Gigabit Ethernet Switch ECS4150 Series

***Phase 2 Firmware Version 1.2.0.6***

**INTRODUCTION:**

The **ECS4150-28T** is a 24\*1G Base-T ports and 4\*10G SFP uplink ports L2+ 1GbE Switch.

The **ECS4150-28P** is a 24\*1G Base-T ports and 4\*10G SFP uplink ports L2+ 1GbE PoE Switch.

The **ECS4150-54T** is a 48\*1G Base-T ports and 6\*25G SFP uplink ports L2+ 1GbE Switch.

The **ECS4150-54P** is a 48\*1G Base-T ports and 6\*25G SFP uplink ports L2+ 1GbE PoE Switch.

Local Console Management (LCM) allows the user to monitor and configure the ECS4150 Series from a VT-type terminal. LCM can be used to configure features such as SNMP community names and access rights, Port Enable/Disable, firmare 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 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** |
| EIT0 Testing Version | 1.0.0.1 | EIT Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2022/9/23) | 2022/9/23 |
| EIT Testing | 1.0.0.2 | EIT Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2022/10/18) | 2022/10/18 |
| NTC Testing | 1.0.0.3 | NTC Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2022/10/27) | 2022/10/27 |
| EIT Testing | 1.0.0.4 | EIT Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2022/12/01) | 2022/12/02 |
| NTC Testing | 1.1.0.5 | NTC Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2022/12/13) | 2022/12/13 |
| EIT Testing | 1.0.0.6 | EIT Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2023/01/09) | 2023/01/09 |
| NTC Testing | 1.1.0.7 | NTC Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2023/01/17) | 2023/01/17 |
| EIT Testing | 1.1.0.8 | EIT Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2023/02/07) | 2023/02/07 |
| NTC Testing | 1.1.0.9 | NTC Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2023/02/15) | 2023/02/15 |
| EIT Testing | 1.2.0.1 | EIT Test Version Gitlab: ECS4130-AC5\_Phase2 Branch (2023/03/06) | 2023/03/06 |
| NTC Testing | 1.2.0.2 | NTC Test Version Gitlab: ECS4130-AC5\_Phase2 Branch (2023/03/22) | 2023/03/22 |
| EIT Testing | 1.2.0.3 | EIT Test Version Gitlab: ECS4130-AC5\_Phase2 Branch (2023/04/20) | 2023/04/20 |
| NTC Testing | 1.2.0.4 | NTC Test Version Gitlab: ECS4130-AC5\_Phase2 Branch (2023/04/27) | 2023/04/27 |
| EIT Testing | 1.2.0.5 | EIT Test Version Gitlab: ECS4130-AC5\_Phase2 Branch (2023/05/18) | 2023/05/18 |
| NTC Testing | 1.2.0.6 | NTC Test Version Gitlab: ECS4130-AC5\_Phase2 Branch (2023/05/26) | 2023/05/26 |

**LOADER:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| Test Version | 0.0.0.4 | Gitlab: ECS4130-AC5\_Phase1 Branch (2022/9/23) | 2022/9/23 |
| Test Version | 0.0.0.6 | Gitlab: ECS4130-AC5\_Phase1 Branch (2022/10/18) | 2022/10/18 |
| Test Version | 0.0.0.7 | Gitlab: ECS4130-AC5\_Phase1 Branch (2022/12/01) | 2022/12/02 |
| NTC Testing | 0.0.0.8 | NTC Test Version Gitlab: ECS4130-AC5\_Phase1 Branch (2022/12/13) | 2022/12/13 |
| Test Version | 0.0.0.9 | Gitlab: ECS4130-AC5\_Phase1 Branch (2023/01/09) | 2023/01/09 |
| Test Version | 0.0.1.0 | Gitlab: ECS4130-AC5\_Phase2 Branch (2023/03/06) | 2023/03/06 |
| Test Version | 0.0.1.1 | Gitlab: ECS4130-AC5\_Phase2 Branch (2023/04/20) | 2023/04/20 |
| Test Version | 0.0.1.2 | Gitlab: ECS4130-AC5\_Phase2 Branch (2023/05/18) | 2023/05/18 |

**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 AC5-AC5X-Aldrin2\_FeatureSpec\_20230404.xlsx

**Installation and Configuration Notes:**

In general, the ECS4150 Series **Switch** will be shipped to you pre-configured with this version of firmware. If you would like to upgrade an existing ECS4150 Series **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.**

**Runtime V1.0.0.1, Loader V0.0.0.4**

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| --- | --- | --- | --- |
| 1 | NA |  |  |

**Runtime V1.0.0.2, Loader V0.0.0.6**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-13 | ae82e856 | SFP port can not send and receive packets |
| 2 | ECS4650EC-2 | c9ad46f4 | Synchronize the modification of ECS4150 to ECS4650, add ECS4650 related macro definitions to solve compilation errors |
| 3 | ECS4150EC-5 | ff429005 | Delete Diag partition and resize Ecos partition |
| 4 | ECS4650EC-2 | a8e66b8 | Fix the problem of build user and upgrade u-boot version |
| 5 | ECS4150EC-29 | 097cc80a | TrafficSeg/VLAN-ProtocolBased:Segmentation Fault |
| 6 | ECS4150EC-32 | 85235ebf | mac-address-table aging time in range cannot be set |
| 7 | ECS4150EC-20 | 64973237 | Fix add/delete static route |
| 8 | ECS4150EC-33 | 341a85f9 | PortSecurity-0180.rspan up-link on port failed |
| 9 | ECS4150EC-5 | 9b4e46f6 | Modify the upgrade detection mechanism in u-boot |
| 10 | ECS4150EC-50 | afa75b1e | ipv6 nd ra suppress:Segmentation Fault |
| 11 | ECS4150EC-13 | d02fb903 | adapt MMU and flowcontrol of ECS4150 |
| 12 | ECS4150EC-51 | b9ad1ce | IPV6 RA MTU not work |
| 13 | ECS4150EC-51 | bfde45a1 | IPV6 RA not send packet |
| 14 | ECS4150EC-35 | f30f83d5 | Unnecessary print when type Traceroute |
| 15 | ECS4150EC\_5 | b33b97ae | Fix the problem of recovery image signature verification failed |
| 16 | ECS4650EC-2 | 3e2ca99a | Port-mapping for ac5x |
| 17 | ECS4150EC-28 | c684d43f | interface vlan 1 didnot init and cannot be created after copy startup-config running-config |
| 18 | ECS4150EC-20 | e562c4f8 | Save the static route and restart DUT, staticd proc crash. |
| 19 | ECS4150EC-61 | cf2e1f78 | flow control andd shutdown port not work well after save config/reload |

**Runtime V1.0.0.3, Loader V0.0.0.6**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | None | 84f9b83c | add submodule cpss4.3.8 |
| 2 | None | 8eeea6f4 | upgrade sdk to 4.3.8 for ac5x |
| 3 | None | 7e11c006 | Optimize the compilation of openssl |
| 4 | None | 3807c852 | adapt cpss4.3.8 for ECS4150 |
| 5 | ECS4150EC-71 | 845a77a3 | Modify simba displayed system name for EC new model name |
| 6 | None | 24194d5d | add linux-4.14.76\_CnM-22.03.0.patch for sdk 4.3.8 |
| 7 | ECS4150EC-74 | 441a8c54 | modify OID of ecs4650-ac5x to make snmp can work correctly |
| 8 | ECS4150EC-75 | bfd7c879 | segmentation fault when no ipv6 neighbor |

**Runtime V1.0.0.4, Loader V0.0.0.7**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-70 | 6c4bace4 | snmp-host with version 1 did't receive warm start trap. |
| 2 | ECS4150EC-79 | 98d0607f | Remove the CLI command: Loopback detection mode |
| 3 | ECS4150EC-1 | 64d3e57d | adapt board id 1 for PoE device |
| 4 | ECS4150EC-74 | 20939507 | modify OID of ecs4650-ac5x to make snmp can work correctly. |
| 5 | None | 3b9077ab | Add c99 cflags for 4130\_ac5 and 4650\_ac5x |
| 6 | ECS4150EC-79 | 1c4130ef | Remove the CLI command: Loopback detection mode |
| 7 | ECS4150ECX\_8 | 49039cb2 | Set I2C to no channel switching mode |
| 8 | ECS4150ECX-14 | a15bbb65 | The trap of "copy running-config file" will cause segmentation fault. |
| 9 | None | cb375e22 | Support RIP on FRR |
| 10 | ECS4150EC-80 | 6df18a85 | when ZTP can not resolve ip address, it keeps printing error message. |
| 11 | ECS4150EC-92 | 248565d2 | kernel oops some times when calling kfree\_skb |
| 12 | ECS4650EC\_8 | 4d2cf4a5 | Add i2c device driver for AC5X |
| 13 | ECS4150EC-95 | 4df11109 | Web: Ports arrangement in WebUI is different from front panel of the device. |
| 14 | ECS4150EC-101 | 100dd891 | WEB: DUT does not support option 82 information in web Help page. |
| 15 | ECS4150EC-83 | db74ae12 | SFP: Got "DEV\_SWDRV\_SetPortInterfaceMode(): Line = 15729 , error\_id=7" when SFP is removed or set to "media-type sfp-forced 10gsfp. |
| 16 | ECS4150EC-71 | 5bb87284 | Modify simba displayed system name for EC new model name |
| 17 | ECS4650EC\_8 | 7e431d51 | Pass the nand partition parameters in u-boot to the kernel |
| 18 | ECS4650EC\_8 | 098af32f | Upgrade loader version |
| 19 | ECS4150EC-100 | a694ea31 | Support dhcp relay option display |
| 20 | ECS4150EC-105 | 9e32bb69 | Configuration:Copy running configuration with name "Factory\_Default\_Config.cfg" to tftp server. DUT return error and rebooting itself. |
| 21 | None | dab5ddea | Add CLI Command about smart-part |
| 22 | ECS4650EC-10 | 635d3df0 | adapt ACL for AC5X |
| 23 | ECS4150EC-107 | e2738a97 | DHCPv6 Relay: add restrictions for relay destination |
| 24 | ECS4150EC-103 | 4d3072ea | DUT does not reject invalid DHCP Relay address setting, and it cannot relay Request packets. |
| 25 | ECS4150EC-109 | 29e03e73 | DHCPv6 Relay: After we delete and add DHCPv6 Relay, DUT cannot send out DHCPv6 RelayForw to Server. |
| 26 | ECS4150EC-98 | 6252fb7a | The DUT will crash and reboot with watchdog when configure the seletct qinq on LACP port. |
| 27 | ECS4150EC-123 | abbecc9f | Crash and watchdog reboot after set reload at "3/7/2023"(DD/MM/YYYY) and "7:3"(HH:MM) and then apply the setting from web. |
| 28 | ECS4150EC-120 | 4b52d53d | There is no "FTPS Upload" and "FTPS Download" when it is changed from "HTTP Upload" |
| 29 | ECS4650EC-15 | dc4a9afe | Add CLI Command about smart-part |
| 30 | ECS4150EC-116 | a445f38c | The DUT will pop "Segmentation Fault!" and reboot when create and delete the sample-rate of sflow |
| 31 | ECS4150EC-114 | 1b67b3ca | WEB: Failed to link to DHCP-SNP and DHCP-SNPv6 help page. |
| 32 | ECS4150EC-129 | 4b18d230 | Cluster: The SNMP trap relayed by commander always be coldstart trap |
| 33 | ECS4150EC-121 | cb3643a3 | Support SCP on WEB GUI File copy |
| 34 | ECS4150EC-91 | 12c64fcd | ARP: The DUT will pop error message when change the suspend VLAN to active VLAN |
| 35 | ECS4150EC-115 | bc1c6510 | IPv6-FTP:It's failed to copy http-certificate via IPv6 FTP. |
| 36 | ECS4150EC-132 | ed6ff4b1 | ImageDownload:Got debug message "Set not check Image Version" when set it from back door. |
| 37 | ECS4150EC-117 | 725eb46d | Fix the wrong range of transceiver-threshold |
| 38 | ECS4150EC-119 | 571a94b8 | Solve some bug about the htm txt of WebHelp |
| 39 | ECS4150EC-76 | dfcd53c8 | POE function implementation. |
| 40 | ECS4150EC-84 | 1ee1a9ee | 1000 SFP will packet loss and get error counter |
| 41 | ECS4150EC-5 | 07938b81 | Port POE i2c pin |

**Runtime V1.1.0.5, Loader V0.0.0.8**

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| --- | --- | --- | --- |
| 1 | ECS4150EC-81 | 5a2f7a11 | Static ARP not recover when link up |
| 2 | ECS4150EC-99 | 401e152b | Support BOOTP on AC5 |
| 3 | ECS4150EC-118 | 173f669b | MSTP: The DUT will freezes and reboot automatically when config the mst instance of MSTP. |
| 4 | ECS4150EC-138 | 1db6ca8e | "show hosts" Cli command output can't seprate to different page |
| 5 | ECS4650EC-4 | 17eea6d5 | Distinguish between build FRR of ECS4150 and ecs4650 |
| 6 | ECS4650EC-14 | c97b1161 | 1.all traps will become warmstart trap. 2.ac5x frr build will report error |
| 7 | ECS4150EC-71 | eb5c3fa0 | Modify the certificate displayed system name |
| 8 | ECS4150EC-76 | 09c82fee | POE function implementation |
| 9 | ECS4150EC-76 | d408fe57 | POE function implementation |
| 10 | ECS4150EC-5 | c134b382 | Fix the issue of http upload failure port type |
| 11 | ECS4150EC-76 | b952457d | POE function implementation. |
| 12 | ECS4650EC-18 | d4d31972 | fdb entry write fail for daQosIndex is 1 |
| 13 | ECS4650EC\_5 | 3b7192c6 | Fix the issue of alarm led status wrong |
| 14 | ECS4650EC\_5 | bd37e209 | Add cpld upgrade tools |
| 15 | ECS4650EC\_5 | dd724173 | Adds fan control functionality |

**Runtime V1.1.0.6, Loader V0.0.0.9**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4650EC-16 | 85ffa12a | QINQ]It will report error message when type command "dot1q-tunnel system-tunnel-control" |
| 2 | ECS4650EC-19 | b06deb4a | [MVR6]support |
| 3 | ECS4150EC-152 | a5bd078d | Ipv6 route configures can not be deleted |
| 4 | ECS4150EC-156 | c7108f27 | [snmp]:snmp walk will report error messages. |
| 5 | ECS4150EC\_5 | 0e0c2d89 | Adds fan control functionality |
| 6 | ECS4150EC-4 | aa0f00ba | Support FRR BGP |
| 7 | ECS4150EC-71 | 21f7e199 | Modify simba displayed system name for EC new model name |
| 8 | ECS4150EC-166 | e80732ec | POE:Used power of the ports don't reset to 0 when disable POE function |
| 9 | ECS4650EC-10 | df5f3f6f | adapt port negotiation and init error of ECS4650EC |
| 10 | ECS4650EC-20 | 2e9731d4 | SCP not support on WEB GU |
| 11 | ECS4150EC-170 | c63ae65f | ConfigFileMgmt: Got "% Memory is not enough" & "Failed to copy running configuration to local" when read/write flash at the same time. |
| 12 | ECS4150EC-180 | a8925127 | ImageDownload: Run "http upload" from WebUI and "reload" from CLI at the same time, reload shall be rejected. |
| 13 | ECS4150EC-171 | 0eb56278 | [mib]:Get all sub-object of lldpconfiguration, it can not get any response. |
| 14 | ECS4150EC-166 | 2d0a313f | POE:Used power of the ports don't reset to 0 when disable POE function |
| 15 | ECS4150EC-176 | 9a6ee689 | System: Watchdog reboot after http\_upload V1.0.0.3 (2nd opcode) into flash |
| 16 | ECS4150EC-151 | 08a7b890 | Got big counters after clear counters. |
| 17 | ECS4150EC-168 | 08a7b890 | Model name is wrong in PoE help page |
| 18 | ECS4150EC-158 | 45a98ec4 | POE software version showing Version 0x00(Hex)error and changing power budget from 364w to 370w |
| 19 | ECS4650EC-13 | 7e9e381f | VLAN, AMTR function verication |
| 20 | ECS4650EC-13 | 89b4da9d | VLAN, AMTR function verication |
| 21 | ECS4150EC-187 | 5fcfaffb | POE:Do not show "Version is WRONG" error message and add "SRAM programming have been completed" message |
| 22 | ECS4150EC-189 | 0405fcd5 | [mib]:ifOutDiscards is empty. |
| 23 | ECS4650EC-25 | d5a7b6c0 | Can not trap ARP packets to CPU |
| 24 | ECS4650EC-13 | 7f35e40e | VLAN, AMTR function verication(Fix protocol VLAN on SNMP) |
| 25 | ECS4150EC-174 | f96c5bce | system: ports 27&28 will down when unplug the cables from dynamic trunk(port 25&26) |
| 26 | ECS4150EC-194 | f0694483 | POE and NonPOE check during boot up |
| 27 | ECS4650EC\_5 | be4b39c2 | Fix the gpio configuration and disable interrupt |
| 28 | ECS130AC5\_104 | d8245c04 | Fix the issue of sfp link down and link up automatically |
| 29 | ECS4150EC-194 | a85a0543 | POE and NonPOE check during boot up |
| 30 | ECS4150EC\_104 | 183d952a | Mask and clear interrupts |
| 31 | ECS4150EC-193 | 83d866b3 | Segmentation Fault happened after be the cluster member |
| 32 | ECS4150EC-5 | 11dad576 | Add force full speed cmd |
| 33 | ECS4150EC-167 | 950d6946 | POE maximum allocation is useless |
| 34 | ECS4150EC-183 | 7fa01252 | MIB:Value of igmpSnoopPortClearStatistics is always 0 |
| 35 | ECS4150EC-157 | 8ab300e8 | [xSTP] The DUT crashed when setting the mst port-priority config |
| 36 | ECS4150EC-4 | 31abce2f | L3 Feature Verification |
| 37 | ECS4150EC-160 | 7b7495d4 | DDM: Special value of transceiver-threshold shall be rejected |
| 38 | ECS4150EC-4 | 0c7c3630 | L3 Feature Verification |
| 39 | ECS4150EC-183 | cfbb4a37 | MIB:Value of igmpSnoopPortClearStatistics is always 0. |
| 40 | ECS4150EC-84 | 5c4d20b7 | 1000 SFP will packet loss and get error counter |
| 41 | ECS4150EC-84 | c2cae045 | 1000 SFP will packet loss and get error counter |
| 42 | ECS4150EC-181 | 7a1006eb | MIB: Display of igmp profile range is wrong. |
| 43 | ECS4150EC-169 | b6f9a9a5 | PoE: DUT cannot send LLDP with Power Via MDI TLV. |
| 44 | ECS4150EC-190 | 5e622609 | MLD: Content of ipv6 mld profile cannot be showed when use "show ipv6 mld profile". |
| 45 | ECS4150EC-185 | 7196a501 | MIB: mvrVlanStatisticsTable (1.3.6.1.4.1.259.10.1.55.1.44.33) is not necessary. |

**Runtime V1.1.0.7, Loader V0.0.0.9**

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| --- | --- | --- | --- |
| 1 | ECS4150EC-183 | b92fdfde | MIB:Value of igmpSnoopPortClearStatistics is always 0. |
| 2 | ECS4150EC-5 | 7de29285 | Adapt to poe led control function |
| 3 | ECS4650EC-8 | c9bfd7a45 | Fix AC5X build error |
| 4 | ECS4150EC-161 | 233df394 | POE maximum priority is useless |
| 5 | ECS4150EC-200 | 6a558699 | SNMP:The mib browser will show timeout when walk the dot1xAuthSessionUsername(9) of OID. |
| 6 | ECS4150EC-195 | 19c03254 | Mirror-ACL: Failed to add ACL mirroring because "DEV\_SWDRV\_SetDestPortForMacMirror(): Line = 11859 , error\_id=-1, arg = 3,1,1,1" |
| 7 | ECS4150EC-173 | 25217247 | Web: WebUI without action doesn't return to login page after 300 seconds |

**Runtime V1.1.0.8, Loader V0.0.0.9**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-161 | cf3de52a | PoE: Port number priority is useless. |
| 2 | ECS4150EC-173 | 8f51cd74 | Web: WebUI without action doesn't return to login page after 300 seconds. |
| 3 | ECS4150EC-164 | 68ea7a5d | Fix the problem that the poe button does not respond |
| 4 | ECS4150EC-177 | cb83999f | system:got giant counter after clear counters or shutdown/no shutdown ports |
| 5 | ECS4150EC-204 | 6e091e16 | The web help page is incorrect |
| 6 | ECS4650EC-4 | f5383524 | Support BGP SNMP |
| 7 | ECS4150EC-211 | da495af2 | Modify the CPU code and queue for some ACL trapped packets |
| 8 | ECS4150EC-207 & ECS4150EC-208 | 59417a7d | LLDP: dot3-tlv poe cannot be disabled.  LLDP: There is no command to enable/disable lldp med-tlv ext-poe. |
| 9 | ECS4150EC-177 | 47c1c047 | system:got giant counter after clear counters or shutdown/no shutdown ports |
| 10 | ECS4150EC-87 | 5efd4b30 | Internal Loopback: Internal loopback test is failed on sfp port |
| 11 | ECS4150EC-206 | c6fc73ec | WEB: model name in portsStatus menu is disappear |
| 12 | ECS4150EC-184 | d3f9f035 | MVR: Clear mvr statistics of one port would clear mvr statistics of all ports. |
| 13 | ECS4150EC-203 | 15bd6c31 | mib:Source IP address is wrong in MAC ACL. |
| 14 | ECS4150EC-160 | 649467b0 | DDM: Special value of transceiver-threshold shall be rejected |
| 15 | ECS4150EC-212 | d0e62dd6 | Fix the problem that the port 28 led light green when port 1 link up |
| 16 | ECS4150EC-205 | e7efe55d | Web: There is no "Auto Mode" checkbox and selection for "Interface > Port > Transceiver" |
| 17 | ECS4150EC-213 | 13c650cc | WebUI Version is different from CLI |
| 18 | ECS4150EC-209 | 8b3ffd63 | DUT can not provide power class 1,2,4 to PD |
| 19 | ECS4150EC-201 | 3466413e | IPv6-AddrConfig:DUT sends a lot of NS and NA. |
| 20 | ECS4150EC-186 | f415ac25 | MLAG:The traffic will loas half flow a few minutes or more when shutdown the port-channel 1 of 3rd. |
| 21 | ECS4150EC-201 | 8ef3ba2d | IPv6-AddrConfig:DUT sends a lot of NS and NA. |
| 22 | ECS4150EC-186 | 4472e8f0 | MLAG:The traffic will loas half flow a few minutes or more when shutdown the port-channel 1 of 3rd. |

**Runtime V1.1.0.9, Loader V0.0.0.9**

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| --- | --- | --- | --- |
| 1 | ECS4150EC-5 | ef207ea2 | Fix the problem that the accton driver install failed |
| 2 | ECS4150EC-229 | 304f80f4 | statistics-0161 0290:clear counters port not clear counters |
| 3 | ECS4150EC-226 | 29de6168 | Modify model name & image name |
| 4 | ECS4150EC-226 | e29743f0 | Modify model name & image name |
| 5 | ECS4150EC-226 | ac76c810 | Modify model name & image name |
| 6 | ECS4150EC-226 | 33735173 | Modify model name & image name |
| 7 | ECS4150EC-226 | 4ad5f4a0 | Modify model name & image name |
| 8 | ECS4150EC-218 | 3c170553 | DAI for IPSG whitelist not work |

**Runtime V1.2.0.1, Loader V0.0.1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4650EC-5 | 2e82494b | Fix route forwarding source mac replace and support BGP SNMP |
| 2 | ECS4150EC-216 | c4dcd57b | Adapt MMU,media\_type for AC5X |
| 3 | ECS4150EC-235 | db14e009 | DHCP-SNP: Disable and enable DHCP-SNP option 82, DUT cannot forward DHCP Request packets to trust Port. |
| 4 | ECS4130EC-215 | bd9f9d63 | Adapt to rx los, tx fault ,dying gasp interrupt |
| 5 | ECS4130EC-243 | d7cad492 | Voice VLAN: DUT does not reject invalid OUI setting with zero address. |
| 6 | ECS4150EC-241 | af48c763 | LLDP: After we reset this lldp notify interval from maximum field value, DUT cannot send out notify trap message. |
| 7 | ECS4130EC-215 | 94bf9d60 | Adapt fan speed adjustment |
| 8 | ECS4650EC-7 | 3c170553 | Support OSPF on FRR |
| 9 | ECS4150EC-216 | 258b26ae | Adapt qos and diffserv for AC5X |
| 10 | ECS4150EC-219 | 1a4d6ddf | Phase2 L3 feature verification |
| 11 | ECS4150EC-233 | 6a6bb1f4 | AC5X POE implementation |
| 12 | ECS4130EC-211 | c127abe0 | Modify the CPU code and queue for some ACL trapped packets |
| 13 | ECS4130EC-215 | e703a1c3 | Adapt sfp led control |
| 14 | ECS4150EC-217 | 79b3f2ae | temporarily fix the problem about "port mirror" of AC5X |
| 15 | ECS4150EC-245 | c030380d | Some processes crash when receive double vlan packets |
| 16 | ECS4130EC-242 | ff9e001f | ^ Point to the wrong problem |
| 17 | None | f65a50af | Fix show running-cfg maxinum-paths |
| 18 | ECS4650EC-7 | 2b68504b | Support OSPF on FRR |
| 19 | ECS4130EC-215 | 3b20f355 | Adapt for LED control and fan control |
| 20 | ECS4130EC-215 | 8d4f70b2 | Adapt for interrupts control and acc cmd on loader |
| 21 | ECS4130EC-215 | cd913b82 | Upgrade loader version |
| 22 | ECS4150EC-211 | a2c7fe07 | Modify ARP and LLDP queue |
| 23 | ECS4150EC-248 | 540ebc9c | AC5X bt port can't open and close properly |
| 24 | ECS4150EC-216 | 51e55b51 | Adapt polarity of sfp port and add fec command for AC5X |
| 25 | ECS4150EC-217 | af60d4d3 | fix the problem about "vlan mirror/mac mirror/acl mirror" of AC5X |
| 26 | ECS4150EC-226 | 0897485b | phase1&phase2:Modify model name & image name |

**Runtime V1.2.0.2, Loader V0.0.1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-250 | ec42705f | ipv6 link-local ip is active when the system is boot up |
| 2 | ECS4150EC-216 | 3b27088e | Adapt flow control for AC5X |
| 3 | ECS4130EC\_215 | e990bbf4 | Adapt for cpld upgrade |
| 4 | ECS4150EC-239 | ba7150db | Statistic: Input error packets to Port; the Discard and Error packets count are incorrect. |
| 5 | ECS4150EC-251 | 548b6c47 | AC5X ACL:bind acl to port out failed |
| 6 | ECS4150EC-281 | 11244def | Diffserv-1090: packets can not be forwarded when packets match QOS policy setting |
| 7 | ECS4150EC-262 | 3b2b807f | AC5X and AC5 not unify with stormctrl max setting. |
| 8 | ECS4150EC-263 | 0c05d549 | AC5X Statistics-0050:count twice as send with bad crc packets. |
| 9 | ECS4150EC-274 | 466f03b7 | Fix request irq fail when restoring default |
| 10 | ECS4150EC-238 | 395faae3 | After disable and enable poe port. maximum allocation can work properly |
| 11 | ECS4150EC-233 | af0b65f7 | Optimize POE code |
| 12 | ECS4650EC-7 | da452fc5 | Support OSPF on FRR |
| 13 | ECS4650EC-7 | 5b278fb0 | Support OSPF on FRR |
| 14 | ECS4150EC-252 | fc3ded9d | AC5X L2SW-0160 0170:Speed-duplex display incorrect when auto negotiation. |
| 15 | ECS4150EC-217 | e2fe5a6a | apply "sflow sampling" of AC5X |

**Runtime V1.2.0.3, Loader V0.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-254 | 5fd8bcf7 | Support IEEE 802.1ag (CFM) & Y.1731 (Ethernet OAM) |
| 2 | ECS4150EC-230 | 4842d8c9 | Phase3(ECS4150-28F-I) Port bring-up and mapping |
| 3 | ECS4130EC-215 | 1a4823fc | Repair port 49 and port 50 rx los detection |
| 4 | ECS4150EC-266 | 514afcbb | AC5X VoiceVlan:voice vlan priority not be set |
| 5 | ECS4150EC-230 | c664d9a4 | Phase3(ECS4150-28F-I) Port bring-up and mapping(SDK segmentation fault) |
| 6 | ECS4150EC-255 | b34157d6 | AC5X L2SW: no negotiation cannot be set. |
| 7 | ECS4150EC-254 | d06890cd | Support IEEE 802.1ag (CFM) & Y.1731 (Ethernet OAM) |
| 8 | ECS4150EC-254 | f7088852 | Support IEEE 802.1ag (CFM) & Y.1731 (Ethernet OAM) |
| 9 | ECS4130EC-215 | 010cb882 | modify usb reg for hardward test |
| 10 | ECS4150EC-230 | 84605e02 | Phase3(ECS4150-28F-I) Port bring-up and mapping(For AC5X compile error) |
| 11 | ECS4150EC-295 | 1f2fb1e6 | DHCP-Server: CLI can't stop printing dhcp binding information when connect more than 256 DHCP client. |
| 12 | ECS4150EC-266 | 5e43652f | AC5X VoiceVlan:voice vlan priority not be set |
| 13 | ECS4150EC-273 | ec2cc386 | AC5X ratelimit output not same as AC5. |
| 14 | ECS4150EC-295 | 5e383b21 | DHCP-Server: CLI can't stop printing dhcp binding information when connect more than 256 DHCP client. |
| 15 | ECS4150EC-233 | f5fbe927 | maximum power 730w can not provide for 24 port 30w. |
| 16 | ECS4150EC-298 | d5643772 | WebUI: The number of ports is wrong in front panel. |
| 17 | ECS4150EC-210 | d9f641b5 | When insert and remove PD very quickly , the led will on even no PD on this port. |
| 18 | ECS4150EC-307 | 01f4b890 | Help\_Page: Please remove ECMP help page |
| 19 | ECS4150EC-308 | d823450c | DHCP Relay: DUT does not reject to set itself as relay server address. |
| 20 | ECS4650EC-10 | 158d9a16 | Fiber port can not up when insert SFP. |
| 21 | ECS4150EC-311 | 993f9620 | vlanTraslationPortTable mib get return partial result. |
| 22 | ECS4150EC-310 | 9d8870d9 | 802.1X-Supplicant: The supplicat port can join the port-channle member. |
| 23 | ECS4150EC-313 | b7e1fb6b | MIB: Get the MIB object dhcpv6DynamicProvisionStatus, this response value is incorrect. |
| 24 | ECS4650EC-8 | ee930476 | Fan control developement for both 54P and 54t |
| 25 | ECS4150EC-297 | 7c61e00d | HTTPs: Transfer certificate is error and shown memory not enough from web browser |
| 26 | ECS4150EC-315 | c4dc2d97 | DHCPv6 Relay: After we save running and reload this DUT; it lose dhcpv6 relay setting. |
| 27 | ECS4150EC-309 | d45879e5 | PoE: Model name and maximum power are wrong in help page. |
| 28 | ECS4650EC-8 | 6454b65d | Adaptation of driver & peripheral device & PoE |
| 29 | ECS4650EC-10 | 7a685d26 | Remove speed 100half/10half cli cmd and modify the description of stormcontrol. |
| 30 | ECS4650EC-7 | 47b2ce28 | Support OSPF on FRR |
| 31 | ECS4650EC-21 | 2e209378 | Support vrrp on AC5X |
| 32 | ECS4150EC-322 | bb8bc795 | ImageMgmt: Warning message and log status is inconsistent |
| 33 | ECS4150EC-319 | 3f9b6a1b | WebUI: Web can't return to login page after DUT reboots. |
| 34 | ECS4150EC-230 | f1599fa7 | Phase3(ECS4150-28F-I) Port bring-up and mapping(For AC5X compile error) |
| 35 | ECS4150EC-319 | f71f1fc0 | WebUI: Web can't return to login page after DUT reboots. |
| 36 | ECS4150EC-217 | d51f75e1 | conflict about sflow-sampling and port mirror |
| 37 | ECS4150EC-303 | bb4ad592 | Some invalid or reserve IPV6 address can be accepted |
| 38 | ECS4150EC-304 | c56cd1b0 | SelectiveQinQ: CVID set from SNMP can exceed range (1-4094). |
| 39 | ECS4150EC-317 | 52797732 | LLDP: There are four mistakes on lldp help page. |
| 40 | ECS4150EC-230 | 79519b5c | Phase3(ECS4150-28F-I) Port bring-up and mapping(For AC5 max trunk group number) |
| 41 | ECS4150EC-327 | 8cab5c93 | Syslog: There is no log history after "copy sftp file". |
| 42 | ECS4150EC-215 | 07b2de6c | Upgrade CPSS SDK to 4.3.10 |
| 43 | ECS4150EC-324 | d6032ce4 | ImageMgmt: Reload machine is wrong (It's also occurred at ECS4130) |
| 44 | ECS4650EC-7 | 1d9db433 | Support OSPF on FRR |
| 45 | ECS4150EC-217 | 2c96483b | conflict about sflow-sampling and port mirror |
| 46 | ECS4650EC-21 | 6ee7b85d | Fix vrrp crash on ac5 |
| 47 | ECS4150EC-329 | f5a1bf62 | MLAG: The traffic will packets loss when reboot the DUT. |
| 48 | None | 75696477 | update uboot version |
| 49 | ECS4150EC-334 | f7aebdc5 | DNS: The number of host entry are not sequenceal |
| 50 | ECS4650EC-10 | 8ef61dbe | When shutdown/no shutdown the mlag member, the syncd mac may syncd to incorrect port. |
| 51 | ECS4150EC-331 | d17a3a87 | Traffic Segmentation configuration is not save when eth port 1/27.28 is in uplink or downlink port list |
| 52 | ECS4150EC-333 | 82eb21e1 | command "ip http authentication aaa exec-authorization" won't be show in running-config |
| 53 | ECS4150EC-215 | 8bf6068f | driver & peripheral device adaptation |
| 54 | ECS4150EC-318 | a915868d | MSTP: The port-channel will disappear on instance 0 of MSTP |
| 55 | ECS4150EC-300 | 052cd45e | Adapt to Cable-diagnostics function |
| 56 | ECS4150EC-330 | ae3aaac1 | Watchdog: Reboot after segment fault. |
| 57 | ECS4130EC-284 | f4c60de2 | delate igmp snooping |

**Runtime V1.2.0.4, Loader V0.0.1.1**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-320 | 98a84ca0 | SystemMgmt: Temperature of rising/falling alarm is different with spec and system no shutdown when temperature is over 76 degrees. |
| 2 | ECS4150EC-305 | 47ca6a33 | SelectiveQinQ: CLI has no commands to show the configuration for port-channel individually. |
| 3 | ECS4130EC-264 | c0e0bdaf | Failed to set ratelimit output. |
| 4 | ECS4650EC-8 | bea2342f | Assign correct fan speed according to the board\_id |
| 5 | ECS4650EC-22 | f988fd83 | Support IGMP/PIM on FRR |
| 6 | ECS4650EC-22 | a57dcc12 | Fix IGMP/PIM compile |
| 7 | ECS4150EC-1 | 36061ec3 | Modify environment in Linux shell |
| 8 | ECS4150EC-319 | 15dbff2e | Web can't return to login page after DUT reboots |
| 9 | ECS4150EC-265 | 35415f14 | simba stacking |
| 10 | ECS4150EC-234 | 0ae563ea | Internal Loopback: All 1G ports are down after run "test loop internal interface interface ethernet 1/X". |
| 11 | ECS4650EC-21 | d460b2f1 | Fix bug of vrrp |
| 12 | ECS4150EC-325 | faa92082 | Watchdog: Trigger watchdog reboot because "cat: can't open '/proc/1470/ustack': No such file or directory" |
| 13 | ECS4150EC-353 | f7d28059 | VoiceVlan-0411:voicevlan didnot tranmit dscp value well |
| 14 | ECS4150EC-339 | 2ea6f5fe | Trap： The DUT cannot send out the "tcnTrap(63)" when cause the topology change |
| 15 | ECS4150EC-352 | 2d16545d | Fix cable diag causing problems with port link status |
| 16 | ECS4150EC-312 | f5821d45 | WebUI:Mirror display is different on port/vlan/mac-address |
| 17 | ECS4150EC-356 | 527d058c | Add ecCloud management daemon (mgmtd) on ECS4150 series switches. |
| 18 | ECS4150EC-300 | c5cadd10 | Adapt to Cable-diagnostics function for ECS4650\_AC5 |

**Runtime V1.2.0.5, Loader V0.0.1.2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-215 | 031b32b0 | Fix cable diag causing problems with build error |
| 2 | None | bc189ff1 | Add show ip igmp interface command |
| 3 | ECS4150EC-325 | af1df1cd | Watchdog: Trigger watchdog reboot because "cat: can't open '/proc/1470/ustack': No such file or directory" |
| 4 | ECS4650EC-8 | 4bd77fa9 | ECS4650\_AC5X POE developement |
| 5 | ECS4650EC-13 | 1c79c015 | VLAN, AMTR function verification(Fix protocol VLAN on stacking) |
| 6 | ECS4150EC-365 | f8453b53 | ecCloud agent (mgmtd) cannot resolve DNS for registration service. |
| 7 | ECS4150EC-367 | b083bc26 | HelpPage: Default value of some DoS Protection items in help page is enabled |
| 8 | ECS4150EC-303 | a078fcb0 | Some invalid or reserve IPV6 address can be accepted |
| 9 | ECS4150EC-360 | 5e5b8c8e | Voice VLAN: DUT does not reject set itself MAC as OUI MAC |
| 10 | ECS4650EC-8 | e6ac0964 | ECS4650\_AC5X POE developement |
| 11 | ECS4150EC-368 | 61f3e520 | Test loopback: Got "Internal loopback test: faied" when it's not joined VLAN 1 |
| 12 | ECS4650EC-8 | 825f8188 | ECS4650\_AC5X POE developement |
| 13 | ECS4650EC-8 | b51c2529 | ECS4650\_AC5X POE developement |
| 14 | ECS4650EC-8 | a6b09043 | adjust macro range; modify defination of board type |
| 15 | ECS4150EC-363 | 8564aef3 | System Test: After we set DHCP-SNP VLAN to suspended; DUT return error, ping session timeout and all unicast data looping |
| 16 | ECS4150EC-370 | 0b601f6a | Implement SNMP ipCidrRoute |
| 17 | None | e899896c | Fix zebra compilation |
| 18 | ECS4650EC-12 | 50dced2b | XSTP.VLAN translation.QinQ.LBD.UDLD function verication |
| 19 | None | 64109451 | fix poedrv complie error |
| 20 | None | 5c3e1278 | Fix snmp compilation |
| 21 | ECS4150EC-299 | 598bdf63 | Test loopback: implement loopback function for fiber port. |
| 22 | ECS4150EC-374 | 7830f811 | SNMP:When DUT reject PC login to DUT by mgmt-ip-filter setting, it send out unknown trap |
| 23 | ECS4650AC5X-7 | d19eb6c8 | Support OSPF on FRR |
| 24 | ECS4150EC-362 | f9d9c2ab | System Test: Shutdown and no shutdown LACP trunk for overnight, DUT reload itself. |
| 25 | ECS4150EC-380 | 4741834e | Fix cable diag test failed with running a second test while the first test is not completed |
| 26 | ECS4650EC-19 | ba4a0e27 | MVR6 SUPPORT |
| 27 | ECS4150EC-378 | 13feefa7 | ImageMgmt: SFTP function does not work |
| 28 | None | 28a70503 | Init SNMP long variate and fix some parameter check failures |
| 29 | ECS4150EC-378 | fa47e58c | ImageMgmt: SFTP function does not work |
| 30 | ECS4150EC-377 | e201228d | Rate-limit: Rate-limit output rate is not accurate. |
| 31 | ECS4150EC-375 | bef41057 | Watchdog: Reboot after "Segmentation Fault!" (/usr/bin/l2\_l4\_proc) |
| 32 | ECS4150EC-265 | af34f821 | simba ac5x stacking |
| 33 | ECS4150EC-384 | b0c3e4bd | 3MS#20131128 WHT: ECS4150P-28 missing suboption port-description in ip dhcp snooping information option remote-id string“ command |
| 34 | ECS4150EC-265 | 9d388266 | simba ac5x stacking packets transfer |
| 35 | ECS4150EC-265 | 4b3c4b14 | simba ac5x stacking packets transfer |
| 36 | ECS4650EC-8 | d0431fa7 | ECS4650\_AC5X POE developement |
| 37 | None | 15bac0f5 | Fixed the slave device cpu cannot send packets |
| 38 | ECS4150EC-383 | 3c5e663c | Add sfp-forced ifmode CLI command for 25G and 10G fiber port. |
| 39 | ECS4150EC-265 | 9a232bcf | simba ac5x stacking packets transfer |
| 40 | ECS4650EC-8 | fd536077 | ECS4650\_AC5X POE developement |
| 41 | ECS4150EC-369 | ff5f082c | Fix port link status detect error |
| 42 | ECS4150EC-369 | 06afd417 | Fix port link status detect error |
| 43 | ECS4150EC-383 | 0ac80600 | Modify the default value of ifmode to sr\_lr. |
| 44 | ECS4150EC-215 | 38e780c8 | Fix the problem that i2c operation is not locked |
| 45 | None | c5c49b50 | Fix the issue of eth2 failure |

**Runtime V1.2.0.6, Loader V0.0.1.2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS4150EC-230 | 76c96ca5 | Phase3(ECS4150-28F-I) Port bring-up and mapping(Adjust combo port) |
| 2 | ECS4150EC-216 | 668d2d07 | simba ac5x copper port can not linkup in init port manager state |
| 3 | ECS4650EC-32 | 71ef1103 | Support UDPhelper Feature |
| 4 | ECS4650EC-8 | b7889bb8 | ECS4650\_AC5X POE developement |
| 5 | ECS4650EC-8 | 2251fc91 | ECS4650\_AC5X POE developement |
| 6 | ECS4150EC-376 | 7920cc02 | COMB\_MSTPt: The CPU Utilization of ECS4150-54T/P is 22%, but the ECS4150-28T/P is only 4% of CPU Utilization. |
| 7 | ECS4650EC-30 | e9cd61d5 | Voice VLAN,OAM,LLDP Feature Verification |
| 8 | ECS4150EC-328 | c15f8576 | Fix the problem that Power-saving does not work for ECS4150-54P (No any action) |
| 9 | ECS4150EC-350 | 873889b8 | Unicast input/output is not enough when line speed 5 minutes. |
| 10 | ECS4650EC-20 | 3e227151 | Some features do not work on stacking mode |
| 11 | ECS4650EC-8 | d1d3919a | ECS4650\_AC5X POE developement |
| 12 | ECS4650EC-9 | 2179911c | Standalone & Stackable: SNMP, WEB, Download/Upgrade,L2MCAST Feature Verification |
| 13 | ECS4150EC-394 | 4a191f4e | LACP: The 25G of LACP that can not work |

**modifications:**

**Loader V0.0.0.4**

|  |  |
| --- | --- |
|  | Initial Version |

**Runtime V1.0.0.1**

|  |  |
| --- | --- |
|  | Initial Version |

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

**Known Bugs and Issues:**

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

NA

**Known RESTRICITIONS AND Limitations:**

|  |  |  |
| --- | --- | --- |
|  | Limitation Type | Description |
| 1 | Software limitation | For verify chip can support full multicast entry. The speed of data/control packet which used for igmp snooping learning shall not in line speed. |
| 2 | Software limitation | Web Authentication only support IPv4 HTTP |
| 3 | Software limitation | Due to Jquery software limitation. The web browser need IE 9+, Chrome 54+, Firefox 52+ or Opera 41+. |
| 4 | Software limitation | Support muintuple vlan tag by software, but have limitation: can not support the packet need linux kernel process, like management features, arp, telnet, ping, tracerout, routing, snmp, ipv6…etc. [ES4627MB-FLF-EC-00889] |
| 5 | Chip limitation | ECS4150EC-48 DHCP-Snooping-0340：the rate limit of dhcp snooping does not work well  According to the chip documentation, their speed limit is not 100% accurate, and the speed limit value is calculated by accumulating 10 seconds. |
| 6 | Chip limitation | Casued by Phy limit, can not support auto-negotiate of flow-control，We use force mode instead.So if link up with 100M/1G full，flow-control type should always Dot3X，10/100 half type should be backpress. |
| 7 | Phy chip limitation | ECS4150EC-63  The link flapping is caused by back-pressure and link would be up after back-pressure condition is gone(This Back-pessure only 100M/10M half on ECS4150-AC5) |
| 8 | Chip limitation | ECS4150EC-64  Per system, IC have 1 mirror buffer, after this packet is send out, it can be used for mirroring the next packet again.  So you can not enable the mirroring, source, destination or multiple at ac5/ac3, ac3bxh solution.  So when mirror two streams at same time,the mirror packets will loss |
| 9 | Chip limitation | After the SFP port is switched to 1G linkup after 10G linkup, if the traffic is blocked and the CLI command “show counter” displays “Internal Mac Transmit Errors / Fragments”, you need to unplug the port module or shutdown/no shutdown port to change the port link status, then the streaming will return to normal (generally, this problem will occur when the device is switched to 1G after the first 10G linkup after startup) |
| 10 | Chip limitation | Dynamic QoS Assignment only support configure one acl per port: Marvell support ACL resource are finite, so the upper software limit only support configure one acl per port or per function;when mac-authentication enable Dynamic Qos Assignment base Radius, so also only support configure one acl per port, multiple acls will authentication failure. |
| 11 | Chip limitation | AC5X does not support half-duplex |
| 12 | Software limitation | cpssDxChMirrorRxPortSet is called to set mirrored port when setting port mirror, and it is also called by sflow-sampling. So you can not set sflow-sampling and mirrored port on the same physical port at the same time. |
| 13 | Chip limitation | For AC5X devices, when a SFP interface works on 10G mode and there is streaming on it, and the down/up of the adjacent SFP interfaces will cause packet loss on the streaming interface. |
| 14 | Chip limitation | Cable-diag accuracy issues: For link-down ports, the reported distance to a fault is accurate to within +/- 2 meters. For link-up ports, the accuracy is +/- 10 meters. |
| 15 | Chip limitation | For AC5X devices, FDB does not support qos marking, and igmpsnp/mldsnp does not support priority function |
| 16 | Chip limitation | For AC5X, can not adapt the media-type of DAC cable(kr) and fiber(sr\_lr) automatically for 49-54 ports. So add a CLI command for set it manually :  Vty-1(config-if)#media-type sfp-forced ifmode ? kr Specifies forced ifmode as KR sr\_lr Specifies forced ifmode as SR\_LR  The mode is fiber(sr\_lr) by default, so if you need to insert DAC cable on a port, you have to set the mode to kr by this command. |

**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) |
| 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 |

**ECS4150 SERIES Private Enterprise MIB Support:**

|  |  |
| --- | --- |
| **Title** | Version |
| ECS4150.mib | 202104080000Z |

**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:**

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