Access Switch ECS4100-52T/ECS4100-26TX/ECS4100-28T/ECS4100-12T/ECS4100-28P/ECS4100-52P/ECS4100-12PH/ECS4100-28TC

***Phase 2 Firmware Version 1.2.24.182***

**INTRODUCTION:**

ECS4100-52T is a Gigabit Ethernet L3-Lite switch featuring 48 10/100/1000 ports, and 4 Gigabit Ethernet SFP uplink ports.

ECS4100-26TX is a Gigabit Ethernet L3-Lite switch featuring 24 10/100/1000 ports, and 2 10Gigabit Ethernet SFP+ uplink ports.

ECS4100-28T is a Gigabit Ethernet L3-Lite switch featuring 24 10/100/1000 ports, and 4 Gigabit Ethernet SFP uplink ports.

ECS4100-12T is a Gigabit Ethernet L3-Lite switch featuring 8 10/100/1000 ports, 2 Gigabit Copper/SFP combo ports, and 2 Gigabit Ethernet SFP uplink ports.

ECS4100-12PH is a Gigabit Ethernet L3-Lite PoE switch featuring 8 10/100/1000 PoE ports, 2 Gigabit Copper/SFP combo ports, and 2 Gigabit Ethernet SFP uplink ports.

ECS4100-28TC is a Gigabit Ethernet L3-Lite switch featuring 24 10/100/1000 ports, and 4 Gigabit Copper/SFP combo ports.

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

**Firmware Specification:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| NTC Test Version | 1.2.24.182 | CC: EC\_VOB main (2017/05/18 11AM) | 2018/05/18 |
| NTC Test Version | 1.2.23.182 | CC: EC\_VOB main (2017/05/15 6PM) | 2018/05/15 |
| NTC Test Version | 1.2.22.182 | CC: EC\_VOB main (2017/05/02 5PM) | 2018/05/02 |
| NTC Test Version | 1.2.21.182 | CC: EC\_VOB main (2017/04/24 4PM) | 2018/04/24 |
| NTC Test Version | 1.2.20.182 | CC: EC\_VOB main (2017/04/20 11AM) | 2018/04/20 |
| NTC Test Version | 1.2.19.182 | CC: EC\_VOB main (2017/04/17 2PM) | 2018/04/17 |
| RD Test Version | 1.2.18.182 | CC: EC\_VOB main (2017/04/03 12PM) | 2018/04/03 |
| NTC Test Version | 1.2.17.181  12PH specific | CC: EC\_VOB main (2017/03/30 10AM) | 2018/03/30 |
| NTC Test Version | 1.2.17.181 | CC: EC\_VOB main (2017/03/19 8PM) | 2018/03/20 |
| NTC Test Version | 1.2.16.181 | CC: EC\_VOB main (2017/03/05 12PM) | 2018/03/05 |
| NTC Test Version | 1.2.15.181 | CC: EC\_VOB main (2017/01/15 5PM) | 2018/01/16 |
| TS Test Version | 1.2.14.181 | CC: EC\_VOB main (2017/01/04 9AM) | 2018/01/04 |
| EIT Test Version | 1.2.13.174 | CC: EC\_VOB main (2017/12/11 12PM) | 2017/12/11 |
| EIT Test Version | 1.2.12.174 | CC: EC\_VOB main (2017/11/6 9AM) | 2017/11/6 |
| Cancel | 1.2.11.174 | CC: EC\_VOB main (2017/11/2 9AM) | 2017/11/2 |
| NTC Test Version | 1.2.10.174 | CC: EC\_VOB main (2017/10/26 1PM) | 2017/10/26 |
| NTC Test Version | 1.2.9.173 | CC: EC\_VOB main (2017/09/21 1PM) | 2017/09/21 |
| NTC Test Version | 1.2.7.173 | CC: EC\_VOB main (2017/09/15 9AM) | 2017/09/15 |
| NTC Test Version | 1.2.6.173 | CC: EC\_VOB main (2017/08/22 9AM) | 2017/08/22 |
| NTC Test Version | 1.2.5.173 | CC: EC\_VOB main (2017/08/16 9AM) | 2017/08/16 |
| NTC Test Version | 1.2.4.173 | Based on V1.2.3.173 + ECS4100-52T-00103 only | 2017/07/12 |
| NTC Test Version | 1.2.3.173 | CC: EC\_VOB main (2017/07/07 9AM) | 2017/07/07 |
| NTC Test Version | 1.2.2.172 | CC: EC\_VOB main (2017/06/05 10PM) | 2017/06/06 |
| EIT Test Version | 1.2.1.172 | CC: EC\_VOB main (2017/05/23 1PM) | 2017/05/23 |
| TS Patch Version  ~~NTC Test Candidate~~ | 1.2.0.172 | CC: EC\_VOB main (2017/04/20 6PM) | 2017/04/21 |
| Customer Test Version | 1.03.02.171 | CC: EC\_VOB main (2017/03/02 4PM) | 2017/03/02 |
| TS Patch Version  (Cancelled) | 1.1.11.171 | CC: EC\_VOB main (2017/01/13 5PM) | 2017/01/16 |
| NTC Test Version  (Formal Release /MP) | 1.1.8.164 | CC: EC\_VOB main (2016/11/24 4PM) | 2016/11/24 |
| RD Test Version  (Customer Sample) | 1.1.4.164 | CC: EC\_VOB main (2016/10/21 12PM) | 2016/10/21 |
| NTC Test Version | 1.1.3.164 | CC: EC\_VOB main (2016/10/17 9PM) | 2016/10/18 |
| RD Test Version  (Customer Sample) | 1.1.2.164  1.1.1.164 | CC: EC\_VOB main (2016/10/11 11AM) | 2016/10/13  2016/10/11 |
| RD Test Version  (Customer Sample) | 1.1.0.163 | CC: EC\_VOB main (2016/9/29 9PM) | 2016/9/30 |
| NTC Test Version | 0.0.3.0 | CC: EC\_VOB main (2016/9/14 12PM) | 2016/9/19 |
| NTC Test Version | 0.0.2.5 | CC: EC\_VOB main (2016/8/11 9PM) | 2016/8/12 |
| NTC Test Version | 0.0.2.3 | CC: EC\_VOB main (2016/7/19 8PM) | 2016/7/20 |
| NTC Test Version | 0.0.1.1 | CC: EC\_VOB main (2016/5/6 5PM) | 2016/5/6 |

**LOADER:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| Testing Version | 1.0.1.9 | - | 2018/05/14 |
| Testing Version | 1.0.1.8 | - | 2018/04/03 |
| Testing Version | 1.0.1.7 | - | 2018/02/12 |
| Testing Version | 1.0.1.6 | - | 2017/12/18 |
| Testing Version | 1.0.1.4 | - | 2017/11/8 |
| Testing Version | 1.0.1.1 | - | 2017/04/21 |
| Testing Version | 1.0.0.5 | - | 2015/11/09 |
| Testing Version | 1.0.0.4 | - | 2015/10/17 |
| Deposed | 1.0.0.3 | - | 2015/9/19 |
| Testing Version | 1.0.0.2 | - | 2015/8/18 |
| Testing Version | 1.0.0.1 | - | 2015/7/20 |
| Testing Version | 1.0.0.0 | - | 2015/6/23 |
| Testing Version | 0.0.1.0 | - | 2015/3/14 |

**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 ECS4100\_ECS2110\_Phase2\_FeatureList\_20180418.xlsx

**Installation and Configuration Notes:**

In general, the ECS4100 **Switch** will be shipped to you pre-configured with this version of firmware. If you would like to upgrade an existing ECS4100 **Switch,** please follow the TFTP download instructions that are included with your firmware image upgrade kit.

**Known Bugs and Issues:**

|  |  |  |
| --- | --- | --- |
|  | ECS4100-52T-00026  ECS2110-26T-00155 | ImageMgmt: Got result "Image checksum error" when copy ftp file by FileZilla V0.9.56 beta (Not-Reproducible) |
|  | ECS4100-52T-00029  ECS2110-26T-00200 | Nessus\_Scan: Nessus Scan found some security issues. (Under investigation) |
|  | ECS4100-52T-00031  ECS2110-26T-00208 | System: CPU is closed to 100% when 6 HTTPS sessions are connected and stayed on Dashboard. (Under investigation) |
|  | ECS4100-52T-00032  ECS2110-26T-00210 | WebMgmt: There are some vulnerability issues.(SSL: 2 Critical, 1 High, ....) (Under investigation) |
|  | ECS4100-52T-00044 | [Enhance] MVR source port mode, IGMPSNP router port mode - always forward (w/o packet drop) |

**Firmware Changes and Enhancements:**

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

**loader code modifications:**

**Loader V1.0.1.9**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | Fixed some mfg issues, reported by TE & PPE |

**Loader V1.0.1.8**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | (Enhancement) Support 28TC-ITUS (BID = 15) |
|  | EPR N/A | Init to make (DIAG LED – Green Blinking) and (PWD LED - Green Solid) |

**Loader V1.0.1.7**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | (Enhancement) Support 12T-ITUS (BID = 14) |

**Loader V1.0.1.6**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | (Updated) Support 28TC, 28T-ITUS, 28P-ITUS (BID = 11, 12, 13) |

**Loader V1.0.1.4**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | Support disable fan when booting in 12PH. |
|  | EPR N/A | Support bid 11, 12, 13 |
|  | EPR N/A | The default boot argument mem change to 240M and add quiet. |

**Loader V1.0.1.1**

|  |  |  |
| --- | --- | --- |
|  | ECS4100-52T-00144,145 | Supports new boards for 12T, 28P, 52P (BID = 9, 6, 8, respectively) |

**Loader V1.0.0.5**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | 10G Port LEDs (#25,#26) are not lighting on external\_loopback\_test /Diag. |

**Loader V1.0.0.4**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | a. Get DRAM clock back to 300 MHz (V1.0.0.2 MEM:300MHz stable, V1.0.0.3 MEM:400MHz risky)  b. Add BID=4 (fan-less 52T), doing exactly same HW init as BID=0 (fan-ful 52T)  c. Do not display Realtek Chip# on U-Boot messages |

**Loader V1.0.0.3**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | [Enhance] Update bootloader’s backdoor password (default) and enable password |
|  | ECS4100-52T-00037 | [Enhance] Support new board - ECS4100-28T: 24\*GbE + 4\*SFP(GbE) |

**Loader V1.0.0.2**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | (Diag) external\_loopback\_test fails (SFP port linkdown) after internal\_loopback\_test is executed. |

**Loader V1.0.0.1**

|  |  |  |
| --- | --- | --- |
|  | ECS2110-26T-00196 | [Enhance] Support for new sku ECS2110-26T-ME, additional DC power & 6KV surge protection (New BID=2 for 26T-ME) |

**Loader V1.0.0.0 / V0.0.3.4**

|  |  |  |
| --- | --- | --- |
|  | EPR N/A | a. [Enhance] Reduce DRAM operational clock, 400 -> 300 MHz (V0.0.3.4+)  b. [Bug] Reverse Port LED lighting - green for 10/100M link, amber for 1000M link (V1.0.0.0+) |

**runtime code modifications:**

**(ECS4100) Runtime V1.2.24.182, Loader V1.0.0.5 / V1.0.1.9**

**ECS4100\_V1.2.24.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.24.182.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00383 | REMOVED - [Enhance] Support ERPS for open ring & VLAN excluded/included on ring port | RD |
|  | ECS4100-52T-00382 | REMOVED - [Enhance] Support Active/Standby static LAG - Smart Pair | RD |

**(ECS4100) Runtime V1.2.23.182, Loader V1.0.0.5 / V1.0.1.9**

**ECS4100\_V1.2.23.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.23.182.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00176 | system name was changed when configure interface vlan ip address | Customer |
|  | ECS4100-52T-00185 | RIP: There is no ripMgt in private MIB. | NTC |
|  | ECS4100-52T-00258 | [Enhance] support ATC. | Customer |
|  | ECS4100-52T-00306 | RSTP path cost will be fixed when static port-channel link up/down | TS |
|  | ECS4100-52T-00310 | LLDP web:LLDP remote port/trunk "port id" information display in web is not correct | EIT |
|  | ECS4100-52T-00355,406 | Add a TCAM allocate increase mac-based-vlan entries to 256. | TS |
|  | ECS4100-52T-00361 | CLI: DEV\_SWDRV\_GetPortFlowCtrl(): Line = 6868 , error\_id=5 | NTC |
|  | ECS4100-52T-00387  ECS4100-52T-00345 | CFM: DUT should not learn aged LTR to linktrace cache.  802.1ag-CFM-1290: LTR recorded in linktrace-cache table when Inject 100 aged LTR from DUTPA | NTC  EIT |
|  | ECS4100-52T-00388  ECS4100-52T-00395  ECS4100-52T-00341 | CFM: The transmission interval of LBM and DMM is incorrect.  CFM: DUT cannot send out correct LBM packet count.  802.1ag-CFM-0210: DUT only send out 40 LBM packets when transmit LBM with count 100 | NTC  NTC  EIT |
|  | ECS4100-52T-00394 | If using Console login failed, the syslog could not send the syslog trap. | TS |
|  | ECS4100-52T-00396 | ZTP function, switch will freeze during configuration provision.  *(occurs in v1.2.16.181~v1.2.22.182)* | TS |
|  | ECS4100-52T-00398 | Log message in "show log flash" is cleared in case unplug power cord | Customer |
|  | ECS4100-52T-00399 | 1QVLAN: DUT does not reject to delete the native VLAN by WEB, it cause PC cannot ping to DUT. | NTC |
|  | ECS4100-52T-00401 | switch send out untagged report when enabled MLD snooping | TS |
|  | ECS4100-52T-00147  ECS4100-52T-00402 | [enhance] critical section of SW watchdog  [enhance] improve behavior of DEV\_NICDRV\_GATEWAY\_SendPacketByPortList | RD  RD |
|  | ECS4100-52T-00407  ECS4100-52T-00408 | The BPDU sending time is not stable.  Sending the BUDU time will have delay when client to join or leave the multicast group. | Customer  Customer |
|  | ECS4100-52T-00409 | CFM: When MEP receive some error CCM frames, the error/RX CCM count is incorrect. | NTC |
|  | ECS2000-28PP-00863 | OSPF can specify to delete route information via WebUI | Customer |
|  | ECS2000-28PP-00864 | LA instantaneous interruption occurred when copy running-config to startup-config | Customer |
| V1.2.19.182 | | | |
|  | ECS4100-52T-00167 | port security : the switch learning mac adresses and discards the first packets. | Customer |
| V1.2.10.174 | | | |
|  | ECS4100-52T-00196 | CFM: DUT should reject to set this same MEP\_ID with remote MEP. | NTC |
|  | ECS4100-52T-00242 | CFM: DUT does not reject to set remote MEP as local MEP in same domain. | NTC |
| V1.2.7.173 | | | |
|  | ECS4100-52T-00164,214, 366  ECS4100-52T-00169,238 | RMON2: Can not set/get RMON2-MIB ‘trapDestTable’ objects (trapDestOwner, trapDestStatus, ...)  *=> Removed trapDestTable (1.3.6.1.2.1.16.19.13) because deprecated years ago.* | EIT  NTC |
| V1.2.5.173 | | | |
|  | ECS4100-52T-00182 | Web:RIP: DUT doesn't support OSPF, but can configure RIP redistribute as OSPF on Web page for DUT. | EIT |
|  | ECS4100-52T-00183 | Web:RIP: Information about sending RIP version and Receiving RIP version from Web page is not same as that from CLI. | EIT |
|  | ECS4100-52T-00161,189 | Web-1QVLAN-0020:delete all vlan didnot successfully | EIT |
| V1.2.3.173 | | | |
|  | ECS4100-52T-00134 | LLDP-MED: capabilities TLV transmission shall be enabled first and disabled last relative to other MED TLVs | RD |
| V1.2.2.172 | | | |
|  | ECS4100-52T-00158 | PPPoE-IA-0090:DUT not add new circuit id and remote id | EIT |
| V1.2.0.172 | | | |
|  | ECS4100-52T-00116,117 | [Enhancement] Support IPv6 ND snooping function, incl. SNMP/MIB | Customer |

**(ECS4100) Runtime V1.2.22.182, Loader V1.0.0.5 / V1.0.1.8**

**ECS4100\_V1.2.22.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.22.182.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00383 | [Enhance] Support ERPS for open ring & VLAN excluded/included on ring port | RD |
|  | ECS4100-52T-00382 | [Enhance] Support Active/Standby static LAG - Smart Pair | RD |
|  | ECS4100-52T-00377 | Private MIB misses the var-bind defintions of thermal temperature rising/falling traps. | RD |
|  | ECS4100-52T-00367 | PoE help Web page is copy from ECS2100-series | TS |
|  | ECS4100-52T-00275 | L2Switch: Threshold is only 100Mbps when media-type is changed from 100fx to 1000sfp. | NTC |
|  | ECS4100-52T-00199 | IPv4-RemotePing-0260: DUT not drop icmp type 13 packets | EIT |
|  | ECS4100-52T-00034 | IPv6-MLD-SNP: Well-known packets can not be flooded when input unknown multicast data first. | NTC |
| V1.2.5.173 | | | |
|  | ECS4100-52T-00165 | DHCPSnoping-0370:"Fail to find egress port, drop" were not record on Log Information. | EIT |
|  | ECS4100-52T-00170 | DHCP-SNP: When DUT detect this even "Failed to classify DHCP packet", it display incorrect log. | NTC |

**(ECS4100) Runtime V1.2.21.182, Loader V1.0.0.5 / V1.0.1.8**

**ECS4100\_V1.2.21.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.21.182.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| V1.04.30.182 | | | |
|  | ECS4100-52T-00373 | STP Alternate port does not discard VLAN tagged BPDU packets | Customer |
|  | ECS4100-52T-00190 | Stacking:can ping to client's gateway but cannot ping to client | TS |
| V1.2.19.182 | | | |
|  | ECS2000-28PP-00842 | After delete vlan on Web, ip address loss on this vlan | TS |
| V1.2.16.181 | | | |
|  | ECS4100-52T-00246 | Correct the PoE budget of 28P and 52P | RD |
|  | ECS4100-52T-00281 | [ECS4100-28P]PoE: When PD request total mainpower over 310W, PSE will cut the power off. | NTC |

**(ECS4100) Runtime V1.2.20.182, Loader V1.0.0.5 / V1.0.1.8**

**ECS4100\_V1.2.20.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.20.182.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00376 | [Enhance] ERPS core incorporates with SFP RX\_LOS interrupt support. | RD |
| V1.2.19.182 | | | |
|  | ECS4100-52T-00167 | port security : the switch learning mac adresses and discards the first packets. | Customer |
| V1.2.16.181 | | | |
|  | ECS4100-52T-00274 | PoE: There is no PoE help web page. | NTC |
| V1.2.15.181 | | | |
|  | ECS4100-52T-00302 | Enhancement:If project support MSTP, setting chip as MSTP mode in initial phase. | RD |
| V1.2.14.181 | | | |
|  | ECS4100-52T-00236  ECS4100-52T-00262 | CustomerInfo: User can not login the DUT by https session.  HTTPS: Can not establish HTTPS connection. | NTC  NTC |
| V1.2.13.174 | | | |
|  | ECS4100-52T-00267 | MAC-thrashing: When the action mode is change to Port-disable from stop-learning, this Mac-thrashing cannot work normally. | NTC |
|  | ECS4100-52T-00356 | 50 mac-address remained in mac table even if clear all mac table. | TS |
| V1.2.7.173 | | | |
|  | ECS4100-52T-00197 | [IGMP filter] the multicast traffic does not match rule, but it still will be forwarded. | Customer |
|  | ECS4100-52T-00203 | Static port-channel cause loopback detection enable global failed | TS |
| V1.2.3.173 | | | |
|  | ECS4100-52T-00141 | snmpEngineTime didn't reset the value even switch reboot | Customer |

**(ECS4100) Runtime V1.2.19.182, Loader V1.0.0.5 / V1.0.1.8**

**ECS4100\_V1.2.19.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.19.182.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00369 | (28TC-ITUS) Turn to use ECS4100-28TC as Vnet4524G (new BID=15) | RD |
|  | ECS4100-52T-00374 | [Enhance] Unify DIAG LED lighting - Green blinking /Loader(init) then Green solid /Runtime(system-boot-up). | RD |
|  | ECS4100-52T-00375 | [Enhance] Unify PWR LED lighting - Green solid from Loader(init) till Runtime(system-boot-up). | RD |
|  | ECS4100-52T-00354 | After disable then enable vlan on Web, vlan interface link down | TS |
|  | ECS4100-52T-00307 | [enhance] support simple chinese web page, web help page. | RD |
|  | ECS2000-28PP-00847 | RIP: After disable/enable vlan, the statistic value always display 750251720 on "show ip protocol rip" | TS |
|  | ECS2100-10P-ACN-00117 | assign ip to management vlan via SNMP failed | Customer |
|  | ES4528BH2-HPoE-0815-  EC-00611 | [enhance] Use HW watchdog to monitor SW watchdog  (When SW watchdog hangs, HW watchdog will restart the device intead.) | RD |

**(ECS4100) Runtime V1.2.18.182, Loader V1.0.0.5 / V1.0.1.7**

**ECS4100\_V1.2.18.182.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-28T-38IK-00001 | [enhancement] remove cli "show license file" command | Customer |
|  | ECS4100-52T-00371 | [Enhance] Unify Port LED lighting - <Link> LD port-disable: Green<0.5s>Amber; <PoE> Powering: Amber | Customer |

**(ECS4100) Runtime V1.2.17.181, Loader V1.0.1.7**

**ECS4100-12PH\_V1.2.17.181.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00368 | (12PH) PoE fails to power inrush while system booting from Loader V1.0.1.7 | RD |

**(ECS4100) Runtime V1.2.17.181, Loader V1.0.0.5 / V1.0.1.7**

**ECS4100\_V1.2.17.181.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.17.181.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00274 | PoE: There is no PoE help web page. | NTC |
|  | ECS4100-52T-00358 | LED: 10G ports of ECS4100-26TX are always off.  \* Updated PS2 & Added PS5 for “PORT LED DEFINITIONS” on last page. | NTC |
|  | ECS4100-52T-00362 | FAN: The speed of FAN No. 1-3 will not raise even the temperature is up to 99. | NTC |
|  | ECS4100-52T-00363 | Default configure each interface will be set to "ethernet cfm port-enable" | TS |
|  | ECS4100-52T-00364 | [Enhancement] Revise ‘insmod module ...’ messages of ‘running rc’ while system booting. | RD |
| Test Build V1.03.14.181 | | | |
|  | ECS4100-52T-00360 | MVR/IGMPSNP function to cause memory leak. | Customer |

**(ECS4100) Runtime V1.2.16.181, Loader V1.0.0.5 / V1.0.1.7**

**ECS4100\_V1.2.16.181.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.16.181.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00326 | (28P-ITUS) Add CLI command to switch Port LED lighting according to {Link/ACT | PoE} mode  Console(config)#led-port-mode {poe | link-activity}  \* Refers to the updated “PORT LED DEFINITIONS” on the last page. | RD |
|  | ECS4100-52T-00333 | New Fans in ECS4100-28P sound strange, 52P as well. | TS |
|  | ECS4100-52T-00334 | L2SW: Led of ports No. 49-52 (ECS4100-52P) is always lit off. | RD |
|  | ECS4100-52T-00340 | DHCP snooping trigger the switch reboot by itself. | TS |
|  | ECS4100-52T-00348 | SYSLOG-0040 0220 :Dut auto reboot after join port to vlan 2-4094 when testing syslog. | EIT |
|  | ECS4100-52T-00353 | After reboot static MAC of LAG disappear | TS |
|  | ECS4100-52T-00025  ECS2110-26T-00145 | DHCPV6 Relay: DUT suould support to configure DHCPV6 Relay setting through WEB. | NTC |
| Test Build V1.02.14.181 | | | |
|  | ECS4100-52T-00300 | (28P-ITUS) PoE status is enabled at default instead | RD |
|  | ECS4100-52T-00324  Simba-Common-00234 | SNMPWALK but get error about sysResourceMgt | TS |
|  | ECS4100-52T-00325 | (12T-ITUS) Support for reset button (new BID=14) | RD |
|  | ECS4100-52T-00329  ECS4100-52T-00294 | MVR function trigger the exception.  MVR: MVR-0210 will cause console stop response | TS  EIT |
|  | ECS4100-52T-00330 | Missing 'ftp' option for "copy running-config" and "copy startup-config" commands | TS |
|  | ECS4100-52T-00331 | switch ping response time will be higher when DDM SFP insert | Customer |
|  | ECS4100-52T-00332 | Write "reload in" command in configure file make switch stuck. | TS |
|  | ECS4100-52T-00336 | [Enhancement]SFP EEPROM/DDM/Measured info no clear after SFP removed. | RD |
|  | ECS4100-52T-00337 | [Enhancement] support dot1x eapol-pass-through | TS |
|  | Simba-Common-00228 | sflow sample packet doesn't include IPv4 information. | RD |
|  | Simba-Common-00232 | [Enhancement] Support read Total/Dynamic/Static mac count by SNMP | Customer |
|  | Simba-Common-00235 | switch forward all LLDP packets when dot1q enabled globally | Customer |

**(ECS4100) Runtime V1.2.15.181, Loader V1.0.0.5 / V1.0.1.6**

**ECS4100\_V1.2.15.181.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**ECS4100-12PH\_V1.2.15.181.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00194 | lost "ip arp inspection trust" setting on port-channel after reboot | Customer |
|  | ECS4100-52T-00195 | vlan translation does not work when enable dot1q-tunnel system.  *(#138 workaround is disabled, however, #94 workaround is enabled.)* | TS |
|  | ECS4100-52T-00263 | [ECS4100-12PH]when thermal sensor exceeds 85 degrees, write information to syslog and specific file | RD |
|  | ECS4100-52T-00271 | Europe summer time end date is incorrect *(further revised to Westerm Europe, DST: Mar, last Sun, 01:00:00 ~ Oct, last Sun, 01:00:00)* | Customer |
|  | ECS4100-52T-00280 | MAC ACL cannot deny ethertype 8902(CFM)  *(CFM status at default… global: disabled, port: enabled)* | TS |
|  | ECS4100-52T-00302 | Enhancement:If project support MSTP, setting chip as MSTP mode in initial phase. | RD |
|  | ECS4100-52T-00305 | L2SW: Led of ports No. 25-28 (ECS4100-28P) is always lit off. | NTC |
|  | ECS4100-52T-00312 | (12PH) support to force fan operational in full speed | RD |
|  | ECS4100-52T-00313 | (28TC) WebGUI soft panel is not correct. | RD |
|  | ECS4100-52T-00323 | (52P) runtime revision to match HW R0B design change for fan speed  *(control: PWM 2,3,4 -> 1,2,4; reading: tach 2,3,4 -> 1,2,4)* | RD |
| V1.2.3.173 | | | |
|  | ECS4100-52T-00175 | After reload , CPU Utilization incorrect bigger than 800M | TS |

**(ECS4100) Runtime V1.2.14.181, Loader V1.0.0.5 / V1.0.1.6**

**ECS4100\_V1.2.14.181.bix is for 52T/26TX/28T/12T/28P/52P/28TC**

**~~ECS4100-12PH\_V1.2.14.181.bix is for 12PH~~**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ~~ECS4100-52T-00176~~ | ~~system name was changed when configure interface vlan ip address~~ | ~~Customer~~ |
|  | ECS4100-52T-00262 | HTTPS: Can not establish HTTPS connection. | NTC |
|  | ~~ECS4100-52T-00263~~ | ~~[ECS4100-12PH]when thermal sensor exceeds 85 degrees, write information to syslog and specific file~~ | ~~RD~~ |
|  | ECS4100-52T-00264 | display fan speed on CLI | RD |
|  | ECS4100-52T-00282 | [enhance] when loopback detection detected, port led light yellow(green+amber). (copper port only) (28T-ITUS, 28P-ITUS only)) | RD |
|  | ECS4100-52T-00284 | [Enhancement]Porting for board id 11/12/13(combo port/stktplg board) | RD |
|  | ECS4100-52T-00285 | [Enhancement]Porting for board id 11/12/13(rx los enhancement) | RD |
|  | ECS4100-52T-00295 | Failed to set the TACACS+ server for aaa accounting dot1x. | RD |
|  | ECS4100-52T-00296 | (28TC) Support for bi-color LED | RD |
|  | ECS4100-52T-00297  ECS4100-52T-00308 | (28TC) Support for thermal temperature  [Enhancement]porting thermal, fan, watchdog for bid 11,12,13 | RD  RD |
|  | ECS4100-52T-00298 | (28P-ITUS) Light Port LED in yellow (green+amber) when PoE is enabled and power is delivering. | RD |
|  | ECS4100-52T-00299 | (28T/28P-ITUS) Support for reset button | RD |
|  | ECS4100-52T-00300 | (28P-ITUS) PoE is disabled at default | RD |
|  | ECS4100-52T-00311 | Ip address and ip default-gateway can't accept 169.254.0.0/16 | RD |
|  | ECS2000-28PP-00736 | Conflict of diffserv and routing | Customer |
|  | ECS2000-28PP-00768 | Web: Administration > Time Range, the help page is not accessible when the Help(?) icon is pressed | TS |
|  | ES4528BH2-HPoE-0815  -EC-00545 | switch could still learn the mac-address which belong none-vlan member even if enable the ingress filtering. | TS |
| V1.2.13.174 | | | |
|  | ECS4100-52T-00253 | [Enhancement]Let RTK SDK RX thread be realtime with high priority | RD |
|  | ECS4100-52T-00254 | [Enhancement]Enhancement dev\_nicdrv for IGMP performance(handle a burst with 256 igmp packet) | RD |
| V1.2.7.173 | | | |
|  | ECS4100-52T-00201 | Link state of LACP trunk member port changes between up and down repeatedly | Customer |
| V1.2.6.173 | | | |
|  | ECS4100-52T-00193 | switch can't display output policy-map | TS |
| V1.1.11.171 | | | |
|  | ECS4100-52T-00155  (Same as #00093) | LBD: Log message is incorrect when the loopback-detection occurs and than the port numbers are over than 10. | NTC |

**(ECS4100) Runtime V1.2.13.174, Loader V1.0.0.5 / V1.0.1.4**

**ECS4100\_V1.2.13.174.bix is for 52T/26TX/28T/12T/28P/52P**

**ECS4100-12PH\_V1.2.13.174.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00167 | port security : the switch learning mac adresses and discards the first packets. | Customer |
|  | ECS4100-52T-00226 | Boot up log not sync when log ram & log flash are history 7 | TS |
|  | ECS4100-52T-00232  ECS4100-52T-00260  ECS4100-52T-00265 | MAC-Thrashing : the function is failed after port detection happened with the action is stop-learning  MAC-thrashing: The "stop-learning" action mode cannot work repeatedly.  MAC-thrashing: When the action mode is change to Link-down from stop-learning, this Mac-thrashing cannot work normally. | EIT  NTC  NTC |
|  | ECS4100-52T-00249 | Syslog: no coldStart log after device cold start. | RD |
|  | ECS4100-52T-00251 | [ECS4100-12PH] fan status display wrong | TS |
|  | ECS4100-52T-00255 | Increas mac-based vlan entries to max 128 | TS |
|  | ECS4100-52T-00259 | mac-thrashing: When the mac-thrashing is "On", this Port should not learn MAC address. | NTC |
|  | ECS4100-52T-00261 | CustomerInfo: Display of the System OID on CLI and WebUI is wrong. (12PH only) | NTC |
|  | ECS4100-52T-00269 | [RX Los Interrupt handling]Add Rx los interrupt handling to notify core layer for specific board(12ph) | RD |
|  | ECS4100-52T-00270 | L2SW: (ECS4100-12PH) Port 9&10 it lit up amber when connected to test center via 10/100Mbps. | NTC |
|  | ECS4100-52T-00271 | Europe summer time end date is incorrect *(updated to Turkey, DST: Mar, last Sun, 03:00:00 ~ Oct, last Sun, 04:00:00)* | Customer |
|  | ECS4100-52T-00273 | PoE: The CLI help for power allocation is incorrect. | NTC |
|  | ECS4100-52T-00278 | LLDP: There is no command to enable LLDP PoE TLV. | NTC |
|  | ECS4100-52T-00279 | The switch needs to send SNMP TRAP if the contacts of reset button are closed. | RD |
|  | ECS4100-52T-00280 | MAC ACL cannot deny ethertype 8902(CFM) | TS |
|  | Simba-Common-00219 | RARP ethertype ix 0x8035, but the code is defined as 0x0835 in lan.c | RD |
|  | ECS2000-28PP-00757 | stop routing after flush mac-address table two times | TS |

**(ECS4100) Runtime V1.2.12.174, Loader 1.0.0.5 / 1.0.1.1**

**ECS4100\_V1.2.12.174.bix is for 52T/26TX/28T/12T/28P/52P**

**ECS4100-12PH\_V1.2.12.174.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00231 | [enhance] support 12PH LED, FAN, Thermal (fix 9~12 port led) | RD |
| 2 | ECS4100-52T-00241 | [RTK patch] rtk\_l2\_addrEntry\_get() support to get CAM entry | RD |
| 3 | ECS4100-52T-00243 | CPU utilization rising to 16% in idel issue for new board ECS4100-12PH(board id 10) | RD |

**(ECS4100) Runtime V1.2.11.174, Loader 1.0.0.5 / 1.0.1.1**

**ECS4100\_V1.2.11.174.bix is for 52T/26TX/28T/12T/28P/52P**

**ECS4100-12PH\_V1.2.11.174.bix is for 12PH**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00192 | [enhance] support ECS4100-12PH with BCM PoE chip | RD |
| ~~2~~ | ~~ECS4100-52T-00226~~ | ~~Boot up log not sync when log ram & log flash are history 7~~ | ~~TS~~ |
| 3 | ECS4100-52T-00227 | [RX Los Interrupt handling]Add Rx los interrupt handling to notify core layer for specific board ((1)Support board id 6(ECS4100-28P)) | RD |
| 4 | ECS4100-52T-00230 | create an ECS4100-12PH build environment and code. | RD |
| 5 | ECS4100-52T-00231 | [enhance] support 12PH LED, FAN, Thermal | RD |

**(ECS4100) Runtime V1.2.10.174, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00135 | Failed to add static multicast group during config provision | TS |
| 2 | ECS4100-52T-00136 | Src ip of igmp report is always 0.0.0.0. | TS |
| 3 | ECS4100-52T-00184 | [enhance] support VLAN-TRUNKING | RD |
| 4 | ECS4100-52T-00204. | loopback detecion detects traffic loop even port is DOWN | RD |
| 5 | ECS4100-52T-00206. | 802.1ag-CFM-0570:Dut did not send out MEP-Down Trap or record it in log ram after CCM interval time. | RD |
| 6 | ECS4100-52T-00208 | MSTP : DUT can NOT show the port information after saving reload | EIT |
| 7 | ECS4100-52T-00210. | Web:RIP: On Routing Protocol>RIP>Distance>Action:Show page, display RIP distance with error subnet mask. | RD |
| 8 | ECS4100-52T-00211. | Web:RIP: When only create a RIP network per VLAN, can't open Routing Protocol>RIP>Network>Action:Show page. | RD |
| 9 | ECS4100-52T-00215. | IGMPSNP: fail to configure per VLAN settings soon after many VLANs are created | RD |
| 10 | ECS4100-52T-00216 | 802.1ag-CFM-0150:Dut didnot handle well with Remote MEP cross-check | EIT |
| 11 | ECS4100-52T-00217. | PPPoEIA can't work with QinQ tunnel | RD |
| 12 | ECS4100-52T-00220. | ASIC still learns mac address even disable mac learning on the port | RD |
| 13 | ECS4100-52T-00221 | [enhance] support mac thrashing | RD |
| 14 | ECS4100-52T-00222 | When switch enable DHCP Snooping & IP source-guard, DHCP renew cause packet loss(ECS4100-28T) | TS |
| 15 | ECS4100-52T-00228 | OAM should init the semaphore when startup | RD |
| 16 | ECS4100-52T-00229 | Disable LBD trigger a LBD recover log | TS |
| 17 | Simba-Common-00210. | Web:RIP: On Routing Protocol>RIP>Distance>Action:Show page, display RIP distance with error subnet mask. | EIT |
| 18 | Simba-Common-00211. | Web:RIP: When only create a RIP network per VLAN, can't open Routing Protocol>RIP>Network>Action:Show page. | EIT |
| 19 | Simba-Common-00212. | IGMPSNP: fail to configure per VLAN settings soon after many VLANs are created | RD |
| 20 | Simba-Common-00213. | PPPoEIA can't work with QinQ tunnel | Customer |
| 21 | Simba-Common-00216. | OAM should init the semaphore when startup | RD |

**(ECS4100) Runtime V1.2.9.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00212 | [Enhance][52P] support bi-color for LED on new 52P | RD |

**(ECS4100) Runtime V1.2.8.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00174 | [Enhance] Dying gasp (Syslog and SNMP trap) | RD |
| 2 | ECS4100-52T-00205. | SNMP: The value of OID "lldpRemManAddrIfId" remove ".0" at the end. | RD |
| 3 | ECS4100-52T-00207 | [Enhance][28P] support bi-color for LED on new 28P | RD |
| 4 | ECS4100-52T-00209 | software watch dog reboot while add vlan in vlan database | RD |
| 5 | ECS4100-52T-00212 | [Enhance][52P] support bi-color for LED on new 52P | RD |
| 6 | ECS4100-52T-00213 | When inster one POE, the PWR led display amber | RD |
| 7 | Simba-Common-00155. | SNMP: The value of OID "lldpRemManAddrIfId" remove ".0" at the end. | RD |

**(ECS4100) Runtime V1.2.7.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00186 | [Enhance] switching B/W L2 DHCP relay and L3 DHCP relay | RD |
| 2 | Simba-Common-00138. | [Enhance] Modified openSSL/libXML build script to avoid privilege issue | RD |
| 3 | Simba-Common-00145. | NTP: The ntp client of DUT will getting the ntp information after 1024 secs when the DUT reboot. | RD |
| 4 | Simba-Common-00150. | [IGMP filter] the multicast traffic does not match rule, but it still will be forwarded. | RD |
| 5 | Simba-Common-00151. | [S900-S1\_9/E-NEST-056]After execution of copy running-config startup-config, if Startup configuration file name is NULL, no e | RD |
| 6 | Simba-Common-00152. | Link state of LACP trunk member port changes between up and down repeatedly | RD |
| 7 | Simba-Common-00153. | Static port-channel cause loopback detection enable global failed | RD |
| 8 | Simba-Common-00154. | loopback detecion detects traffic loop even port is DOWN | RD |
| 9 | Simba-Common-00156. | IPv6FTP: When DUT upgrade code with interrupt network connection and reconnect. It would cause upload fail. | NTC |

**(ECS4100) Runtime V1.2.6.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00056 | DHCP Server: We cannot configure this maximum pool name to 32 characters from WEB. | NTC |
| 2 | ECS4100-52T-00188 | Enhancement: support LACP passive mode | RD |
| 3 | Simba-Common-00146. | Web-1QVLAN-0020:delete all vlan didnot successfully | RD |

**(ECS4100) Runtime V1.2.5.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
| 1 | ECS4100-52T-00052 | DHCP Server: We cannot enmable/disable DHCP service from WEB. | NTC |
| 2 | ECS4100-52T-00055 | DHCP Server: The lease time of host entry is incorrect. | NTC |
| 3 | ECS4100-52T-00057 | DHCP Server: We cannot configure specifice DHCP option successfully. | NTC |
| 4 | ECS4100-52T-00137 | DHCP-Snooping-0370:There is no information of DHCP drop in flash log when untrust port drop dhcp packets | EIT |
| 5 | ECS4100-52T-00138 | use vlan translation egress rule to modify TPID when QinQ is enabled | RD |
| 6 | ECS4100-52T-00172 | Loop Detection (refer to ES4328QV-FLF-38IK-00004) | RD |
| 7 | ECS4100-52T-00181 | ECS4100-28T/28P add DHCP Server support with 256 hosts | Customer |
| 8 | ECS4100-52T-00179 | watchdog reboot - XFER\_TD & CLI\_GROUP | Customer |
| 9 | ECS4100-52T-00187 | qinq priority mapping problem - inner pri to outer pri | TS |
| 10 | Simba-Common-00141. | Failed to get switchport LACP info. | RD |
| 11 | Simba-Common-00143. | Web:RIP: DUT doesn't support OSPF, but can configure RIP redistribute as OSPF on Web page for DUT. |  |
| 12 | Simba-Common-00144. | Web:RIP: Information about sending RIP version and Receiving RIP version from Web page is not same as that from CLI. |  |

**(ECS4100) Runtime V1.2.4.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00103 | RA Snooping Support | Custom |

**(ECS4100) Runtime V1.2.3.173, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00156  ES3510-28T-00758 | SNMP\_TD crash | Custom |
|  | ECS4100-52T-00162 | igmpsnooping-1280:Dut didnot handle router port registered well | EIT |
|  | ECS4100-52T-00168  ECS2000-28PP-00701 | Inject the LLDP packet, then dashboard and show remote device information will empty. | TS |
|  | ECS4100-52T-00171 | IPv6-AddrConfig: DUT doesn't reply NA when it received NS. | NTC |
|  | ECS4100-52T-00172 | Loop Detection (refer to ES4328QV-FLF-38IK-00004) | RD |
|  | ECS4100-52T-00173 | LLDP: ECS4100-12T doesn't have TIA TR-41 committee-inventory-model name TLV. | NTC |
|  | ECS4100-52T-00177 | free memory decreases every min/hour/day because of DDM SFP  \* happens to ECS4100-28T only | Custom |
|  | ECS4100-52T-00178 | [enhance] Change kernel memory allocator from SLOB to SLAB to have better performance | RD |
|  | ECS2100-52T-00075 | [enhance] support RIP | RD |
|  | ES4627MB-FLF-EC-00791 | Revise design of VLAN ingress fitering | Custom |
|  | ECS2000-28PP-00699 | packets send to switch cause routing loop - L3 rule issue | Custom |
|  | ECS2000-28PP-00704 | the switch doesn't remove host route(arp entry) when mac aging out. | TS |

**(ECS4100) Runtime V1.2.2.172, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00152 | lost settings of qos map dscp-queue after switch rebooting. | Custom |
|  | ECS4100-52T-00162 | igmpsnooping-1280:Dut didnot handle router port registered well | EIT |

**(ECS4100) Runtime V1.2.1.172, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-NA | WebGUI soft panel is not available for 28P, 52P, and 12T. | RD |
|  | ECS4100-52T-00151 | ECS4100-26TX uplink port with 10G full duplex drops packet with VLAN tag which packets size 1522 bytes | Custom |
|  | ECS4100-52T-00154  ECS2000-28PP-00864 | switch drop OSPF/RIP/VRRP packets when IGMPSNP or MVR is enabled | Custom |
|  | ECS4100-52T-00157 | [Enhance] Support TCAM allocatioon profile | RD |

**(ECS4100) Runtime V1.2.0.172, Loader 1.0.0.5 / 1.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00076 | QinQ: When we enable/disable to discard all matched default-service traffic, DUT does not drop/forward tagged packets. | NTC |
|  | ECS4100-52T-00094  ECS4100-52T-00138 | vlan translation does not work even disable dot1q-tunnel system  use vlan translation egress rule to modify TPID when QinQ is enabled | Custom  RD |
|  | ECS4100-52T-00102 | support DHCPv6 Snooping, Option 18 (INTERFACE\_ID) and 37 (REMOTE\_ID); | Custom |
|  | ECS4100-52T-00103 | Support IPv6 RA Guard | Custom |
|  | ECS4100-52T-00108 | DoS: Use LOIC to attack port 22, CLI has no response and DUT reboot by watchdog. | NTC |
|  | ECS4100-52T-00116 | [Enhancement] Support IPv6 ND snooping function | Custom |
|  | ECS4100-52T-00117 | [Enhancement] Support IPv6 ND snooping setting via SNMP | Custom |
|  | ECS4100-52T-00140 | MSTP: Change the instance priority, the traffic will stop and recover the issue after 6 mins. | NTC |
|  | ECS4100-52T-00142 | [Telnet] After tool "LOIC" TCP:23port attack, modified thread pool for telnetd & tnshd | RD |
|  | ECS4100-52T-00144 | [Enhance] Support 4 new CO boards - ES4328R[-PoE]-CO / ES4552R[-PoE]-CO | RD |
|  | ECS4100-52T-00145 | [Enhance] Support new 12T/PH boards - ECS4100-12T/PH: 8\*GbE + 4\*SFP(GbE) /HPoE | RD |
|  | ECS4100-52T-00146  ECS2000-28PP-00691 | ECS4100 high cpu util | Custom |
|  | ECS4100-52T-00148  ECS2000-28PP-00690 | massive ip & arp packets may trigger hw watchdog reboot | Custom |
|  | ECS4100-52T-00149  ECS2000-28PP-00694 | switch drops packest every 300 seconds because of port ecurity and mac aging time | Custom |

**(ECS4100) Runtime V1.03.02.171, Loader 1.0.0.5**

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| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00084 | [Enhancement] MVR shall recognize IGMP report/leave with PPPoE header. (process unicast SA) | Custom |
|  | ECS4100-52T-00086 | [Enhancement] IGMP-SNP: multicast static-group on uplink per-port per-vlan | Custom |
|  | ECS4100-52T-00094 | vlan translation does not work even disable dot1q-tunnel system | Custom |
|  | ECS4100-52T-00095 | multicast strom control stops working when enabling mvr or igmp snooping | Custom |
|  | ECS4100-52T-00101 | SSH over IPv6 address - does not support record of ipv6 login info in log ram/flash | Custom |
|  | ECS4100-52T-00105 | unified file size unit in byte and add thousands separator | Custom |
|  | ECS4100-52T-00110 | All Link-down receiver port still has G query packet counter increased | RD |
|  | ECS4100-52T-00111  (#45 extension) | The MVR VLAN does not removed automatically when I disable“mvr do 1 type receiver” on port 1. | TS |
|  | ECS4100-52T-00115 | DHCP dynamic-provision does not work on the other VLANs except the default VLAN 1. | Custom |
|  | ECS4100-52T-00118 | cable diag does not support the port at 10M Full/Half duplex. | Custom |
|  | ECS4100-52T-00119 | support UDLD | Custom |
|  | ECS4100-52T-00123 | (DCR) Use Egress DiffServ slice to patch the actions on Ingress DiffServ slice (3 slices for IPv6/IPv4/MAC) | RD |
|  | ECS4100-52T-00125 | support remarking ingress diffserv "ip dscp" | Custom |
|  | ECS4100-52T-00127 | Huawei switch S2300 can't recognize ECS4100's LLDP packet with "dot1-tlv protocol identity" | TS |
|  | ECS4100-52T-00128 | enlarge IPSG (ACL mode) per port maximum entry, 5 -> 32 | Custom |
|  | ECS4100-52T-00131 | remove the reset button function code in the software | Custom |

**(ECS4100) Runtime V1.1.11.171, Loader 1.0.0.5**

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|  | EPR | Headline | Role |
|  | ECS4100-52T-00021 | TraceRoute: WebUI doesn't support traceroute to hostname. | NTC |
|  | ECS4100-52T-00045 | The MVR VLAN does not removed automatically when I disable “mvr do 1 type receiver” on port 1. | TS |
|  | ECS4100-52T-00073 | VLAN-translation: Falied to save the VLAN-translation trunk setting to configuration file. | NTC |
|  | ECS4100-52T-00080 | RADIUS-Acct: The console and Web of accounting information that is unmatched | NTC |
|  | ECS4100-52T-00082 | PPPoE-IA: PPPoE circuit id format type string is not working. | NTC |
|  | ECS4100-52T-00083 | storm control maximum and minimum threshold is incorrect | Custom |
|  | ECS4100-52T-00084 | [Enhancement] MVR shall recognize IGMP report/leave with PPPoE header. (move cmd) | Custom |
|  | ECS4100-52T-00085 | Spanning-tree: We cannot enable the STP mode from WEB. | NTC |
|  | ECS4100-52T-00086 | [Enhancement] IGMP-SNP: multicast static-group on uplink per-port per-vlan | Custom |
|  | ECS4100-52T-00087 | [Enhancement] IGMP-SNP: immediate-leave per-port | Custom |
|  | ECS4100-52T-00088 | tacacs+-0080:dut crash when admin/admin login dut after tacacs-server key removed | EIT |
|  | ECS4100-52T-00090 | CLI: Please rename "Excutes" to "Executes" about cable-diagnostics. | NTC |
|  | ECS4100-52T-00091 | Support banner information | Custom |
|  | ECS4100-52T-00092 | [Enhancement] initial IP address 192.168.2.10/24 on DHCP mode | Custom |
|  | ECS4100-52T-00093 | loopback detection log messages are incorrect | Custom |
|  | ECS4100-52T-00107 | ECS4100-52T sends LLDP packet with no “port description, system name and system description” field after receiving Huawei’s | Custom |
|  | ECS4100-52T-00109 | Duplicate DHCP discover packet and maximum value of retransmission interval is not right | RD |
|  | ECS2000-28PP-00649 | Voice VLAN: DUT should not display the trunk member port in voice-vlan status list. | NTC |

**(ECS4100) Runtime V1.1.8.164, Loader 1.0.0.5**

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| --- | --- | --- | --- |
|  | EPR | Headline | Role |
|  | ECS4100-52T-00009 | [Enhancement] PPPoE-IA To support Cirquit-Id (hostname/port/vlan), Remote-Id (mac-address CPE). | RD |
|  | ECS4100-52T-00015 | [Enhancement] MVR shall recognize IGMP report/leave with PPPoE header. | RD |
|  | ECS4100-52T-00040 | [Enhance] Support IP Cluster | RD |
|  | ECS4100-52T-00047 | Selective QinQ: Selective QinQ doesn't work, always match the default QinQ rule | NTC |
|  | ECS4100-52T-00048 | MVR: General query can not be forwarded to receiver ports when MVR VLAN was down and up. | NTC |
|  | ECS4100-52T-00053 | ""empty log message in log ram/flash when inject DHCP ACK packet to DHCPSNP trust port | TS |
|  | ECS4100-52T-00059 | [Enhance] 28T reads I2C eeprom-raw-data in order to detect SFP insertion. | RD |
|  | ECS4100-52T-00061 | [ECR] Remove DHCP Server | RD |
|  | ECS4100-52T-00062 | [Enhance] Hide the option for copying sw license file | RD |
|  | ECS4100-52T-00067 | (ECR) MIB: replace 'ecs4100-26tx<xxx>' with 'ecs4100-52t<xxx>' | RD |
|  | ECS4100-52T-00069 | switch with stack can't display config complete via SSH | TS |
|  | ECS4100-52T-00071 | switch still send schedule report to all MVR source port | TS |
|  | ECS2110-52T-00044 | IGMP-SNP: After remove vlan, an exception occurs. | NTC |

**(ECS4100) Runtime V1.1.4.164, Loader 1.0.0.4**

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|  | EPR | Headline | Role |
|  | ECS2100-52T-00033 | MLDSNP: Forwarding rate of some UDP well known packets is very poor. | NTC |
|  | ECS4100-52T-00005 | [Enhancement] Separate ingress and egress direction of VLAN-translation. Need new commands. | Custom |
|  | ECS4100-52T-00050 | [Enhance] Afford CLI commands to select L2 hash method {Algo\_0 | Algo\_1} in RTL839x. | RD |
|  |  | Fan-less 52T is locally patched at BID=0 |  |

**(ECS4100) Runtime V1.1.3.164, Loader 1.0.0.4**

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|  | EPR | Headline | Role |
|  | ECS4100-52T-00010 | [Enhancement] it is about DHCPSNP to support Cirquit-Id (hostname/port/vlan), Remote-Id (mac-address CPE). | Custom |
|  | ECS4100-52T-00041 | [Enhance] Support new 52T for having no fan and thermal. (BID=4) | RD |
|  | ECS4100-52T-00043 | 52T System(Diag) LED stays in amber steady when system is operational normally. | RD |

**(ECS4100) Runtime V1.1.2.164**

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|  | EPR | Headline | Role |
|  | N/A | Fan-less 52T System(Diag) LED stays in amber steady at runtime. (local patched) | - |

**(ECS4100) Runtime V1.1.1.164**

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|  | EPR | Headline | Role |
|  | N/A | Support fan-less 52T, retained BID=0. (local patched) | - |
|  | ECS2110-26T-00221  ECS2100-52T-00031 | CoS: Change cos-queue mapping, the data receive ratio is not changed. | NTC |
|  | ECS2110-26T-00162 | [QinQ]TPID is not modified when traffic comes from normal port to QinQ uplink port | RD |
|  | ECS4100-52T-00006 | [Enhancement] Disable untagged traffic for dot1q mode access port. | Custom |
|  | ECS4100-52T-00013  ECS4100-52T-00019 | Running-config shows an incredible static route 224.0.0.0 at default system-boot-up.  remove useless command "ip route 224.0.0.0 240.0.0.0 0.0.0.0" on running-config | RD  TS |
|  | ECS4100-52T-00016 | spanning-tree blocking port does not discard ipv4 mdns packet | TS |
|  | ECS4100-52T-00037 | 28T Web panel is not available (page not found). | RD |

**(ECS4100) Runtime V1.1.0.163, Loader 1.0.0.3**

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|  | EPR | Headline | Role |
|  | ECS2110-26T-00204 | DQoS: The default priority is not modifying when the port had once the authenticated. | NTC |
|  | ECS2110-26T-00215 | 802.1XDQoS: The DUT will permit the supplicant when the attribute is wrong configure. | NTC |
|  | ECS4100-52T-00003 | [Enhance] Porting the switch protection with software license from AOS | RD |
|  | ECS4100-52T-00004 | [Enhance] IGMP Authentication | RD |
|  | ECS4100-52T-00007 | [Enhancement] Checking of Restricted TCN function | Custom |
|  | ECS4100-52T-00014 | Running-config shows "ip igmp snooping vlan 1" at default system-boot-up. | RD |
|  | ECS4100-52T-00037 | [Enhance] Support new board - ECS4100-28T: 24\*GbE + 4\*SFP(GbE) | RD |
|  | ECS4100-52T-00038 | DHCP Snooping stops forwarding DHCP discover packets if mac-table is full. | TS |

**(ECS2110) Runtime V0.0.3.0, Loader 1.0.0.3**

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|  | EPR | Headline | Role |
|  | ECS2110-26T-00156 | Web: Got "Data is invalid" when another copy ftp is run. | NTC |
|  | ECS2110-26T-00175 | Transceiver: Got debugging message "SFP 2 unknown sfp type:0x2" and got "checksum error" information | NTC |
|  | ECS2110-26T-00206 | Syslog: restartControl by cold start (SNMP) will send warm start trap. | NTC |
|  | ECS2110-26T-00220 | SNMP: We can't get the value of switchMgt on ECS2110-26T-ME. | NTC |
|  | ECS2110-26T-00223 | enabled proxy-switching still reply the IGMP querier when MVR source port receive the join report | TS |
|  | ECS4100-52T-00012  ECS4100-52T-00018 | Running-config shows LLDP PoE-specific settings on each port at factory defaults.  useless commands "no lldp dot3-tlv poe" "no lldp dot3-tlv poe" in running-config | RD  TS |
|  | ECS4100-52T-00017 | loopback detection does not detect traffic loop because of ipv4 mdns packet | TS |

**(ECS2110) Runtime V0.0.2.5, Loader 1.0.0.1**

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|  | EPR | Headline | Role |
|  | ECS2110-26T-00094 | SNMP/MIB and Web miss the "Linux Kernel Version" item. | RD |
|  | ECS2110-26T-00125 | MVR:Groups belong to MVR profile can not be registered on normal port. | NTC |
|  | ECS2110-26T-00131 | MVR: Inactive receiver port would forward data to source port and receiver port. | NTC |
|  | ECS2110-26T-00156 | Web: Got "Data is invalid" when another copy ftp is run. | NTC |
|  | ECS2110-26T-00196 | [Enhance] Support for new sku ECS2110-26T-ME, additional DC power | Custom |
|  | ECS2110-26T-00197 | switch can't dynamic learn mrouter port when enable MVR | TS |
|  | ECS2110-26T-00198 | [Enhance] Add Web help pages (prepared by TW using v0.0.2.0) to CC | RD |
|  | ECS2110-26T-00199 | MVR: Group can not be deleted when registered port received leave report in transparent mode. | NTC |
|  | ECS2110-26T-00201 | TACACS+: The DUT will reboot automatically when user logins the DUT by TACACS account, but the TACACS key is mismatch. | NTC |
|  | ECS2110-26T-00202 | StaticRoute: Source MAC in routing packets is not DUT's MAC address. | NTC |
|  | ECS2110-26T-00203 | EFM-OAM: When we start/stop remote loopback, it can't start again. | NTC |
|  | ECS2110-26T-00205 | There is no WEB help page. | NTC |
|  | ECS2110-26T-00207 | System: DUT cannot forward the IGMP general Querier to host on v0.0.2.3. | NTC |
|  | ECS2110-26T-00209 | WebAuth: When quiet period is set to 30 seconds, it shows "You are allowed to re-login after 0 minutes." | NTC |
|  | ECS2110-26T-00213 | [enhance] support mDNS | RD |

**(ECS2110) Runtime V0.0.2.3, Loader 1.0.0.0**

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|  | EPR | Headline | Role |
|  | ECS2110-26T-00183 | [enhance] remove phy internal loopback test. | RD |
|  | ECS2110-26T-00186 | [enhance] display total flash size in CLI 'dir' command for EC products. | RD |
|  | ECS2110-26T-00187 | [enhance] MVR redesign in ES3528MV2 Ph5 branch -> EC main | RD |
|  | ECS2110-26T-00193 | [Enhance] Disable those unused 25M output clocks in RTL839x (52T only) | RD |
|  | ECS2110-26T-00195 | [Enhance] Enable BCAM from L2 lookup table | RD |

**(ECS2110) Runtime V0.0.1.1, Loader 0.0.1.0**

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|  | EPR | Headline | Role |
|  |  |  |  |

**Known RESTRICITIONS AND Limitations:**

|  |  |
| --- | --- |
| 1 | L2 table (16K entries) share for L2 unicast, L2 multicast, IPv4 multicast, IPv6 multicast, Routing. |
| 2 | For all Basic Switching Unit-Test items of the half duplex, the counter of fragments would increase the same number/speed as the counter, collisions on IXIA.  It is confirmed by Realtek Josh. It is chip normal behaviour which follows the standard.  RTK use the “Collision based backpressure” of flow control (backpressure) on half mode. It will send the jam pattern packet to do the flow control. |
| 3 | Due to chip limitation, do not support Port-based QoS. |
| 4 | Chip limitation: Not supported for global ACK, which was known as “VLAN ACL” before. |
| 5 | Chip limitation: MAC ACL does not allow for configuring any IP/IPv6 pattern. |
| 6 | Chip limitation: Supports for mapping CoS/DSCP to PHB (or Internal Priority) and then to Queue. But CoS/DSCP-to-PHB mapping also changes a packet's trap-to-cpu queue.  Therefore, SW design decides to remove CoS/DSCP-to-PHB mapping, causing straight CoS/DSCP-to-Queue mapping on user configuration. [ECS2000-28PP-00344]  Note: The implementation gets to be partially compliant with RFC 2597/2598.  Implemented the CLI command: “Console(config-if)#[no] qos map {cos-queue | dscp-queue}”, for ethernet inferface only. |
| 7 | Chip limitation: Ingress/Egress DiffServ poorly supports for SRTCM/TRTCM remarking.  1) Meter burst size is global setting, instead of per-police. => So hard to meet various SRTCM/TRTCM cases.  2) Ingress rule does not support for color action and CoS/DSCP remarking. => Has to additionally use egress rule.  3) Egress ACL action is global for DLF/broadcast/multicast traffic, however, per-port for unicast. => DLF/broadcast/multicast will not be matched with port list.  Therefore, SW design decides to only implements flow rate-limiting. [ECS2110-26T-00034]  Implemented the CLI command: “Console(config-pmap-c)#[no] police rate *<16-10000000 Kbps>*”.  ~~Besides, DiffServ ingress policy-map can remark CoS only. If a police is configured to remark DSCP, it shall be rejected while binding to input port. [ECS2110-26T-00034] [Workaround in ECS4100-52T-00123]~~ |
| 8 | Chip limitation: Following counters are not supported. These counters are not visible. [ECS2000-28PP-00051,00466]  IF-MIB:  Discard Input (ifInDiscards)  Unknown Protocols Input (ifInUnknownProtos)  Error Output (ifOutErrors) - RTL838x does not support this counter, however, RTL839x does.  QLen Output (ifOutQLen)  EtherLike-MIB:  Alignment Errors (dot3StatsAlignmentErrors)  SQE Test Errors (dot3StatsSQETestErrors)  Internal Mac Receive Errors (dot3StatsInternalMacReceiveErrors)  Carrier Sense Errors (dot3StatsCarrierSenseErrors) |
| 9 | Chip limitation: Cable diagnostics can detect cable length up to 100 meters with an inaccuracy around 15 meters. |
| 10 | Chip limitation: Jumbo frame is supported by system, instead of per port. |
| 11 | Chip limitation: Voice VLAN can not support for remarking DSCP priority (because rule action can not remark CoS and DSCP at the same time). [ECS2000-28PP-00041] |
| 12 | Chip and HW board limitations: When an SFP transceiver is inserted, CPU will take some more time to have it initialized. This will lead to slow system response. |
| 13 | Chip limitation: Not supported for false carrier events ‘rpMauFalseCarriers’ in MAU-MIB. The counter value will always stay in 0. |
| 14 | Chip limitation: The collision mac-address is not affordable. |
| 15 | Chip limitation: Not supported for changing the priority of multicast traffic in IGMPSNP/MVR/MVR6. [ECS2000-28PP-00341, ECS2110-26T-00064,76,129] |
| 16 | Chip limitation: One single reason for trap-to-cpu of protocol packets, like BPDU/LACP/LLDP/dot1X (because all of these packets go through queue #5). |
| 17 | Chip limitation: IPv4 standard ACL and IPv4 extended ACL are implemented using a same rule slice. Their entries share the total 128 rules in the slice. |
| 18 | Chip limitation: IPv6 standard ACL and IPv6 extended ACL are implemented using a same rule slice. Their entries share the total 64 rules in the slice. |
| 19 | Chip limitation: Not supported for GVRP bypass VLAN check in RTL839x, but supported in RTL838x.  (Supported for BPDU/LACP/LLDP bypass VLAN check in 8x [ECS2000-28PP-000147]. 9x as well.).  Therefore, when a receive port does not join PVID VLAN and its VLAN ingress filter is enabled, GVRP does not work (GVRP packet is dropped by chip). |
| 20 | Chip limitation: MAC-based VLAN can not work with IP Source Guard. [ECS2000-28PP-00321] |
| 21 | Chip limitation: Internal loopback test does not work on 10G SFP+ ports (port# 25,26) in ECS2110-26T device because of no PHY chip there. |
| 22 | Chip limitation: When a port is linkup at 10 Mbps speed, cable diagnostics is not supported. [ECS2110-26T-00055]  Btw, cable-diag can only measure cable length on the two conditions: 1. (Link\_Up; Speed\_1000M) and 2. (Link\_Down; link partner inexistent, port admin up).  Case\_1) Link\_Up  1.1) Speed\_1000M => can measure cable length  1.2) Speed\_100M => cannot measure cable length  1.3) Speed\_10M => cannot measure cable length (cable-diag is not supported actually)  Case\_2) Link\_Down  2.1) link partner existent, port admin up => cannot measure cable length  2.2) link partner existent, port admin down => cannot measure cable length  2.3) link partner inexistent, port admin up => can measure cable length  2.4) link partner inexistent, port admin down => cannot measure cable length |
| 23 | Chip limitation: L2 hashing algorithm (algo\_1) will get to observable collisions when both Source MAC address and VLAN ID are incremental successively.  However, when only SA is random (no matter if VID is fixed, incremental, or random), L2 hashing will have very good performance. |
| 24 | Chip limitation: L2 table can contain up to (16K + 64) entries because BCAM (extension table with additional 64 entries) is enabled. [ECS2110-26T-00211, ECS2100-52T-00032] |
| 25 | ECS4100-28T Board limitation:  1) Not available for SFP\_Present state (GPIO signal).  ~~1-1) SW is not aware of any SFP insertion, and does not read out the EEPROM data. So, not able to afford any SFP information (CLI “show interfaces transceiver”).~~  ~~1-2) When 100M SFP is inserted and connected to link partner, the fiber port will not get to linkup until it is forced to 100FX mode (CLI “media-type sfp-forced 100fx”).~~  \* No such issues (1-1, 1-2) in SW V1.1.5.164 and higher.  2) System and Port LEDs are single-color and can only be lighting in green (blinking or solid).  3) System LED will not be blinking while system is booting.  ~~4) There is no thermal sensor for system temperature. Fan neither.~~ |
| 26 | Chip limitation: When a packet is mirrored to mirroring port due to one port’s rx and the other port’s tx, only one packet (i.e. the copy of that rx) will be copied to mirroring port. [ECS4100-52T-00046] |
| 27 | Chip limitation: There is only 1 copy, which is from the port with smallest port id, for mirroring non-unicast in egress direction(tx). [ECS2100-10P-ACN-00022] |
| ~~28~~ | ~~Chip limitation: When an input packet's field (e.g. VLAN\_ID) is modified by ingress ACL, egress ACL is not able to match that updated value because it still sees the original packet's value. [ECS4100-52T-00138]~~  ~~For example,~~  ~~1. port\_1 is configured with ingress VLAN translation 10 -> 100, port\_2 is configured with egress VLAN translation 100 -> 200.~~  ~~2. Inject tagged packets with VLAN\_ID=10 to port\_1.~~  ~~3. These packets will not out-go from port\_2 because port\_2 sees VLAN\_ID=10, instead of VLAN\_ID=100.~~ |
| 29 | Chip limitation: For the tagged traffic between QinQ uplink port and normal port, if QinQ TPID is not 0x8100, packet's egress TPID will be incorrect. [ECS4100-52T-00195]  PS. #00138 workaround solution is disabled, however, #00094 workaround solution is enabled.  For example,  QinQ TPID is 9100. When 9100 tagged packet is incoming from QinQ uplink port and outgoing to normal port with tagged member, its TPID remains 9100. (Should be 8100.)  And vice versa. Say, 8100 tagged packet, normal port income, QinQ uplink port outgo, TPID remains 100. |
| 30 | ECS4100-28T/28P/28TC Board limitation: There is no GPIO signal available for SFP\_Present state.  Therefore, in order for SFP-insertion polling, it takes more CPU resource to read SFP EEPROM data via I2C channel. This may result in higher CPU utilization, as compared with other skus having GPIO signal for SFP\_Present. |
| 31 | Chip limitation: The ARP packet would be still filtered by MAC ACL even the ACE permits the source MAC address. The cause is Realtek chip matches ‘Source MAC’ /ACE with ‘Sender Hardware Address’ /ARP. The two fields of an ARP packet are supposed to be the same. However, they are different for some reason. [ECS4100-52T-00247] |

**Compliance support:**

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

Known Anomalies: None.

**IEEE Standards Support:**

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| --- | --- |
| **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:**

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| **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) |
| IEEE  802.1X 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 |

**ECS4100 Private Enterprise MIB Support:**

|  |  |
| --- | --- |
| **Title** | Version |
| ECS4100-Series.mib | 201805070000Z |

**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:

**Port LED Definitions:**

The following Port LED definitions are effective in Runtime V1.2.19.182 and higher.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Mode  \  Port LED  \  Sku | Link/Act | | | | PoE | Note |
| 1000 Mbps | 10/100 Mbps | Loopback-Detection | |
| Copper | Fiber / Combo |
| ~~ECS4100-28T (12)~~ | ~~Green~~ | ~~Orange~~ | ~~Green<0.5>Orange~~ | ~~Green<0.5>Orange~~ | ~~NA~~ | ~~> Reset button - Yes(12)~~  ~~> LED - Bi-color~~ |
| ECS4100-28P (13,6) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | Orange | > Reset button - Yes(13), No(6)  > LED - Bi-color |
| ECS4100-12T (14,9) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | NA | > Reset button - Yes(14), No(9)  > LED - Bi-color |
| ECS4100-12PH (10) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | Orange | > Reset button - No  > LED - Bi-color |
| ECS4100-52T (4) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | NA | > Reset button - No  > LED - Bi-color |
| ECS4100-52P (8) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | Orange | > Reset button - No  > LED - Bi-color |
| ECS4100-26TX (1,2) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | NA | > Reset button - No  > LED - Bi-color |
| ECS4100-28TC (15,11) | Green | Orange | Green<0.5>Orange | Green<0.5>Orange | NA | > Reset button - Yes(15), No(11)  > LED - Bi-color |
| ECS4100-28T (3) | Green | Green | Green | Green | NA | > Reset button - No  > LED - Single-color |

PS1. The value(s) within parentheses are the associating Board ID(s).

PS2. The Port LED light of a looped port on loopback-detection only applies to the port-disabled mode (disabled port’s Tx/Rx traffic).

PS3. Green<0.5>Orange means for alternately Green/Orange flashing in 0.5sec period, say |<- Green,0.5s ->|<- Orange,0.5s ->|<- Green,0.5s ->|<- Orange,0.5s ->|...|<- Green,0.5s ->|<- Orange,0.5s ->|.

PS4. At PoE mode Port LED light will not be blinking - either solid (powering) or off (not powering).

PS5. For ECS4100-26TX (1,2), when 10G SFP Port 25/26 get to linkup at 10G speed, the Port LED is also lighting in Green (same as 1000M).