



Release Notes:

Version ST.1.0.090213 Software

for the HP ProCurve Threat Management Services zl Module

These release notes include information on the following:

- Downloading documentation from the Web ([page 1](#))
- Downloading and installing software updates ([page 2](#))
- Known Issues in release ST.1.0.090213 ([page 7](#))

Support Notices

Caution

The HP ProCurve Series 5400 zl and 8200zl switches require software version K.13.40 or later to support the Threat Management Services (TMS) zl Module. To download the latest switch software, please go to the [Software for switches](#) page on the HP ProCurve Web site.

Caution

Before you update software to a new version, ProCurve strongly recommends that you save a copy of your config file to an external location. See "Backup and Restore System Configuration" in the *HP ProCurve Threat Management Services zl Module Management and Configuration Guide* for more information ([ProCurve manuals](#)).

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Applicable Products

HP ProCurve Threat Management Services zl Module	(J9155A)
HP ProCurve Threat Management Services zl Module with 1-year IPS subscription service bundle	(J9156A)
ProCurve Switch 5412zl	(J8698A)
ProCurve Switch 5406zl-48G	(J8699A)
ProCurve Switch 5412zl-96G	(J8700A)
ProCurve Switch 8212zl	(J8715A)

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Warranty

See the Customer Support/Warranty booklet included with the product.

A copy of the specific warranty terms applicable to your Hewlett-Packard products and replacement parts can be obtained from your HP Sales and Service Office or authorized dealer.

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Software Management

Download Switch Documentation from the Web

You can download software updates and the corresponding product documentation from the ProCurve Networking Web site as described below.

View or Download the Software Manual Set

Go to: www.procurve.com/manuals

You may want to bookmark this Web page for easy access in the future.

Software Updates

Check the ProCurve Networking Web site frequently for software updates for the various ProCurve products you may have in your network.

Software Releases and Support

In addition to the HP ProCurve Lifetime Warranty* on the module and five year warranty on the hard disk drive (HDD), technical support and software releases are included in the purchase price of the HP ProCurve TMS zl module, as described below.

The HP ProCurve TMS zl module includes one (1) year of telephone and email support, providing you technical assistance during HP local business hours. This assistance is for product-specific questions on product features and specifications, installation, general configuration, basic troubleshooting, and usage. The support is provided on a commercially reasonable effort basis, and there is no charge by HP to use this support. The product also includes:

- software maintenance releases (which provide fixes for defects), when and if available, for as long as you own the product
- software update releases (which provide minor enhancements), when and if available, for one year
- software upgrade releases (which provide major enhancements), when and if available, for one year

Fee-based services can be purchased to uplift the telephone support to 24x7 coverage. Services are also available to provide telephone support after one year, or to receive software update or upgrade releases beyond one year.

* For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m series, HP ProCurve Switch 8100fl series, HP ProCurve Network Access

Software Management

Software Updates

Controller 800, and HP ProCurve DCM Controller. The following hardware mobility products have a one-year hardware warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, HP ProCurve 1 Port Power Injector, and HP ProCurve CNMS Appliances. Disk drives in the HP ProCurve ONE Services zl modules have a five year hardware warranty. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at www.procurve.com/warranty.

Downloading Software to the TMS zl Module

ProCurve Networking periodically provides TMS zl Module software updates through the ProCurve Networking Web site (www.procurve.com). After you acquire a new software file, you can use the Web browser interface or the TMS zl Module CLI to install it.

Note

After installing the update software using one of the methods described below, you must reboot your module to load and begin using the new software.

Updating the Module Software Using the Web Browser Interface

This section describes how to use the Web browser interface to download software to the module. For more detailed information, refer to "Update Software with the Web Browser Interface" in the *HP ProCurve Threat Management Services zl Module Management and Configuration Guide* ([ProCurve manuals](#)). Also, you can click **Help** in the Web browser interface to access context sensitive help for downloading and other interface screens. If you are running Firefox 3, ensure that you have an ActiveX plug-in, otherwise, some of the features in the Help Files will not function.

The module's Web browser interface supports Internet Explorer 7 or 8 or Firefox2.x or 3.

Note

In routing mode, make sure that your access policies permit traffic between the FTP, TFTP, or SCP server and Self, if necessary

1. Download the new software image from procurve.com.
2. Transfer the compressed image to an FTP, TFTP, or SCP server.
3. Select **System > Maintenance** and then click the **Update Software** tab.
4. For **Server Type**, select **FTP, TFTP, or SCP**.
5. Complete the **Download Information** with the information required by the server type you selected above.
6. Click **Download and install** to download the software to the module and install it.

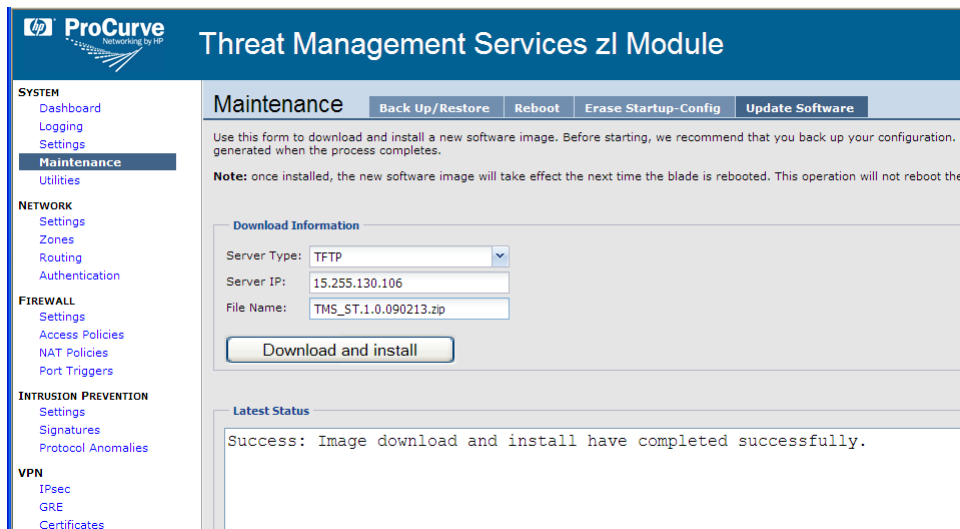


Figure 1. A Successful TMS zl Module Software Update Using the Web Browser Interface

7. Wait for this message in the **Latest Status** field: **Success: Image download and install have completed successfully.** (see [Figure 1](#)).
8. Select the **Reboot** tab and click the **Reboot** button to complete the installation.

Updating the Module Software Using the CLI

Three separate processes are available for updating the module software using the TMS zl Module CLI.

- Using an FTP or SCP server
- Using a TFTP Server
- Using a USB Drive

For more detailed information, refer to "Update Software with the CLI" in the *HP ProCurve Threat Management Services zl Module Management and Configuration Guide* ([ProCurve manuals](#)).

Using an FTP or SCP server.

1. Transfer the compressed image onto an FTP or SCP server.
2. Initiate a console session with the host switch.
3. Enter the ProductOS context for the TMS zl Module.

```
hostswitch# services c 2
```

4. Copy the image from the server and install.
5. Reboot the module to complete the update.

```
hostswitch(tms-module-C)# reboot
```

For example, suppose that you copied the image to an FTP server that has the parameters shown below:

- IP address — 192.168.1.13
- Username — PROCURVEUIUSR_CA
- Password — procure
- Filename — TMS_ST.1.0.090213.zip (copied to the root directory)

1. You would type the following:

```
hostswitch(tms-module-C)# copy ftp image 192.168.1.13 TMS_ST.1.0.090213.zip user  
PROCURVEUIUSR_CA
```

2. After you press **Enter**, the module prompts you for the password.

```
Password: procure
```

3. The image is copied to the module, then automatically installed.

4. When the prompt says that the installation is finished, reboot the module to complete the update.

```
hostswitch(tms-module-C)# reboot
```

Using a TFTP Server.

1. Transfer the compressed image onto a TFTP server.
2. Initiate a console session with the host switch.
3. Enter the ProductOS context for the TMS zl Module.

```
hostswitch# services c 2
```

4. Copy the image from the server and install.
5. Reboot the module to complete the update.

```
hostswitch(tms-module-C)# reboot
```

For example, suppose that you copied the image to a TFTP server that has the parameters shown below:

- IP address—192.168.1.13
- Filename—TMS_ST.1.0.090213.zip (copied to the root directory)

1. You would type the following:

```
hostswitch(tms-module-C)# copy tftp image 192.168.1.13 TMS_ST.1.0.090213.zip
```

2. The image is uploaded to the module, then automatically installed.
3. When the prompt says that the installation is finished, reboot the module to complete the update.

```
hostswitch(tms-module-C)# reboot
```

Using a USB Drive.

1. Extract the compressed software image.
2. Transfer the extracted image folder onto a USB drive in a directory called /services/images.

Note: The first partition on the USB drive should be in FAT32 format. You can reset the USB format, if necessary, using the HP USB Creator tool.

3. Initiate a console session with the host switch.
4. Boot to the Services OS.

```
hostswitch# services c 1
```

```
hostswitch(services-module-C:PR)# boot service
```

5. When the module comes back online, enter the Services OS again.

```
hostswitch# services c 1
```

6. Insert the USB drive in the USB port on the TMS zl Module.

7. Wait a few seconds, then mount the USB drive.

```
hostswitch(services-module-C:HD)# usb mount
```

8. Copy the image from the drive to the module.

For example, if the image directory name is **ST.1.0.090213**, you would type:

```
hostswitch(services-module-C:HD)# usb copyfrom st. 1. 0. 090213
```

You can type the first few letters of the directory name, then press the Tab key to complete the name. You might need to add the last few characters of the directory name if the USB drive contains more than one image.

9. Update the software.

For example, if the new image directory is **ST.1.0.090213**, you would type:

```
hostswitch(services-module-C:HD)# update product st. 1. 0. 090213
```

Again, you can use tab completion for the file name.

10. When the prompt says that the installation is finished, unmount and remove the USB drive.

```
hostswitch(services-module-C:HD)# usb unmount
```

Remove the USB drive from the module.

Caution: The module cannot boot (the next step) if the USB drive remains inserted in the module.

11. Boot the module to the ProductOS to complete the update.

```
hostswitch(services-module-C:HD)# boot product
```

Known Issues

Release ST.1.0.090213

The following problems are known issues as of release ST.1.0.090213.

- **PR_0000000665** — When an IPv4 address is entered into a field, regardless of whether the administrator is using the Web browser interface or CLI interface, the TMS zl Module is not doing the complete validation on the address based upon the field being used. For example, a multicast or broadcast address can be entered into source address fields. It is up to the user to ensure the correctness of the address for the field in question.

Related PRs:

PR_0000000665
PR_0000001794
PR_0000002068
PR_0000002252
PR_0000002253
PR_0000002254
PR_0000002424
PR_0000002613
PR_0000003824

- **PR_0000000906** — When the Web browser interface of the TMS zl Module is left at the login screen without the user logging into the TMS zl Module, the inactivity timer still applies, resulting in the user having to go back to the login screen manually. The inactivity timer should only apply once a user has logged in, but instead applies at all times.
- **PR_0000000961** — The initial login banner text of the Web browser interface in the TMS zl Module differs in size depending on whether the user is accessing it with HTTP or HTTPS. While noticeable, this difference in size does not impair functionality.
- **PR_0000001044** — From the TMS zl Module CLI, when a TMS zl Module is operating in Routing Mode using OSPF, the command **show ip ospf neighbor** has an output that is not the same as a ProCurve switch that is running OSPF. Important information about OSPF neighbors is still shown, how the information that is shown is different from the switch.
- **PR_0000001143** — The options for VLAN IPv4 functionality change depending on how a command is accessed. For example, **vlan <id> ip** options are different than going into the VLAN context via **vlan <id>** and then typing **ip**.

For example:

```
ProCurve Switch(tms-module-D:config)# vlan 20 ip
address          Set IP parameters for communication within an IP network.
igmp             Enable IGMP on the VLAN.
pim-sparse       Enable PIM-SM on the device.
ProCurve Switch(tms-module-D:config)# vlan 20
ProCurve Switch(tms-module-D:vlan-20)# ip
address          Set IP parameters for communication within an IP network.
igmp             Enable IGMP on the VLAN.
rip              Configure RIP on the VLAN.
ospf             Configure OSPF settings.
pim-sparse       Enables PIM-SM on the VLAN.
```

The impact to the user is that some commands cannot be typed in a single line and the VLAN configuration context must be entered in order to configure some items.

- **PR_0000003186** — From the CLI, the schedule command does not auto-complete when the Tab key is pressed as other commands from the command line do.

For example, the following command will not auto-complete to **daily** when the Tab key is pressed after only **dail** is typed:

```
ProCurve Switch(tms-module-D:config)#schedule time1 dail
```

The impact to the user is that the entire parameter must be typed out.

- **PR_0000004155** — The two internal Ethernet ports of the TMS zl Module have an actual speed of 10Gbps. However, in the SNMP MIB, they are reported as 10Mbps. This issue only affects the reporting of the speed via SNMP. The actual speed is 10Gbps.
- **PR_0000004266** — There is a discrepancy between the Web browser interface and the CLI in regards to how the subnet mask is specified in a static route configuration. The CLI requires the subnet mask to be specified in dotted decimal format while the Web browser interface uses CIDR addresses. No functionality is impacted.
- **PR_0000004577** — When the CLI command **show logging local** is used with paging disabled, extra blank lines are seen. These blank lines should be ignored.
- **PR_0000004766** — When there are multiple syslog servers on the same IP address, differing by facility or port, the user is unable to delete the specific entry in question because only the syslog IP address is used for removing a syslog server. Having more than one syslog server with the same IP address, the syslog server removed will be the first to appear on the list.

Example:

1. Add a syslog server

```
ProCurve Switch(tms-module-D:config)# logging syslog 192.168.1.59 513 facility
local0
```

2. Add a second syslog server using the same IP address

```
ProCurve Switch(tms-module-D:config)# logging syslog 192.168.1.59 514 facility local2
```

3. Delete the syslog server

```
ProCurve Switch(tms-module-D:config)# no logging syslog 192.168.1.59
```

The first syslog server is deleted and there is no way to specify the second syslog server except to execute the **no logging syslog 192.168.1.59** command again.

- **PR_0000005390** — The administrator cannot change the password for MD5 authentication on an OSPF interface without knowing the previous password. As a workaround, first disable the VLAN from OSPF and then re-enable it with the new password.
- **PR_0000006127/ PR_0000016218** — The output of the **show run** command will show an `FDPoll Returned Error` message, which is not relevant to the output and inconsequential. It can safely be ignored.
- **PR_0000007300/PR_0000007303** — From the CLI, the logging command does not auto-complete when the Tab key is pressed as other commands from the command line do. As a result, the user must fully type the parameter needed.

For example, the following commands do not auto-complete to **enable** when the Tab key is pressed after only **en** is typed:

```
ProCurve Switch(tms-module-D:config)# logging syslog en
ProCurve Switch(tms-module-D:config)# logging snmpv2 en
ProCurve Switch(tms-module-D:config)# logging snmpv3 en
```

- **PR_0000007394** — A vague message is displayed when the maximum number of users have already been added to a group and an administrator attempts to add another user to the group.

```
CLI: Error: Failed to add user group: 88
```

```
Web browser interface: The user could not be added.
```

- **PR_0000007723** — In the TMS zl Module CLI, an error message should be displayed and the entry rejected when an invalid mask value is used for *IP Address/Mask* when specifying an IP address for a VLAN. The user must carefully validate their input.

In the following example the incorrect mask value may result in the wrong subnet mask being used:

```
ProCurve Switch(tms-module-D:config)# vlan 1 ip address 192.168.11.25/2254
Success: Set VLAN 1 IP address to: 192.168.11.25 255.255.252.0
```

- **PR_0000007740** — During a UDP flood, the log incorrectly refers to it as a TCP flood by using `tcpconnectionanomaly`. As a result, the administrator will not know whether a UDP flood is occurring or a TCP flood is occurring.

- **PR_0000007914** — The TMS zl Module Web browser interface is designed to only have one client logged in as **manager** at any given time to avoid one manager's changes overwriting another manager's changes. In most cases, this works as expected. However, multiple clients can log in as manager by following the steps below.
 1. Using the Web browser interface, login as manager on the TMS zl Module.
 2. Connect to the Web browser interface page on a second client.
 3. Login as manager. The TMS zl Module prompts to interrupt current manager, click **cancel**.
 4. This brings up the logout prompt (**Save&Logout, Do Not Save& Logout, Cancel**), click **Cancel**.

Now, the additional client is logged into the Web browser interface as **manager**.

- **PR_0000008044** — The TMS zl Module has been configured for VLAN IP addresses and HA is enabled but unconfigured (that is, there is only one device in the cluster). If HA is subsequently disabled, the VLAN IP addresses are lost. This could result in a loss of management connectivity.
- **PR_0000008136** — Only 1,000 NAT Policies are supported on the TMS zl Module. The TMS zl Module incorrectly accepts more than 1,000 NAT policies. These NAT policies work fine, but they should not be used as a future software release may restrict the NAT policies. Please keep the number of NAT policies used to 1,000 or fewer.
- **PR_0000008274** — The log entry that is logged when a new access policy is added has the wrong zone information. Refer to the following log sample:

```
time="2008-08-14 10:54:36" severity=info pri=6 fw=ProCurve-TMS-zl-Module  
id=config_configuration ruleid=123 msg="IAPPOL: adding new IA Policy record  
" srczone=SELF dstzone=SELF result=0 throttledcount=20 subfamid=configura-  
tionchanges operation=0 mtype=config mid=697
```

IA Policy refers to an Internet Access Policy, but both zones are indicated as "SELF" which is incorrect.

- **PR_0000008428** — Multicast routing is enabled after adding or editing multicast on a VLAN and refreshing the screen. If multicast routing is going to be configured and disabled until a later time, the user should always disable multicast routing as the last step, after configuring **VLAN Settings**.

Here is an example of the issue:

1. Launch the TMS zl Module's Web browser interface.
2. Go to the **Network** section.
3. Select the **Routing**.
4. Go to the **Multicast** tab.
5. Under **Multicast Settings**, disable Multicast Routing by unchecking the box next to **Enable multicast routing**. Click the **Apply My Changes** button.

6. Multicast routing is disabled.
7. Add or edit a VLAN with Multicast enabled.
8. Refresh the Multicast page by pressing F5.
9. Multicast routing is now enabled (the box next to **Enable multicast routing..** is checked).

Expected Result: Multicast routing should remain disabled.

- **PR_000009404** — SSH Buffer errors are shown in logs with varying severity. These messages represent temporary and recoverable conditions, but they should all be of the same severity. Example log entries are as follows:

```
time="2008-09-30 22:14:25" severity=warning pri=5 fw=ProCurve-TMS-zl-Module  
id=ssh msg="fatal: buffer_get_string: buffer error"
```

```
time="2008-09-30 22:14:25" severity=info pri=6 fw=ProCurve-TMS-zl-Module  
id=ssh msg="fatal: buffer_get_string: buffer error"
```

```
time="2008-09-30 22:14:25" severity=minor pri=3 fw=ProCurve-TMS-zl-Module  
id=ssh msg="fatal: buffer_get_string: buffer error"
```

- **PR_000009486** — ICQ ALG does not allow two-way file transfer, but only one-way file transfer. There is no workaround for this issue. An example of the problem is described below:

Using ICQ 5.1., configure the firewall to allow TCP 5190-5193, HTTP, HTTPS and DNS. Chatting between ICQ clients works fine, but when it comes to file transfer, transferring a file from a client on the Internal Zone to the External Zone works, but one cannot transfer a file from a client on the External Zone to the Internal Zone.

- **PR_0000010267** — The TMS zl Module detects the denial of service attack 'jolt2' as 'jolt' and does not detect 'jolt'. This issue is described as follows:

There are 2 mode of operation for jolt2

- Invalidly fragmented ICMP ECHOs (pings)
- Invalidly fragmented UDP packets

The TMS zl Module only detects invalidly fragmented UDP packets and generates a log with mid=1001 with msg="Jolt attack detected". This log message should identify jolt2.

The TMS zl Module does not detect the following:

- Jolt- which sends very large fragmented ICMP packets to a target machine.
- Jolt2- Invalidly fragmented ICMP ECHOs (pings)

- **PR_0000010767** — When using RADIUS authentication, the field **NAS-Identifier** is sent for CHAP and MS-CHAP authentication requests, but not for PAP requests. If any network infrastructure requires the NAS-Identifier field, a user needs to use to CHAP or MS-CHAP at this time.

- **PR_0000011016** — When users are being authenticated by the TMS zl Module and the user accidentally closes the logout window, the user no longer has the ability to explicitly logout. The user must wait for the timeout to occur and then login again or must be explicitly disconnected by the administrator of the TMS zl Module.
- **PR_0000010023** — The TMS zl Module does not log authenticated user logins and logouts. There is no workaround for this issue at this time.
- **PR_0000011190** — When a RADIUS user attempts to login to a TMS zl Module, a log is always generated with `Attempted to login with a wrong name` despite the user being able to successfully login.
- **PR_0000011703** — When a TMS zl Module module is moved between two switch chassis with different configurations, references to VLANs can remain on the OSPF and Multicast pages. For example:
 1. Add several VLANs to the VLAN Associations page.
 2. Enable RIP on one of the VLANs just added, for example, VLAN 40.
 3. Enable OSPF on the same VLAN, for example, VLAN 40.
 4. Enable Multicast on the same VLAN for example, VLAN 40.
 5. Save changes.
 6. Move the TMS zl Module to another chassis where the VLAN (VLAN 40) used on OSPF, Multicast, and RIP, does not exist.
 7. Verify that the information related to that particular VLAN (VLAN 40) is not displayed anymore on the Zone and Routing pages.
 8. Save changes.
 9. Put the TMS zl Module back to the first chassis and verify that the information associated with the VLAN (VLAN 40) is not displayed here either, since changes were saved on previous chassis.
 10. Again add VLAN 40 to the VLAN Association page.

Actual Result: VLAN 40 is displayed on OSPF and Multicast pages.
Expected Result: VLAN 40 should only be displayed on the VLAN Associations page.
- **PR_0000011856** — When using the Web browser interface, an error message is displayed when a valid IP Address is trying to be set in some pages, such as RADIUS, IPsec Policies, and so forth. For example, this may occur when an otherwise valid IP address is added with a final space at the end. As a workaround, be sure there are no whitespace characters in the IP address. This behavior is seen in Web browser interface fields such as the following:
 - RADIUS (server address)
 - IKEv1 (local and remote gateway, local and remote Id IPsec Policies (Traffic Selectors))

- GRE (IP Tunnel, local and remote IP, selector IP and MASK)
 - SCEP (SCEP server)
- **PR_0000012477** — When logging in as an operator in the Web browser interface, some drop down selections are not disabled. This behavior does not allow an operator to perform any management functions, but the drop down selections should be disabled to prevent the impression that management operations can be performed.

For example:

Log in as an operator.

Go to **Maintenance > Update Software > Server Type** drop down selection box.

or

Go to **Authentication > RADIUS > Protocol** drop down selection box.

- **PR_0000012250** — In environments where high connection rates and high connection counts are in use, management interfaces can be slow or locked up. This will occur when the administrator has not specified a **Priority VLAN** for management in their configuration. A Priority VLAN ensures that the administrator will always have management access from the specified VLAN.
- **PR_0000012607** — ICMP replay will generate a log entry even when the setting is disabled.
- **PR_0000012802** — When adding an NSSA or STUB area to the OSPF configuration, leading zeros in the area ID are flagged as an error. For instance, **10.10.01.10** would not be accepted but **10.10.1.10** would be accepted.
- **PR_0000012838** — Using SNMP, the values of system name, contact, and location via the RFC 1213 system table cannot be changed.
- **PR_0000012937** — In a certain condition, when the TCP RST timeout value is set to zero and IPS is enabled, the TMS zl Module will not forward a TCP RST packet from one peer to another. If there is a TCP session established or half-established between client and server, and the server sends an RST Packet to close the session, the TMS zl Module will mark the session to be deleted. If IPS is enabled, the TMS zl Module will forward the RST packet to IPS. After IPS finishes processing the packet, the TMS zl Module gets the RST packet. Since TMS zl Module has already marked the session to be deleted and the RST timeout value is 0, the RST packet is not forwarded to the peer and is dropped. The problem only happens for RST packets. By setting the RST timeout value to something other than zero, this issue can be avoided.
- **PR_0000013105** — When using the **show vlans** command in a CLI session established by going through the switch interface, the VLAN information displayed is overlapped. For example:
- MGMT VLAN has been added.
 - DNS Server, default gateway and domain suffix have been added.

1. Open a Web browser interface session.
2. Go to **Network > Zones > VLAN Associations**.
3. Add two or three VLAN Associations.
4. Open a CLI session with the TMS zl Module via the switch,

```
ProCurve Switch# services d 2
```

5. Display VLAN information by using the **show vlans** command.

- **PR_0000013220** — When a software update is performed by retrieving the image via FTP, SCP, or TFTP, a generic error message is displayed for any user input error. For example, if the IP address is incorrect, if the username is wrong, or if the password is wrong, the error message simply indicates a failure and does not call out the specific problem.
- **PR_0000013324** — In the TMS zl Module CLI, the Help text for the copy command needs to be updated. For example, the following command reveals incorrect help text.

```
ProCurve Switch (tms-module-D)# copy ftp image help
```

- **PR_0000013391** — An error is produced when removing VLAN 1 from a TMS zl Module Zone: HPESP: Services zl Module C: unable to create VLAN. Configuration error. To reproduce this, start with a default switch configuration where all TMS zl Module ports are untagged in VLAN 1 by default. Then, from the TMS zl Module's CLI, use a command similar to: **vlan 1 zone external allow-switch-ip**. At this point, type **no vlan 1**. The above error message is displayed in the switch event log.
- **PR_0000013539** — In the TMS zl Module CLI, the software update commands will accept the "\" character and ignore it as input for the username and filename. Therefore, valid usernames or valid filenames that are made invalid by the addition or insertion of a "\" character in their names are accepted as valid because the "\" characters are simply ignored. The software update functionality in the Web browser interface has the same issue.
- **PR_0000013560** — When a user is in a TMS zl Module CLI session and they copy the **startup-config** file to an FTP server when the ALG for FTP is disabled, the copy command appears to hang. After about 60 seconds, the copy command will timeout and the user session can be recovered.

Example:

1. Open a TMS zl Module CLI session.
2. Disable **alg ftpv4**

```
ProCurve Switch (tms-module-D:config)# no alg ftpv4
```

3. Save the **startup-config**

```
ProCurve Switch (tms-module-D:config)#copy startup-config ftp 192.168.1.1  
backup.cfg user administrator
```

4. If prompted, enter the password for the FTP account.

CLI hangs for sixty seconds.

- **PR_0000014561** — An unexpected `group already exists` error may show up when a user deletes a group and then adds a group with the same name again. The TMS zl Module marks groups for deletion, but the actual deletion may take a few seconds. Simply wait a few seconds before adding a group with the same name as a group that was previously deleted and the error will not appear.
- **PR_0000014762** — In the Web browser interface, when the primary and secondary DNS servers' values are cleared, no error is reported, but the secondary DNS server's value is not cleared.
- **PR_0000014783** — When moving a TMS zl Module from one switch to another, DHCP Relay may not start if there is a mismatch in VLAN configuration between the switches. Specifically, if a VLAN is enabled in DHCP Relay and then the TMS zl Module is moved to another switch which doesn't have that VLAN, the DHCP Relay agent doesn't start up and DHCP Relay will not work. When moving a TMS zl Module, if you wish to maintain the TMS zl Module operation, be sure the VLAN information matches before moving the module to another switch.
- **PR_0000014785** — When executing the TMS zl Module CLI command **sh port-trigger <port-trigger_name>** where the *port-trigger-name* does not exist, an error message is displayed `Error: Operation failed` rather than an error message stating that the port does not exist.
- **PR_0000014794** — There is not a one-to-one correspondence between packets processed or dropped and the log entries that are generated - more log messages than necessary are created. The log is correct, it just has more entries than necessary to describe what happened.
- **PR_0000014823** — When adding a VLAN to a zone, the log displays two entries with the exact same message, but containing a different priority. The message describes the routing interface coming up. For example, if **VLAN 50** is added to a zone, the following two log messages are created:

```
time="2008-12-12 13:14:24" severity=warning pri=4 fw=ProCurve-TMS-zl-Module  
id=routing msg="if_rtrup: UP route for interface vlan50  
10.10.10.1/255.255.255"
```

```
time="2008-12-12 13:14:23" severity=warning pri=5 fw=ProCurve-TMS-zl-Module  
id=routing msg="if_rtrup: UP route for interface vlan50  
10.10.10.1/255.255.255"
```

- **PR_0000015081** — When using the Web browser interface for the software update feature, the **Latest Status** field is not automatically refreshed. Refreshing the browser displays the **Latest Status** correctly but also clears the download form. Although no longer needed by the TMS zl Module to perform the software update, the clearing of the download form removes some information from view.
- **PR_0000015153** — When using the TMS zl Module CLI, two commands provide an **insert-at <position>** extended option: **access-policy** and **nat**. There is no error checking on the position number provided - it is assumed that a policy or rule exists at that location. For example, when using **insert-at 1** there must be at least one policy or rule available. There must be a valid policy or rule at the position number for whatever number is specified. If one does not exist, an error is reported, but the zone information is not included in the error message.
- **PR_0000015448** — In the TMS zl Module CLI, when the attempt is made to modify the protocol or port number in a **connection-settings** command, the CLI displays the following message: Success: Updated connection timeout: <custom name>, but when the **show connection-settings timeout** command is issued, the protocol or the port number wasn't changed.

Example:

1. Configure at least one custom connection-settings timeout

```
ProCurve Switch (tms-module-D:config)# connection-settings timeout new-ftp tcp 550 10001
```

2. Update the running Custom Timeout with a different protocol and a different port number

```
ProCurve Switch (tms-module-D:config)#connection-settings timeout new-ftp udp 800 10001
```

3. Review the message displayed in the CLI:

```
Success: Updated connection timeout: new-ftp
```

4. Run the command

```
ProCurve Switch (tms-module-D:config)# show connection-settings timeout
```

The protocol and the port number of the custom connection timeout should be updated, but they are not.

- **PR_0000015462** — The VLAN name is not checked for special characters. If a VLAN name is created with special characters, when the VLAN name is displayed in the Web browser interface, problems can occur in the display of the VLAN name. The workaround is to use alphanumeric VLAN names, avoiding spaces and characters such as: @, #, \$, ^, &, *, (, and). To include a blank space in a VLAN name, enclose the name in single or double quotes ('...' or "...").

- **PR_0000015477** — When adding and removing VLANs via the CLI, additional log messages are created that are not created when using the Web browser interface to add and remove VLANs.
- **PR_0000015522** — There is a difference in how the timezone information is displayed in the TMS zl Module as compared to the switch. The TMS zl Module follows the POSIX standard for displaying the time, for example, 'GMT+6' is displayed to indicate the timezone. However, the switch uses a negative number to set the timezone. The time is correctly displayed in both cases, but the process to set the timezone may cause some confusion.
- **PR_0000016231** — Some log entries for warning logs and information logs have messages that are truncated in the log viewer. The most log messages are not truncated and those that are contain enough information that a user can tell what they are about. However, the messages have more information in them than can be displayed.
- **PR_0000016539** — When using the TMS zl Module CLI, the **radius-server help** command gives options that are not available.
- **PR_0000016546** — A TMS zl Module module that incorrectly has duplicate IP addresses for its VLANs may cause the TMS zl Module SNMP daemon to restart, which may hide the actual problem from a user. While it is incorrect to have duplicate IP addresses, this may occur, and the SNMP daemon restart may send the administrator down the wrong troubleshooting path.
- **PR_0000016812** — When a user incorrectly logs into a TMS zl Module resulting in an authentication failure, if the TMS zl Module is setup to send traps, it will send an authentication failure trap. However, the trap does not contain the user's IP address or the username.
- **PR_0000016892** — When the local log contains more than 10,000 entries, the oldest entries (after the 1,000th entry) are displayed in a wrong position.

Steps to reproduce:

1. Get more than 10,000 entries in the local log
 2. Either export the local log or, in the Web browser interface, set the number of entries per page to 500 and go to page 6.
- **PR_0000018145** — In the Web browser interface, if a VLAN is added with an invalid IP address in the range 224.0.0.0 - 254.255.255.255, an error is returned stating: VLAN could not be added. Failed to add VLAN IP address, but the VLAN is actually added, but not associated to any zone. In the CLI, the error message only states: Error: Failed to set VLAN IP address:
 - **PR_0000018197** — The Web browser interface Help incorrectly states the number of VLAN associations supported as 21. It should be 19.

- **PR_000000999** — In the Web browser interface, **Firewall > Access Policies**, if a user deletes all the rules in an access policy, the Web browser interface doesn't remove the empty policy until a screen refresh is done. This is a visual issue only, the policy has actually been removed.
- **PR_000002379** — In the Web browser interface, when adding a Service Object, if the Service Object already exists, an error message is displayed. The error message refers to an Address Object instead of a Service Object.
- **PR_000002387** — In the TMS zl Module CLI, when creating a Service Object, the value of zero cannot be set as a protocol number although zero is a valid protocol number.
- **PR_000002485** — When there are a large number of firewall access policies, the Web browser interface may take some time to load these policies to display to a user. For example, with approximately 2,000 policies, loading them takes about 15 seconds or less. However, when the number of firewall access policies increased, to around 15,000, the time to load the Web page approaches three minutes.
- **PR_000005580** — When adding an access policy, the administrator is always asked about a source port, which is not applicable for all protocol selections.
- **PR_000006312** — In the Web browser interface, an invalid error message is displayed when inserting a policy at the first position when no policies exist.

Example:

1. Go to **Firewall > Access Policies > Unicast** page.
2. Select **Add a Policy...**
3. Set the following fields as specified below.
 - Action = Permit Traffic
 - From: = Internal (this field depends on your management zone that was set by the CLI)
 - To: = Self
 - Service, Source and Destination = Any
 - Insert Position: = 1
4. Click the **Apply** button.

Expected result: The access policy should be added in the first position.

Actual Result: An error message is displayed but the policy is added.

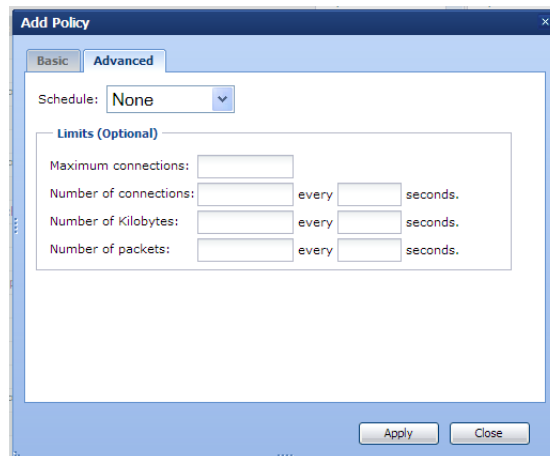
- **PR_000008074** — When a new named object (for example, an Address Object, Service Object, and so on) is added, a log entry is generated referring to an **IPDB record modified**. This simply means that the IP database that keeps track of these things was modified. See the following example log entry:

```
time="2008-08-09 18:10:32" severity=info pri=6 fw=ProCurve-TMS-z1-Module  
id=config_configuration ruleid=0 msg="IPDB record modified" srczone=SELF  
dstzone=SELF result=0 throttledcount=0 subfamid=configurationchanges oper-  
ation=0 mtype=config mid=1051 recname=b2222
```

- **PR_000009711** — When a user authenticates by way of the firewall using RADIUS, they get the correct policy for their group. However, if the policy is changed while the user's session is active, the user is not disconnected automatically to force re-authentication to provide the updated policy. In contrast, a user that is authenticated by way of the Local database is disconnected and must re-authenticate when the policy is updated.

Example:

1. Use username/password to RADIUS Authenticate to the TMS z1 Module through the firewall.
 2. From a separate management session, delete all access for that user group
 3. The user still has access through firewall
- **PR_0000011874** — On the **Firewall > Access Policy > Unicast** page in the Web browser interface, when adding a policy there is an advanced tab that allows for limit settings.



The valid range for entries in **connections**, **Kilobytes**, **packets**, and **seconds** are not listed. The valid ranges are 1 - 4294967295 for all fields except **Kilobytes**, which is 1 - 4194304.

- **PR_0000012598** — In the Web browser interface, address objects and address groups can be added using the same name. This results in ambiguity when adding an access policy. To prevent such ambiguity, make sure address objects and address groups have unique names. Service objects and service groups also should have unique names.
- **PR_0000015328** — When a DNS object has been created and used in an access policy, if the DNS name cannot be resolved, no further packet processing is done and the packet is dropped. This behavior can cause problems when the DNS server is unavailable. To prevent

these problems, minimize the use of DNS objects. If you must use them, be sure to put them towards the end of the list of rules so that other processing can take place on the packet before the attempt to resolve the DNS name is made.

- **PR_0000017344** — In the Web browser interface for the Firewall Access Policy, adding an access policy is done using a dialog. This dialog has drop-down boxes for source and destination zones. These drop-down boxes do not accept **ANY** as a value. However, if you customize the HTTP POST request sent from the browser and modify it to include **ANY** for the zone, it will be accepted.
- **PR_0000018409** — A log entry with **mid=677** is generated for an invalid TCP packet where the flags of RST+ACK are set. This log message indicates that the packet was dropped, but in fact, it was not dropped; it was sent to the TCP peer.

IPS/IDS

- **PR_0000010287** — In the signature file for the TMS zl Module, there are a few mentions of IPv6. This is incorrect. The TMS zl Module is an IPv4 only device.
- **PR_0000018204** — If you filter signatures by severity, then disable a family of signatures, the expected result is that all displayed signatures in that family will be disabled. However, the actual result is that only some of the signatures displayed get disabled. This can be observed by viewing **info** signatures, then disabling the XSS family. When the operation completes, refresh the page, and view **info** signatures. When you inspect the XSS family you will see that not all XSS family **info** signatures are disabled.

VPN

- **PR_0000015755** — When displaying the number of VPN tunnels in the Web browser interface, there may be unnecessary blank pages at the end of the display. All the VPN tunnel information is displayed first, but these unnecessary blank pages appear at the end.
- **PR_0000017972** — In the Web browser interface, in the Help for VPN, the wrong performance numbers are reported.
- **PR_0000038173** — Misleading error messages appear when adding or editing an IKE policy in the Web browser interface (**VPN > Certificates > IPsec Certificates**).
- **PR_0000038217** — Occurs when a user adds an IPsec policy with Key Exchange Method as Manual and enters an SPI number which is already in use by another IPsec policy. Workaround: Use an SPI number which is not in use by another IPsec policy.
- **PR_0000038218** — Cannot change a **bypass** or **ignore** policy to **apply** with key exchange method **manual**. Workaround: Delete the policy and add a new one.
- **PR_0000038226** — Changing a **bypass** or **ignore** IPsec policy to **apply** shows an erroneous key exchange method. Workaround: Delete the policy and add a new one.

- **PR_0000038228** — A misleading error occurs when the traffic selector's IP range starts or ends with **255**. Workaround: Correct the range.
- **PR_0000038229** — IPsec policy advanced settings are displayed incorrectly after the default settings are changed and then edited in the Web browser interface.
- **PR_0000038231** — On the advanced settings screen (**VPN > IPsec > IPsec Policies**) **Enable fragment before IPsec** cannot be disabled.
- **PR_0000038232** — Moving an IPsec policy to another position may not set it in the desired position. Workaround: Delete the policy and add a new one in the correct position.
- **PR_0000038238** — A misleading error occurs when importing an invalid certificate file. Workaround: Import a valid file.
- **PR_0000038240** — Cannot import IPsec Certificates (intermittently fails) from the Web browser interface (**VPN > Certificates > IPsec Certificates**).
- **PR_0000038887** — VPN connections truncate local gateway addresses, preventing a user from seeing all the information for an established tunnel.

High Availability (Active/Standby)

- **PR_0000007372** — From the TMS zl Module CLI, the high-availability command does not accept CIDR notation.

```
ProCurve Switch 5406zl(tms-module-D:config)# high-availability ip 192.168.1.1/24
Invalid input: 192.168.1.1/24
```

- **PR_0000008257** — On the HA configuration page in the Web browser interface, if you change the Multicast IP and then refresh the HA page, you lose your changes. You must save and reboot for the changes to take effect.
- **PR_0000009541** — The switch Web browser interface **config** link directs a user to the HA IP address instead of the TMS zl Module's management IP address.

Example:

There are two TMS zl Modules setup in Active/Standby mode for High Availability

1. Open the switch management Web browser interface
2. Select the **Configuration** tab
3. In the **Device View** page in the Switch Web browser interface press the **Details** link on the TMS Zl module.

Expected Results: the link should direct the user to the management IP address.

Actual Results: the link directs the user to the High Availability IP address.

- **PR_0000009688** — After an HA link is restored, the TMS zl Module with higher priority does not rejoin the cluster as a Master.

- Example:

1. Configure a module in HA as Master (Active) with priority set to 1.
2. Configure a module as Participant (Standby) with priority set to 254.
3. Once both modules are in the cluster, remove the HA link (cable) that connects both switches.

Both devices become Master independently.

4. Re-connect the HA link.

Expected Results: The module with priority set to one (original Mater) becomes Master again.

Actual Results: Device with lower priority joins the cluster as Master and the one with higher priority joins as Participant.

At first glance, this seems to be incorrect, but it is actually done by design. It is assumed that there is something wrong with the module that failed, for example, an intermittent problem. As a result, once the link is rejoined, the module that was Master joins back as a participant (standby) in an attempt to prevent any future issues.

- **PR_0000010844** — When a Participant joins or leaves a cluster, there is very little detail to the log entries describing these important events and these events must be inferred.
- **PR_0000014506** — When an HA configuration is configured for Active/Standby and the Master has IPS enabled and has downloaded the latest signature file, the Participant will not show the correct version of the signature file. The actual signatures are synchronized correctly, but the file name is not.

Example:

Precondition: Master and Participant already on a cluster

1. Download the signatures on the Master.
2. Wait until the Participant reboots and re-joins the cluster.
3. Run **sh ips** command on the Participant

In the output, the Last Signature Download field appears as None even though the signatures were synchronized.

- **PR_0000014823/0000014916** — When using the TMS zl Module CLI, the **high-availability** command lists a **rebalance** option that is not valid for Active/Standby mode. In the Web browser interface for High Availability, a rebalance button is also present.
- **PR_0000015913** — When using High Availability in Active/Standby mode, if the connection count is high and the connection rate is high, the transfer of TCP state information between the Master and Participant may be too large and it doesn't complete. Once the connection

rate or count drops, the state is transferred correctly. However, should a failover from the Master to the Participant occur at the time when TCP state information cannot be sent, there will be an additional failover delay as applications re-establish their TCP state with the Participant (now the Master after the failover).

Monitor Mode Only

- **PR_000005928** — When in Monitor Mode, a scan of the open ports will reveal TCP port 616 and TCP port 9999 as being open. The only way to block these ports is to setup a firewall access policy to restrict them.
- **PR_000007533** — If the TMS zl Module is in monitor mode, the IDS logs incorrectly show zones **Internal** and **Zone6** in the logs for data and management. These zone references are not correct and should be ignored.
- **PR_0000011929** — When in monitor mode and using the TMS zl Module CLI, if you add an management IP address, the CIDR format of IP-Address/mask is not accepted and you must enter the IP address and Subnet Mask as separate values.
- **PR_0000014582** — In monitor mode, the CLI command **ips help** does not reflect the commands that are actually available in monitor mode as opposed to routing mode.
- **PR_0000015755** — In monitor mode, the management VLAN can be deleted from the switch. In routing Mode, the user is prevented from making this change on the switch.

Example:

Preconditions: monitor mode, management VLAN and management IP address have been set. In this example, the management VLAN is 30.

Delete the management VLAN from the switch CLI.

```
ProCurve Switch (tms-module-D:config)# no vlan 30
```

An error message should be displayed preventing the deletion of the VLAN due to its use by the TMS zl Module. A user is not prevented from performing this action and the VLAN is deleted. As a result, the Web browser interface of the TMS zl Module can't be accessed because the management VLAN has been deleted

- **PR_0000017758** — In monitor mode, when IPS full inspection is turned on and the FTP ALG is turned off, sending an FTP copy of the startup configuration to the network fails with a broken pipe error.



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