Fast Ethernet Switch ES4627MB-FLF-EC

***Phase 5 Firmware Version 1.5.2.7***

**INTRODUCTION:**

The ES4627MB is a 26/50-port 10/100/1000 L2 Gigabit Ethernet Switch.

Local Console Management (LCM) allows the user to monitor and configure the ES4626F-SW/ES4650F-SW from a VT-type terminal. LCM can be used to configure features such as SNMP community names and access rights, Port Enable/Disable, firmware downloads, and Device IP address as well as most other parameters. LCM can also provide statistical and diagnostic information about the entire device or an individual port.

Management of the switch is password protected; the same password is used for LCM and for the Web browser interface. Prior to accessing the Management Module via a network connection, a valid IP address, subnet mask, and in some cases a default gateway must be configured using an out-of-band connection or the BootP/DHCP protocol. The management option provides SNMP, RMON (4 groups: 1,2,3,9), and Web management for system control and statistical monitoring.

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| **It is recommended that one thoroughly review this release notes prior to the installation or upgrade of this product.** |

**Firmware Specification:**

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| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| Testing Version | 0.0.0.7 | InitCC: EC\_VOB main(2012/2/20 3:00PM) | 2012/2/20 |
| Testing Version | 0.0.0.8 | InitCC: EC\_VOB main(2012/2/22 2:00PM) | 2012/2/22 |
| RD Version | 0.0.0.9 | CC: EC\_VOB main(2012/3/1 10:00AM) | 2012/3/1 |
| RD Version | 0.0.1.0 | CC: EC\_VOB main(2012/3/6 10:00AM) | 2012/3/6 |
| PR Version | 0.0.1.1 | 0.0.1.0+fs.c/14 | 2012/3/7 |
| NTC Version | 0.0.1.2 | CC: EC\_VOB main(2012/3/9 1:30PM) | 2012/3/9 |
| RD Test Version | 1.1.0.1 | CC: EC\_VOB main(2012/3/21 1:30PM) | 2012/3/21 |
| NTC Test Version | 1.1.1.0 | CC: EC\_VOB main(2012/3/30 10:00AM) | 2012/3/30 |
| Phase1.0 Release Version | 1.1.2.0 | All the same as 1.1.1.0 except version number | 2012/4/10 |
| Phase2.0 RD Test Version | 1.2.1.0 | CC: EC\_VOB main(2012/5/2 10:00AM) | 2012/5/2 |
| Phase2.0 RD Test Version | 1.2.1.1 | CC: EC\_VOB main(2012/5/21 10:00AM) | 2012/5/21 |
| Phase2.0 RD Test Version | 1.2.1.2 | All the same as 1.2.1.1 except fix a PoE issue | 2012/5/22 |
| Phase2.0 TS Test Version | 1.2.1.4 | CC: EC\_VOB main(2012/7/5 10:00AM) | 2012/7/5 |
| Phase2.0 TS Test Version | 1.2.1.6 | CC: EC\_VOB main(2012/7/31 10:00AM) | 2012/7/31 |
| Phase2.0 TS Test Version | 1.2.1.7 | CC: EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.2.1.5\_Ph2\_profile (2012/8/9 1:30PM) | 2012/8/9 |
| Phase2.0 Pilot Run Version | 1.2.2.0 | All the same as 1.2.1.7 except Version number modification | 2012/8/13 |
| Phase3.0 RD Test Version | 1.3.1.0 | CC: EC\_VOB main(2012/8/15 10:00AM) | 2012/8/15 |
| Phase3.0 RD Test Version(Sample Run)(Cancel) | 1.3.1.1 | CC: EC\_VOB main(2012/8/30 5:00PM) | 2012/8/30 |
| Phase3.0 RD Test Version(Sample Run) | 1.3.1.2 | All the same as 1.3.1.1 and fix diag issue (ES4627MB-FLF-EC-00227) | 2012/9/4 |
| Phase3.0 RD Test Version | 1.3.1.3 | CC: EC\_VOB main(2012/9/20 3:00PM) | 2012/9/20 |
| Phase3.0 RD Test Version | 1.3.1.4 | CC: EC\_VOB main(2012/10/3 10:00AM) | 2012/10/3 |
| Phase3.0 NTC test Version | 1.3.1.5 | All the same as 1.3.1.4 and fix ip issues (ES4627MB-FLF-EC-00250) | 2012/10/5 |
| Phase3.0 RD Test Version | 1.3.1.6 | CC: EC\_VOB main(2012/11/5 10:00AM) | 2012/11/5 |
| Phase3.0 NTC test Version | 1.3.1.7 | CC: EC\_VOB main(2012/11/?? 10:00AM) | 2012/11/23 |
| Phase3.0 NTC Test Version | 1.3.1.8 | CC: EC\_VOB main(2012/12/21 2:30 PM) | 2012/12/21 |
| Phase3.0 NTC Test Version | 1.3.2.0 | CC: EC\_VOB main(2012/12/26 4:30 PM) | 2012/12/27 |
| Phase3.1 Test Version | 1.3.2.1 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2012/12/26 4:30 PM) | 2013/2/21 |
| Phase3.1 Test Version | 1.3.2.2 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2013/5/6 10:00 AM) | 2013/5/6 |
| Phase3.1 Test Version | 1.3.2.3 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2013/6/10 3:00 PM) | 2013/6/10 |
| Phase3.1 Test Version | 1.3.2.4 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2013/6/14 10:00 AM) | 2013/6/14 |
| Phase3.1 Test Version | 1.3.2.5 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2013/7/19 10:00 AM) | 2013/7/19 |
| Phase3.1 Test Version | 1.3.2.6 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2013/7/25 10:00 AM) | 2013/7/25 |
| Phase3.1 Test Version | 1.3.2.7 | CC: ES4626F-SW-FLF-38\_ES4627MB\_V1.3.1.7\_Ph3\_profile(EC\_VOB) (2013/8/12 10:00 AM) | 2013/8/12 |
| Phase3.1 Formal Release Version | 1.3.4.0 | All the same as 1.3.2.7 except version number modification | 2013/8/14 |
| Phase4 RD test version | 1.4.0.0 | EC\_VOB main (2013/8/16 4:00 PM) | 2013/8/16 |
| Phase4 RD Test Version | 1.4.0.1 | EC\_VOB main (2013/9/10 10:00 AM) | 2013/9/10 |
| Phase4 RD Test Version | 1.4.0.2 | EC\_VOB main (2013/9/13 10:00 AM) | 2013/9/13 |
| Phase4 RD Test Version | 1.4.0.3 | EC\_VOB main (2013/11/4 10:00 AM) | 2013/11/4 |
| Phase4 NTC Test Version | 1.4.1.0 | EC\_VOB main (2013/11/7 10:00 AM) | 2013/11/7 |
| Phase4 NTC Test Version | 1.4.1.2 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.4.1.0\_Ph4\_branch (2013/11/25 3:00 PM) | 2013/11/25 |
| Phase4 NTC Test Version | 1.4.2.0 | All are the same as V1.4.1.2 except version number | 2013/11/29 |
| Phase5 RD internal test version | 1.5.1.6 | EC\_VOB main (2013/12/18 10:00AM) | 2013/12/18 |
| Phase5 RD internal test version | 1.5.1.7 | EC\_VOB main (2013/12/23 2:00PM) | 2013/12/23 |
| Phase5 NTC test version | 1.5.1.8 | EC\_VOB main (2013/12/27 2:00PM) | 2013/12/27 |
| Phase5 RD internal test version | 1.5.1.9 | EC\_VOB main (2014/1/13 2:00PM) | 2014/1/13 |
| Phase5 RD internal test version | 1.5.1.10 | EC\_VOB main (2014/1/23 9:30PM) | 2014/1/23 |
| Phase5 RD internal test version | 1.5.1.11 | EC\_VOB main (2014/1/24 4:30PM) | 2014/1/24 |
| Phase5 RD internal test version | 1.5.1.12 | EC\_VOB main (2014/2/12 1:30PM) | 2014/2/12 |
| Phase5 NTC test version | 1.5.1.13 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/2/17 9:30AM) | 2014/2/17 |
| Phase5 EIT test version | 1.5.1.14 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/3/17 2:00PM) | 2014/3/17 |
| Phase5 test version | 1.5.1.15 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/3/24 1:30PM) | 2014/3/24 |
| Phase5 NTC test version | 1.5.1.16 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/3/28 9:30AM) | 2014/3/28 |
| Phase5 Formal Release | 1.5.2.0 | All the same as V1.5.1.16 except changing the version number | 2014/4/29 |
| Phase5 Patch version | 1.5.2.1 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/5/13 3:00PM) | 2014/5/13 |
| Phase5 patch version | 1.5.2.2 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/5/16 10:00AM) | 2014/5/16 |
| Phase5 patch version | 1.5.2.3 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/6/11 1:30PM) | 2014/6/11 |
| Phase5 patch version | 1.5.2.4 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/6/13 3:00PM) | 2014/6/13 |
| Phase5 patch version | 1.5.2.5 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/7/16 9:30AM) | 2014/7/16 |
| Phase5 patch version | 1.5.2.6 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/10/8 9:30AM) | 2014/10/8 |
| Phase5 patch version | 1.5.2.7 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/11/4 10:30AM) | 2014/11/4 |

**LOADER:**

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| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| Testing Version | 0.0.0.4 | InitCC: EC\_VOB main(2012/2/20 3:00PM) | 2012/2/20 |
| Testing Version | 0.0.0.5 | InitCC: EC\_VOB main(2012/2/22 2:00PM) | 2012/2/22 |
| Testing Version | 0.0.0.6 | InitCC: EC\_VOB main(2012/3/1 10:00AM) | 2012/3/1 |
| Testing Version | 0.0.0.7 | CC: EC\_VOB main(2012/3/6 10:00AM) | 2012/3/6 |
| Testing Version | 0.0.0.8 | 0.0.0.7+ES4627MB-FLF-EC-00067 | 2012/3/7 |
| Testing Version | 0.0.0.9 | CC: EC\_VOB main(2012/7/5 10:00AM) | 2012/7/5 |
| Testing Version | 0.0.0.10 | CC: EC\_VOB main(2012/7/31 10:00AM) | 2012/7/31 |
| Testing Version | 0.0.1.0 | CC: EC\_VOB main(2012/9/20 3:00PM) | 2012/9/20 |
| Test Version | 0.0.1.1 | CC: EC\_VOB main(2012/9/25 10:30AM) | 2012/9/25 |
| Test Version | 0.0.1.2 | CC: EC\_VOB main(2012/10/26 10:30AM) | 2012/10/26 |
| Test Version | 0.0.1.3 |  | 2013/6/19 |
| Test Version | 0.0.1.4 | EC\_VOB ES4626F-SW-FLF-38\_ES4627MB\_V1.5.1.12\_Ph5\_branch (2014/6/11 1:30PM) | 2014/6/11 |

**MINI LOADER:**

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| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| Testing Version | 0.0.0.1 | CC: EC\_VOB main(2012/9/20 3:00PM) | 2012/9/20 |
| Testing Version | 0.0.0.2 | CC: EC\_VOB main(2013/6/19 10:00AM) | 2013/6/19 |

**MFG Runtime:**

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| **Status** | **Version No.** | **Type** | **Release Date** |
| Testing Version | 0.0.1.1 | InitCode base is the same as Runtime V0.0.1.1 | 2012/3/7 |
| Testing Version | 1.2.1.6 | CC: EC\_VOB main(2012/7/31 10:00AM) | 2012/7/31 |
| Testing Version | V1.4.0.0 | CC: EC\_VOB main(2013/6/19 10:00AM) | 2013/6/19 |

**HARDware compatibility:**

ALL

**BootPROM compatibility:**

ALL

**Network Management Software Support:**

|  |  |  |
| --- | --- | --- |
| **NMS Platform** | **Version No.** | **Module No.** |
| TBD |   |   |

If you install this image, you may not have control of all of the latest features of this product until the next version(s) of network management software. Please review the software release notes for your specific network management platform for details.

**SUPPORTED FUNCTIONALITY:**

Please see the ES4627MB-FLF-EC\_Phase3\_FeatureList\_20121119.xlsx

**Installation and Configuration Notes:**

In general, the ES4627MB **Switch** will be shipped to you pre-configured with this version of firmware. If you would like to upgrade an existing ES4627MB **Switch,** please follow the TFTP download instructions that are included with your firmware image upgrade kit.

**Firmware Changes and Enhancements:**

**The following Known Issues have been fixed in this release of firmware.**

**Loader V0.0.0.7**

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| 1 | ES4627MB-FLF-EC-00067 | Headline: Incorrect memory tags settings in uboot |

**Loader V0.0.0.8**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00030 | Reload:DUT will display similar exception and hang on when reboot and transmit tag or untag packets continuously. |

**Loader V0.0.0.9**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00154 | To Support new board - ECS4510-28F |

**Loader V0.0.0.10**

|  |  |  |
| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00162 | Support 10G port led display on board id 2,3,4 |
| 2 | ES4627MB-FLF-EC-00181 | ECS4510-28F port leds with mixed color (Green + Amber) |

**Loader V0.0.1.0**

|  |  |  |
| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00249 | sometimes uboot can not be boot up |

**Loader V0.0.1.1**

|  |  |  |
| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00252 | [Loader] Add a backdoor function in formal uboot to write mini uboot with RS-ECC OOB data |

**Loader V0.0.1.2**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00283 | [28F] Combo port(Copper) can not link up while port 23(Copper) loopback to port 24(Copper). [Phy is A1 version] |

**Loader V0.0.1.3**

|  |  |  |
| --- | --- | --- |
|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00303 | BackDoor:UPDM not working on backdoor. |

**Loader V0.0.1.4**

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| --- | --- | --- |
|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00364 | Add upgrade epld function in uboot and rumtime |
| 2 | ES4627MB-FLF-EC-00371 | Study and coding for USB support |
| 3 | ES4627MB-FLF-EC-00486 | uboot enhancement to dump the location which bit flip happens |
| 4 | ES4627MB-FLF-EC-00538 | [Loader] Loader will consider the startup runtime filename invalid if its length > 21 |
| 5 | ES4627MB-FLF-EC-00662 | USB disk support on ES4627MB |

**Mini Loader V0.0.0.1**

|  |  |  |
| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00249 | sometimes uboot can not be boot up |

**Mini Loader V0.0.0.2**

|  |  |  |
| --- | --- | --- |
|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00328 | [Loader Enhancement] Mini Uboot Support X-Modem download 2nd Stage Uboot image and boot |

**MFG Runtime V0.0.1.1**

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| --- | --- | --- |
| 1 | Init | Init |

**MFG Runtime V1.2.1.6**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00158 | [Diag] change default post mode from normal to fast |

**MFG Runtime V1.4.0.0**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00319 | [mfg runtime] Can not finish the recovery process while the bad block is at 0x500000 |

**Runtime V0.0.0.7**

|  |  |  |
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| 1 | None | None |

**Runtime V0.0.0.8**

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| --- | --- | --- |
| 1 | None | None |

**Runtime V0.0.0.9**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00016 | Build MFG Runtime and UBIFS init script |
| 2 | ES4627MB-FLF-EC-00043 | restore the max number of ace and l4 group common stack size |

**Runtime V0.0.1.0**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00004 | diag modification |
| 2 | ES4627MB-FLF-EC-00019 | [FS] Some bugs in fs.c |
| 3 | ES4627MB-FLF-EC-00020 | [Loader] loader might freeze after doing UBIFS recovery operation |
| 4 | ES4627MB-FLF-EC-00021 | [FS] CLI will display debug message while delete a file. |
| 5 | ES4627MB-FLF-EC-00025 | CLI:Command "reload" will cause DUT hang up. |
| 6 | ES4627MB-FLF-EC-00030 | Reload:DUT will display similar exception and hang on when reboot and transmit tag or untag packets continuously. |
| 7 | ES4627MB-FLF-EC-00034 | MVR6:Object Label = mvr6ProfileAction (Object ID = 1.3.6.1.4.1.259.10.1.24.1.1.66.4.1.3) description is not correct. |
| 8 | ES4627MB-FLF-EC-00043 | restore the max number of ace and l4 group common stack size |
| 9 | ES4627MB-FLF-EC-00044 | ACL: Hardware Counter hit number can't be show on CLI and always be 0 on Web. (Both are incorrect.) |
| 10 | ES4627MB-FLF-EC-00048 | [leddrv] support 10g port led display on ECS4510-28T/28P |
| 11 | ES4627MB-FLF-EC-00058 | LLDP-MED: The DUT could not show the Network Policy information of remote device completely on CLI. |
| 12 | ES4627MB-FLF-EC-00061 | [Diag] support burn-in mode. |

**Runtime V0.0.1.1**

|  |  |  |
| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00030 | Reload:DUT will display similar exception and hang on when reboot and transmit tag or untag packets continuously. |

**Runtime V0.0.1.2**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00027 | Web: IP extended ACL rule with range SIP (1.1.1.1 2.2.2.2) to make SIP=0.0.0.0, web will show any/"SIP bit mask". |
| 2 | ES4627MB-FLF-EC-00066 | LLDP-MED: The attributes of LLDP-MED TLVs did not inherit while a port joined to a null trunk. |
| 3 | ES4627MB-FLF-EC-00068 | driver\_proc exception occurs occasionally in the middle of booting runtime |

**Runtime V1.1.0.1**

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| --- | --- | --- |
| 1 | ES4627MB-FLF-EC-00022 | It will display exception and hang on when starting remote loopback. |
| 2 | ES4627MB-FLF-EC-00026 | RMON2: Could not get IP addresses completely on netConfigTable object via SNMP. |
| 3 | ES4627MB-FLF-EC-00033 | LLDP: The DUT did not display local device information of LLDP on Web UI. |
| 4 | ES4627MB-FLF-EC-00035 | IP Subnet : If you Configure WEB UI, it will casue the DUT hang on |
| 5 | ES4627MB-FLF-EC-00038 | IP SourceGuard:It will display exception and hang on when enable SIP or SIP-MAC per port |
| 6 | ES4627MB-FLF-EC-00039 | MAC Mirror : It will hang on when configure the MAC Mirror function by CLI & WEB UI |
| 7 | ES4627MB-FLF-EC-00040 | VLAN MAC Based : DUT will hang on when configure the VLAN MAC Based by CLI & WEB UI |
| 8 | ES4627MB-FLF-EC-00041 | NetworkNotice:DUT didn't send coldstart or warmstart trap when using syslog trap or snmp trap |
| 9 | ES4627MB-FLF-EC-00045 | ACL: There is no command for clearing Hardware Counter on CLI and no button for clearing Hardware Counter on Web UI. |
| 10 | ES4627MB-FLF-EC-00046 | ERPS:DUT will display exception and hang up when enable erps domain. |
| 11 | ES4627MB-FLF-EC-00048 | [leddrv] support 10g port led display on ECS4510-28T/28P |
| 12 | ES4627MB-FLF-EC-00053 | ARP:The arp entry will not exist quickly when send 1100(increment mac) arp request per second |
| 13 | ES4627MB-FLF-EC-00054 | CLI: Description for Storm value is not match to the port configuration status. |
| 14 | ES4627MB-FLF-EC-00055 | LLDP-MED: The DUT did not display LLDP-MED TLVs of Remote Device on Web UI. |
| 15 | ES4627MB-FLF-EC-00060 | SNMP:Use eliteviewer "walk" the mib tree, DUT will display error message and user can't connect mib browser anymore. |
| 16 | ES4627MB-FLF-EC-00064 | DUT Hang up: DUT hangs up and show exception message when running the performance testing. |
| 17 | ES4627MB-FLF-EC-00065 | DHCPRelayOption82:On web,we can not set "DHCP Relay Server". |
| 18 | ES4627MB-FLF-EC-00068 | driver\_proc exception occurs occasionally in the middle of booting runtime |
| 19 | ES4627MB-FLF-EC-00069 | [Diag] wsextlb with speed 10000 would fail (fail to change speed) |
| 20 | ES4627MB-FLF-EC-00070 | [enhance] change the default port type of port 27, 28 to 10GBASE SFP+ |
| 21 | ES4627MB-FLF-EC-00071 | Media Type data has been dropped from Web Interface > Trunk > Dynamic (Configure Trunk - Show) |
| 22 | ES4627MB-FLF-EC-00072 | protocol vlan priority in web but not cli |
| 23 | ES4627MB-FLF-EC-00074 | wsextlb 100M fail when doing wsextlb loop and extlb test |
| 24 | ES4627MB-FLF-EC-00076 | The POST Result in "show system" got non-expection words, "S123456R0A". |
| 25 | ES4627MB-FLF-EC-00077 | core\_util\_proc gets exception when flush uc syslog to flash |
| 26 | ES4627MB-FLF-EC-00081 | IPv6-HTTP:Client can't use HTTPS with IPv6 address by Firefox to connect to the device. |
| 27 | ES4627MB-FLF-EC-00082 | IPv6-HTTP:Use ipv6 address by http to login web then use ipv6 address by https to login web,DUT display exception and hang up |
| 28 | ES4627MB-FLF-EC-00084 | [enhance] use enhancement backdoor password |
| 29 | ES4627MB-FLF-EC-00091 | SNMP: sFlow port interface related parameters can't be setted successfully via MIB browser. |

**Runtime V1.1.1.0**

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| 1 | ES4627MB-FLF-EC-00023 | HTTP&SSL:They should not be enabled at the same time. |
| 2 | ES4627MB-FLF-EC-00028 | ACL: MAC ACL rule ethertype with value less than 600 (ex. 599, 500) can be setted but can't work fine. |
| 3 | ES4627MB-FLF-EC-00031 | Telnet : Help page Silent Time Default information need to modify |
| 4 | ES4627MB-FLF-EC-00036 | LLDP-MED: The DUT supported MED-location of LLDP on CLI but did not support this feature on Web UI. |
| 5 | ES4627MB-FLF-EC-00037 | MVR6:Help page description is not correct.MVR6 robustness default value shall be 2 and profile range shall be 1-21 character |
| 6 | ES4627MB-FLF-EC-00042 | LLDP: Default state of SNMP Notification/ MED Notification are incorrect on help page. |
| 7 | ES4627MB-FLF-EC-00044 | ACL: Hardware Counter hit number can't be show on CLI and always be 0 on Web. (Both are incorrect.) |
| 8 | ES4627MB-FLF-EC-00049 | Telnet WEB Help page : Exec Time range need to modify |
| 9 | ES4627MB-FLF-EC-00050 | Telnet WEB Help page : Login Timeout range need to modify |
| 10 | ES4627MB-FLF-EC-00051 | Telnet WEB Help page : Silent Time range need to modify |
| 11 | ES4627MB-FLF-EC-00052 | Time-Range: Bind Time-Range on ACL and make it become activate, then it can't be removed even all the ACLs are removed. |
| 12 | ES4627MB-FLF-EC-00062 | DHCPSnooping:In "Help page", we do not look up the information about "Circuit ID" |
| 13 | ES4627MB-FLF-EC-00063 | DHCPSnooping:In "Help page", we do not look up any information about "Sub-option Format" and "Remote ID". |
| 14 | ES4627MB-FLF-EC-00073 | Watchdog:Watchdog is enabled, but device shall not restarted automatically after 10 mins. |
| 15 | ES4627MB-FLF-EC-00080 | IPv6-RemotePing: Ping6 count description range on mib is not correct. It shall be 1-16. |
| 16 | ES4627MB-FLF-EC-00085 | Help Page:Interface of traffic trust mode descirpt is incorrect. |
| 17 | ES4627MB-FLF-EC-00086 | Help Page: No any sFlow Polling Interval description on Web Help Page. |
| 18 | ES4627MB-FLF-EC-00087 | Help page: Meter value of Policy map is incorrect. |
| 19 | ES4627MB-FLF-EC-00088 | IPv6-SNMP:Use ipv6 mib browser to walk the mib tree will cause CLI display error message. |
| 20 | ES4627MB-FLF-EC-00090 | IPv6-SNMP:Continously getbulk via ipv6 mib browser will display error message on CLI. |
| 21 | ES4627MB-FLF-EC-00092 | Help Page: Description for ACL binding on Interface only mentioned Ingress direction. |
| 22 | ES4627MB-FLF-EC-00093 | CableDiag:When launch test on the SFP port(link status), the result always show "testing". |
| 23 | ES4627MB-FLF-EC-00094 | L2 Switch Management : 10G Capability and Port type has error Information in (CLI / WEB UI / SNMP) |
| 24 | ES4627MB-FLF-EC-00095 | IPv6:IPv6 mtu prompt range on CLI/web/help are 1280-65535, but it can be configured range is 1280-1500. |
| 25 | ES4627MB-FLF-EC-00096 | Tacacs:DUT login priv- level is incorrect. DUT only have guest privilege. |
| 26 | ES4627MB-FLF-EC-00097 | IPv6AddressConfig:From CLI to ping6 PC with mtu size is big than 1542 will display timeout. |
| 27 | ES4627MB-FLF-EC-00098 | Reboot: DUT reboot will display "Port packet loss" error massage. |
| 28 | ES4627MB-FLF-EC-00099 | Web UI; If Web UI refresh IP as "192.168.1.10" not includ "index\_413.htm". DUT will crash. |
| 29 | ES4627MB-FLF-EC-00100 | DHCP Snooping: Client can't get the IP address successfully with DHCP Snooping enabled. |
| 30 | ES4627MB-FLF-EC-00102 | Web: Http session will not be cleared after shutdown the connected port interface. |
| 31 | ES4627MB-FLF-EC-00103 | SNMP:When we get value by SNMPwalk, DUT appear "error meaasge",and web will be disconnect. |
| 32 | ES4627MB-FLF-EC-00104 | Reload:DUT will display similar exception and hang on when reboot. |
| 33 | ES4627MB-FLF-EC-00106 | Help Page:Network Access Max Mac count is incorrect. |
| 34 | ES4627MB-FLF-EC-00107 | Macaddrtable: Mac address Aging time is incorrect. |
| 35 | ES4627MB-FLF-EC-00108 | MacAuth: Mac table is incorrect. if client is Tunnel-Private-Group-ID = 2 t. |
| 36 | ES4627MB-FLF-EC-00109 | Config file : when run the command "Copy running-config startup-config" , the DUT has the random Hangup status |
| 37 | ES4627MB-FLF-EC-00110 | SelectQinQ: The DUT does not support the description of Select QinQ on help page. |
| 38 | ES4627MB-FLF-EC-00111 | Help:RSPAN session range is not correct on help page. |
| 39 | ES4627MB-FLF-EC-00112 | Halp Page:In help page, we do not look up about the "Action" and "Shutdown Interval" information. |
| 40 | ES4627MB-FLF-EC-00113 | Help:IPv6 DAD attempts default value is not correct on help page. |
| 41 | ES4627MB-FLF-EC-00114 | LLDP-MED: The DUT still sent LLDP-MED notification even if MED notification was disabled on the port interface. |
| 42 | ES4627MB-FLF-EC-00115 | update the web help page (es4627mb-help(0.0.1.2)\_0323) |
| 43 | ES4627MB-FLF-EC-00116 | RefinePortSecurity:When reached max mac count , port security action be excuted, but show mac table can't show mac correctly. |
| 44 | ES4627MB-FLF-EC-00117 | ARP : DUT Can Not send the ARP request Broadcast packets |
| 45 | ES4627MB-FLF-EC-00118 | ERPS:When ring node port link down, ERPS status becomes "protection", it can't recovery to "Idle". |
| 46 | ES4627MB-FLF-EC-00119 | WEB :The DUT Console and WEB hang up when we configure the Flow Control setting in WEB |
| 47 | ES4627MB-FLF-EC-00120 | RefinePortSecurity:Can't delete network access mac-address table via web. |
| 48 | ES4627MB-FLF-EC-00121 | WEB : DUT will hang up when we configure the IP Cluster setting in WEB |
| 49 | ES4627MB-FLF-EC-00122 | Performance: Packet loss (around 0.03%) when run Many to One performance with size: 1024 byte. |
| 50 | ES4627MB-FLF-EC-00123 | IP Cluster :Commander Can Not control the Candidate DUT |

**Runtime V1.2.1.0**

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| 1 | ES4627MB-FLF-EC-00055 | LLDP-MED: The DUT did not display LLDP-MED TLVs of Remote Device on Web UI. |
| 2 | ES4627MB-FLF-EC-00065 | DHCPRelayOption82:On web,we can not set "DHCP Relay Server". |
| 3 | ES4627MB-FLF-EC-00124 | CLI: Update ping/ping6 help message. |
| 4 | ES4627MB-FLF-EC-00125 | [Diag, Enhance] press any key to continue while doing ledtest |
| 5 | ES4627MB-FLF-EC-00126 | [Loader] Add EEPROM phy init code for board id 2~6 |
| 6 | ES4627MB-FLF-EC-00127 | Static / Dynamic Trunk : the function is Not working in 10G Interface |
| 7 | ES4627MB-FLF-EC-00129 | ACL: Hardware Counter Hit Count for deny rule always show 0 on Web. But not show anything on CLI. |
| 8 | ES4627MB-FLF-EC-00130 | [Poe] Fix compile error when changing SYS\_CPNT\_POE as TRUE |
| 9 | ES4627MB-FLF-EC-00131 | LACP : DUT Can Not set the Admin-key "4" for port-channel "4" in WEB /CLI |

**Runtime V1.2.1.1**

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| 1 | ES4627MB-FLF-EC-00078 | IPv6-RemotePing:Default value of the ping6 content shall be 32 bytes, but CLI displays 0 bytes. |
| 2 | ES4627MB-FLF-EC-00079 | IPv6-RemotePing:Ping6 size prompt range and real working range is not the same between CLI and web. |
| 3 | ES4627MB-FLF-EC-00130 | [Poe] Fix compile error when changing SYS\_CPNT\_POE as TRUE |
| 4 | ES4627MB-FLF-EC-00139 | Add fan & thermal support for different board\_id |
| 5 | ES4627MB-FLF-EC-00142 | [Enhance] Support PoE driver, core, cli part |
| 6 | ES4627MB-FLF-EC-00143 | [Enhance] Support PoE snmp part |

**Runtime V1.2.1.2**

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| 1 | ES4627MB-FLF-EC-00142 | [Enhance] Support PoE driver, core, cli part |

**Runtime V1.2.1.4**

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| 1 | ES4627MB-FLF-EC-00089 | IPv6-SNMP:Can't set ipv6 snmp-server host successfully. |
| 2 | ES4627MB-FLF-EC-00105 | [enhance] support 28P web page. |
| 3 | ES4627MB-FLF-EC-00133 | [enhance] support PoE web page |
| 4 | ES4627MB-FLF-EC-00138 | [enhance] web support 10G SFP+ exapansion module. |
| 5 | ES4627MB-FLF-EC-00140 | when boot up two switch, after enter provisioning state, there is temperory loop |
| 6 | ES4627MB-FLF-EC-00141 | DHCP Relay Option 82 - corrections to grammar on web page |
| 7 | ES4627MB-FLF-EC-00142 | [Enhance] Support PoE driver, core, cli part |
| 8 | ES4627MB-FLF-EC-00145 | [Diag] LED\_NormalizeLEDColor should write back original value |
| 9 | ES4627MB-FLF-EC-00147 | [POE] Fix five issues of POE CSC... |
| 10 | ES4627MB-FLF-EC-00148 | Get the following error message about the Country code on LLDP web page. |
| 11 | ES4627MB-FLF-EC-00150 | VLAN RSPAN : CLI hang up after creating VLAN RSPAN |
| 12 | ES4627MB-FLF-EC-00151 | [enhance] LM77 \_CRIT temperature set to 83'C , let DUT operate reach up 55'C |
| 13 | ES4627MB-FLF-EC-00152 | [Enhance] PoE LED for 28P |
| 14 | ES4627MB-FLF-EC-00154 | To Support new board - ECS4510-28F |
| 15 | ES4627MB-FLF-EC-00155 | [enhance] change the web logo to correct EC logo |

**Runtime V1.2.1.6**

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| 1 |  |  |
|  | ES4627MB-FLF-EC-00029 | HTTP: It didn't succeed to login when using ipv6 link local address by web |
| 2 | ES4627MB-FLF-EC-00132 | [enhance] support 28F web page |
| 3 | ES4627MB-FLF-EC-00137 | [enhance] support 10G SFP+ expansion module. |
| 4 | ES4627MB-FLF-EC-00156 | [enhance] TX Amplitude & Pre-emphasis & Equalzier |
| 5 | ES4627MB-FLF-EC-00157 | [Diag] support single port external loop back test |
| 6 | ES4627MB-FLF-EC-00158 | [Diag] change default post mode from normal to fast |
| 7 | ES4627MB-FLF-EC-00160 | 28F port25, port26 always be turned on after enter the runtime. |
| 8 | ES4627MB-FLF-EC-00162 | Support 10G port led display on board id 2,3,4 |
| 9 | ES4627MB-FLF-EC-00163 | TFTP: support retry and timeout |
| 10 | ES4627MB-FLF-EC-00167 | [ECS4510-28P][Dot1x Port-based]Even authentication is failure, user still can use network |
| 11 | ES4627MB-FLF-EC-00169 | [ECS4510-28P][Dot1x MAC-auth]Even authentication is failure, user still can use network |
| 12 | ES4627MB-FLF-EC-00170 | [ECS4510-28P][Dot1x MAC-auth]MAC based EAP Athentication is not work |
| 13 | ES4627MB-FLF-EC-00171 | It display many debug messages while booting. |
| 14 | ES4627MB-FLF-EC-00173 | 28F combo port 23,24 (fiber) can only link up in 100M |
| 15 | ES4627MB-FLF-EC-00175 | port 25,26 led lighted even no transceiver inserted |
| 16 | ES4627MB-FLF-EC-00176 | Insert transceiver to port 25-26, and issue media-type sfp-forced 1000sfp, showed Failed to set port 1/26 media type |
| 17 | ES4627MB-FLF-EC-00178 | ECS4510-28F combo port 23,24 (fiber) can only link up in 100M |
| 18 | ES4627MB-FLF-EC-00179 | ECS4510-28F port 8, 16 can not link up in runtime |
| 19 | ES4627MB-FLF-EC-00181 | ECS4510-28F port leds with mixed color (Green + Amber) |
| 20 | ES4627MB-FLF-EC-00182 | failed to disable auto negotiation on ehternet 1/6 |
| 21 | ES4627MB-FLF-EC-00183 | have no way to enable debug igmpsnp-mvr event |
| 22 | ES4627MB-FLF-EC-00184 | Show ip igmp query-drop on port, got wrong information |
| 23 | ES4627MB-FLF-EC-00186 | erps and igmp snooping cannot work together ? After enable erps mrouter port disappear and multicast table became empty |
| 24 | ES4627MB-FLF-EC-00187 | set ARP Inspection on port-channel 1, but have no way to show ARP Inspection on port-channel |
| 25 | ES4627MB-FLF-EC-00188 | Problems using 23/24 fiber combo port |
| 26 | ES4627MB-FLF-EC-00189 | Port 27/28 extension 10G module can't link up |
| 27 | ES4627MB-FLF-EC-00190 | [ECS4510-28F]Port 25/26 SFP+ port can't link up |
| 28 | ES4627MB-FLF-EC-00194 | Proxy-reporting enabled, Client still received multicast traffic, after it sent IGMP leave report |
| 29 | ES4627MB-FLF-EC-00195 | System crash when reading 8th/9th Serdes External Conf 2 Regs |
| 30 | ES4627MB-FLF-EC-00197 | front panel on web interface is not correct for ECS4510-28F, SFP port for 1-24, rj45 for 23-24 |
| 31 | ES4627MB-FLF-EC-00198 | [port security] port security can not work |

**Runtime V1.2.1.7**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00153 | PortTrunk: Remove port from port-channel the Rate-limit configuration is not inherited. |
| 2 | ES4627MB-FLF-EC-00161 | Sometimes PC can not ping the switch after reboot. |
| 3 | ES4627MB-FLF-EC-00165 | ACL only support 502 ACE for permit rule |
| 4 | ES4627MB-FLF-EC-00174 | sometime after reboot, switch enter a state that tx or rx totally not working |
| 5 | ES4627MB-FLF-EC-00177 | need to issue media-type sfp-forced 100Fx for 100BaseBX transceiver to work |
| 6 | ES4627MB-FLF-EC-00182 | failed to disable auto negotiation on ehternet 1/6 |
| 7 | ES4627MB-FLF-EC-00185 | If we select sort by "address", first column should be "MAC Address" |
| 8 | ES4627MB-FLF-EC-00186 | erps and igmp snooping cannot work together ? After enable erps mrouter port disappear and multicast table became empty |
| 9 | ES4627MB-FLF-EC-00187 | set ARP Inspection on port-channel 1, but have no way to show ARP Inspection on port-channel |
| 10 | ES4627MB-FLF-EC-00205 | Fix CodeSnoar and SimpleWeb found problem |
| 11 | ES4627MB-FLF-EC-00208 | 25/26 port 10G port is not the same as 27/28 port can add a space between 24 and 25, 27/28 change to 2 sfp+ port style in on |
| 12 | ES4627MB-FLF-EC-00209 | no snmp-server community private (exception) |

**Runtime V1.3.1.0(From V1.2.1.6)**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00153 | PortTrunk: Remove port from port-channel the Rate-limit configuration is not inherited. |
| 2 | ES4627MB-FLF-EC-00161 | Sometimes PC can not ping the switch after reboot. |
| 3 | ES4627MB-FLF-EC-00165 | ACL only support 502 ACE for permit rule |
| 4 | ES4627MB-FLF-EC-00172 | MAC learning always loss one entry when exceed certain number MAC address |
| 5 | ES4627MB-FLF-EC-00174 | sometime after reboot, switch enter a state that tx or rx totally not working |
| 6 | ES4627MB-FLF-EC-00177 | need to issue media-type sfp-forced 100Fx for 100BaseBX transceiver to work |
| 7 | ES4627MB-FLF-EC-00182 | failed to disable auto negotiation on ehternet 1/6 |
| 8 | ES4627MB-FLF-EC-00185 | If we select sort by "address", first column should be "MAC Address" |
| 9 | ES4627MB-FLF-EC-00186 | erps and igmp snooping cannot work together ? After enable erps mrouter port disappear and multicast table became empty |
| 10 | ES4627MB-FLF-EC-00187 | set ARP Inspection on port-channel 1, but have no way to show ARP Inspection on port-channel |
| 11 | ES4627MB-FLF-EC-00191 | [52T] support 2 MACs on 52T. Modify gateway and stktplg\_board.c |
| 12 | ES4627MB-FLF-EC-00192 | [52T] support 52T. Modify AMTR gateway |
| 13 | ES4627MB-FLF-EC-00193 | [Rule] Support multi-device |
| 14 | ES4627MB-FLF-EC-00199 | [52T] support 10G SFP+ port on 52T |
| 15 | ES4627MB-FLF-EC-00200 | [52T] support DDM function on 52T board. |
| 16 | ES4627MB-FLF-EC-00201 | [52T] support AMTR software learn. It is for all ES4627MB serial models. |
| 17 | ES4627MB-FLF-EC-00202 | [52T] LED (support 49-52) & UC (enable poe) |
| 18 | ES4627MB-FLF-EC-00203 | [52T] the changes for enabling port mirror of two bobcats |
| 19 | ES4627MB-FLF-EC-00204 | [52T] adjust dma buffer size |
| 20 | ES4627MB-FLF-EC-00205 | Fix CodeSnoar and SimpleWeb found problem |
| 21 | ES4627MB-FLF-EC-00207 | [52T] Support traffic-segmentation on 52T board |
| 22 | ES4627MB-FLF-EC-00208 | 25/26 port 10G port is not the same as 27/28 port can add a space between 24 and 25, 27/28 change to 2 sfp+ port style in on |
| 23 | ES4627MB-FLF-EC-00209 | no snmp-server community private (exception) |
| 24 | ES4627MB-FLF-EC-00210 | set spanning-tree bpdu-filter failed on port range |
| 25 | ES4627MB-FLF-EC-00212 | IGMPSNP: add report suppression function |

**Runtime V1.3.1.1**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00144 | Exception happend while going to the LLDP interface config page for the 4627MB, and enable some of the TLVs. |
| 2 | ES4627MB-FLF-EC-00191 | [52T] support 2 MACs on 52T. Modify gateway and stktplg\_board.c |
| 3 | ES4627MB-FLF-EC-00192 | [52T] support 52T. Modify AMTR gateway |
| 4 | ES4627MB-FLF-EC-00196 | show interface counter showed big number of collisions on port 25-28 even no transceiver inserted |
| 5 | ES4627MB-FLF-EC-00199 | [52T] support 10G SFP+ port on 52T |
| 6 | ES4627MB-FLF-EC-00206 | [Enhancement] remove PoE overload disable mechanism from poedrv |
| 7 | ES4627MB-FLF-EC-00211 | Feature enhanement : MAC-VLAN support mask format |
| 8 | ES4627MB-FLF-EC-00212 | IGMPSNP: add report suppression function |
| 9 | ES4627MB-FLF-EC-00214 | CodeSonar: CLI\_API\_Show\_Eth\_Cfm\_MP\_Local {Uninitialized Variable} |
| 10 | ES4627MB-FLF-EC-00220 | [52T] Protocol vlan not work |
| 11 | ES4627MB-FLF-EC-00221 | Remove cpntPoe & cpntMutiMgmtIp in menu.js |
| 12 | ES4627MB-FLF-EC-00222 | Missing the cli command "lldp med-tlv extpoe". |
| 13 | ES4627MB-FLF-EC-00225 | Fix wrong file name of web |
| 14 | ES4627MB-FLF-EC-00227 | [52T] support 52T diag |
| 15 | ES4627MB-FLF-EC-00229 | [WEB] Modify pages have "Configure Port" or "Configure Trunk" in actionSel. |

**Runtime V1.3.1.2**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00227 | [52T] support 52T diag |

**Runtime V1.3.1.3**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00024 | MIB:it didn't set the string " ~@#$%^&\*()\_+{}:<>[]" by mib |
| 2 | ES4627MB-FLF-EC-00083 | 802.1X:DUT have set radius key. Radius Key Item does be empty in Web UI. |
| 3 | ES4627MB-FLF-EC-00128 | ACL: Hardware Counter of two MAC ACL rules "permit host 000000000001 any" and "permit host 0000000003 any" with be bound. |
| 4 | ES4627MB-FLF-EC-00206 | [Enhancement] remove PoE overload disable mechanism from poedrv |
| 5 | ES4627MB-FLF-EC-00216 | MAC-VLAN can't work correclty with DHCP snooping |
| 6 | ES4627MB-FLF-EC-00217 | [52T/52P] support 52T/52P web page. |
| 7 | ES4627MB-FLF-EC-00218 | Error message "kernel BUG" is shown under intensive use of telnet sessions |
| 8 | ES4627MB-FLF-EC-00219 | [52T] Traffic between the two chip will cause pkt loss |
| 9 | ES4627MB-FLF-EC-00220 | [52T] Protocol vlan not work |
| 10 | ES4627MB-FLF-EC-00223 | storm control - cli shows Kbits, web shows kbits |
| 11 | ES4627MB-FLF-EC-00224 | storm control - cli and web range not same |
| 12 | ES4627MB-FLF-EC-00226 | vlan translation - supports trunk in web but not in cli |
| 13 | ES4627MB-FLF-EC-00227 | [52T] support 52T diag |
| 14 | ES4627MB-FLF-EC-00230 | LLDP: enhance CLI show format |
| 15 | ES4627MB-FLF-EC-00232 | vlan translation, add and show web pages - remove trunk selection |
| 16 | ES4627MB-FLF-EC-00233 | correction to spelling -> show line |
| 17 | ES4627MB-FLF-EC-00234 | [52T] Transition: Designated Port State Transition into FORWARDING |
| 18 | ES4627MB-FLF-EC-00235 | [WEB] Some web pages can not work |
| 19 | ES4627MB-FLF-EC-00236 | [52T] igmp sn immediate leave, GS-Query test |
| 20 | ES4627MB-FLF-EC-00237 | [WEB] fix some mistake in menu.js and manage.js |
| 21 | ES4627MB-FLF-EC-00238 | Change uboot source code check in and build method |
| 22 | ES4627MB-FLF-EC-00239 | SNMP: commit failed when setting oamClearStatistics to clear |
| 23 | ES4627MB-FLF-EC-00240 | [enhance] change root oid and system oid |
| 24 | ES4627MB-FLF-EC-00241 | Phy 88E1548M A0 to A1. S/W modification. |
| 25 | ES4627MB-FLF-EC-00242 | [52T] support DiffServ on 52T(2 chips) |
| 26 | ES4627MB-FLF-EC-00244 | [52T] Voice vlan copy running-config startup-config will loss some information |
| 27 | ES4627MB-FLF-EC-00245 | [52T] IGMP Throttling - across Vlan Test on Querier switch |
| 28 | ES4627MB-FLF-EC-00247 | [52T][52P] RULE\_CTRL error message is printed while booting |
| 29 | ES4627MB-FLF-EC-00248 | [enhance] Update the web help page. |
| 30 | ES4627MB-FLF-EC-00249 | sometimes uboot can not be boot up |

**Runtime V1.3.1.4**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00135 | WebAuth:When the port state is change from linkdown to linkup, the DUT does not re-start the web authentication. |
| 2 | ES4627MB-FLF-EC-00166 | [ECS4510-28P][Web-auth]User port VLAN need same with switch management VLAN and web-aut information is too |
| 3 | ES4627MB-FLF-EC-00168 | [ECS4510-28P][Dot1x Port-based Guest VLAN]when authentication is failure, port will wait 60 sec, and then change port |
| 4 | ES4627MB-FLF-EC-00180 | same username and password can't be used for web authentication |
| 5 | ES4627MB-FLF-EC-00250 | [enhance] support static route + RIP v1/v2 |
| 6 | ES4627MB-FLF-EC-00254 | DEV\_SWDRV\_InitBufferSettings(): Line = 2677 , Buffer setting failed. |

**Runtime V1.3.1.5**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00250 | [enhance] support static route + RIP v1/v2 |

**Runtime V1.3.1.6**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00177 | need to issue media-type sfp-forced 100Fx for 100BaseBX transceiver to work |
| 2 | ES4627MB-FLF-EC-00220 | [52T] Protocol vlan not work |
| 3 | ES4627MB-FLF-EC-00231 | show ip arp inspection vlan config <= remove config parameter |
| 4 | ES4627MB-FLF-EC-00250 | [enhance] support static route + RIP v1/v2 |
| 5 | ES4627MB-FLF-EC-00251 | [enhance] support static route + RIP v1/v2 (web part) |
| 6 | ES4627MB-FLF-EC-00253 | [52P] PoE fail |
| 7 | ES4627MB-FLF-EC-00255 | [52T] fan 1 status fail |
| 8 | ES4627MB-FLF-EC-00257 | [52T] port security en and mac aging dis will cause MAC can not be deleted |
| 9 | ES4627MB-FLF-EC-00259 | DHCP:Class id "Hex " length only 32 characters on Web. |
| 10 | ES4627MB-FLF-EC-00260 | DHCP Snooping:DHCP snooping did not work correctly. |
| 11 | ES4627MB-FLF-EC-00261 | DHCP Relay Option82:DHCP Relay did not work correctly. |
| 12 | ES4627MB-FLF-EC-00262 | StaticRoute/WEB:DUT shall support to set static route via web. |
| 13 | ES4627MB-FLF-EC-00263 | UserAuthLocal:DUT did not Local login authentication well by WEB . |
| 14 | ES4627MB-FLF-EC-00264 | WEBAuth : The function can Not work (directly open the WEB UI without auth) |
| 15 | ES4627MB-FLF-EC-00265 | UserAuthRemote:DUT login authentication order only is RADIUS, but input "admin" can login it via Web. |
| 16 | ES4627MB-FLF-EC-00266 | UserAuthRemote:DUT can login authentication by TACACS server via CLI and Telnet,but it can not login via Web. |
| 17 | ES4627MB-FLF-EC-00269 | RadiusAcc:DUT can not login through the SSH via radius server. |
| 18 | ES4627MB-FLF-EC-00270 | WEBAuth : DHCP Client can Not get IP from Server on the WEBAuth Port |
| 19 | ES4627MB-FLF-EC-00271 | [28F][Diag] 23-24 port led do not light in diag led test. And need support forcetocopper/forcetofiber command. |
| 20 | ES4627MB-FLF-EC-00272 | UserAuthRemote:DUT login authentication order only is TACACS, but input "admin" can login it via Web. |
| 21 | ES4627MB-FLF-EC-00273 | Disable DHCP L2 relay and enable DHCP L3 relay, DHCP server |
| 22 | ES4627MB-FLF-EC-00275 | DHCPv6:DUT is IPv6 client, when it get IP from DHCPv6 server, it crashed. |
| 23 | ES4627MB-FLF-EC-00276 | [28F] It is very slow to enter the runtime while using the SPF+ DAC transceiver + cable. |
| 24 | ES4627MB-FLF-EC-00277 | RIP:DUT didn't learn max route entries via RIP protocol. |
| 25 | ES4627MB-FLF-EC-00278 | RIP/WEB:DUT shall support to set RIP parameters via web. |
| 26 | ES4627MB-FLF-EC-00279 | StaticRoute:DUT hangs up in CLI and doesn't access web when adding last static route with different next hop. |
| 27 | ES4627MB-FLF-EC-00280 | CLI: Failed information while remove non-existed IPv6 ACL will show word "IPV6", but it shall be "IPv6". |
| 28 | ES4627MB-FLF-EC-00283 | [28F] Combo port(Copper) can not link up while port 23(Copper) loopback to port 24(Copper). [Phy is A1 version] |
| 29 | ES4627MB-FLF-EC-00286 | Diffserv:The position of Policy Rule table value display on Web is incorrect. |
| 30 | ES4627MB-FLF-EC-00287 | enhancement:vlan database shall be remove range of vlan id. |

**Runtime V1.3.1.7**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00213 | dynamic qos can't work with ip-access-group-in |
| 2 | ES4627MB-FLF-EC-00246 | [52T] The receiving rate of COS function isn't in the expection. |
| 3 | ES4627MB-FLF-EC-00256 | [52T] flow control not work |
| 4 | ES4627MB-FLF-EC-00258 | [52T] DiffServ function's behavior is incorrect |
| 5 | ES4627MB-FLF-EC-00267 | IPCluster : If the IPCluster remote host does Not match the MAC Address "70-72-CF " ,IPCluster doe not work in CLI. |
| 6 | ES4627MB-FLF-EC-00268 | IPCluster :Login the member WBEUI at the first time will operate in the same page. (should be in different page) |
| 7 | ES4627MB-FLF-EC-00274 | Flow Control:can't received flow control frames under type Dot3X and back pressure. |
| 8 | ES4627MB-FLF-EC-00281 | Console:line console login timeout can't disable. |
| 9 | ES4627MB-FLF-EC-00284 | Performance: The DUT can not forward packets correctly while tests RFC-2889 Partially and Fully Meashed |
| 10 | ES4627MB-FLF-EC-00289 | [28F] Console freeze when power up DUT with port 1,2 and port 13,14 connected with DAC cables |
| 11 | ES4627MB-FLF-EC-00290 | [Phase3] Remove DHCP relay option 82 due to it is L3 lite product since phase3. |
| 12 | ES4627MB-FLF-EC-00291 | [Phase3] web page "System > IP" should be removed |
| 13 | ES4627MB-FLF-EC-00293 | [CLI] static ARP command not recognized |
| 14 | ES4627MB-FLF-EC-00294 | [RIP] Missing "show ip protocols rip" CLI command |

**Runtime V1.3.1.7**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00065 | DHCPRelayOption82:On web,we can not set "DHCP Relay Server". |
| 2 | ES4627MB-FLF-EC-00141 | DHCP Relay Option 82 - corrections to grammar on web page |
| 3 | ES4627MB-FLF-EC-00260 | DHCP Snooping:DHCP snooping did not work correctly. |
| 4 | ES4627MB-FLF-EC-00285 | CoS:If DUT connect cross chip,it shall not mapped to specific priority queue,and receiving rate display weight incorrect. |
| 5 | ES4627MB-FLF-EC-00296 | help page: ICMP description is incorrect.ipv6 shall be 0-1500. and ipv4 shall be 32-512 |
| 6 | ES4627MB-FLF-EC-00297 | RIP Help Page:It should add the description information of RIP in help page. |
| 7 | ES4627MB-FLF-EC-00298 | StaticRoute Help Page:It should add the description information of staticroute in help page. |
| 8 | ES4627MB-FLF-EC-00299 | RIP:These entries should not be displayed repeatedly in show ip rip interface when setting multiple IP interface addresses. |
| 9 | ES4627MB-FLF-EC-00300 | RIP:The distance setting parameter should not be different in CLI and web. |
| 10 | ES4627MB-FLF-EC-00301 | IPv6 property config : It should show“IPv6” Not “ipv6” in the description information of CLI help. |
| 11 | ES4627MB-FLF-EC-00302 | IPv6 interface CLI Help message: It should show “IPv6” Not “ipv6” in the description information of CLI. |
| 12 | ES4627MB-FLF-EC-00305 | IGMP : the Expire Time be configured 65535 seconds and miss the second information in WEB. |
| 13 | ES4627MB-FLF-EC-00306 | [phase3] remove web and help page DHCP > Relay Option82 and add DHCP Relay web page. |
| 14 | ES4627MB-FLF-EC-00307 | Update the web help page (1.3.1.6) |
| 15 | ES4627MB-FLF-EC-00308 | mac-vlan setting can't be saved |
| 16 | ES4627MB-FLF-EC-00309 | port1-24 and port25-50 can't pass through the multicast stream |
| 17 | ES4627MB-FLF-EC-00310 | [28F] Sometimes dut will show hwIfTwsiWriteReg fail error message while booting runtime. |

**Runtime V1.3.2.0**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00312 | [COS/DiffServ] In two chip model, the behavior of Queue mode is not expected when congestion port in chip 2 |
| 2 | ES4627MB-FLF-EC-00313 | CoS queue mode strict not work on second chip |
| 3 | ES4627MB-FLF-EC-00314 | CoS: the config of CoS might be different for each chip , it should be same |
| 4 | ES4627MB-FLF-EC-00315 | CoS: the config should not be different for each chip |
| 5 | ES4627MB-FLF-EC-00316 | MIB file change for L2->L3 on ip addr config |

**Runtime V1.3.2.1**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00136 | [enhance] Support 1G SFP and 10G SFP+ on 10G port. |
| 2 | ES4627MB-FLF-EC-00288 | [28F only] SNMPbulkwalk Cause snmp service no response |
| 3 | ES4627MB-FLF-EC-00311 | Boot: DUT boot will take longer time and show Errpr message. (Not all the DUT has this issue) |
| 4 | ES4627MB-FLF-EC-00317 | DHCP Relay: DUT can not relay packets to DHCP server. |
| 5 | ES4627MB-FLF-EC-00318 | [Loader] Build error of mini u-boot |

**Runtime V1.3.2.2**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00136 | [enhance] Support 1G SFP and 10G SFP+ on 10G port. |
| 2 | ES4627MB-FLF-EC-00292 | [Phase3] Suggest web page "IP Services > DHCP > Relay Option 82" to More generic menu name "IP Services > DHCP > Relay" |
| 3 | ES4627MB-FLF-EC-00320 | [Diag] wsextlb might configure illegal port speed on fiber media port of combo port on 28F |
| 4 | ES4627MB-FLF-EC-00321 | pull out 1G transceiver LED have problem |
| 5 | ES4627MB-FLF-EC-00322 | insert 1G transceiver will show an error message |
| 6 | ES4627MB-FLF-EC-00323 | After 1G GBIC replace with 10G GBIC ,10G cannot link up |
| 7 | ES4627MB-FLF-EC-00324 | [ECS4510-52T] can't bind port 29-52 to port-channel |
| 8 | ES4627MB-FLF-EC-00325 | [enhance] It need detect 1G transceiver on 10G port to config no negotiation on that port automatically. |
| 9 | ES4627MB-FLF-EC-00330 | Total mac address count doesn't include static MAC address. |
| 10 | ES4627MB-FLF-EC-00331 | it's inconvenient to check total mac address count becuase we have to add interface ethernet 1/x behind the command |
| 11 | ES4627MB-FLF-EC-00332 | Switch stop responding in provision mode |
| 12 | ES4627MB-FLF-EC-00334 | Disable DHCP Server due to this product should not support this. |
| 13 | ES4627MB-FLF-EC-00336 | Update the web help page (V1.3.2.1) |

**Runtime V1.3.2.3**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00134 | On help page,it does not description about "MED-Lacation Civic Address" information. |
| 2 | ES4627MB-FLF-EC-00335 | 10G port not support 100BASE-FX please remove the command "media-type sfp-forced 100fx" |
| 3 | ES4627MB-FLF-EC-00337 | SFP+ plug 1G SFP after reload can not link |
| 4 | ES4627MB-FLF-EC-00338 | can't link up with extend module |
| 5 | ES4627MB-FLF-EC-00344 | CLI will show the message when the switch overload |
| 6 | ES4627MB-FLF-EC-00345 | Add IGMP Filter Group and MVR Group Cause System auto reboot |

**Runtime V1.3.2.4**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00329 | cpu rising because of mac collision |
| 2 | ES4627MB-FLF-EC-00342 | ping response time of ECS4510-28T (version 1.3.2.0 ) greater than 1.3.1.2 |
| 3 | ES4627MB-FLF-EC-00343 | simple dhcp realy can not work with dhcp snooping option 82 |

**Runtime V1.3.2.5**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00346 | wrong setting of spanning-tree cost & spanning-tree mst 0 cost on expansion module ports after default config booting. |
| 2 | ES4627MB-FLF-EC-00348 | DHCPSnooping : Failed to add dynamic binding, drop log |
| 3 | ES4627MB-FLF-EC-00349 | Request for small change in syslog format(from one digit to two digit) |
| 4 | ES4627MB-FLF-EC-00350 | change from kbps to pps for storm control |
| 5 | ES4627MB-FLF-EC-00351 | [enhance] user can config the maximum of FDB lookup depth. |
| 6 | ES4627MB-FLF-EC-00355 | ECS4510-52P didn't support "ip igmp snooping vlan 1 immediate-leave by-host-ip" need to add this feature |
| 7 | ES4627MB-FLF-EC-00356 | IGMPSNP: implement immediate leave with by-hop-ip option |
| 8 | ES4627MB-FLF-EC-00360 | show cable-diagnostics interface press others to exit but display next page |

**Runtime V1.3.2.6**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00353 | Selective QinQ shall include "svid" and "cvid" in the traffic,but RCS4510-52P is not (only svid) |
| 2 | ES4627MB-FLF-EC-00354 | MVR drop counter didn't increase when IGMP report drop by IGMP fifter |
| 3 | ES4627MB-FLF-EC-00357 | MSTP instances can not be read by SNMP |
| 4 | ES4627MB-FLF-EC-00361 | Can't read the information about dynamic VLAN via SNMP |
| 5 | ES4627MB-FLF-EC-00362 | [Enhancement]Management access |

**Runtime V1.3.2.7**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00365 | ECS4500:client cannot get ip address because of dhcp snp option 82 |
| 2 | ES4627MB-FLF-EC-00366 | enable DHCPSNP and IPSG clients can't receive ACK packet from DHCP server after few minutes |
| 3 | ES4627MB-FLF-EC-00367 | [Syslog] Add syslog backdoor |
| 4 | ES4627MB-FLF-EC-00368 | it doesn't rewrite new messages to memory neither send them to remote syslog server |
| 5 | ES4627MB-FLF-EC-00369 | [enhance] change poe maximal available power when power change between main and rps |

**Runtime V1.4.0.0**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00059 | [LNA] SMC10GBTMOD link is not up after unplug the stacking cable(US) |
| 2 | ES4627MB-FLF-EC-00318 | [Loader] Build error of mini u-boot |
| 3 | ES4627MB-FLF-EC-00326 | Modify default LLDP parameters in ES3528MV2 to be the same as it is now in ES3528M switch |
| 4 | ES4627MB-FLF-EC-00327 | Enhancement: adding command “ip arp inspection validate dst-mac src-mac ip allow zeros” like in Cisco |
| 5 | ES4627MB-FLF-EC-00328 | [Loader Enhancement] Mini Uboot Support X-Modem download 2nd Stage Uboot image and boot |
| 6 | ES4627MB-FLF-EC-00333 | MVR enhancement: it can use L3 MVR design |
| 7 | ES4627MB-FLF-EC-00339 | [enhance](web part) It need detect 1G transceiver on 10G port to config no negotiation on that port automatically. |
| 8 | ES4627MB-FLF-EC-00358 | [enhancement] add the DHCP snooping table binding table entry to 16 |
| 9 | ES4627MB-FLF-EC-00364 | Add upgrade epld function in uboot and rumtime |
| 10 | ES4627MB-FLF-EC-00371 | ES4627MB-ELF-EC:Study and coding for USB support |

**Runtime V1.4.0.0**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00347 | Already support symmetric flow control, but failed to set capabilities symmetric |
| 2 | ES4627MB-FLF-EC-00358 | [enhancement] add the DHCP snooping table binding table entry to 16 |
| 3 | ES4627MB-FLF-EC-00372 | [enhance] support ACL Counter mib part |
| 4 | ES4627MB-FLF-EC-00374 | [Enhance] Can change the maximun aging time |
| 5 | ES4627MB-FLF-EC-00375 | [enhance] Support PPPoE IA Remote ID new format |
| 6 | ES4627MB-FLF-EC-00376 | Jumbo frame not work at EM4510-10GSFP+ ports after reboot |
| 7 | ES4627MB-FLF-EC-00378 | Unable to learn the source mac address from jumbo packets |

**Runtime V1.4.0.1**

**Please see the “The enhancement difference list between phase4 and phase3” in the MODIFICATIONS section.**

**Runtime V1.4.0.2**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00380 | [enhancement] support spanning topology change propagation stop |

**Runtime V1.4.0.3**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00295 | UserAuthRemote:DUT logging by Tacacs server, but "Authentication Sequence" can not changed on Web. |
| 2 | ES4627MB-FLF-EC-00303 | BackDoor:UPDM not working on backdoor. |
| 3 | ES4627MB-FLF-EC-00304 | DHCP Relay: DHCP Relay server can not display on CLI. |
| 4 | ES4627MB-FLF-EC-00359 | no permit for using cable-diagnostics on WEB |
| 5 | ES4627MB-FLF-EC-00370 | ACL(UDP packets with dest. port 68) does not work |
| 6 | ES4627MB-FLF-EC-00371 | ES4627MB-ELF-EC:Study and coding for USB support |
| 7 | ES4627MB-FLF-EC-00373 | [enhance] Support DHCPSNP Option82 Remote ID / Circuit ID configurable new format |
| 8 | ES4627MB-FLF-EC-00375 | [enhance] Support PPPoE IA Remote ID new format |
| 9 | ES4627MB-FLF-EC-00377 | Unable to learn source mac address from jumbo frame |
| 10 | ES4627MB-FLF-EC-00380 | [enhancement] support spanning topology change propagation stop |
| 11 | ES4627MB-FLF-EC-00381 | MAC ACL with VLAN ID + ethertype doesn't work |
| 12 | ES4627MB-FLF-EC-00382 | MAC ACL with IPv6 filter doesn't work |
| 13 | ES4627MB-FLF-EC-00383 | Verify to set Ingress Rate-Limit rate within the valid range. |
| 14 | ES4627MB-FLF-EC-00385 | LLDP: one command for PoE related TLV is not existed |
| 15 | ES4627MB-FLF-EC-00386 | LBD: action configuation does not work when global status is disabled |
| 16 | ES4627MB-FLF-EC-00387 | mac can not be learned from trunk |
| 17 | ES4627MB-FLF-EC-00397 | copy tftp startup-config cause error |
| 18 | ES4627MB-FLF-EC-00398 | inserted 1G or 100M SFP and then removed from the switch on eth 1/1-24, it will cause "Port type: ERROR" |
| 19 | ES4627MB-FLF-EC-00399 | MAC-BaseVLAN: Can't MAC-Base VLAN entry with mask other then ff-ff-ff-ff-ff-ff. |
| 20 | ES4627MB-FLF-EC-00400 | IGMPSNP: Multicast group can not be registered on port-channel. |
| 21 | ES4627MB-FLF-EC-00401 | PPPoE-IA: DUT console halt and auto reboot after receive malformed PPPoE packet on trust port. |
| 22 | ES4627MB-FLF-EC-00402 | MLDSNP: Query interval is not correct. |
| 23 | ES4627MB-FLF-EC-00403 | LD: The DUT doesn't shutdown the port-channel when receive the loopback-detection packets that is same as the LBD of DUT. |
| 24 | ES4627MB-FLF-EC-00404 | LD: The DUT will shutdown the port when receive a loopback-detection packet and the SA doesnt owner system address. |
| 25 | ES4627MB-FLF-EC-00405 | MLDSNP: Unknown multicast packets can not be forwarded to all ports on flood mode on non-default VLAN. |
| 26 | ES4627MB-FLF-EC-00406 | PPPoE-IA: Can't establish PPP connection on port-channel. |
| 27 | ES4627MB-FLF-EC-00407 | SNTP: The date of summer-time can set the year number to 2100. |
| 28 | ES4627MB-FLF-EC-00411 | MLDSNP: The timeout of host is not correct. |
| 29 | ES4627MB-FLF-EC-00412 | DDM: The default media type of SFP port is None. |
| 30 | ES4627MB-FLF-EC-00413 | MLDSNP: QRV in MLDv2 query packets is not zero when set Robustness to 9 and 10. |
| 31 | ES4627MB-FLF-EC-00414 | MLDSNP: The static group entry can be added when total static group entries have exceeded maximum number. |
| 32 | ES4627MB-FLF-EC-00415 | DDM: The TxPower high-warning can't set 820 from SNMP when the TxPower high-alarm is 820. |
| 33 | ES4627MB-FLF-EC-00416 | DDM: The RxPower high-warning can't set 820 from SNMP when the RxPower high-alarm is 820. |
| 34 | ES4627MB-FLF-EC-00417 | IPSourceGuard: DUT cannot learn any blocked entry on ACL mode. |
| 35 | ES4627MB-FLF-EC-00418 | IPSourceGuard: After we create mutiple rule and inject invalid packets; DUT does not learn this blocked entry. |
| 36 | ES4627MB-FLF-EC-00419 | IPSourceGuard: When we create one MAC binding on Trunk member port, DUT does not return any error. |
| 37 | ES4627MB-FLF-EC-00420 | SNMP-MIB: We cannot load this MIB file to MIB Browser. |
| 38 | ES4627MB-FLF-EC-00423 | IPv6ACL: Some ACE can be set from WebUI but not be set from CLI. |
| 39 | ES4627MB-FLF-EC-00424 | DHCPV6 Snooping: This max-binding value cannot be modified on Trunk successfully. |
| 40 | ES4627MB-FLF-EC-00426 | MLDSNP\_MIB: Can not find mldsnooping node in the MIB tree. |
| 41 | ES4627MB-FLF-EC-00427 | DHCPV6 Snooping: When we configure this Trunk as trust port, Client cannot get DHCP6 address. |
| 42 | ES4627MB-FLF-EC-00428 | LLDP: CLI/Web naming is inconsistent about LLDP. |
| 43 | ES4627MB-FLF-EC-00429 | LLDP: dot3-TLV shall remove "PoE" selection when DUT is non-PoE |
| 44 | ES4627MB-FLF-EC-00430 | PortSecurity: The mac address which learned by port-security can't save in running config. |
| 45 | ES4627MB-FLF-EC-00431 | LLDP: The value of "Neighbor Entries List Last Updated" is wrong on WebUI(x100) |
| 46 | ES4627MB-FLF-EC-00432 | IPSourceGuard: We cannot create maximum 1024 MAC binding entries. |
| 47 | ES4627MB-FLF-EC-00433 | LLDP: MED-TLV shall remove "PoE" selection when DUT is non-PoE |
| 48 | ES4627MB-FLF-EC-00434 | IPV6SourceGuard: DUT cannot display any IPV6 SG entry on WEB. |
| 49 | ES4627MB-FLF-EC-00436 | Update the web help page (V1.3.2.6) |
| 50 | ES4627MB-FLF-EC-00437 | IPSourceGuard: After we change filter rule and max-binding, DUT does not clear MAC address from MAC table. |
| 51 | ES4627MB-FLF-EC-00438 | IPSourceGuard: After we inject maximum MAC traffic, DUT display unknown blocked entries. |
| 52 | ES4627MB-FLF-EC-00442 | IPV6SourceGuard: This range of max-binding entry is incorrect on WEB. |
| 53 | ES4627MB-FLF-EC-00443 | IPv6NDSNP: Auto detection is performed when the valid-time of binding entry is expired. |
| 54 | ES4627MB-FLF-EC-00445 | IPV6SourceGuard: After we create one same static entry on DUT, it does not replace this orignial dynamic entry. |
| 55 | ES4627MB-FLF-EC-00446 | IPV6SourceGuard: After we add one static entry over max-binding setting, DUT does not replace existing dynamic entry . |
| 56 | ES4627MB-FLF-EC-00447 | CLI command "Show interface transceiver" fails after the SFP has been inserted for more than 248 days |
| 57 | ES4627MB-FLF-EC-00448 | Web: "Configure by Port List"&"Configure by Port Range" on "Interface > Port > General" data invalid |
| 58 | ES4627MB-FLF-EC-00449 | WEB: We cannot configure this DHCP Snooping rate-limit on WEB page. |
| 59 | ES4627MB-FLF-EC-00451 | DHCP Snooping: This DHCP Snooping rate-limit cannot work on Trunk. |
| 60 | ES4627MB-FLF-EC-00454 | IPv6NDSNP: Limitation of max-binding is useless when the same entries are changed to another ports. |
| 61 | ES4627MB-FLF-EC-00455 | MAC Notification: DUT send incorrect MAC-notification log. |
| 62 | ES4627MB-FLF-EC-00456 | MAC Notification: When we this MAC address is moved to another port, DUT does not send out this MAC-remove Trap. |
| 63 | ES4627MB-FLF-EC-00457 | MAC Notification: When we remove all dynamic MAC addresses, DUT does not send out this MAC-remove Trap. |
| 64 | ES4627MB-FLF-EC-00458 | L2Switch: It cannot be disabled MAC-learning from WebUI |
| 65 | ES4627MB-FLF-EC-00459 | MAC Notification: This mac-notification cannot work on Trunk. |
| 66 | ES4627MB-FLF-EC-00460 | MAC Notification: DUT cannot save this MAC-notification port setting. |
| 67 | ES4627MB-FLF-EC-00461 | WEB: We cannot configure this mac-notification on WEB page. |
| 68 | ES4627MB-FLF-EC-00462 | WEB: We cannot configure this mac-notification on WEB page. |
| 69 | ES4627MB-FLF-EC-00463 | SNTP: The effect time of summertime can't set the value to 0. |
| 70 | ES4627MB-FLF-EC-00464 | AMTR: When we inject MAC learning traffic over 13K MAC address, DUT return error message and Ping session timeout. |
| 71 | ES4627MB-FLF-EC-00466 | ACL: DUT does not reject this invalid IP mask setting. |
| 72 | ES4627MB-FLF-EC-00467 | WEB: We cannot configure this VLAN-ACL through WEB. |
| 73 | ES4627MB-FLF-EC-00468 | ACL:When we configure one protocol rule to forward other packets expect HOPOPT, DUT does not forward this UDP packtes. |
| 74 | ES4627MB-FLF-EC-00469 | ACL: When we configure DUT to permit specific source-port traffic, DUT does not forward these packtes. |
| 75 | ES4627MB-FLF-EC-00470 | ACL: This IPV6 MAC-ACL filter cannot work. |
| 76 | ES4627MB-FLF-EC-00471 | media type sfp-forced only support 1000 & 100fx no 10G |
| 77 | ES4627MB-FLF-EC-00473 | 1G SFP in 10G port can not link up |
| 78 | ES4627MB-FLF-EC-00474 | CPU usage 100% after boot up with 10G port loopback link and spanning tree disable. |
| 79 | ES4627MB-FLF-EC-00476 | fail to set mac-notification interval to 3600 |
| 80 | ES4627MB-FLF-EC-00478 | When in L2 abilty VIDX not be initialezed, affected by enhance l3 multicast feature |

**Runtime V1.4.1.0**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00409 | DDM: The Web page that has no the option to select the port 51 and 52 information of transceiver. |
| 2 | ES4627MB-FLF-EC-00410 | DDM: Set the hig-alarm value of TxPower to 8.20 and press the apply button from web page which the value will show 8.19. |
| 3 | ES4627MB-FLF-EC-00425 | [enhance] enable stacking for poe |
| 4 | ES4627MB-FLF-EC-00453 | Web: Web privilege is wrong, level 8 can execute level 15 authority. |

**Runtime V1.4.1.1(Cancel)**

**Runtime V1.4.1.2**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00444 | IPV6SourceGuard: After we delete one same SIP entry from binding table, DUT cannot forward packets with configured SIP. |
| 2 | ES4627MB-FLF-EC-00464 | AMTR: When we inject MAC learning traffic over 13K MAC address, DUT return error message and Ping session timeout. |
| 3 | ES4627MB-FLF-EC-00491 | [28F] front panel display incorrectly on combo port in web page |
| 4 | ES4627MB-FLF-EC-00495 | switch will auto reboot after plug-in/out 10G SFP |
| 5 | ES4627MB-FLF-EC-00499 | AMTR: This collision-mac-address-table cannot learn any entry. |

**Runtime V1.5.1.6**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00388 | Support Stacking: Device Map table setup |
| 2 | ES4627MB-FLF-EC-00389 | Support stacking:Dev\_swdrv.c need to support configure device id of Switch Chip. |
| 3 | ES4627MB-FLF-EC-00390 | Support Stacking:Source ID egress filtering table setup |
| 4 | ES4627MB-FLF-EC-00391 | Support stacking:Tx Queue settings for IUC packets and normal packets. |
| 5 | ES4627MB-FLF-EC-00392 | Support stacking:DEV\_NICDRV supports sending IUC packet |
| 6 | ES4627MB-FLF-EC-00393 | Support stacking:Need to increase the size of the shared memory after changing SYS\_ADPT\_NBR\_OF\_UNIT\_PER\_STACK to 8. |
| 7 | ES4627MB-FLF-EC-00394 | Support stacking:Support getting stacking port according to board id. |
| 8 | ES4627MB-FLF-EC-00395 | Support stacking: Cascaded port settings for stacking ports |
| 9 | ES4627MB-FLF-EC-00396 | Support stacking:Cascaded ports shall join all created vlans and vidx group |
| 10 | ES4627MB-FLF-EC-00425 | [enhance] enable stacking for poe |
| 11 | ES4627MB-FLF-EC-00465 | Support stacking:The link status of the stacking port is always down to upper layer |
| 12 | ES4627MB-FLF-EC-00472 | Support stacking: Temporary workaround patch |
| 13 | ES4627MB-FLF-EC-00475 | Support stacking: ISC packet will be regarded as invalid packet |
| 14 | ES4627MB-FLF-EC-00477 | Support stacking: Exception at linux kernel function \_\_wake\_up\_common when stacking cable is removed from the slave unit |
| 15 | ES4627MB-FLF-EC-00479 | Support stacking: SNTP task doesn't reset SW WTD timer in slave mode |
| 16 | ES4627MB-FLF-EC-00480 | Address is not learnt at slave after stacking up |
| 17 | ES4627MB-FLF-EC-00481 | Address is not learnt at slave after stacking up |
| 18 | ES4627MB-FLF-EC-00482 | Support stacking: Support software master button |
| 19 | ES4627MB-FLF-EC-00484 | [stacking] web page for stacking |
| 20 | ES4627MB-FLF-EC-00485 | [WEB][IGMPSNP]It can't configure to use global value with "Proxy Reporting' and "Interface Version" |
| 21 | ES4627MB-FLF-EC-00486 | uboot enhancement to dump the location which bit flip happens |
| 22 | ES4627MB-FLF-EC-00490 | MAC-VLAN-MIB: Can't change priority by "macVlanPriority". |
| 23 | ES4627MB-FLF-EC-00493 | [Stacking] Ping time-out if port link at slave's front port |
| 24 | ES4627MB-FLF-EC-00496 | [Stacking]DEV\_SWDRVL4 SetPortEgressSchedulingMethod and SetPortWrrQueueWeight error |
| 25 | ES4627MB-FLF-EC-00497 | [Stacking]"ip source-guard mode" config appears in running config when using factory default |
| 26 | ES4627MB-FLF-EC-00498 | [Stacking]"switchport allowed vlan remove 1" appears in running config of the master unit |
| 27 | ES4627MB-FLF-EC-00500 | [Stacking]flow control does not work |
| 28 | ES4627MB-FLF-EC-00501 | [Stacking]Boot two DUTs with stacking cable inserted will hang |
| 29 | ES4627MB-FLF-EC-00503 | [Stacking] when a standalone unit starts up with unit=2, ACL is not working. |
| 30 | ES4627MB-FLF-EC-00504 | Support stacking: Support software stacking button |
| 31 | ES4627MB-FLF-EC-00505 | [Cluster] Enable cluster commander on stacking DUT, it fails to add other cluster member |
| 32 | ES4627MB-FLF-EC-00506 | [Stacking] PPPoE packet cannot be trapped to CPU after stacked up |
| 33 | ES4627MB-FLF-EC-00507 | [DAI] Fail to enable DAI when stacking |
| 34 | ES4627MB-FLF-EC-00508 | Fail to query DDM mib node of slave unit |
| 35 | ES4627MB-FLF-EC-00509 | [DHCP client] Fail to send out dhcp packet when stacking |
| 36 | ES4627MB-FLF-EC-00510 | [PortMonitor] can't workfor stacking |
| 37 | ES4627MB-FLF-EC-00511 | [PortMirror] not work for stacking |
| 38 | ES4627MB-FLF-EC-00512 | [Stacking] NIC RX: might get wrong src\_port for mcast traffic |
| 39 | ES4627MB-FLF-EC-00513 | [Stacking] NIC RX: might get wrong src\_port for mcast traffic |
| 40 | ES4627MB-FLF-EC-00514 | [Stacking] TCN occurs when injecting many new Macs on slave unit port |
| 41 | ES4627MB-FLF-EC-00515 | [Stacking] Didn't initial some rule on slave DUT, and not clear the rule of Slave after the slave is unlink |
| 42 | ES4627MB-FLF-EC-00516 | [Stacking] traffic segmentation might not work for stacking |
| 43 | ES4627MB-FLF-EC-00517 | [Stacking] trunk might not work for stacking |
| 44 | ES4627MB-FLF-EC-00518 | [Stacking] Slave has no CPUMAC at FDB if stacking link connected before power on |
| 45 | ES4627MB-FLF-EC-00519 | [Stacking] Error message on slave if stacking link connected before 2 units are power on. |
| 46 | ES4627MB-FLF-EC-00520 | [poe] fail to show and configure poe of slave unit |
| 47 | ES4627MB-FLF-EC-00521 | OAM: remote loopback failed from slave unit to master unit |
| 48 | ES4627MB-FLF-EC-00522 | IGMP\_auth: report shall not forwarded to mrouter port before authenticate successfaully. |
| 49 | ES4627MB-FLF-EC-00523 | [Stacking] Multicast packets are looping on ring topology |
| 50 | ES4627MB-FLF-EC-00524 | OAM: "show efm oam status interface b" can not display all units under stacking |
| 51 | ES4627MB-FLF-EC-00525 | CFM: control packets can not be trapped to CPU correctly on slave unit. |
| 52 | ES4627MB-FLF-EC-00526 | [Cluster] Failed to remote access cluster member when link is connected on slave unit |
| 53 | ES4627MB-FLF-EC-00528 | [Stacking] ACL counter doesn't work on slave, it always be 0 |
| 54 | ES4627MB-FLF-EC-00529 | [Stacking] CoS doesn't work on slave, the pkt rate between different cos always be 1:1 |
| 55 | ES4627MB-FLF-EC-00530 | [Stacking] Failed to add ipsg mac mode binding on slave unit |
| 56 | ES4627MB-FLF-EC-00531 | [Stacking] Incorrect display format and running config when using factory default |
| 57 | ES4627MB-FLF-EC-00532 | [Stacking] Master occurs TCN due to slave unit reboot |
| 58 | ES4627MB-FLF-EC-00533 | [enhance] support MSTP instances to 65 (64 MSTI + 1 CIST) |
| 59 | ES4627MB-FLF-EC-00535 | IGMPSNP: Control packet can not be trapped to CPU corretly on slave unit. |
| 60 | ES4627MB-FLF-EC-00536 | [Stacking] MAC deletion work-around, for SDK API, FDB action, cannot delete MAC on specified device. |
| 61 | ES4627MB-FLF-EC-00537 | [Stacking] Stktplg on Master is hanged and stack failed after entering runtime |

**Runtime V1.5.1.7**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00537 | [Stacking] Stktplg on Master is hanged and stack failed after entering runtime |
| 2 | ES4627MB-FLF-EC-00540 | [Stacking] Ring topology can't stack success with more than 2 units |

**Runtime V1.5.1.8**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00364 | Add upgrade epld function in uboot and rumtime |
| 2 | ES4627MB-FLF-EC-00389 | Support stacking:Dev\_swdrv.c need to support configure device id of Switch Chip. |
| 3 | ES4627MB-FLF-EC-00525 | CFM: control packets can not be trapped to CPU correctly on slave unit. |
| 4 | ES4627MB-FLF-EC-00528 | [Stacking] ACL counter doesn't work on slave, it always be 0 |
| 5 | ES4627MB-FLF-EC-00529 | [Stacking] CoS doesn't work on slave, the pkt rate between different cos always be 1:1 |
| 6 | ES4627MB-FLF-EC-00534 | [UNIT\_TEST]Check in Unit Test code |
| 7 | ES4627MB-FLF-EC-00535 | IGMPSNP: Control packet can not be trapped to CPU corretly on slave unit. |
| 8 | ES4627MB-FLF-EC-00539 | [poe] when connect poe port to to PD, in some case, port led is green. |
| 9 | ES4627MB-FLF-EC-00543 | [Stacking] "copy unit file" can't copy slave file |
| 10 | ES4627MB-FLF-EC-00547 | [Stacking] Telnet fail after hot insertion and copy file running |
| 11 | ES4627MB-FLF-EC-00548 | [Stacking] Packets sent from slave to master always use cos 0 (queue 1) |

**Runtime V1.5.1.9**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00496 | [Stacking]DEV\_SWDRVL4 SetPortEgressSchedulingMethod and SetPortWrrQueueWeight error |
| 2 | ES4627MB-FLF-EC-00525 | CFM: control packets can not be trapped to CPU correctly on slave unit. |
| 3 | ES4627MB-FLF-EC-00539 | [poe] when connect poe port to to PD, in some case, port led is green. |
| 4 | ES4627MB-FLF-EC-00544 | [Stacking] Send NA packets will cause show information slowly |
| 5 | ES4627MB-FLF-EC-00546 | [stacking] MAC learning speed is very slow when stacked. |
| 6 | ES4627MB-FLF-EC-00549 | [Stacking] TCN message always occurs after entering runtime |
| 7 | ES4627MB-FLF-EC-00551 | Stacking: The reboot time is over 2 mins when stacking two units |
| 8 | ES4627MB-FLF-EC-00560 | Stacking: When we connect to switch through slave device, this ping session always is timeout. |
| 9 | ES4627MB-FLF-EC-00562 | Stacking: Set or show the interface that doesn't display between 3 and 8 unit number when the DUT become stacking status. |
| 10 | ES4627MB-FLF-EC-00567 | 1QVLAN: This VLAN configuration range is incorrect on CLI. |
| 11 | ES4627MB-FLF-EC-00577 | MSTP: Packets flood to other other ports in 32 instances stituation. |

**Runtime V1.5.1.10**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00483 | FAN OK in show system, but it got trouble(i2c error message) while booting. |
| 2 | ES4627MB-FLF-EC-00485 | [WEB][IGMPSNP]It can't configure to use global value with "Proxy Reporting' and "Interface Version" |
| 3 | ES4627MB-FLF-EC-00496 | [Stacking]DEV\_SWDRVL4 SetPortEgressSchedulingMethod and SetPortWrrQueueWeight error |
| 4 | ES4627MB-FLF-EC-00552 | Stacking: The master unit will automatic reboot after 10 mins when link between the up port and the up port. |
| 5 | ES4627MB-FLF-EC-00553 | WEB: The "system -- capability" page display incorrect information. |
| 6 | ES4627MB-FLF-EC-00566 | LACP: DUT auto reboot while display running configuration. |
| 7 | ES4627MB-FLF-EC-00570 | LACP: After trunk port shutdown, data can't re-distribute to backup port. |
| 8 | ES4627MB-FLF-EC-00571 | Static-Trunk: After shutdown/no shutdown port-channel, MAC can't be learned properly. |
| 9 | ES4627MB-FLF-EC-00572 | Stacking\_STP: The DUT happened exception error and printed continuous unexcepted messages. |
| 10 | ES4627MB-FLF-EC-00574 | [Enhance] RSTP support TCN propogation group |
| 11 | ES4627MB-FLF-EC-00575 | [Enhance] UDLD support configurable recover timer and detection timer |
| 12 | ES4627MB-FLF-EC-00576 | ATC: When we show the command "auto-traffic-control interface" on CLI, it display incorrect slave-device port number. |
| 13 | ES4627MB-FLF-EC-00580 | Syslog: The DUT will send the malformed packets of syslog. |
| 14 | ES4627MB-FLF-EC-00583 | Enhancement: CPU protection to prevent management loss by heavy traffic attack |
| 15 | ES3528MV2-FLF-EC-00502 | VLAN: PVID can be set on VLAN which a port does not join; a new command can set VLAN membership directly without add/remove. |

**Runtime V1.5.1.11**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00554 | StaticRoute: After we Shutdown and no shutdown interface, some Ping session is timeout. |
| 2 | ES4627MB-FLF-EC-00558 | RIP: After this RIP topology is changed, some Ping session is timeout. |
| 3 | ES4627MB-FLF-EC-00559 | RIP: After we save RIP configuration and rebooting, some Ping session is timeout. |
| 4 | ES4627MB-FLF-EC-00565 | RIP: DUT cannot learn this maximum 1k network routes. |
| 5 | ES4627MB-FLF-EC-00575 | [Enhance] UDLD support configurable recover timer and detection timer |

**Runtime V1.5.1.12**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00282 | Web: DAI enabling on non-existed VLAN can be allowed on CLI, but Web can't support this part. |
| 2 | ES4627MB-FLF-EC-00364 | Add upgrade epld function in uboot and rumtime |
| 3 | ES4627MB-FLF-EC-00408 | SNTP: Need to update the predefined time setting. |
| 4 | ES4627MB-FLF-EC-00440 | IPV6SourceGuard MIB: DUT should support this IPV6SourceGuard MIB. |
| 5 | ES4627MB-FLF-EC-00443 | IPv6NDSNP: Auto detection is performed when the valid-time of binding entry is expired. |
| 6 | ES4627MB-FLF-EC-00450 | MIB: DUT should support to configure DHCP Snooping rate-limit through SNMP. |
| 7 | ES4627MB-FLF-EC-00454 | IPv6NDSNP: Limitation of max-binding is useless when the same entries are changed to another ports. |
| 8 | ES4627MB-FLF-EC-00488 | DDM: The value of TxPower that the CLI and Web management are matched, but mismatch the SNMP management. |
| 9 | ES4627MB-FLF-EC-00489 | DDM: The value of RxPower that the CLI and Web management are matched, but mismatch the SNMP management. |
| 10 | ES4627MB-FLF-EC-00492 | IPSourceGuard: After we add port to Trunk, DUT should not remove this ACL entry. |
| 11 | ES4627MB-FLF-EC-00494 | IPSourceGuard: This maximum MAC-binding range is incorrect, and DUT does not drop non-security traffic over maximum binding. |
| 12 | ES4627MB-FLF-EC-00496 | [Stacking]DEV\_SWDRVL4 SetPortEgressSchedulingMethod and SetPortWrrQueueWeight error |
| 13 | ES4627MB-FLF-EC-00497 | [Stacking]"ip source-guard mode" config appears in running config when using factory default |
| 14 | ES4627MB-FLF-EC-00526 | [Cluster] Failed to remote access cluster member when link is connected on slave unit |
| 15 | ES4627MB-FLF-EC-00527 | [ES3528M] No MVR/MVR problem, it causes status of mvr receiver port is always inactive |
| 16 | ES4627MB-FLF-EC-00530 | [Stacking] Failed to add ipsg mac mode binding on slave unit |
| 17 | ES4627MB-FLF-EC-00531 | [Stacking] Incorrect display format and running config when using factory default |
| 18 | ES4627MB-FLF-EC-00534 | [UNIT\_TEST]Check in Unit Test code |
| 19 | ES4627MB-FLF-EC-00542 | [Stacking] Web-auth doesn't work on slave unit port |
| 20 | ES4627MB-FLF-EC-00556 | Stacking: The DUT does not forward traffic to other units when the topology is maximum stacking after reboot. |
| 21 | ES4627MB-FLF-EC-00561 | Stacking: Default reset that will fill out the ip source-guard configure automatically when the DUT become stacking status. |
| 22 | ES4627MB-FLF-EC-00563 | Stacking\_IGMPSNP: The DUT spent 3 minutes to clear dynamic groups after 48 hours long time test. |
| 23 | ES4627MB-FLF-EC-00564 | Stacking\_IGMPSNP: The DUT registered only 1022 groups. |
| 24 | ES4627MB-FLF-EC-00568 | WEB: This VLAN configuration range is incorrect on WEB page. |
| 25 | ES4627MB-FLF-EC-00575 | [Enhance] UDLD support configurable recover timer and detection timer |

**Runtime V1.5.1.13**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00435 | DDM: The DUT hsa no DDM help page on WEB manage. |
| 2 | ES4627MB-FLF-EC-00441 | WEB: DUT should support IPV6SG information on Help page. |
| 3 | ES4627MB-FLF-EC-00452 | Web: Userauth privilege only supports 0 and 15 on help page |
| 4 | ES4627MB-FLF-EC-00555 | Stacking: The all ports of master unit or slave units join the 2-4092 VLAN that will reboot the DUT. |
| 5 | ES4627MB-FLF-EC-00569 | Stacking\_IGMPSNP: The DUT can not forwarded some group multicast data to static registered ports after rebooting. |
| 6 | ES4627MB-FLF-EC-00584 | Please change label on Show Link Trace Cache page. |
| 7 | ES4627MB-FLF-EC-00587 | [stacking] Slave can't become master when master cancel stacking button |
| 8 | ES4627MB-FLF-EC-00588 | [enhance] change stacking resolved VLAN to 4095 from 4094 |
| 9 | ES4627MB-FLF-EC-00589 | [enhance] Update web help page (1.4.2.0) |

**Monitor**

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| 1 | ES4627MB-FLF-EC-00557 | Stacking: The DUT will print error message and reboot after 10 mins when create the maximum instance of MSTP. |

**Runtime V1.5.1.14**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00439 | IPSourceGuard: DUT does not support this WEB page to configure MAC rule and binding entry. |
| 2 | ES4627MB-FLF-EC-00569 | Stacking\_IGMPSNP: The DUT can not forwarded some group multicast data to static registered ports after rebooting. |
| 3 | ES4627MB-FLF-EC-00582 | [Enhance] Add web pages for UDLD. |
| 4 | ES4627MB-FLF-EC-00585 | dos-protection tcp-udp-port-zero in cli but not in web. |
| 5 | ES4627MB-FLF-EC-00590 | Cant got IP when VLAN Translation work together with IP DHCP Snooping |
| 6 | ES4627MB-FLF-EC-00595 | Stacking\_IGMPSNP: A static group can not be removed when this static group is set to two ports. |
| 7 | ES4627MB-FLF-EC-00596 | Stacking: The DUT will show the exception message and reboot when create 4K VLANs + 64 instances MSTP. |
| 8 | ES4627MB-FLF-EC-00597 | Stacking: The DUT will show fail message when renumber the stacking ID. |
| 9 | ES4627MB-FLF-EC-00598 | Stacking: The DUT doesn't re-learning the mac-address and traffic will flooding when user erase mac-address-table. |
| 10 | ES4627MB-FLF-EC-00599 | Stacking: The DUT will TCN automatically when stacking the 8 units and snmpwalk overnight |
| 11 | ES4627MB-FLF-EC-00601 | [Stacking] invalid stacking line at stacking port cause TCN issued. |
| 12 | ES4627MB-FLF-EC-00602 | [Stacking] invalid stacking line at stacking port cause TCN issued. |
| 13 | ES4627MB-FLF-EC-00606 | Stacking\_IGMPSNP: CLI prints error message and has no response when create/delete maximum groups. |
| 14 | ES4627MB-FLF-EC-00607 | Loosely connected fiber cable on port 50 and make it link up/down continuously causes the DUT hang |
| 15 | ES4627MB-FLF-EC-00609 | snmpwalk "snmpDot3MauMgt" will cause hang |

**Runtime V1.5.1.15**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00578 | StormBcast: This received packet-rate is not matched to storm-limit setting. |
| 2 | ES4627MB-FLF-EC-00591 | RIP: When we configure RIP send-packet to "v1-Compatible" on neighbor, DUT cannot learn any route. |
| 3 | ES4627MB-FLF-EC-00598 | Stacking: The DUT doesn't re-learning the mac-address and traffic will flooding when user erase mac-address-table. |
| 4 | ES4627MB-FLF-EC-00600 | Stacking: DUT auto reboot after add 4K VLAN. |
| 5 | ES4627MB-FLF-EC-00601 | [Stacking] invalid stacking line at stacking port cause TCN issued. |
| 6 | ES4627MB-FLF-EC-00608 | ATC: When we inject packet-rate greater than Alarm-fire-threshold; DUT cannot produce log and send out Trap. |
| 7 | ES4627MB-FLF-EC-00609 | snmpwalk "snmpDot3MauMgt" will cause hang |

**Runtime V1.5.1.16**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00557 | Stacking: The DUT will print error message and reboot after 10 mins when create the maximum instance of MSTP. |
| 2 | ES4627MB-FLF-EC-00598 | Stacking: The DUT doesn't re-learning the mac-address and traffic will flooding when user erase mac-address-table. |
| 3 | ES4627MB-FLF-EC-00592 | port security can't be learned when network-access aging enabled |
| 4 | ES4627MB-FLF-EC-00609 | snmpwalk "snmpDot3MauMgt" will cause hang |
| 5 | ES4627MB-FLF-EC-00590 | Cant got IP when VLAN Translation work together with IP DHCP Snooping |
| 6 | ES4627MB-FLF-EC-00611 | [diag] 28F: 10G wsextlb always fail (25-28) |
| 7 | ES4627MB-FLF-EC-00612 | [Stacking] master has no respond for stacking link down |

**Runtime V1.5.2.1**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00484 | [stacking] web page for stacking |
| 2 | ES4627MB-FLF-EC-00487 | WEB: We cannot enable this mac-notification per port through WEB page. |
| 3 | ES4627MB-FLF-EC-00586 | [stacking][clil] Slave unit always display timeout although it have no way to input account/passwd |
| 4 | ES4627MB-FLF-EC-00603 | Show running-config error after change username access-level**\*Attentation : changed design of admin and guest account:** switch with f/w ver. 1.5.2.2 (includes newer versions) will create admin/guest account automatically. In order to disable default accounts, user have to apply "no username admin/guest" manually and save it to startup-config again. |
| 5 | ES4627MB-FLF-EC-00604 | Show running-config error after change username access-level |
| 6 | ES4627MB-FLF-EC-00605 | Show running-config error after change username access-level |
| 7 | ES4627MB-FLF-EC-00606 | Stacking\_IGMPSNP: CLI prints error message and has no response when create/delete maximum groups. |
| 8 | ES4627MB-FLF-EC-00610 | config ERPSv1 or ERPSv2 CFM Version is always "1" |
| 9 | ES4627MB-FLF-EC-00614 | [diag] 52T: wsextlb sometimes fails |
| 10 | ES4627MB-FLF-EC-00615 | StormBcast: When we configure packet-rate with invalid setting, DUT should not disable this StormBcast. |
| 11 | ES4627MB-FLF-EC-00618 | Stacking: The DUT will print the error message when added a unit in six units stacking. |
| 12 | ES4627MB-FLF-EC-00619 | Stacking: The DUT will not respond and reboot automatically after 10mins when show running-config. |
| 13 | ES4627MB-FLF-EC-00620 | Stacking: The DUT will dump error message and reboot after 10 mins when delete the MSTP instance. |
| 14 | ES4627MB-FLF-EC-00622 | Stacking: The DUT will print error message when use create and delete the VLANs for each ports |
| 15 | ES4627MB-FLF-EC-00625 | [Enhancement] add MAC address of TC sender to log |
| 16 | ES4627MB-FLF-EC-00626 | Logging sendmail message sent by the switch are truncated |
| 17 | ES4627MB-FLF-EC-00628 | [bug] port-channel group can't join spanning tc-group |
| 18 | ES4627MB-FLF-EC-00630 | [enhance] command "mac-address-table hash-lookup-depth 32" can be displayed in running config. |
| 19 | ES4627MB-FLF-EC-00633 | [Diag] link status of some ports when executing cmd shportinfo sometimes are down, even it's up. |
| 20 | ES4627MB-FLF-EC-00635 | Phenomenon:Switch CPU utlization 100% and web fails after OPENSSL vulnerability test. |
| 21 | ES4627MB-FLF-EC-00637 | [Stacking] master failed to set mac address to slave |
| 22 | ES4627MB-FLF-EC-00638 | [Diag] Runtime sometimes hangs, when exit from diag. |

**Runtime V1.5.2.2**

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|  | EPR | Headline |
| 1 | ECS4620-28T-00236 | userauth get running may cause system excetpion hpaaened |

**Runtime V1.5.2.3**

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|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00519 | [Stacking] Error message on slave if stacking link connected before 2 units are power on. |
| 2 | ES4627MB-FLF-EC-00600 | Stacking: DUT auto reboot after add 4K VLAN. |
| 3 | ES4627MB-FLF-EC-00616 | Stacking: The DUT doesn't learning the mac-address when stacking the 8 units and snmpwalk overnight |
| 4 | ES4627MB-FLF-EC-00631 | [Looging sendmail]When the hour/min/sec is single digit, the preceding 0 is dropped |
| 5 | ES4627MB-FLF-EC-00632 | No setting to adjust daylight saving at web GUI |
| 6 | ES4627MB-FLF-EC-00634 | Enhancement Per process cpu usage monitoring |
| 7 | ES4627MB-FLF-EC-00648 | Stacking: separate data traffic from queue 7 on stacking port to ensure the higher priority of HBT/ISC packet |
| 8 | ES4627MB-FLF-EC-00654 | PVID may be configured to a VLAN which a port does not join on hybrid or trunk mode. If the VLAN is inexistent, the VLAN is a |
| 9 | ES4627MB-FLF-EC-00656 | exception occurs when change power from main to redundant power |
| 10 | ES4627MB-FLF-EC-00659 | can't see the RSPAN source port config on unit2 when stacking |
| 11 | ES4627MB-FLF-EC-00660 | EPLD version in "show version" is incorrect |
| 12 | ES4627MB-FLF-EC-00661 | 88E1545 quad copper Phy A0 to A1. S/W modification. |
| 13 | ES4627MB-FLF-EC-00662 | USB disk support on ES4627MB |

**Runtime V1.5.2.4**

|  |  |  |
| --- | --- | --- |
|  | EPR | Headline |
| 1 | ECS4620-28T-00238 | Stacking: The DUT will dump error message and automatically reboot after 10 mins when copy startup to running. |

**Runtime V1.5.2.5**

|  |  |  |
| --- | --- | --- |
|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00636 | IGMPSNP entry count error |
| 2 | ES4627MB-FLF-EC-00652 | switch generate TC when discoonect the device from oper edge port |
| 3 | ES4627MB-FLF-EC-00663 | Exchange the place of MGR\_EnterTransitionMode() and Task\_EnterTransitionMode() |
| 4 | ES4627MB-FLF-EC-00665 | [enhance] set SYS\_ADPT\_MAX\_FILE\_SIZE to 18MB from 15MB (Sync to phase5) |

**Runtime V1.5.2.6**

|  |  |  |
| --- | --- | --- |
|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00617 | Fluctuated link status of 10G port cause CPU usage 100% |
| 2 | ES4627MB-FLF-EC-00650 | [enhance] Diag LED should be Blinking Amber while a system fan has failed. |
| 3 | ES4627MB-FLF-EC-00663 | Exchange the place of MGR\_EnterTransitionMode() and Task\_EnterTransitionMode() |
| 4 | ES4627MB-FLF-EC-00667 | Phy 88E1548M A1 to A2. S/W modification. |
| 5 | ES4627MB-FLF-EC-00670 | snmpwalk "lldpXMedLocLocationInfo" will get error |
| 6 | ES4627MB-FLF-EC-00671 | web interface all port statistics chart show 0 packet in Broadcast Packets |
| 7 | ES4627MB-FLF-EC-00672 | Traffic segmentation: not work with hot removal/insertion |
| 8 | ES4627MB-FLF-EC-00673 | Enhancement: error message of L\_MM\_Free buffer validation |
| 9 | ES4627MB-FLF-EC-00674 | display wrong info about MAC ACL hardware counters on web interface |
| 10 | ES4627MB-FLF-EC-00675 | Failed to write dynamic learned DHCPSNP binding entries to flash |
| 11 | ES4627MB-FLF-EC-00677 | Stacking: During delete the 4K VLANS of 48 ports, user can not manage the DUT from telnet/web/snmp. |

**Runtime V1.5.2.7**

|  |  |  |
| --- | --- | --- |
|  | EPR | Headline |
| 1 | ES4627MB-FLF-EC-00672 | Traffic segmentation: not work with hot removal/insertion |
| 2 | ES4627MB-FLF-EC-00686 | [Enhancement] enable/disable untag VLAN filed of TR101 format (CLI/SNMP part)* Phase5 only support CLI.
 |

**modifications:**

**Loader V0.0.0.4**

|  |  |
| --- | --- |
| 1. Initial version |  |

**Runtime V0.0.0.7**

|  |  |
| --- | --- |
| 1. Initial version |  |

**Runtime V1.2.1.2**

|  |  |
| --- | --- |
| 5 | [Enhance] Support PoE (ES4627MB-FLF-EC-00142, ES4627MB-FLF-EC-00143) |

**Runtime V1.3.1.0**

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| --- | --- |
| 5 | [Enhance] Support 52T’s board. |

**Runtime V1.3.1.4**

|  |  |
| --- | --- |
| 5 | [Enhance] support static route + RIP v1/v2. (ES4627MB-FLF-EC-00250) |

**Runtime V1.3.2.1**

|  |  |
| --- | --- |
| 5 | [enhance] Support 1G SFP and 10G SFP+ on 10G port. (ES4627MB-FLF-EC-00136) |

**Runtime V1.4.0.1**

**The enhancement difference list between phase4 and phase3:**

|  |  |
| --- | --- |
|  | Headline |
| 1 | (ES4627MB-FLF-EC-00327) ES3528MV2-FLF-EC-00377 : Enhancement: adding command “ip arp inspection validate dst-mac src-mac ip allow zeros” like in Cisco |
| 2 | (ES4627MB-FLF-EC-00326) ES3528MV2-FLF-EC-00376 : Modify default LLDP parameters in ES3528MV2 to be the same as it is now in ES3528M switch ( Please check with Richard to to see if you also need this one) |
| 3 | (ES3528MV2-FLF-EC-00375) [enhancement] IGMP authentication (L2 only) |
| 4 | (ES3528MV2-FLF-EC-00374) [enhancement] need to be able to filter the PVST packets of Cisco |
| 5 | (ES3528MV2-FLF-EC-00368) Refine sFlow5 |
| 6 | (ES4627MB-FLF-EC-00358) [enhancement] add the DHCP snooping table binding table entry to 16 |
| 7 | G.8032(ERPS)v2 |
| 8 | Support sFlow5 |
| 9 | (ECS4620-28T-00019) Support Partial Config |
| 10 | (ES3510MA-FLF-38-00412) Enhancement: add MAC Notification function |
| 11 | (ECS3510-28T-00232) [enhancement] configure subnet mask friendly |
| 12 | (ES3510MA-FLF-38-00632) supports up to 15 entries per management ip filter function |
| 13 | (ES3510MA-FLF-38-00453) [Enhancement] Add new CLI command to show the dropped Mac address |
| 14 | (ES4627MB-FLF-EC-00350) change from kbps to pps for storm control |
| 15 | (ES4627MB-FLF-EC-00352) [enhance] default hash key of port channel become src-dst-ip |
| 16 | (ES4627MB-FLF-EC-00356) IGMPSNP: implement immediate leave with by-hop-ip option |
| 17 | (ES3528MV2-FLF-EC-00427) [enhancement] support DHCPv6 & DHCPv6 snooping option 37 |
| 18 | (ES3528MV2-FLF-EC-00428) IPv6 Soruce Guard |
| 19 | (ES3528MV2-FLF-EC-00429) Adding Clock summer time command |
| 20 | (ES3528MV2-FLF-EC-00430) ip dhcp snooping limit rate as cisco |
| 21 | (ES3528MV2-FLF-EC-00431) adding command “ip arp inspection validate dst-mac src-mac ip allow zeros”  |
| 22 | (ES4627MB-FLF-EC-00326) Modify default LLDP parameters in ES3528MV2 to be the same as it is now in ES3528M switch |
| 23 | (ECS3510-28T-00214) Add trap and log for BPDU guard |
| 24 | (ES3528MV2-FLF-EC-00380) MAC addresses that are learned by port security should be marked as “Learned-PSEC” |
| 25 | (ES3528MV2-FLF-EC-00417) [enhancement] Vlan ACL |
| 26 | (ES3528MV2-FLF-EC-00434) support multiple ports Non spanning tree LBD |
| 27 | (ES3528MV2-FLF-EC-00435) support support 0-15 privilege\_level assigned from RADIUS to login user |
| 28 | (ES3528MV2-FLF-EC-00436) support port-security with saving of MAC-address after rebooting |
| 29 | (ES3528MV2-FLF-EC-00437) support MAC VLAN with MASK & priority |
| 30 | (ES3528MV2-FLF-EC-00438) support spanning topology change propagation stop |
| 31 | (ES3528MV2-FLF-EC-00439) support IGMPSNP FORWARD with PRIORITY |
| 32 | (ES3528MV2-FLF-EC-00440) support MAC learning can be configured |
| 33 | (ES3528MV2-FLF-EC-00414) add CLI command to change from kbps to pps for the function of storm control(ATC) |
| 34 | (ES3510MA-FLF-38-00710) support MLD snooping  |
| 35 | support ND snooping  |
| 36 | (ES3510MA-FLF-38-00708) support ACL counter  |
| 37 | (ES3528MV2-FLF-EC-00445) Support Web Priviledge |
| 38 | (ES3528MV2-FLF-EC-00375) [Enhancement] IGMP Radius Authentication |
| 39 | (ES4627MB-FLF-EC-00373) [enhance] Support DHCPSNP Option82 Remote ID / Circuit ID configurable new format |
| 40 | (ES4627MB-FLF-EC-00375) [enhance] Support PPPoE IA Remote ID new format |
| 41 | (ES4627MB-FLF-EC-00374) [Enhance] Can change the maximun aging time |
| 42 | (ES3528MV2-FLF-EC-00433) [enhancement] support IPSG MAC mode & IPSG record for blocking traffic |
| 43 | (ES3528MV2-FLF-EC-00413) [enhancement] non-STP loopback detection refinement |
| 44 | (ES3528MV2-FLF-EC-00407) [enhancement] DDM alram function allow users to configure thresholds |
| 45 | (ES3528MV2-FLF-EC-00406) [enhancement] Web pages for DDM alarm threshold setting |
| 46 | (ES3510MA-FLF-38-00720) ATC: CLI command control-release should belong to execution mode |

**Runtime V1.5.1.6**

**The enhancement difference list between phase5 and phase4:**

|  |  |
| --- | --- |
|  | Headline |
| 1 | Support h/w stacking |
| 2 | ES4627MB-FLF-EC-00533 [enhance] support MSTP instances to 65 (64 MSTI + 1 CIST) |

**Runtime V1.5.1.10**

|  |  |
| --- | --- |
|  | Headline |
| 1 | ES3528MV2-FLF-EC-00502 VLAN: PVID can be set on VLAN which a port does not join; a new command can set VLAN membership directly without add/remove. |

**Runtime V1.5.1.11**

|  |  |
| --- | --- |
| 1 | ES4627MB-FLF-EC-00574 [Enhance] RSTP support TCN propogation group |
| 2 | ES4627MB-FLF-EC-00575 [Enhance] UDLD support configurable recover timer and detection timer |
| 3 | ES4627MB-FLF-EC-00583 Enhancement: CPU protection to prevent management loss by heavy traffic attack |
| 4 | ECS3510-28T-00381 Enhancement Per process cpu usage monitoring |

**Runtime V1.5.1.13**

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| --- | --- |
| 1 | ES4627MB-FLF-EC-00588 [enhance] change stacking resolved VLAN to 4095 from 4094Support the max VLANs to 4094. |

**Work as Designed (wAD) eprs:**

**Known Bugs and Issues:**

|  |  |
| --- | --- |
|  | Headline |
| 1 | ES4627MB-FLF-EC-00546 [stacking] MAC learning speed is very slow when stacked. |
| 2 | ES4627MB-FLF-EC-00544 [Stacking] Send NA packets will cause show information slowly |
| 3 | ES4627MB-FLF-EC-00496 [Stacking]DEV\_SWDRVL4 SetPortEgressSchedulingMethod and SetPortWrrQueueWeight error |
| 4 | ES4627MB-FLF-EC-00545 IGMPSNP: sometimes IGMPSNP receives a igmp report with wrong checksum |
| 5 | ES4627MB-FLF-EC-00541 IGMPSNP: multicast data will flood from slave to master after multicast group on master is removed |

Any other problems than those listed above should be reported to our Technical Support Staff.

**Known RESTRICITIONS AND Limitations:**

|  |  |
| --- | --- |
| 1 | For 52T, chip limitation: Half duplex ports can not use backpressure when using Cross Chip Flow Control.(Can reference the attached file "CCFC for edgecore.pdf" in EPR: ES4627MB-FLF-EC-00256.) |
| 2 | Chip limitation. 10G port (Phy 98X22251) on 1G mode, does not support Auto-negotiation. |
| 3 | FDB hash lookup depth to 4 has MAC collision issue(MAC collisions cause continuous high CPU loading) but without Fully Mesh Test(RFC2544) issue. |
| 4 | FDB hash lookup depth to 32 has not MAC collision issue at customer environment(customer is ROMSAT)(Ectually, MAC collision still exist), but has Fully Mesh Test(RFC2544) issue which packet loss in 128 Bytes or 64 Bytes packet length. Packet loss rate is 36.7% in 128 Byte and 64.1% in 64 Byte. From the Marvell's datasheet, it is the chip limitation.(\*1)(\*1)The Bobcat datasheet has some description on this. |
| 5 | There is a issue which packet loss with 64byte size packet in full loading test. It is a chip limitation. |
| 6 | If enabled vlan translation at the port uplink to dhcp server(without enabled DHCP snooping), VLAN interface can’t set to DHCP mode. |

**Compliance support:**

|  |  |
| --- | --- |
| **Compliance Level** | **Compliant** |
|  |  |

Known Anomalies: None.

**IEEE Standards Support:**

|  |  |
| --- | --- |
| **Standard** | **Title** |
| IEEE 802.1D | Transparent Bridging Specifications (ISO/IEC 10038) |
| IEEE 802.1p | Traffic Class Expediting and Dynamic Multicast Filtering |
| IEEE 802.1Q | Virtual Bridged Local Area Networks |
| IEEE 802.1w | Rapid Spanning Tree |
| IEEE 802.2  | Local Area Networks, Logical Link Control (LLC) |
| IEEE 802.3  | CSMA/CD 9 (ISO/IEC 8802-3) |
| IEEE 802.3I  | 10Base-T (ISO/IEC 8802-3, clause 14) |
| IEEE 802.3u  | 100Base-TX (ISO/IEC 8802-3, clause 25) |
| IEEE 802.3x | Flow Control |
| IEEE 802.3z | 1000Base-SX, 1000Base-LX |
| IEEE 802.3ab | 1000Base-TX |
| IEEE 802.3ac | VLAN Tag |
| IEEE 802.3ad | Link Aggregation |
| IEEE 802.1X | Port-based Network Access Control |

**IETF Standards MIB Support:**

|  |  |  |
| --- | --- | --- |
| **RFC No.** | Title | **Groups Supported** |
| 1907 | SNMPv2-MIB (MIB II) | - system group ( 1-9)- snmp group (1-6, 8-22, 24-32) |
| 2011 | IP-MIB (MIB-II) | - ip group (1-20, 22-23)- icmp group (1-26) |
| 2012 | TCP-MIB (MIB-II) | - tcp group (1-15)(tcpConnTable only support read.) |
| 2013 | UDP-MIB (MIB-II) | - udp group (1-5) |
| IEEE802.1X MIB | IEEE8021-PAE-MIB | - dot1xPaeSystem (1-2)- dot1xPaeAuthenticator (1-3)(not support per-port timer setting) |
| 1493 | Bridge MIB | - dot1dBase group (1-4)- dot1dStp group (1-15)- dot1dTp group (1-4)- dot1dStatic group (1) |
| 2863 | Interfaces Evolution MIB (IF-MIB) | - interface group (1-2) (ifadminStatus not support set to 3(testing))- ifXTable group (1)- ifStackTable group (1)(support read-only) |
| 2819 |  RMON MIB | - statistics group (1)- history group (1-2)- alarm group (1)- event group (1-2) |
| 2618 | RADIUS MIB | - radiusAuthClientMIB (1) |
| 2665 | Etherlike MIB | - dot3StatsTable group (1-19) |
| 2737 | Entity MIB | * entityPhysical group (1-16)

(support read-only) |
| 2674 | P-bridge | - dot1dExtBase group (1-4)- dot1dPriority group (1,3) - dot1dGarp group (1) |
| 2674 | Q-bridge | - dot1qBase group (1-5)- dot1qTp group (1-2)- dot1qStatic group(1)- dot1qVlan (1-5) (9-10) |
| V-Bridge MIB | V-Bridge MIB | - dot1vProtocol group |
| 3636 | MAU MIB | * dot3IfMauBasicGroup
* dot3IfMauAutoNegGroup
 |

|  |  |  |
| --- | --- | --- |
| 1612 | DNS Reslover MIB | * dnsServConfig
* dnsServCounter
* dnsServCounterAuthAns
* dnsServCounterAuthNoNames
* dnsServCounterAuthNoDataResps
* dnsServCounterNonAuthDatas
* dnsServCounterNonAuthNoDatas
* dnsServCounterReferrals
* dnsServCounterErrors
* dnsServCounterRelNames
* dnsServCounterReqRefusals
* dnsServCounterReqUnparses
* dnsServCounterOtherErrors
* dnsServOptCounter
* dnsResMIBObjects
* dnsResConfig
* dnsResCounter
* dnsResCache
* dnsResCacheStatus
* dnsResCacheMaxTTL
* dnsResCacheGoodCaches
* dnsResCacheBadCaches
* dnsResOptCounter
 |
| 3411 | SNMP FrameWork | * snmpFrameworkMIBObjects
 |
| 3412 | SNMP MPD MIB | * snmpMPDMIBObjects
 |
| 3413 | SNMP Target MIB | * snmpTargetObjects
 |
| 3413 | SNMP Notify MIB | * SnmpNotifyObjects
* snmpNotifyTable
* usmMIBObjects
 |
| 3415 | SNMP View-Based ACM MIB | * vacmMIBObjects
* Private MIB
* switchMgt
* portMgt
* trunkMgt
* lacpMgt
* staMgt
* tftpMgt
* restartMgt
* mirrorMgt
* igmpSnoopMgt
* ipMgt
* bcastStormMgt
* vlanMgt
* priorityMgt
* trapDestMgt
* qosMgt
* securityMgt
* sysLogMgt
* lineMgt
 |

**ES4626F-SW/ES4650F-SW Private Enterprise MIB Support:**

|  |  |
| --- | --- |
| **Title** | Version |
| ECS4510-Series.mib | 201202150000Z |

**SNMP Trap Support:**

|  |  |
| --- | --- |
| **RFC No.** | **Title** |
| RFC 1215 | ColdStart (v1)warmStart (v1)linkDown (v1)linkUp (v1)authenticationFailure (v1) |
| RFC 1907 | coldStart (v2c)warmStart (v2c)authenticationFailure (v2c) |
| RFC 2863 | linkDown (v2c)linkUp (v2c) |
| RFC 1493 | newRoot (v1)topologyChange (v1) |
| RFC 1757 | risingAlarm (v1)fallingAlarm (v1) |
| RFC 2819 | risingAlarm (v2c)fallingAlarm (v2c) |

**Customer Support:**

By Phone:

By Email:

By Web:

 By Fax: