the interface, reactivate the port, and then connect the switch to the interface.</p>

Table 2 Open Bugs in Software Version 2.1.0 (Continued)

Bug ID	Description
CSCux89418	<p><b>Symptom:</b> When connecting Sx350P as PD to Sx300P/Sx500P as PSE, Sx350P reboots when disconnecting AC power. After rebooting, Sx350P powers up and functions as expected.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCux89582	<p><b>Symptom:</b> Interface is suspended (down) when connecting a copper SFP (MGBT1/GLC-T SFP) with no cable. This issue happens when inserting uplink GE ports (for example, gi3 or gi4) of Sx350/Sx250 or to XG network ports.</p> <p><b>Workaround:</b> To prevent interface suspension, insert the cable to SFP before inserting SFP to port. If port is already in suspended state, insert the cable into SFP and then activate the suspended port, and the port moves to up state.</p>
CSCux89585	<p><b>Symptom:</b> If CDP and LLDP are both enabled on a port, disabling one of them may cause the remaining protocol PoE negotiation to fail.</p> <p><b>Workaround:</b> Do not enable both CDP and LLDP power negotiation at the same time. If the issue occurs, disconnect and then reconnect cable to PD.</p>
CSCux89597	<p><b>Symptom:</b> In port limit mode, the default admin power limit value for all types of ports (AF, AT, and 60W PoE) is 30 watts.</p> <p><b>Workaround:</b> Manually set a limit of 60 watts if needed.</p>
CSCux89611	<p><b>Symptom:</b> Power negotiation for 60W PoE via LLDP may take up to 1 minute to complete.</p> <p><b>Symptom:</b> There is no workaround.</p>
CSCux89626	<p><b>Symptom:</b> When connecting 60W PD to switch, in some cases power indication on switch is higher than 60W. This bug is a display issue. Actual PD consumption is 60W</p> <p><b>Workaround:</b> There is no workaround.</p>

### Open Bugs in Software Version 2.0.0

This section lists that bugs that are acknowledged in software version 2.0.0.

**Table 3 Open Bugs in Software Version 2.0.0**

Bug ID	Description
CSCuq03628	<p><b>Symptom:</b> An ISATAP client sends RS packets only when the tunnel interface is disabled and then enabled.</p> <p><b>Workaround:</b> As long as the tunnel endpoints are both SG350XG/ SG550XG, the tunnel works. In mixed devices applications, manually disable and enable the tunnel interface.</p>
CSCur86883	<p><b>Symptom:</b> When using the web-based configuration interface to set up queue scheduling, you may have a lengthy response time if the system includes a stack of four or more units.</p> <p><b>Workaround:</b> After about one minute, the web-based configuration interface becomes responsive again, and the setting takes effect. Use the command line interface (CLI) commands for a quicker response time</p>
CSCuu60952	<p><b>Symptom:</b> When changing an ACE action using the configuration interface, (for example, from deny to shutdown) ACE may be removed from the ACL.</p> <p><b>Workaround:</b> Reconfigure the ACE, or use the CLI to remove the ACE and then configure it with the new action.</p>
CSCuu60958	<p><b>Symptom:</b> When configuring a MAC ACE using the web-based configuration interface, creation of new ACE may fail with an error message of “Entry Already Exists,” even though it does not exist.</p> <p><b>Workaround:</b> Configure the ACE again and it will be accepted, or use the CLI to configure the ACE.</p>
CSCuu60983	<p><b>Symptom:</b> If VRRP is enabled on a device, DHCP relay using Option 82 fails.</p> <p><b>Workaround:</b> If VRRP is enabled on device, use DHCP relay without activating Option 82.</p>



Table 3 Open Bugs in Software Version 2.0.0 (Continued)

Bug ID	Description
CSCuu60986	<p><b>Symptom:</b> When enabling flow control on the LAG using the user interface, the port LEDs will not light even if link is up.</p> <p><b>Workaround:</b> This bug is a LED display issue. The functions work as expected. If needed, enable flow control using the command line interface.</p>
CSCuu60989 CSCuu61046	<p><b>Symptom:</b> Enabling an 802.1X guest VLAN or a Voice VLAN on a port is forbidden, if the port is a static member of the VLAN and it is in switchport mode (including inactive modes).</p> <p><b>Workaround:</b> Change the port VLAN membership that use switchport modes so that the port is not a static member in the desired VLAN.</p> <p><b>NOTE</b> In switchport mode Trunk, the port is a member of all the VLANs by default. Remove the membership in the desired VLANs, or in all VLANs, prior to configuring the 802.1X guest VLAN or the Voice VLAN.</p>
CSCuu61008	<p><b>Symptom:</b> Agreed Auto Voice VLAN cannot be defined as a primary VLAN, even after the voice VLAN is disabled.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCuu61061	<p><b>Symptom:</b> If short reach is enabled on a port, the cable length test using a Cat6a cable fails.</p> <p><b>Workaround:</b> Disable short reach when running the cable length test on an interface.</p>
CSCuu61080	<p><b>Symptom:</b> DHCP router option (Option 3) is sent by the switch DHCP server, even if the option is not configured for this pool.</p> <p><b>Workaround:</b> There is no workaround.</p>
CSCuu61084	<p><b>Symptom:</b> IPv6 Routes always display a metric value of "0".</p> <p><b>Workaround:</b> This bug is a display issue. The correct metric is used for IPv6 L3 forwarding decisions.</p>

**Table 3 Open Bugs in Software Version 2.0.0 (Continued)**

Bug ID	Description
CSCuu61088	<p><b>Symptom:</b> The <b>show qos interface</b> command displays info for interfaces that are not present.</p> <p><b>Workaround:</b> This bug is a display issue only.</p>
CSCuu61100	<p><b>Symptom:</b> Link partner shows that the link is up, even if the device interface is administratively shut down.</p> <p><b>Workaround:</b> This bug is a display issue. The link is actually down and does not forward traffic.</p>
CSCuu61125	<p><b>Symptom:</b> The <b>show VLAN</b> command, for VLAN 1, shows non-present interfaces (port and stack units).</p> <p><b>Workaround:</b> This bug is a display issue only.</p>
CSCuu65516	<p><b>Symptom:</b> If a language file fails to download (for example, due to a network problem), your Internet browser may display “incomplete/error information.”</p> <p><b>Workaround:</b> Delete your browser cookies and try again. The device can still be managed using Telnet.</p>
CSCuu65557	<p><b>Symptom:</b> If the management session is using the device’s IPv6 address, and this is a secure session (HTTPS), the device cannot be managed using the Safari browser.</p> <p><b>Workaround:</b> Either use a different browser (such as Internet Explorer) or set up an insecure session (HTTP).</p>
CSCuu65577	<p><b>Symptom:</b> When using the web-based configuration interface to set a new keychain for RIP, include an accept-lifetime. If you don’t include an accept-lifetime, the configuration doesn’t take effect.</p> <p><b>Workaround:</b> Use a CLI to enter the keychain, or on the user interface, enter both an accept lifetime and a send lifetime.</p>

Table 3 Open Bugs in Software Version 2.0.0 (Continued)

Bug ID	Description
CSCuu65593	<p><b>Symptom:</b> On fiber-only ports, negotiation is always enabled; however, the show command displays negotiation as disabled. If the link partner's negotiation is disabled, the link might not come up.</p> <p><b>Workaround:</b> Verify that the link partner's negotiation is enabled.</p>
CSCuu65595	<p><b>Symptom:</b> MLD Snooping mode on IP v6 inter faces is always (*, G), even if you set the mode to (S, G).</p> <p><b>Workaround:</b> There is no workaround</p>

## Where to Find Support

For current support information, visit the following URLs:

[www.cisco.com/c/en/us/support/switches/550x-series-stackable-managed-switches/tsd-products-support-series-home.html](http://www.cisco.com/c/en/us/support/switches/550x-series-stackable-managed-switches/tsd-products-support-series-home.html)

[www.cisco.com/c/en/us/support/switches/350x-series-stackable-managed-switches/tsd-products-support-series-home.html](http://www.cisco.com/c/en/us/support/switches/350x-series-stackable-managed-switches/tsd-products-support-series-home.html)

[www.cisco.com/c/en/us/support/switches/350-series-managed-switches/tsd-products-support-series-home.html](http://www.cisco.com/c/en/us/support/switches/350-series-managed-switches/tsd-products-support-series-home.html)

[www.cisco.com/c/en/us/support/switches/250-series-smart-switches/tsd-products-support-series-home.html](http://www.cisco.com/c/en/us/support/switches/250-series-smart-switches/tsd-products-support-series-home.html)

[www.cisco.com/go/smallbizsupport](http://www.cisco.com/go/smallbizsupport)

## Release Notes

---

---

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

© 2016 Cisco Systems, Inc. All rights reserved.