



# Dell™ PowerConnect™ 6024/6024F

## PowerConnect 6024/6024F Ethernet Routing Switch Release Notes

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**Release Notes Version: 2/2.0.0.1/1.0.0.13**

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# PowerConnect 6024/6024F Release Notes

## Introduction

This document provides information for the specific versions of the following items:

- 1) Dell PowerConnect 6024/6024F Systems Getting Started Guide.
- 2) Dell PowerConnect 6024/6024F Systems User's Guide.
- 3) Dell PowerConnect 6024/6024F Systems CLI Reference Guide.
- 4) Dell PowerConnect 6024/6024F Ethernet Routing Switch system firmware.

Read the release notes thoroughly before installing or upgrading this product.

## Global Support

For information on the latest available firmware for Dell PowerConnect 6024/6024F Ethernet Routing Switch; recent release notes revisions; Management Information Base (MIB) files; user documentation; and for additional assistance, please visit the Dell support Web site at <http://support.dell.com>

## User Documentation Specifications

### User Documentation Version Detail

| Name of the User Document                                  | Version Information               |
|--|-----------------------------------|
| Dell PowerConnect 6024/6024F Systems Getting Started Guide | January 2005, P/N N5382, Rev. A01 |
| Dell PowerConnect 6024/6024F Systems User's Guide          | January 2005, Rev. A03            |
| Dell PowerConnect 6024/6024F Systems CLI Reference Guide   | January 2005, Rev. A03            |

## System Firmware Specifications

### System Firmware Version Details

| Name of the Boot Code Image | Version No. | Release Date    |
|-----------------------------|-------------|-----------------|
| 6024x6024F-boot-v10013.rfb  | 1.0.0.13    | February , 2004 |

| Name of the Main Software Application Program Image | Version No. | Release Date |
|---|-------------|--------------|
| 6024x6024F-sw-v2001.ros                             | 2.0.0.1     | April, 2005  |

Please see *Dell PowerConnect 6024/6024F Systems User's Guide* for instructions on updating the system firmware.

### Supported Firmware Functionality

Please see the Dell PowerConnect 6024/6024F Systems User's Guide, for details regarding the PowerConnect 6024/6024F system functionalities.

## Hardware Versions Supported by This Release of the Firmware

PowerConnect 6024/6024F hardware version 00.01.64



## PowerConnect 6024/6024F Release Notes

**NOTE: Dell PowerConnect 6024/6024F Ethernet Routing Switch is referred to as “the device” hereafter.**

### Added Functionality in This Release of the Firmware

Version 2.0.0.1 of the software application program is the second release of the system software for the device. It fixes several defects found in the previous version of the firmware and adds some new functionality to the product. The functions include: auto negotiation advertised capabilities, protected port (private VLAN edge port), SNMPv3, enhanced port mirroring, Multiple Spanning Tree Protocol (MSTP), TACACS+, 802.1x port-based authentication, Simple Network Time Protocol (SNTP), traceroute utility, telnet client, DNS client, and an easy set-up wizard. Please see the Dell PowerConnect 6024/6024F Systems User's Guide for further details.

### Important Notes on Firmware Installation (Upgrade and Downgrade)

Compatibility is critical for all firmware upgrades and downgrades. The start-up configuration file created by the older version 1.0.2.7 of the software application is compatible with the new software application version 2.0.0.1. The reverse is not true.

Please execute the following steps in order to **upgrade** the system to the software application version 2.0.0.1:

- 1) Transfer the new software application image via TFTP and set it as the system image that the device will load at startup (for further details, consult the User's Guide).
- 2) *[Follow this step only if you intend to use SSH]* Re-generate RSA and DSA key pairs using the CLI commands "crypto key generate rsa" and "crypto key generate dsa".
- 3) *[Follow this step only if you intend to use HTTPS]* Re-generate HTTPS crypto certificate using the CLI command "crypto certificate [number] generate".

Please note that the keys and certificates are not explicitly stored in the running and/or start-up configuration files. The certificates and keys are stored in the hidden configuration file residing in the flash memory of the device. One can view them using the CLI commands "crypto certificate request" and "show crypto key".

One can **downgrade** the software application version 2.0.0.1 to the version 1.0.2.7, but the start-up configuration file must be erased. Please execute the following steps in order to downgrade the software application version 2.0.0.1 to the version 1.0.2.7:

- 1) Save the start-up configuration file by transferring it from the device to a management computer system via TFTP.
- 2) Edit the transferred configuration file as to remove configuration items applicable to the new system features implemented in the software application version 2.0.0.1 (that is, the features not found in the older software application version 1.0.2.7).
- 3) Erase the start-up configuration file in the device using "delete startup-config" CLI command.
- 4) Transfer the old version 1.0.2.7 of software application image via TFTP and set it as the system image that the device will load at startup (for further details, consult the User's Guide).
- 5) Reboot the device.
- 6) Perform the initial configuration of the device.
- 7) Copy the edited configuration file from the management computer system back into the device via TFTP.

The above procedure is necessary because the configuration objects corresponding to the new system features added in the software application version 2.0.0.1 will not be recognized by the older version 1.0.2.7. If such objects are encountered by the older version 1.0.2.7 in the start-up configuration file, the latter will crash and reboot the device.

Please note that if you downgraded the device to the software application version 1.0.2.7 without following the above steps you may experience continuous system crashing and rebooting. If that happens you must use Startup menu to erase the start-up configuration file using "Erase Flash File" menu. In this case your start-up configuration file will be permanently lost.



## Issues Resolved in This Release of the Firmware

| ID and Title   | Description  | Resolution   |
|--|--|--|
| <b>RN-16647-R-009. Selecting the direction of the traffic to be mirrored to the target monitoring port.</b>  | There is no option to select the direction of the monitored traffic on a port. Both incoming and outgoing packets traveling through the monitored port are copied to the target monitoring port.   | This option exists in this firmware release.   |
| <b>RN-17597-R-192. Copying and pasting groups of CLI commands into CLI session.</b>  | The input/output mechanism of the device CLI interface will not correctly process a large group of commands pasted into the terminal window running a CLI session via terminal emulator program, SSH client program, or telnet client program. Please avoid copying and pasting the groups of CLI commands.<br>We recommend that you save the CLI commands into a temporary file and then copy the file into the running configuration of the device. For this purpose please install the TFTP network server on your management workstation and then use the " <i>copy tftp://[toob]/&lt;ip-address&gt;/&lt;file-name&gt; running-config</i> " CLI command to transfer the file into the device. Upon the successful download of the file, the commands contained in the file are merged with the running configuration file of the device. | This firmware release supports copying and pasting, groups of CLI commands into a CLI session.                                       |
| <b>RN-17941-18902-19130-19133-19134-R-210. Web Interface inefficiency in handling large tables with user controls.</b>                                   | It may take a Web browser a long time to process the HTML/JavaScript Web pages that encode large configuration tables with user controls (the embedded Web server of the device generates the HTML/JavaScript screens and then sends them to the Web browser for rendering).   | Typically, large tables now support a "Next Page" mechanism.   |
| <b>RN-19034-P-239. The default setting of the "Route Type" in the "Router -&gt; Global Routing Parameters -&gt; IP Static Route" Web interface page.</b> | The setting of the "Route Type" in the "Router -> Global Routing Parameters -> IP Static Route" Web interface page should default to "Remote" instead of "Reject".   | The default setting for the "Route Type" is now "Remote".  |
| <b>RN-19775-19776-P-240. Usage of the CLI commands "<i>ip http(s) port 0</i>"</b>  | Do not use the CLI commands " <i>ip http port 0</i> " and " <i>ip https port 0</i> ", as they will effectively disable the operation of the HTTP or HTTPS Web server of the device.  | The ranges for ip http port and ip https port are changed, so that 0 cannot be configured.   |
| <b>RN-12204-16699-R-080. The behavior of the "<i>show {running startup backup}-config</i>" CLI commands.</b>   | If the device was never configured before and is in the same state as when you received it, then the " <i>show {running startup backup}-config</i> " CLI commands will not display the default system configuration even though the device comes already configured with some default parameters.<br>At present the above commands do not output the default system configuration.   | Default values of important system parameters are shown when displaying the running configuration or the startup configuration file. |
| <b>RN-14516-R-089. Web interface has no controls to configure the STP BPDUs filtering option.</b>  | When Spanning Tree is disabled on a given interface, all packets are flooded, by default. Filtering STP BPDUs may be useful when a bridge interconnects two regions and there is a need to have a separate spanning tree for each region. Filtering the BPDU in the bridge connecting the two regions will serve this purpose. Therefore, you can configure packets to be filtered, using the CLI. The controls to perform this operation are absent in the Web Interface. Please use the CLI interface to configure STP BPDU filtering or flooding on an interface.   | STP BPDU is configurable.  |



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| ID and Title  | Description   | Resolution   |
|---|---|--|
| <p><b>RN-15531-15292-R-076. The pings with the packet size larger than 1700 bytes are not answered by the device.</b></p> | <p>At present, the router interface of the device will not answer the pings with the packet size greater than 1700 bytes due to a limitation in the implementation of the fragmented large frame reassembly mechanism. When a ping is sent, a trap will be sent to the sender.<br/>The standard requires support for ping packets as large as 65500 bytes. Please note, however, that the fragmented frames, though allowed by the standard, are not very common, and are considered the frequent cause of network device problems.</p>                             | <p>It is possible to receive large ping packets.</p>   |
| <p><b>RN-16640-10889-R-010. All packets sent from the monitoring port are always tagged.</b></p>                          | <p>At present the device tags every packet transmitted from the mirroring target port even if the packet was received untagged on the mirrored source port. This includes packets in the default VLAN 1.</p>  | <p>It is possible to configure whether mirrored packets are transmitted: tagged or untagged.</p>                             |
| <p><b>RN-16741-16649-R-138. Viewing the port role information of the Rapid Spanning Tree Protocol.</b></p>                | <p>The device has no CLI or the Web interface controls, which would allow viewing the port role information (i.e. assignment and role transitions for the DisabledPort, RootPort, DesignatedPort, AlternatePort, or BackupPort port roles) of the Rapid Spanning Tree Protocol (RSTP).<br/>The information regarding port states (Blocking / Listening / Learning / Forwarding states) and transitions between states can still be viewed via a) CLI exec mode command “<i>show spanning-tree</i>” and b) the Web interface “Switch -&gt; Spanning Tree” pages.</p> | <p>It is possible to view the role information of RSTP.</p>  |
| <p><b>RN-16857-R-071. The limitations of SSL.</b></p>   | <ul style="list-style-type: none"> <li>* The device supports SSL Version 3.0 and above and does not support SSL Version 2.0</li> <li>* The certificates are created by the system software controlling the device and are not VeriSign approved. The SSL certificates can be created manually through an appropriate CLI command.</li> <li>* The maximum number of SSL sessions is 12.</li> <li>* The maximum number of Web HTTPS user connections is 3.</li> </ul>   | <p>SSL certificates can be created manually, or imported.<br/>Other limitations are described in the user documentation.</p> |
| <p><b>RN-20095-P-218. The number of supported IP Multicast groups.</b></p>  | <p>The device supports the maximum of 128 IGMP groups at present.</p>   | <p>The device now supports up to 256 IGMP groups.</p>  |
| <p><b>RN-20480-19459-P-227. Configuring in-band and out-of-band remote log servers.</b></p>                               | <p>The device allows configuring a remote log server on both the in-band and out-of-band interfaces. Adding both in-band and out-of-band remote log servers via the Web interface will succeed (given, of course, that the entered settings were valid). However, attempting to configure both out-of-band and in-band remote log servers via the CLI interface will result in an error.</p>  | <p>Out-of-band and in-band remote log servers are configurable both using the CLI and the Web Based Interface.</p>           |
| <p><b>RN-20127-P-242. The default OSPF stub metric.</b></p>   | <p>By default, the device had assigned the OSPF stub metric the value of 16777214.</p>  | <p>This problem has been fixed in the latest software version, so that the default is explicitly set to 1.</p>               |

## PowerConnect 6024/6024F Release Notes

| ID and Title   | Description  | Resolution   |
|--|--|--|
| <b>RN-18245-P-243. Reordering of the ACEs in an ACL.</b>   | <p>An Access Control List (ACL) consists of rules, called Access Control Elements (ACE). The device Web interface controls allow reordering of the ACEs in an ACL. However, only unused priority (index) numbers can be used for this purpose as assigning a priority number already used in one ACE to another ACE overwrites the first ACE. Please always use only unused priority indexes when renumbering the ACEs. Please note that ACEs cannot be reordered using the CLI interface.</p>   | <p>It is possible to configure priority using the WBI.</p>   |
| <b>RN-17098-P-230. Modifying the running configuration file while it is being displayed.</b>                   | <p>The device does not allow you to perform the operation that modifies the running configuration file while it is being displayed (using the <i>"show running-config command"</i>). This protection is necessary in order to prevent the inconsistencies in the running configuration file. When you attempt to modify the running configuration of the device, a notification is sent to another user displaying the running configuration file at the same time..</p>   | <p>User can perform operations while displaying running configuration file.</p>  |
| <b>RN-18759-18957-P-233. The maximum number of IP interfaces supported on the out-of-band management port.</b> | <p>The device supports up to 100 IP interfaces on the out-of-band (OOB) management port. However, it is highly recommended not to define more than 5 IP interfaces on the OOB management port.</p>   | <p>This is noted in the User documentation. New limitation is that user can define only 5 IP interfaces on OOB port.</p>                                 |
| <b>RN-00000-R-006. The auto-negotiation and the advertisement of maximum port capabilities.</b>                | <p>The device supports auto-negotiation, which allows ports to auto-negotiate port speed duplex-mode (only at 10 Mbps and 100 Mbps since ports operating at 1000 Mbps support full duplex mode only) and flow control. When auto-negotiation is enabled (default), a port "advertises" its maximum capabilities. These capabilities are by default the parameters that provide the highest performance supported by the port. At present, the device does not allow modifying the capabilities that a port "advertises" on a per port basis, i.e. all device ports advertise their maximum capabilities. Please note that in order for auto-negotiation to work, ports at both ends of the link must be set to auto-negotiate.</p> | <p>This fix to the user documentation is no longer relevant, because this feature is now supported (already added above to new features description)</p> |
| <b>RN-18990-P-235. Correction of the Port Mirroring Web interface help screen.</b>                             | <p>The help page for the "Switch -&gt; Ports -&gt; Port Mirroring" Web interface page is incorrect and should read as follows:<br/>                     Status - Indicates the port state.<br/>                     The possible field values are:<br/>                     * Not Ready - Indicates that the port is not currently being monitored.<br/>                     * Active - Indicates that the port is currently being monitored.</p>  | <p>Text corrected in the help page and the User Guide.</p>   |
| <b>RN-19003-P-236. Correction of the Storm Control Web interface help screen.</b>                              | <p>The device implements the packet storm control mechanism. However, the device does not support setting the maximum rate of unknown frames. Disregard the information in the help screen of the "Switch -&gt; Ports -&gt; Storm Control" Web interface page related to the unknown packets.</p>  | <p>Text has been fixed in the help page and in the User Guide.</p>   |

## PowerConnect 6024/6024F Release Notes

| ID and Title   | Description  | Resolution    |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
|--|--|---------------|--------------------|--------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|--|
| <p><b>RN-11066-11896-F-056. The QoS mode: marking of the DSCP.</b></p> | <p>In the Quality of Service (QoS) mode, the user may configure the system to use the IP Differentiated Services Code Point (DSCP) of the incoming packet to map the packet to the output priority queues. Please note that when the device maps IP DSCP to priority queue, the original VLAN Priority TAG (VPT) is not kept and the VPT value is set to 0. Because the DSCP to queue table determines the queue assignment in the device, 8 DSCP codes are reserved for enabling the mapping to the 8 available queues. For this purpose 8 DSCP values are reserved and will not be available for user mapping. These DSCP values will always be mapped to the following output queues (user cannot change the values):</p> <table border="1" data-bbox="571 698 904 981"> <thead> <tr> <th>Reserved DSCP</th> <th>Fixed output queue</th> </tr> </thead> <tbody> <tr><td>DSCP 3</td><td>q1</td></tr> <tr><td>DSCP 11</td><td>q2</td></tr> <tr><td>DSCP 19</td><td>q3</td></tr> <tr><td>DSCP 27</td><td>q4</td></tr> <tr><td>DSCP 35</td><td>q5</td></tr> <tr><td>DSCP 43</td><td>q6</td></tr> <tr><td>DSCP 51</td><td>q7</td></tr> <tr><td>DSCP 59</td><td>q8</td></tr> </tbody> </table> <p>Packets may be marked with the queue's DSCP, even if the mapping was not selected, instead of preserving the original DSCP. This occurs on reserved queues.</p> | Reserved DSCP | Fixed output queue | DSCP 3 | q1 | DSCP 11 | q2 | DSCP 19 | q3 | DSCP 27 | q4 | DSCP 35 | q5 | DSCP 43 | q6 | DSCP 51 | q7 | DSCP 59 | q8 | <p>Text has been fixed in the help page and in the User Guide.</p> |
| Reserved DSCP  | Fixed output queue   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 3   | q1   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 11  | q2   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 19  | q3   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 27  | q4   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 35  | q5   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 43  | q6   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 51  | q7   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |
| DSCP 59  | q8   |               |                    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |  |

### Corrections and Additions to the User's Guide

| Web Screen / Section in Guide                                  | Description of Change   |
|--|---|
| <p><b>RN-CA-UG-01. Advanced Configuration</b></p>              | <p>The in-band ports of the Vesuvio are router ports. Therefore, when an interface is defined on the in-band ports (or VLAN of which they are members), no default-gateway is configured. After dynamic assignment of the IP interface, manually assign a default route.</p>  |
| <p><b>RN-CA-UG-02. DHCP IP Interface</b></p>                   | <p>The in-band ports of the routing switch are potentially routing ports. Therefore, when an interface is defined on the in-band ports (or VLAN of which they are members), no default-gateway is configured. After dynamic assignment of the IP interface, manually assign a default route.</p>  |
| <p><b>RN-CA-UG-03. SNMP Access Control Group Settings.</b></p> | <p>The index of the group name table consists of Group Name, Security Model, and Security Level. Different views for the same group can be defined with different security levels. Thus, for example, after having created the appropriate views, a group can be created for which "no authentication" is required, while allowing only notification view for "interfaces". A group of the same name can be created for which "priv" authentication is required. For example, you can configure Read views for this group for mib2, and write views for interfaces. In this case, users in this group who send "priv" packets can modify all "interfaces" MIBs and view all mib2.</p> |

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| <b>RN-CA-UG-04. The functioning of BootP</b>     | <p>The device incorporates BootP and DHCP clients that solicit an IP address to use as the system IP address on each interface. The BootP client is operational on system startup only if no IP interface is defined and DHCP client is not configured to work. This is the factory default setting. The BootP client will continuously try to find a BootP server by sending BootP requests to all VLANs and ports (including the out-of-band management port) until either of the following events occurs:</p> <ol style="list-style-type: none"> <li>1) A BootP server replies in which case the reply is used to provide the system with an IP address on the interface, on which the reply is received (all other interfaces have to be assigned IP addresses by other means).</li> <li>2) The user starts to manually configure the system (command-line activity of any kind is detected on the serial console port).</li> </ol> <p>An IP address will be considered static by the device when either a) acquired automatically via BootP or b) set manually via a management interface.</p> |
| <b>RN-CA-UG-05. The supported OSPF features.</b> | <p>The device supports the following OSPF features:</p> <ul style="list-style-type: none"> <li>* Virtual links</li> <li>* ECMP</li> <li>* OSPF default cost of an OSPF interface.</li> <li>* Cryptographic authentication.</li> </ul> <p>At present the device does not support all other OSPF features.</p>  |

### Corrections and Additions to the CLI Reference Guide

| CLI Command  | Description of Change   |
|--|---|
| <b>RN-CA-CLIRG-01. CLI command "<i>passwords min-length</i>"</b> | User Guidelines: The length of passwords that were defined before the minimum password length requirement was configured is not checked on subsequent logins. This command is not enforced retroactively.   |
| <b>RN-CA-CLIRG-02. CLI command "<i>ip address dhcp</i>"</b>      | Every in-band port of the switch can potentially become a routing port. Therefore, when an interface is defined on an in-band port (or a VLAN of which it is the member), no default-gateway is configured. After dynamic assignment of the IP interface, you may assign a default route manually.  |
| <b>RN-CA-CLIRG-03. CLI command "<i>ospf</i>"</b>                 | <p>The correct syntax is <code>ospf [area-id]</code>. (The <code>ospf</code> command <code>area</code> parameter is optional.)</p> <p>Note the following user guidelines (detailed further in this document):</p> <ul style="list-style-type: none"> <li>* If the specified <code>area-id</code> has not yet been created, using the <code>ip interface configuration ospf area</code> command, then it is auto-created using this command.</li> <li>* Note that an OSPF area that is auto-created is not displayed in the configuration file.</li> <li>* Note that an auto-created OSPF area is deleted only after a subsequent reboot, if the OSPF interface is deleted.</li> <li>* If no area is designated, the backbone area is associated with the IP interface. If the backbone has not yet been created, it is auto-created.</li> <li>* Note that the negation of the <code>area</code> command does not appear in the configuration file, because it is, in fact, the default. However, it does appear when using the "<code>show ospf</code>" command, because it was automatically created.</li> </ul> |
| <b>RN-CA-CLIRG-04. CLI command "<i>ip route</i>"</b>             | If <code>reject-route</code> is designated, this will discard all packets matching this route per RFC-2096, and handle them as <code>reject-route</code> . These routes are treated as unreachable networks, and an "ICMP unreachable route" is returned.   |

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| <p><b>RN-CA-CLIRG-05. CLI command</b><br/><b><i>“rip default- route originate”</i></b></p> | <p><b><u>Note: This CLI command replaces “rip default-route offset” command.</u></b></p> <p><b>rip default-route originate</b><br/>The rip default-route originate interface configuration command generates a metric for a default route into RIP. To disable this feature, use the no form of this command.</p> <p><b>Syntax</b><br/>rip default-route originate metric<br/>no rip default-route originate</p> <p>metric — Metric for a default route. (Range: 1- 15)</p> <p><b>Default Configuration</b><br/>By default, the feature is disabled.</p> <p><b>Command Mode</b><br/>IP Interface Configuration mode</p> <p><b>User Guidelines</b></p> <ul style="list-style-type: none"> <li>* This command is equivalent to rip default-route offset.</li> <li>* Note that this is an origination of a default route with the given metric.</li> <li>* Setting the value of the metric to 0 is the same as negating the command.</li> <li>* An interface on which this command has been configured does not accept "default route" advertisement, in order to prevent a possible loop on the default route.</li> </ul> <p><b>Example</b><br/>The following example applies a metric of 5 to generate a default route to RIP on IP address 100.1.1.1.<br/>console(config)interface ip 100.1.1.1<br/>Console(config-ip)# rip default-route originate 5</p> |
| <p><b>RN-CA-CLIRG-06. CLI command</b><br/><b><i>“rip default-route offset”</i></b></p>     | <p><b><u>Note: This CLI command has been deprecated.</u></b></p> <ul style="list-style-type: none"> <li>* This command is equivalent to rip default-route originate.</li> <li>* Note that this is an origination of a default route with the given metric.</li> <li>* Setting the value of the metric to 0 is the same as negating the command.</li> <li>* An interface on which this command has been configured does not accept "default route" advertisement, in order to prevent a possible loop on the default route.</li> <li>* The range of the parameter offset is 0 - 15, and not as noted in the CLI Reference Guide.</li> </ul>  |
| <p><b>RN-CA-CLIRG-07. CLI command</b><br/><b><i>“router ospf area”</i></b></p>             | <p>The area-id is the OSPF area associated with a range of IP addresses. The area-id is specified in a “dotted decimal” notation similar to an IP address.</p> <p>If no area is specified, the default area is 0.0.0.0.</p> <p>An OSPF routed network must contain an area 0. Only one sub-level of area hierarchy is allowed, that is all areas other than 0 must connect to area 0 via an ABR (area border router). An ABR is a router that is connected to two or more OSPF areas.</p> <p>Small networks usually will only have an area 0. Larger networks will have multiple OSPF areas to reduce the size of the IP route tables and to reduce the CPU and memory demands on the routers to a manageable level.</p> <p>It is not necessary to define an OSPF area globally. OSPF areas may also be defined with the interface command.</p>   |

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| <p><b>RN-CA-CLIRG-08. CLI command</b><br/> <b>“router ospf redistribute rip”</b></p> | <p>The router ospf redistribute rip global configuration command enables incorporating IP routes that have been learned via the RIP routing process into the OSPF routing process. To disable the redistribution of RIP routes, use the no form of this command.</p> <p>By default, the redistribution of RIP routes is disabled.</p> <p>If your network contains other routers that do not run OSPF, but do run RIP routing protocols, the OSPF process can incorporate those routes learned via RIP. When redistribution is enabled, the router becomes an “AS Boundary Router” (ASBR).</p> <p>OSPF is more robust and converges more rapidly than RIP. Re-distribution of RIP routes should be used with care to avoid network instability. Redistribution should be done only in one direction. If RIP routes are redistributed into OSPF, do not redistribute the same OSPF networks back into RIP.</p> |
| <p><b>RN-CA-CLIRG-09. CLI command</b><br/> <b>“show ip ospf neighbor”</b></p>        | <p>For OSPF routers to become neighbors, they must be directly connected and agree on:</p> <ul style="list-style-type: none"> <li>* IP prefix and subnet mask</li> <li>* Area ID</li> <li>* Authentication (none, text, MD5)</li> <li>* Options (stub, nssa)</li> <li>* Hello Interval (default 10 sec.)</li> <li>* Router Dead Interval (default 40 sec.)</li> </ul> <p>The OSPF neighbor state is one of (init, two-way, loading, full). On a broadcast media, the roles are Designated Router (DR), Backup Designated Router (BDR), Other (DRother)</p>   |
| <p><b>RN-CA-CLIRG-10. CLI command</b><br/> <b>“vrrp preempt”</b></p>                 | <p>The router that owns the IP address or addresses associated with the virtual router always preempts independent of the setting of this command.</p>   |
| <p><b>RN-CA-CLIRG-11. CLI command</b><br/> <b>“snmp-server group”</b></p>            | <p>In order to remove SNMP group please use the “no snmp-server group CLI” command. The index of the group name table is comprised of Group Name, Security Model, and Security Level. Different views for the same group can be defined with different security levels. Thus, for example, after having created the appropriate views, a group can be created for which “no authentication” is required, while allowing only notification view for “interfaces”. A group of the same name can be created for which “priv” authentication is required. Read-only views can, for example, be configured for this group for mib2, and read/write views for interfaces. In this case, the users belonging to this group (the one who send “priv” packets) can modify all “interfaces” MIBs and view all mib2.</p>  |
| <p><b>RN-CA-CLIRG-12. CLI command</b><br/> <b>“snmp-server host”</b></p>             | <p>The range for username in this command is 0 – 255.</p>  |
| <p><b>RN-CA-CLIRG-13. CLI command</b><br/> <b>“snmp-server v3-host”</b></p>          | <p>The range for retries in this command is 0 – 255.<br/> The range for username in this command is 1 – 24 characters.<br/> Note that the type of trap (that is <i>notification</i> or <i>inform</i>) depends on how the trap receiver has been configured.</p>  |
| <p><b>RN-CA-CLIRG-14. CLI command</b><br/> <b>“spanning-tree mst-priority”</b></p>   | <p>The range for instance-id is 1 – 15.</p>  |
| <p><b>RN-CA-CLIRG-15. CLI command</b><br/> <b>“instance (mst)”</b></p>               | <p>The range for VLAN is 1 – 4093.</p>   |
| <p><b>RN-CA-CLIRG-16. CLI command</b><br/> <b>“logging”</b></p>                      | <p>The target IP address can be specified either in the standard decimal dotted notation format or as a fully qualified domain name.</p>   |

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| <b>RN-CA-CLIRG-17. Reporting of shorts in Virtual Cable Testing (VCT).</b>                     | The device reports only shorts across the cable pairs. The Virtual Cable Test (VCT) analyzes each of the MDI pairs in the cable being tested. Typically, in a CAT5 RJ-45 cable, the positive and negative of each pair are twisted together. The pairs that are twisted together are identifiable: solid orange and striped orange, solid blue and striped blue, solid green and striped green, solid brown and striped brown are twisted together. If, for example, MDI[0]+/- pins are connected to pairs 1,2 of the RJ45, which are connected to the orange pair, then MDI[0]+ will be connected to the solid orange and MDI[0]- will be connected to the striped orange. The short between wires that do not belong to the same pair will not be reported. |
| <b>RN-CA-CLIRG-18. The responsiveness of the device during the configuration file copying.</b> | While a configuration file is being copied intra-device and via TFTP (i.e. downloaded or uploaded), the device ignores the user input sent to the device via CLI or Web interface. Note that this behavior only applies to the session in the context of which the copying is taking place; all other management sessions may experience a delayed responsiveness but will accept CLI commands and process HTTP requests.   |
| <b>RN-CA-CLIRG-19. The precedence of port bound and VLAN bound ACLs.</b>                       | If an ACL X is bound to a port and the port becomes a member of the VLAN to which a different ACL Y is bound, then the ACL Y bound to the VLAN overrides the ACL X bound to the port.<br>The default rule cannot be changed manually.   |

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| <p><b>RN-CA-CLIRG-20. CLI command</b><br/><b>“ip helper-address”</b></p> | <p>The “<i>ip helper-address</i>” command is missing from the CLI Reference Guide.</p> <p><b>ip helper-address</b></p> <p>Use the Global Configuration ip helper-address command to have the device forward User Datagram Protocol (UDP) broadcasts received on an interface. To disable the forwarding of broadcast packets to specific addresses, use the no form of this command.</p> <pre>ip helper-address ip-interface address [udp-port-list] no ip helper-address ip-interface address</pre> <p><b>Syntax Description</b></p> <table><tr><td>ip-interface</td><td>Specify IP interface or all.</td></tr><tr><td>address</td><td>Destination broadcast or host address to be used when forwarding UDP broadcasts. You can specify 0.0.0.0 to indicate not to forward the UDP packet to any host.</td></tr><tr><td>udp-port-list</td><td>The broadcast packet destination UDP port number to forward. If not specified, packets for the default services are forwarded to the helper address.</td></tr></table> <p><b>Default</b><br/>Disabled</p> <p><b>Command Mode</b><br/>Global Configuration</p> <p><b>Usage Guidelines</b></p> <p>The ip helper-address command forwards specific UDP broadcast from one interface to another. You can define many helper addresses but the total number of address-port pairs is limited to 128 for the whole device. The setting of helper address for specific interface has precedence over a setting of helper address for all the interfaces. You can't enable forwarding of BOOTP/DHCP (ports 67,68) with this command. If you want to relay BOOTP/DHCP packets use the DHCP relay commands.</p> <p>The ip helper-address command specifies a UDP port number for which UDP broadcast packets with that destination port number are forwarded. By default, if no UDP port number is specified, the device forwards UDP broadcast packets for the following six services:</p> <ul style="list-style-type: none"><li>IEN-116 Name Service (port 42)</li><li>DNS (port 53)</li><li>NetBIOS Name Server (port 137)</li><li>NetBIOS Datagram Server (port 138)</li><li>TACACS Server (port 49)</li><li>Time Service (port 37)</li></ul> <p><b>Example</b><br/>Console(config)# ip helper address 100.10.1.1</p> | ip-interface | Specify IP interface or all. | address | Destination broadcast or host address to be used when forwarding UDP broadcasts. You can specify 0.0.0.0 to indicate not to forward the UDP packet to any host. | udp-port-list | The broadcast packet destination UDP port number to forward. If not specified, packets for the default services are forwarded to the helper address. |
| ip-interface   | Specify IP interface or all.   |              |                              |         |   |               |  |
| address  | Destination broadcast or host address to be used when forwarding UDP broadcasts. You can specify 0.0.0.0 to indicate not to forward the UDP packet to any host.  |              |                              |         |   |               |  |
| udp-port-list  | The broadcast packet destination UDP port number to forward. If not specified, packets for the default services are forwarded to the helper address.   |              |                              |         |   |               |  |



**System Usage Notes**

| ID and Title   | Description   |
|--|---|
| <b>RN-00000-F-086. The supported Web browsers and platforms.</b>   | The web management interface of the device supports Microsoft Internet Explorer Version 6.0.  |
| <b>RN-00000-F-204. Idiosyncrasy of the VPT to Queue mapping table.</b>   | The device allows simultaneous mapping of multiple VLAN Priority Tags (VPT) values to a single output queue (via the CLI command “ <i>wrr-queue cos-map</i> ”, for example). However, We recommend that you always map one VPT to one queue, rather than mapping multiple VPTs to a single queue.   |
| <b>RN-00000-R-053. Deleting VLAN interface with the attached Access Control List (ACL).</b>  | <p>The device allows deletion of a VLAN interface even if it has an Access Control List (ACL) bound to it. Deletion of the VLAN interface results in automatic unbinding of the attached ACL. If/when, the VLAN interface is re-created in the device; the ACL will be automatically re-bound to the VLAN interface.</p> <p>Here is an illustration of the above description:</p> <ol style="list-style-type: none"> <li>1) Create VLAN 2.</li> <li>2) Create a dummy ACL X</li> <li>3) Bind the ACL X to VLAN 2.</li> <li>4) View the ACL binding table – the association between VLAN 2 and the ACL X will be present.</li> <li>5) Delete VLAN 2.</li> <li>6) View the ACL binding table – the association between VLAN 2 and the ACL X will be gone even though the information about the association between ACL X and VLAN 2 is retained by the system.</li> <li>7) Re-create VLAN 2.</li> <li>8) View the ACL binding table – the association between VLAN 2 and the ACL X will be present again.</li> </ol> <p>In essence, deleting an interface automatically unbinds the ACL attached to the interface; if the same interface is recreated, the deleted ACL is rebound to the interface.</p> |
| <b>RN-15139-R-077. Potential affect of the QoS settings on the configuration file download via TFTP.</b>   | <p>If the device has plenty of Quality of Service (QoS) flow classification and bandwidth management objects like ACLs and policies defined and bound to interfaces then the download (copy) of a configuration file from the TFTP server into the running or startup configuration of the device may take a very long time or even fail.</p> <p>It is recommended then to perform the TFTP transfer of the file into the backup configuration file first, and then copy the backup configuration file into the running or startup configuration file.</p>  |
| <b>RN-15535-F-011. The functioning of the mirroring port when the volume of the mirrored traffic flow is greater than bandwidth capacity of the mirroring target port.</b> | <p>When both transmit (TX) and receive (RX) directions of more than one port are monitored, the volume of the actual traffic that that flows through the monitored ports may exceed the carrying capacity of the target monitoring port. In this case, the division of the mirrored packets may not be equal and the mirroring target port may transmit an arbitrarily selected subset of the traffic while some of the mirrored frames may be dropped.</p> <p>The user is advised to use caution in assigning port monitoring.</p>   |
| <b>RN-15585-R-146. Interpreting the diagnostics results of Virtual Cable Test (VCT): 2-pair vs. 4-pair cables.</b>   | <p>The Virtual Cable Test diagnoses the quality and characteristics of a copper cable attached to a port. The test can be performed via the CLI command “<i>test copper-port tdr</i>” or the Web interface page “System -&gt; Diagnostics -&gt; Copper Cable Testing.” Please note that the displayed diagnostics results will differ for four-pair and two-pair cables. If the diagnostics test is performed on a four-pair cable (given that the cable is intact), the resulting message will read as “Cable on port &lt;port-number&gt; is good.” If the diagnostics test passes for a two-pair cable, the resulting message will read as “Cable on port &lt;port-number&gt; has only two pairs”. The latter message does not indicate that there is a problem with the cable. It should be construed as follows: the test passed and there are only two pairs in the tested cable.</p>  |

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| <p><b>RN-16193-16178-F-001. The Jumbo frames feature is defined only for the ports operating at the gigabit speed.</b></p>                                    | <p>The device supports jumbo frames on all Gigabit Ethernet ports. Jumbo frames accepted at ingress port generate jumbo frames at egress port. Please note, although Jumbo frames are routinely transmitted from the ports operating at 10/100 Mbps, the incoming Jumbo frames are always dropped by the ports operating at 10/100 Mbps. When the Jumbo frames feature is enabled, the device still bridges and/or routes frames of normal size to and from the interfaces attached to the device ports operating at 10/100 Mbps.</p>   |
| <p><b>RN-16203-F-037. The DHCP “self-reference” in a downloaded configuration file may cause the perpetual configuration-reboot cycle.</b></p>                | <p>It is possible to cause an endless “load configuration” / “system reload” cycle by downloading the configuration file, which contains instructions enabling the DHCP on the interface that connects to the DHCP server where the configuration file is being downloaded from. While this is clearly not a desirable situation, it really has nothing to do with the device itself and may only result from the incorrect use of the device by the user. It is naturally the user's responsibility to make certain that the configuration files contain the appropriate information.</p>  |
| <p><b>RN-16350-S-125. The ambiguity of the Current Port Status reading in the Web interface page "Switch -&gt; Network Security -&gt; Port Security".</b></p> | <p>If a port becomes a member of Link Aggregation Group (LAG in short, also known as port-channel) then the configuration setting of MAC address port locking mechanism of this port will temporarily assume the value of the corresponding LAG setting until the port is removed from the LAG. The value of the “Current Port Status” status field contained in the “Switch -&gt; Network Security -&gt; Port Security” Web interface page will always reflect the effective status of port the LAG and may falsely appear to be in the conflict with the "Set Port" setting which is only in effect when the port does not belong to a LAG. At the same time, the output of the CLI exec mode command “<i>show ports security</i>” will display the status of the port as being the member of the LAG without referencing the actual port status. For example, a locked port g17 is made a member of unlocked LAG 1. As long as it remains a member of the unlocked LAG 1, g17 is effectively unlocked and the relevant “Switch -&gt; Network Security -&gt; Port Security” Web interface page will display the port status as “Unlocked”. When the port g17 leaves the LAG 1, it will become locked and the “Switch -&gt; Network Security -&gt; Port Security” Web interface page will display the port status as “Locked”.</p> |
| <p><b>RN-16514-R-078. The mutual exclusion mechanism is absent for the concurrently initiated system reset and copying of the configuration file.</b></p>     | <p>The device does not protect a user against performing a system reset (reload) while another user is copying a configuration file. Caution should be exercised when resetting the device as no to disrupt the ongoing copying/downloading of the configuration file. The user attempting to reset the device while another user is copying the configuration file will receive a warning message but will not be prevented from going ahead with the reset.</p>   |

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| <p><b>RN-16620-19743-19744-16854-19556-R-128. Several device controls are not available via the Web interface.</b></p>              | <p>There are no controls in the Web interface of the device corresponding to the following CLI commands:</p> <ol style="list-style-type: none"> <li>1) the line configuration command which sets the interval that the system waits until user input is detected ("line console", "exec-timeout"),</li> <li>2) the speed line configuration command which sets the line baud rate ("line console", "speed"),</li> <li>3) the SSH related commands ("<i>ip ssh port</i>", "<i>ip ssh server</i>", "<i>crypto key generate dsa</i>", "<i>crypto key generate rsa</i>", "<i>ip ssh pubkey-auth</i>", "<i>crypto key pubkey-chain ssh</i>", "<i>user-key</i>", "<i>key-string</i>", "<i>show ip ssh</i>", "<i>show crypto key mypubkey</i>", "<i>show crypto key pubkey-chain ssh</i>"),</li> <li>4) the embedded Web server related commands ("<i>ip http authentication</i>", "<i>ip http port</i>", "<i>ip http server</i>", "<i>ip https authentication</i>", "<i>ip https port</i>", "<i>ip https server</i>", "<i>crypto certificate generate</i>", "<i>show ip http</i>", "<i>show ip https</i>"). Please use the appropriate CLI commands for configuring the relevant attributes of the device.</li> </ol> <p>In addition, only the CLI interface can be used to define the order of certain authentication methods. Here is an example of an authentication method order that can be set via the CLI interface but cannot be entered via the Web interface: "None, Remote, Local". Please note, however, that this order is quite irrelevant since "None" is always available as an authentication method and, therefore, is equivalent to the authentication method order "None".</p> |
| <p><b>RN-16621-R-072. The functioning of the SSH.</b></p>   | <p>The device does not automatically generate and store the SSH keys. In particular, the SSH keys are not automatically generated when the SSH server is enabled.</p> <p>The SSH keys are generated via the CLI commands "<i>crypto key generate rsa</i>", or "<i>crypto key generate dsa</i>". These commands can be entered only after SSH is enabled using the CLI command "<i>ip ssh server</i>".</p>  |
| <p><b>RN-16767-32011-F-040. Miscellaneous constraints of OSPF functionality and nuances of the OSPF configuration settings.</b></p> | <p>The device performs a graceful shutdown when OSPF is disabled. The OSPF graceful shutdown lasts ten seconds, during which the user will not be able to enter any CLI commands.</p> <p>The OSPF tables have the following capacities:</p> <ul style="list-style-type: none"> <li>* 128 OSPF interface table entries</li> <li>* 64 OSPF area table entries</li> <li>* 115 OSPF interfaces are supported per area.</li> <li>* 64 OSPF neighbors table entries.</li> </ul>  |
| <p><b>RN-16823-P-244. Common STP cost 4 for LAGs and Gigabit interfaces.</b></p>  | <p>The Link Aggregation Group (LAG) interfaces of the device use the Spanning Tree Protocol (STP) cost value of 4, which is the same STP cost as for the Gigabit interfaces.</p>   |
| <p><b>RN-19658-P-229. The Web interface may not reflect the differences between the fiber and copper port configurations.</b></p>   | <p>The Web interface of the device may sometimes not reflect the differences between the fiber and copper ports in the Web pages containing the port configuration settings. As a result, certain settings (as viewed via the Web interface) may appear to exist for a particular port type while, in fact, they are not available for that port type.</p> <p>For example, the port duplex and speed settings while always appearing as "Full 1000" are not indeed configurable on fiber ports, although they appear to be configurable in the appropriate Web page.</p>   |
| <p><b>RN-17103-N-108. There are no statistics available for the discarded packets.</b></p>  | <p>The port counters can be viewed via a) CLI exec mode command "<i>show interfaces counters</i>" and b) Web interface page "Statistics -&gt; Table Views -&gt; Interface Statistics."</p> <p>However, the discarded packets are not shown. There is no option to display the counters of the discarded packets. The same applies to the RMON statistics, which can be viewed via a) CLI exec mode command "<i>show rmon statistics</i>" and b) Web interface page "Statistics -&gt; RMON -&gt; RMON Statistics."</p>  |
| <p><b>RN-17140-P-231. Deleting the mapping of a protocol from a protocol group.</b></p>   | <p>Before deleting the mapping of a protocol from a protocol group, the user must first remove the ports bound to that protocol group.</p>   |

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| <p><b>RN-18463-P-232. Shutting down the locked port after receiving 10,000 unauthorized packets.</b></p>                         | <p>The device disables the ingress of the locked port whose "Action on Violation" attribute is set to "Shutdown" and sends a trap only after the locked port receives at least 10,000 unauthorized packets from an unlearned sources.</p>  |
| <p><b>RN-19630-F-226. MAC Access Control List (MAC ACL) referencing a nonexistent VLAN.</b></p>                                  | <p>It is possible to create a MAC Access Control List (MAC ACL) which references a nonexistent VLAN. This feature allows defining the security rules, which can match any VLAN ID regardless of whether or not the VLAN was defined or dynamically created on the device. For example, assuming that VLAN 5 does not yet exist in the device, the following CLI configuration commands will still be accepted by the device and successfully executed:</p> <pre>console# configure console(config)# mac access-list test-mac-acl console(config-mac-acl)# permit any any vlan 5.</pre>   |
| <p><b>RN-32464-P-X01. The same IP address can be configured to a device interface and to a host connected to the device.</b></p> | <p>The same IP address can be configured on the device interface and on a device connected to the device. When a user configures an IP interface on the device, there is no check to verify if a host connected to the device has the same IP address. The user must exercise caution in assigning IP addresses, to ensure that the IP addresses on the device are unique to the network</p>   |
| <p><b>RN-32590-P-X02. The output of show ip route displays only directly relevant information.</b></p>                           | <p>The CLI command "<i>show ip route</i>" does not display the current values of administrative distance and cost metrics for static and connected types of routes. According to the feature definition, the router does not learn a configured network, and the metric parameter is, therefore, superfluous. To view metrics, display <i>dynamic entries and static routes</i>.</p>   |
| <p><b>RN-32610-32294-P-X03. Multiple IP interface commands perform the same OSPF area function.</b></p>                          | <p>The CLI has two different IP interface commands for associating an IP interface to an OSPF area:</p> <p>Option 1:<br/>Manually create the OSPF area, and associate it with an IP interface. Use the global configuration router <i>ospf area</i> command to create an area. Then use the ip interface configuration command <i>ospf</i> to associate the IP interface with an area.</p> <p>Option 2:<br/>Associate a non-defined OSPF area with an IP interface, causing it to be automatically created. An area can be auto-created. Use the IP interface configuration command "<i>ospf</i>", but designate an area that has not been created. This area is automatically created. Note that an automatically created area is not saved in the configuration file, and exists only as long as the IP Interface with which it is associated is not deleted. If the IP interface is deleted, and the device is subsequently rebooted, the OSPF area disappears. Note that the negation of the area command does not appear in the configuration file, because it is, in fact, the default. However, it does appear when using the "<i>show ospf</i>" command, because it was automatically created.</p> |
| <p><b>RN-32428-P-X04. It is not possible to send traps on multiple ports per IP address</b></p>                                  | <p>A single IP port for sending traps can be defined on an IP address. In order to send traps on multiple ports per IP address, a virtual IP address can be defined, so that both stations reside on different IPs. Alternatively, it is possible to use different NICs with different IP addresses.</p>   |
| <p><b>RN-32103-P-X05. Auto Refresh for Port and LAG Configuration pages</b></p>  | <p>When opening the Port and LAG configuration pages in the WBI, the user may experience a double blink, caused by double refresh of the page. The double refresh enables the device to retrieve actual status of the ports and LAGs.</p>  |
| <p><b>RN-00000-F-X06. SNMPv3 Trap Notification Setting.</b></p>  | <p>In order to enable an SNMP client to receive SNMPv3 informs from the device, the SNMP client must be properly configured with the engine-ID which is used in the corresponding SNMPv3 commands.</p>   |

**Known System Restrictions and Limitations**

| ID and Title  | Description   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
|---|---|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| RN-00000-F-045. The ICMP Redirect messages are not sent.  | ICMP Redirect messages are used by routers to notify the hosts on the data link that a better route is available for a particular destination. At present, the device does not send ICMP Redirects.   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| RN-00000-F-217. The limited number of supported routes.   | The device supports the total of 12,000 routes which are internally allocated as follows:<br>* 4,000 prefixes (the maximum number of network routes).<br>* 8,000 host (/32) routes (this is also the maximum number of next hop routers which can be configured on the device).   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| RN-00000-R-047. Distance Vector Multicast Routing Protocol (DVMRP) Tunnels are not supported.   | DVMRP Tunnels allow the exchange of IP multicast traffic between routers separated by networks that do not support multicast routing. At present, the device does not support DVMRP Tunnels.  |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| RN-10077-10078-09430-09421-F-067. Several Ethernet counters are not supported.                  | The device does not support the following Ethernet counters:<br>* Alignment Errors<br>* Symbol Errors<br>* Ethernet like MIB dot3StatsLateCollisions<br>The device does not accurately accumulate the following Ethernet counters:<br>* dot3StatsSingleCollisionFrames<br>* dot3StatsMultipleCollisionFrames  |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| RN-00000-F-017. IGMP reports in the [224..239].[0 128].0.[0..255] IP Multicast ranges.          | Avoid using the IP Multicast address groups within the following ranges:<br><table border="1" data-bbox="663 1025 1104 1456"> <tbody> <tr><td>224.0.0.[0-255]</td><td>224.128.0.[0-255]</td></tr> <tr><td>225.0.0.[0-255]</td><td>225.128.0.[0-255]</td></tr> <tr><td>226.0.0.[0-255]</td><td>226.128.0.[0-255]</td></tr> <tr><td>227.0.0.[0-255]</td><td>227.128.0.[0-255]</td></tr> <tr><td>228.0.0.[0-255]</td><td>228.128.0.[0-255]</td></tr> <tr><td>229.0.0.[0-255]</td><td>229.128.0.[0-255]</td></tr> <tr><td>230.0.0.[0-255]</td><td>230.128.0.[0-255]</td></tr> <tr><td>231.0.0.[0-255]</td><td>231.128.0.[0-255]</td></tr> <tr><td>232.0.0.[0-255]</td><td>232.128.0.[0-255]</td></tr> <tr><td>233.0.0.[0-255]</td><td>233.128.0.[0-255]</td></tr> <tr><td>234.0.0.[0-255]</td><td>234.128.0.[0-255]</td></tr> <tr><td>235.0.0.[0-255]</td><td>235.128.0.[0-255]</td></tr> <tr><td>236.0.0.[0-255]</td><td>236.128.0.[0-255]</td></tr> <tr><td>227.0.0.[0-255]</td><td>237.128.0.[0-255]</td></tr> <tr><td>238.0.0.[0-255]</td><td>238.128.0.[0-255]</td></tr> <tr><td>239.0.0.[0-255]</td><td>239.128.0.[0-255]</td></tr> </tbody> </table><br>The device assumes the packets within the above ranges of IP Multicast addresses to be part of the network control traffic. These packets will not be snooped. | 224.0.0.[0-255] | 224.128.0.[0-255] | 225.0.0.[0-255] | 225.128.0.[0-255] | 226.0.0.[0-255] | 226.128.0.[0-255] | 227.0.0.[0-255] | 227.128.0.[0-255] | 228.0.0.[0-255] | 228.128.0.[0-255] | 229.0.0.[0-255] | 229.128.0.[0-255] | 230.0.0.[0-255] | 230.128.0.[0-255] | 231.0.0.[0-255] | 231.128.0.[0-255] | 232.0.0.[0-255] | 232.128.0.[0-255] | 233.0.0.[0-255] | 233.128.0.[0-255] | 234.0.0.[0-255] | 234.128.0.[0-255] | 235.0.0.[0-255] | 235.128.0.[0-255] | 236.0.0.[0-255] | 236.128.0.[0-255] | 227.0.0.[0-255] | 237.128.0.[0-255] | 238.0.0.[0-255] | 238.128.0.[0-255] | 239.0.0.[0-255] | 239.128.0.[0-255] |
| 224.0.0.[0-255]   | 224.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 225.0.0.[0-255]   | 225.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 226.0.0.[0-255]   | 226.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 227.0.0.[0-255]   | 227.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 228.0.0.[0-255]   | 228.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 229.0.0.[0-255]   | 229.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 230.0.0.[0-255]   | 230.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 231.0.0.[0-255]   | 231.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 232.0.0.[0-255]   | 232.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 233.0.0.[0-255]   | 233.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 234.0.0.[0-255]   | 234.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 235.0.0.[0-255]   | 235.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 236.0.0.[0-255]   | 236.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 227.0.0.[0-255]   | 237.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 238.0.0.[0-255]   | 238.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| 239.0.0.[0-255]   | 239.128.0.[0-255]   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| RN-10470-F-101. The margin of error of Virtual Cable Testing (VCT).                             | The copper cable length reported by the Virtual Cable Test may vary by several meters.  |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |
| RN-11125-10972-F-022. The effect of head-of-line blocking prevention mode on the storm control. | When the device operates in the head-of-line blocking prevention mode (the flow control mechanism is disabled) the functioning of the Storm Control feature which limits the traffic rates at the port ingress may deviate from the expected behavior. This phenomenon is more perceptible when a port with enabled rate limiting operates at a lower speed (10 Mbps, for example).   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |

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| <p><b>RN-12534-15454-P-048. Adding an invalid VRRP interface via Web interface.</b></p>  | <p>When adding a new VRRP interface with an invalid IP address via the Web interface the device will display an appropriate error message but still add a virtual router entry to the VRRP Table. Please always manually delete the invalid virtual router entry.<br/>Please note that if the admin status of the virtual router is set to “Up”, the router cannot be deleted. In addition, the field itself cannot be modified.</p>  |
| <p><b>RN-14180-11588-F-062. Precision of QoS settings of policing and shaping.</b></p>   | <p>The actual value of the user configured QoS settings of the traffic policing and shaping may deviate from the values assigned by the user. For example, the user may specify a committed rate (average traffic rate in bps) of 20000000, but the actual rate will be 19531000.<br/>This behavior may also affect the rate limiting mechanism (ingress shaping and egress policing) when it is performed at very low rates.<br/>In typical enterprise applications (for the rates of 1Mbps and above) the impact of this errata should be insignificant.</p>  |
| <p><b>RN-14701-14702-32775-32776-18891-R-041. Miscellaneous constraints of RIP functionality and nuances of RIP configuration settings.</b></p>                          | <ul style="list-style-type: none"> <li>* The device does not support RIP2PeerTable, which is (using RFC terminology) is an optional cache of recently heard neighboring routers.</li> <li>* Poison-reverse is automatically enabled after route update; and activated after two minutes, thus relieving the user from configuring the exact behavior.</li> <li>* The system sends only default routes on all interfaces, until a RIP response is received.</li> <li>* The user can specify the version of RIP (RIPv1 or RIPv2) to be supported on the interface. The device is set to RIPv1 by default, and not RIPv2.</li> <li>* By default, RIP is disabled per interface and per system. RIP-1 compatibility mode is not supported.</li> <li>* By default, RIP redistributes static routes.</li> <li>* The device currently supports the “Receive Only” (RX) and “Receive and Transmit” (RX &amp; TX) modes for RIP and does not support the “Transmit Only” mode.</li> <li>* Default routes are automatically created.</li> </ul> |
| <p><b>RN-15042-F-025. The limitation of the maximum number of VLANs and ports.</b></p>   | <p>The device imposes a limitation on the maximum number of port-per-VLAN combinations. The following formula describes the limitation:<br/> <math display="block">L = N * (P_1 + P_2 + \dots + P_n) &lt; 65536</math>           Where<br/>           L – denotes the system property which is subject to limitation<br/>           P<sub>i</sub> – denotes number of ports belonging to the VLAN i<br/>           N – denotes total number of VLANs with at least one port<br/>           If L is less then 65536 then the limit is not reached.</p> <p>For example, if three VLANs exist in the device and 10 ports belong to VLAN 1 (the default VLAN), 14 ports are to be made the members of VLAN 2, and 16 ports are to be made the members of VLAN 3, then<br/> <math display="block">L = (10 + 14 + 16) * 3 = 120.</math>           Since L is less then 65536 it follows that the system limit has not been reached and the configuration is valid.</p>  |
| <p><b>RN-15733-R-084. There is no checking performed when a configuration file is copied via TFTP (downloaded) into the backup configuration file of the device.</b></p> | <p>When a configuration file is copied intra-device or via TFTP (downloaded) into the running or startup configuration file of the device, the commands in the file are syntactically and semantically checked and the user is always notified if the file has an error (the copy operation will fail and the running or startup configuration file will not be altered).<br/>However, the user must use caution when copying (downloading) a configuration file from a TFTP network server to the backup configuration file of the device because the check of the file being downloaded is not performed. In fact, a file of an arbitrary nature may be transferred and stored in the backup configuration file. An attempt to display the contents of an invalid backup configuration file via “<i>show backup-config</i>” CLI command may result in unpredictable system behavior.</p>  |

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| <p><b>RN-15950-F-184. Creating more the 2000 static VLANs simultaneously.</b></p>                       | <p>The device supports up to 4095 VLANs. However, one can actually create only 4062 VLANs (2 through 4063) because: a) VLANs 4064 through 4094 are reserved by the device for the internal operational usage, b) VLAN 1 is the default VLAN of which all ports are members by default, and c) VLAN 4095 is designated as the "Discard VLAN."</p> <p>At present the device has a limitation of the following kind:<br/>If more than 2000 static VLANs are to be created in the system then the user must always use the range command qualifier to minimize the number of "vlan" CLI commands in the configuration file as to avoid the overflow of the internal configuration file buffer. Alternatively, create half in one command, and the other half in another.<br/>Let us illustrate the point. Let us suppose that the total of 2010 static VLANs must be created. Then instead of creating them using the method A always use the methods B or C:</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Method A (inconsecutive VLAN numbers)<br/><b>Never use this method</b></p> <pre>console# configure console(config)# vlan database console(config-vlan)# vlan 2, 4, 6, 8, ...4018, 4020 console(config-vlan)# exit</pre> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Method B (consecutive numbers of VLANs)<br/>You may use this method</p> <pre>console# configure console(config)# vlan database console(config-vlan)# vlan 2-2011 console(config-vlan)# exit</pre> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Method C (two or more commands to define many VLANs)<br/>You may also use this method</p> <pre>console# configure console(config)# vlan database console(config-vlan)# vlan 2, 4, 6, 8, ...2008, 2010 console(config-vlan)# vlan 2012, 2014 ...4018, 4020 console(config-vlan)# exit</pre> </div> |
| <p><b>RN-16114-16118-F-104. Optical transceiver diagnostics and the supported SFP transceivers.</b></p> | <p>The device performs the optical transceiver diagnostics only on the Small Form Factor Pluggable Gigabit Interface Converters (SFP GBICs, also known as SFP transceivers) which support the Digital Diagnostic Standard SFF-4872 or are compatible with the Finisar SFP transceivers. Please note that the TX fault diagnostic testing is not supported by the Finisar SFP transceivers.</p>  |
| <p><b>RN-16524-P-228. Configuring the SNMP alarm table OID 1.3.6.1.2.1.4.3.</b></p>                     | <p>The device does not allow configuring the SNMP alarms for the variables of the alarm table located at the OID 1.3.6.1.2.1.4.3 tree-top.</p>  |
| <p><b>RN-16622-R-139. The number of authentication retries for the SSH and telnet server.</b></p>       | <p>The device does not support controls for configuring the number of authentication retries for the embedded SSH and telnet servers. The authentication retries default is permanently set to 3. Please note that device supports the configuration of a number of authentication retries for the outgoing authentication-request passwords sent to RADIUS server by the embedded RADIUS client. Please see "radius-server retransmit" CLI configuration mode command and "System -&gt; Management Security -&gt; RADIUS" or "System -&gt; Out-of-band -&gt; RADIUS" Web interface pages.</p>  |
| <p><b>RN-16955-32807-R-044. When using RIP all networks are advertised by default.</b></p>              | <p>The device has no user controls to prevent the advertisements of certain networks when using RIP. The command "no router rip redistribute connected" is not implemented. Therefore, the directly connected routes are advertised by default. By default in RIP all networks are advertised. Please note that this limitation does not apply to OSPF since the "no router ospf redistribute connected" command was implemented.</p>   |

## PowerConnect 6024/6024F Release Notes

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| <p><b>RN-17206-N-019. The granularity of broadcast and multicast maximum rate of storm control.</b></p>                      | <p>The maximum rate of broadcast and (optionally) multicast frames allowed on each port will be rounded off to the nearest multiple of 64 Kbps. For example, if the maximum rate is set to 129 Kbps then the device will round off the rate and set the rate to 192 Kbps.<br/>Please note that the device does not support the storm control (that is, the rate limiting) for the unknown unicast traffic.</p>  |
| <p><b>RN-17605-R-161. Removing the static routes when an IP interface is deleted.</b></p>                                    | <p>The device automatically removes a static route to a next hop router if the corresponding IP interface is deleted from the system.</p>   |
| <p><b>RN-18904-18908-P-234. The inaccuracies in the Web interface statistics diagrams.</b></p>                               | <p>The diagrams with certain statistical information may deviate from the actual values. For example, "% Error Packets Received" column in "Statistics -&gt; Table Views -&gt; Utilization Summary" Web interface page and the "Interface Statistics" of the "Statistics -&gt; Charts -&gt; Ports" Web interface page may display inaccurate statistical data.</p>  |
| <p><b>RN-19803-P-241. ACL to port binding limitation.</b></p>  | <p>The device allows binding only one ACL to a port at a time. It may appear from the Web interface page "System -&gt; Network Security -&gt; ACL Bindings -&gt; Show All" that there is an option to bind more than one interface; however, this is not the case. Attempting to bind a second ACL to a port results in an error.</p>   |
| <p><b>RN-32810-P-X06. The same MAC Address is used for STP BPDUs on different ports</b></p>                                  | <p>The source MAC address contained in Configurations BPDUs transmitted by each Port on the device does not uniquely identify the transmitting Port, as required per standard. Note that this in no way adversely affects network or device behavior.</p>   |
| <p><b>RN-32158-P-X07. After rebooting the device, synchronization can be done only using Unicast or Anycast servers.</b></p> | <p>Synchronization of time using broadcast servers may not work after reboot. Note that synchronization can be done with Unicast or Anycast servers.</p>  |
| <p><b>RN-TT118808-P-X08. System relays DHCP messages when server is local.</b></p>   | <p>The DHCP relay feature will relay DHCP messages on the DHCP server's local interface. The device relaying local DHCP messages will cause duplicate messages to be received by both client and server. The duplicate messages will be ignored.</p>  |
| <p><b>RN-TT76305-P-X09. Removing SNMP trap host generates error.</b></p>   | <p>Removing an SNMP trap host via the CLI interface generates the following error: "TMibScalarC_SetValue: var: rndCommunityString mismatching between var mib type and object type!"<br/>For example, the above message will be displayed if one executes the following steps:<br/>1) Add IP address to the VLAN.<br/>2) Connect an SNMP trap client.<br/>3) Configure the device to send traps to connected client.<br/>4) Remove the SNMP trap host through the CLI.<br/>Please note that the entry is removed even though an error is generated.</p> |

End of Release Notes