Ethernet Routing Switch 4800 Series
Software Release 5.9.4

1. Release Summary

Release Date: 07-October-2016
Purpose: Software patch release to address customer and internally found software issues.

2. Important Notes Before Upgrading to This Release

None.

3. Platforms Supported

Ethernet Routing Switch 4800 (all models).

4. Notes for Upgrade

Please see "Release Notes for Avaya Ethernet Routing Switch 4000 Series Release 5.9.2, NN47205-400", available at http://www.avaya.com/support for details on how to upgrade your Switch.

File Names for This Release

File Name	Module or File Type	File Size (bytes)
4000_58001_diag.bin	Diagnostic image	1,934,853
4800_594022.img	Agent code image	12,044,760
4800_594023s.img	Agent code image (Secure / SSH)	12,338,632

5. Version of Previous Release

Software Version 5.9.3.

6. Compatibility

This software release is managed with Enterprise Device Manager (EDM).

7. Changes in This Release

New Features in This Release

PoE enhancements

You can configure a port to power up a non-standard Powered Device (PD) using the **poe poe-power-up-mode** command. The default power up mode for 4800 is 802.3af. The port mode can be configured as high inrush to power up a high powered, non-standard PD instantaneously as soon as it is connected.

The following ACLI command outputs are modified:

• show poe-port-status

```
4826GTS-PWR+(config)#show poe-port-status
      Admin   Current                          Limit           Power-up
Port  Status  Status          Classification  (Watts) Priority Mode
----  ------- --------------- --------------  ------- -------- -----------
1     Enable  Detecting             0           32     Low     High Inrush
2     Enable  Detecting             0           32     Low     802.3af
3     Enable  Detecting             0           32     Low     802.3af
```

• show running-config

```
4826GTS-PWR+(config-if)#show running-config module poe
! Embedded ASCII Configuration Generator Script
! Model = Ethernet Routing Switch 4826GTS-PWR+
! Software version = v5.9.4.023
!
! Displaying only parameters different to default
!=================================================
enable
configure terminal
!
! *** PoE ***
!
interface Ethernet ALL
poe poe-power-up-mode port 1 high-inrush
exit
```

The following ACLI command is new:

• poe poe-power-up-mode [802.3af | high-inrush | port <portlist> | pre-802.3at]

```
4826GTS-PWR+(config)#int fa 1
4826GTS-PWR+(config-if)#poe poe-power-up-mode high-inrush
4826GTS-PWR+(config-if)#show poe-port-status
      Admin   Current                          Limit           Power-up
Port  Status  Status          Classification  (Watts) Priority Mode
----  ------- --------------- --------------  ------- -------- -----------
1     Enable  Detecting             0           32     Low     High Inrush
2     Enable  Detecting             0           32     Low     802.3af
3     Enable  Detecting             0           32     Low     802.3af
```

A new SNMP object is added:

```
bspePethPsePortExtPowerUpMode OBJECT-TYPE
    SYNTAX       INTEGER {
                 802dot3af(1),
                 highInrush(2),
                 pre802dot3at(3)
                 }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Describes the power up mode for the current port.
         The value 802.3af(1) indicates an inrush current of 400mA-450mA.
         The value highInrush(2) indicates an inrush current as described
         by the Icut/Ilim (default is 700mA - 1.0A).
         The value pre802dot3at(3) indicates an inrush current
         of 400mA-450mA, which is switched to higher Ilim (700mA-1.0A)
         within 75 miliseconds, after the port is powered up."

    ::= { bspePethPsePortExtEntry 10 }
```

EDM has a new field for the port power up mode in the power management section, PoE Ports tab.
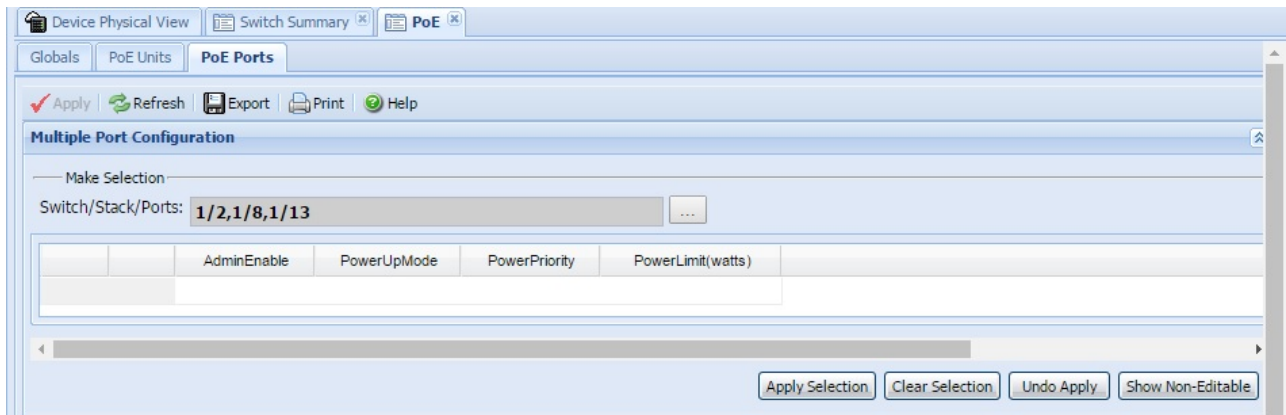
Disable SSH Client and Telnet Out access

Users with read-write access can disable the SSH and Telnet clients. This command disables the ability for a user to initiate a Telnet or SSH session from the switch and can be used only on the base unit.

All open SSH Client or Telnet Out sessions are closed immediately if the remote access is disabled.
By default, the remote access is enabled.

The following are the new ACLI commands:

> • **show remote connection**
> ```
> 4826GTS-PWR+(config)#show remote connection
> ```

```
% Remote access for this device is: Enabled
```

• remote connection enable | disable
```
4826GTS-PWR+(config)#remote connection enable
% Remote access has been enabled on this device !

4826GTS-PWR+(config)#remote connection disable
% Remote access has been disabled on this device !
```

This enhancement has no SNMP/EDM support in this release.

Old Features Removed From This Release

None.

Problems Resolved in This Release

ERS454800-1850 - Config Backup failing using NNI links through NBU

ERS454800-2366 - Traffic duplication in the SPB cloud when pinging an ERS 4000 (Mgmt IP)

ERS454800-2107 - Base Unit Reboots with Exception tRadRecv As soon As Radius Accounting Enabled

ERS454800-2040 - Skewed behavior of Storm-Control feature for IPv4 and IPv6 traffic

ERS454800-2160 - After upgrading to the software version (5.9.2.047s), unable to ping to the PCs on Non-base units from the Switch.

ERS454800-782 - ERS 4800Pwr+: fail to provide 23W at once after reboot or device power on

ERS454800-2416 - Authentication Failure Logged on switch when EDM is launched from COM

ERS454800-2204 - Multicast traffic loss when roaming IPMC sender, IGMP snooping & WLAN scenario

ERS454800-2438 – 'Unicast block unit/port 2/12 level 858993459 watermark 250000' error seen in logs while port stats show barely any unicast packet

ERS454800-2441 - Storm control configuration is incorrectly reflecting on Trunk ports

ERS454800-2482 – In certain conditions switch reboots with a "bcmRX" exception

ERS454800-2369 - ISIS Hello packets from adjacent switch incrementing the InDiscards/Filtered packets count on the ERS port

8. Outstanding Issues

None.

9. Known Limitations

ERS454800-2204 - Multicast traffic loss when roaming IPMC sender, IGMP snooping & WLAN scenario
The fix included in 5.9.4 covers only non-SPBM environments.

10. Documentation Corrections

ERS454800-2232 - Documentation was updated to inform about the limitation described in ERS454800-2127: ERS 4000: Auto-negotiation setting change to custom after upgrade.

Workaround: After upgrading the software image from 5.6.x to >=5.7.0 releases the port speed and auto-negotiation-advertisements settings must be defaulted for the SFP+ ports (25-26 on ERS4826 and 49-50 on ERS4850) to avoid link issues on these ports. In order to correct the settings after the upgrade, run default auto-negotiation-advertisements port <25-26 | 49-50> followed by default speed port <25-26 | 49-50>

Documentation update - page 47, Release Notes for Avaya ERS 4800 Series, Release 5.9.2 NN47205-400 Issue 13.07 August 2016

ERS454800-2157 - Documentation update related to nnMstGeneralEvent:

"Configurable" section was changed to be "System-wide" instead of "Always on".
"Sent when" section is now: "A general event, such as protocol up or protocol down, occurs. The event could be port based or instance based."
Documentation update - page 448 in "Configuring Security on Avaya Ethernet Routing Switch 4800 Series" Release 5.9.2 NN47205-505 Issue 12.08 August 2016

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).