

# Ethernet Routing Switch 5000 Series Software Release 6.2.8

## 1. Release Summary

Release Date: April 21, 2014

Purpose: Software patch release to address customer and internally found software issues.

## 2. Important Notes before Upgrading to This Release

Please note that Release Notes for all prior releases 6.2.X are still applicable to this release.

## 3. Platforms Supported

**Ethernet Routing Switch 5510/5520/5530/5698TFD (-PWR)/5650TD (-PWR)/5632FD.**

## 4. Notes for Upgrade

Please see "Ethernet Routing Switch 5000 Series, Configuration – System, Software Release 6.2" (NN47200-500, available at <http://www.avaya.com/support>. Click Products, select Ethernet Routing Switch 5000 Series from the A-Z list, then select Documentation > View All Documents) for details on how to upgrade your Switch.

## File Names for This Release

File Name	Module or File Type	File Size (bytes)
5xxx_60018_diags.bin	Diagnostic image	2,471,456
5xxx_628028.img	Agent code image	18,461,180
5xxx_628029s.img	Agent code image (SSH)	19,208,548

## 5. Version of Previous Release

Software Version 6.2.7.

## 6. Compatibility

This software release is managed with Enterprise Device Manager.

## 7. Changes in This Release

### 7.1. New Features in This Release

#### 7.1.1 Network Time Protocol (NTP)

The switch now can support either Simple Network Time Protocol (SNTP) or Network Time Protocol (NTP) for time synchronization. NTP is often more widely used to synchronize system clocks to universal standard time as compared to SNTP, as the NTP protocol provides a more reliable and secure means to achieve time synchronization. NTP supports the option to authenticate NTP connections to the server, thereby ensuring a secure means of information exchange from known or trusted servers. You can configure NTP with up to 10 IPv4 servers.

#### New or Changed ACLI List

The commands or parameters emphasized using bold typeface below are new. Clock source can be set in the Global Configuration mode.

```
(config)# clock source { ntp | sntp | sysUpTime | rtc }  
(config)# default clock source
```

The default clock source is SNTP.

```
(config)# [default|no] clock { sync-rtc-with-ntp } enable
```

By default RTC is not synchronized with either NTP or SNTP. Either SNTP or NTP synchronization can be configured, not both at once.

NTP configuration can be changed in Global Configuration mode using the 'ntp' NNCLI command.

Enable NTP globally and optionally specify the interval (in minutes) between NTP updates:

```
(config)# ntp [interval <10-1440>]  
(config)# no ntp  
(config)# default ntp [interval]
```

The default global state is disabled and the default interval is 15 minutes.

A maximum of 10 authentication keys for MD5 authentication can be created using the following command:

```
(config)# ntp authentication-key <1-2147483647> <word>  
(config)# no ntp authentication-key [ <1-2147483647> ]  
(config)# default ntp authentication-key [ <1-2147483647> ]
```

A maximum of 10 NTP server entries can be added using the following command:

```
(config)# ntp server { <A.B.C.D> }  
(config)# default ntp server <A.B.C.D>
```

Delete a NTP server:

```
(config)# no ntp server <A.B.C.D>
```

Configuring additional options for an NTP server identified by its IP address:

```
(config)# ntp server { <A.B.C.D> } [auth-enable] [authentication-key <0-2147483647>] [enable]
(config)# default ntp server { <A.B.C.D> } [auth-enable] [authentication-key] [enable]
(config)# no ntp server { <A.B.C.D> } [auth-enable] [enable]
```

The NTP configuration, status and statistics can be viewed using the 'show' commands available in Exec mode.

Display NTP global settings:

```
#show ntp
```

```
#show ntp

NTP Client global configuration
-----
NTP Client enabled: true
Update Interval   : 15 minutes
Last NTP update   :
```

Display NTP authentication keys:

```
#show ntp key
```

```
#show ntp key

Key ID      Key
-----
1           test1
1911        test2
```

Display NTP server list and settings:

```
#show ntp server
```

```
#show ntp server

Server IP                               Enabled  Auth  Key ID
```

```
-----
192.167.120.22                true      true      1911
```

Display NTP statistics:

**#show ntp statistics**

```
#show ntp statistics

          NTP Server : 192.167.120.22
-----
          Stratum    : 5
          Version    : 2
          Sync Status : synchronized
          Reachability : reachable
          Root Delay  : 0.19053647
          Precision   : 0.00000000
          Access Attempts : 29
          Access Success : 11
          Access Failure : 18
```

### New or Changed EDM List

The NTP configuration screens can be found under Configuration → Edit → NTP path.

### 7.1.2 VLAN ID (Element ID 58) information is now contained in the IPFIX exported flows (wi01141727)

Based on the request from wi01141727, the VLAN ID information is now contained in the IPFIX exported flows.

### New or Changed ACLI List

The VLAN ID information for IPFIX can be seen with the following ACLI command.

The commands or parameters emphasized using bold typeface below are new, as shown in the example below.

```
(config)#show ip ipfix table sort-by byte-count sort-order ascending display top-10
```

HW SA DA	IP SA DA	TOS PROTOCOL	L4 SRC DST	PACKET BYTE	TIME FIRST LAST	
		<b>VLAN</b>			<b>UNIT/PORT</b>	
000000000023	22.001.001.002		0	0	1	0 days, 00:16:46
000000000045	44.001.001.002	Reserve	255	0	64	0 days, 00:16:46
			<b>4094</b>			21
000000000044	44.001.001.001		0	0	25	0 days, 00:15:33
000000000022	22.001.001.001	Reserve	255	0	1600	0 days, 00:16:49
			<b>4094</b>			23

```

000000000045 44.001.001.002          0      0      35      0 days, 00:14:37
000000000023 22.001.001.002 Reserve 255      0      2240     0 days, 00:16:45
                                4094
                                23
000000000022 22.001.001.001          0      0      99      0 days, 00:11:12
000000000044 44.001.001.001 Reserve 255      0      6336     0 days, 00:16:50
                                4094
                                21
    
```

Only 4 entries found

There is no EDM support for this VLAN ID information for IPFIX.

## 7.2 Old Features Removed From This Release

None.

## 7.3 Problems Resolved in This Release

While upgrading from 6.1.x to 6.2.6 code, the fiber port with auto-negotiation disabled loses its configuration and becomes 10/half (**wi01104315**)

Unable to do snmpset on OID 1.3.6.1.4.1.2272.1.3.3.1.3 (rcVlanPortVlanIds) from an SNMP agent (**wi01094718**)

Telnet session lockout (**wi01165259**)

tEap exception errors after loopback test (**wi01150202**)

Stack instability with SW exceptions in 'bcmRX' (**wi01165312**)

Stack base unit instability with 'bcmRX' and 'Unknown Task ID' exceptions (**wi01165317**)

Syslog error "VLAN NVRAM read error" (**wi01165264**)

Show Environmental displays bad value for temperature (**wi01128412**)

High CPU utilization with task "tLAC" taking 67% of the CPU (**wi01165277**)

Regardless of the base MAC address, SLPP packets were sent with source MAC address starting with 00:xx:xx:xx:xx:xx (**wi01132823**)

SLPP packets loop over MLT ports when there is sub-second link flap with VLACP enabled on MLT (**wi01117492**)

Task tL3Mgr is suspended and routing was no longer for unit(s) in stack (**wi01131099**)

The IPFIX VLAN ID (Element ID 58) information was not exported (**wi01141727**)

Fan running at warning level error while "show env" displays the fan to be operational (**wi01165278**)

Stack reboot with software exception "(Sw Exception: Task IP, Type Data Access, PC 0x00ff538c, SP 0x06ba6980)" (**wi01134528**)

Error setting ARP inspection when configuring ports on BU (**wi01165285**)

A memory corruption could occur when SLPP enabled on Vid > 256 (**wi01165288**)

## 8. Outstanding Issues

**wi01148355** - VLACP: Disabling VLACP on all DUTs in SLT setup, is causing all traffic to be dropped  
Workaround: when issue is caused by enable/disable VLACP, shut/no shut of affected ports restores traffic flow.

**wi01148458** - SLT: Rebooting BU from Core DUT, is causing all traffic to be filtered when the unit re-enters the stack. Work Around: shut/no shut the corresponding SLT/SMLT links.

**wi01162006** - VLACP port is down after bringing up port shut by SLPP due to loop detected in SLT setup  
Work Around:

- disable and then enable VLACP on affected interfaces
- after VLACP has partner, shut & no shut

## 9. Known Limitations

wi01164610 - QOS: One out of 32 range checkers is not available for the user on 5600

wi01165837 - RTC cannot be synchronized with SNTP server if a NTP server is configured and synchronized

## 10. Documentation Corrections

None.

For other known issues, please refer to the product release notes and technical documentation available from the Avaya Technical Support web site at: <http://www.avaya.com/support> .

## 11. Troubleshooting

As good practices of help for troubleshooting various issues, AVAYA recommends:

- configuring the device to use the Simple Network Time Protocol to synchronize the device clock;
- setting a remote logging server to capture all level logs, including informational ones. (#logging remote level informational).

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