Gigabit Ethernet Switch ECS5520-18T/ECS5520-18X

***Phase 3 L2+ Firmware Version 3.1.11.251***

**INTRODUCTION:**

The **ECS5520-18X** is a 16\*10G SFP+ ports plus 2\*40G QSFP+ uplink ports L2+ 10GbE Switch.

The **ECS5520-18T** is a 16\*10G BaseT ports plus 2\*40G QSFP+ uplink ports L2+ 10GbE Switch.

Local Console Management (LCM) allows the user to monitor and configure the ECS5520 Series from a VT-type terminal. LCM can be used to configure features such as SNMP community names and access rights, Port Enable/Disable, firmware downloads, and Device IP address as well as most other parameters. LCM can also provide statistical and diagnostic information about the entire device or an individual port.

Management of the switch is password protected; the same password is used for LCM and for the Web browser interface. Prior to accessing the Management Module via a network connection, a valid IP address, subnet mask, and in some cases a default gateway must be configured using an out-of-band connection or the 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** |
| EIT/NTC Testig Version | V3.1.11.251 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2025/2/14 |
| NTC Testig Version | V3.1.10.244 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/12/23 |
| EIT Testig Version | V3.1.9.244 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/12/11 |
| EIT Testig Version | V3.1.8.243 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/7/11 |
| EIT Testig Version | V3.1.7.242 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/6/20 |
| EIT/NTC Testig Version | V3.1.6.241 | EIT/NTC Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/3/15 |
| EIT/NTC Testig Version | V3.1.5.241 | EIT/NTC Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/2/23 |
| EIT/NTC Testig Version | V3.1.4.241 | EIT/NTC Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2024/2/8 |
| EIT/NTC Testig Version | V3.1.3.234 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2023/12/28 |
| NTC Testig Version | V3.1.2.234 | NTC Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2023/10/24 |
| EIT Testig Version | V3.1.1.233 | EIT Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2023/9/28 |
| EIT/NTC Testig Version | V3.1.0.233 | EIT/NTC Test VersionGitlab:DEV\_ECS5520\_Phase3 Branch | 2023/7/28 |
| NTC Testig Version | 1.1.2.221 | NTC Test VersionGitlab:ECS5620\_Phase1 Branch | 2022/02/10 |
| NTC Testig Version | 1.1.1.214 | NTC Test VersionGitlab:ECS5620\_Phase1 Branch | 2021/11/10 |
| EIT Testig Version | 1.1.0.214 | EIT Test VersionGitlab:ECS5620\_Phase1 Branch  | 2021/10/21 |

**LOADER:**

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| --- | --- | --- | --- |
| **Status** | **Version No.** | **Type** | **Release Date** |
| Test Version | 0.0.2.2 | Gitlab:ECS5620\_Phase1 Branch (2021/10/20) | 2021/10/20 |

**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 ECS5520\_FeatureSpec\_20240409.XLSX

**Installation and Configuration Notes:**

In general, the ECS5520 L2+ Series **Switch** will be shipped to you pre-configured with this version of firmware. If you would like to upgrade an existing ECS5520 L2+ 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.**

**Loader V0.0.1.2**

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| 1 | N/A | uboot same with ECS5520 phase2 |

**Runtime V3.1.11.251 base on V3.1.10.244, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-634 | 7438a8e1 | HTTP: The range prompt of http timeout is wrong in the CLI. |
| 2 | ECS5520EC-633 | 5ea5bfd6 | The DUT cannot display the alarm message of forwarding changed smart-pair |
| 3 | ECS5520EC-643 | d67bc631 | Ingress packet queue(dev\_nicdrv) is suspend & dhcp snp packet cause tx memory leakage for JIO branch |
| 4 | ECS5520EC-637 | 8234468e | MLAG:The traffic will experience blocking and flooding on other ports for about 60 seconds when shutdown and no shutdown the port of mlag member. |

**Runtime V3.1.10.244 base on V3.1.9.244, Loader V0.0.1.2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS5520EC-603 | 4b374086 | Enhance the extended HTTP/HTTPS/SSH timeout logout time for ECS5520 |
| 2 | ECS5520EC-630 | bbf9251e | All simba - unit of measure using wrong unit. |

**Runtime V3.1.9.244 base on V3.1.8.243, Loader V0.0.1.2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS5520EC-604 | 23b924f5 | IPv6 link-local address can't be saved on craft port. |
| 2 | ECS5520EC-610 | 2e136b5f | Need to update the mgmtd to the latest version V1.8.33-17466 |
| 3 | ECS5520EC-618 | 162ea4ea | Add TIP compatibility for EC |
| 4 | ECS5520EC-613 | 854b3dce | ECS5520 Mlag support static LACP function |
| 5 | ECS5520EC-614 | ae661e7b | Enhancement: support smart-pair function on ECS5520 |
| 6 | ECS5520EC-622 | 52690bf9 | CLI hang after client(with long prompt msg) try to login with TACACS |
| 7 | ECS5520EC-625 | 1978581f | DNS: TTL in DNS entries become 429495xx after DNS entries timeout. |
| 8 | ECS5520EC-626 | 1978581f | The official build of 248 day LLDP issue patch |

**Runtime V3.1.8.242 base on V3.1.7.242, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-598 | 0204f976 | There is something that is not working in MLAG. |

**Runtime V3.1.7.242 base on V3.1.6.241, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-563 | 21a6f006 | Switch dropped the DHCP offer/ack packet if enabled the option 82 but server send the packet without option 82 instead option 0 |
| 2 | ECS5520EC-581 | 875cd1d7 | When the switch connected to the RPL owner restarts the switch,the loop problem will occur on this ring |
| 3 | ECS5520EC-580 | dea2fdd4 | SNMP returns a wrong value of the 40G port. |
| 4 | ECS5520EC-533 | e4776082 | Need to register all tasks and threads to watchdog |
| 5 | ECS5520EC-592 | d197284f | MVR6: DUT crashed when received done message with immediate leave enabled config. |
| 6 | ECS5520EC-555 | 16dfff80 | Log: The DUT will pop error message "tar: Error exit delayed from previous errors" when copy the log to tftp, but the tech-support log is not exist. |
| 7 | ECS5520EC-587 | 58f28c68 | SSH public key authentication |
| 8 | ECS5520EC-569 | 1d6cbf56 | Need support Access-list on cpu port so customer can deny packet to cpu. |
| 9 | ECS5520EC-595 | 7e4e6899 | #34669 If configure the port description on lacp port-channel, the original port\_description on the interfaces will not be able to preserved. |

**Runtime V3.1.6.241 base on V3.1.5.241, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-545[ECS5520EC-560](https://jira.accton.com:8443/browse/ECS5520EC-560) | 3c54b635b0 | [GVRP-0010] The GVRP global setting cannot be save success after reload. |
| 2 | ECS5520EC-550 | 2bdce2ee | 40G QSFP tranceiver DDM issue 1. checksum can not display on CLI 2.Web and SNMP only one TX/RX power not 4 lanes |
| 3 | ECS5520EC-556 | f049c19125 | CLI: Show running-config igmpsooping that is empty even configure the igmp snooping |
| 4 | ECS5520EC-561 | a1c33d2a | when setting MVR+IGMP to test, igmp packet will forward abnormally. |

**Runtime V3.1.5.241 base on V3.1.4.241, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-551 |  | SSH\_TD cause Random crash on EIT |

**Runtime V3.1.4.241 base on V3.1.3.234, Loader V0.0.1.2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | ECS5520EC-507 | 74bf22c6 | Miss the save configuration in web |
| 2 | ECS5520EC-430 | 21fc3086 | SpeedTest download throughput is low on ECS5520 from 10G port to 1G port |
| 3 | ECS5520EC-522 | 5e25c925 | Enhance: "show running-config interface etherent 1/1" on global config mode and interface config mode.(One Ott) |
| 4 | ECS5520EC-509 | ce54d4a6 | The way to reset configuration or password without super passwrd |
| 5 | ECS5520EC-520 | 93087648 | adding the filtering feature to CLI commands of show log ram and show log flash for One OTT(phase3) |
| 6 | ECS5520EC-527 | 62e203d2 | ECS5520 will enter exception mode if apply reset config on ECS5520 with selective QinQ configured |
| 7 | ECS5520EC-415 | ecdbfc09 | Enhancement. enhance the static lacp as we show in static-lacp sheet that still can display the lacp Trunk even not connected. Please refer to "static-lacp" sheet. |
| 8 | ECS5520EC-526 | 9a39227c | #33863 Customer issue that there will be additional configuration when create lacp port-channel |
| 9 | ECS5520EC-528 | fd5dab75 | Enhance Gadding the filtering feature to CLI commands of show running for One OTT |
| 10 | ECS5520EC-535 | a901d81f | Enhancement: Save the output of "show tech\_support" onto flash(phase3) |
| 11 | ECS5520EC-531 | 0fa8b5ac | #33903 The default STP path cost is different with other brands and spec. |
| 12 | ECS5520EC-538 | e126dab3 | ECS5520 phase3 should support lost key |
| 13 | ECS5520EC-511 | 864cdbca9 | SFTP: Trigger watchdog reboot after run SFTP command twice or run SFTP command, then save configuration |
| 14 | ECS5520EC-537 | 7b3da6cf | No TX information QSFP+ 40G BASE LR4 |
| 15 | ECS5520EC-541 | 30e8345e | Enhancement: to support command "show mac-address-table count vlan" |

**Runtime V3.1.3.234 base on V3.1.2.234, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-443 | 6d978d19 | Syslog: "Copy sftp file" does not list log.(ECS5520\_phase3) |
| 2 | ECS5520EC-408 | 4bb2b932 | TWAMP: Typesetting is wrong when Sender or Reflector address is long IPv6 address. |
| 3 | ECS5520EC-456 | 3fb704ec | WebHelp: "Default: Enabled for broadcast storm control" is wrong. |
| 4 | ECS5520EC-446 | 29619c5419d7aa05754aabb | Port status is license down after uploading valid new license when old |
| 5 | ECS5520EC-457 | 4d68f7a0 | QinQ:The count of port double-tagged vlan sometimes is incorrect |
| 6 | ECS5520EC-458 | 36dd0a2e | IPv6-AddrConfig: CLI show -1 when set ipv6 nd prefix Valid lifetime or Preferred lifetime to 4294967295. |
| 7 | ECS5520EC-428 | 92a24b45 | Config file name max size cause default config after reboot. |
| 8 | ECS5520EC-460 | bfeb2236 | ImageMgmt: The same version shall be set to "Failed". |
| 9 | ECS5520EC-465 | 6a4d82cb | Ping: CLI only supports 64 characters length of target hostname. |
| 10 | ECS5520EC-467 | c00941d8 | ECS5520 Mac address table missing for ecloud |
| 11 | ECS5520EC-470 | 7f5968f3 | transceiver threshold alarm symbol "!" does not show whentransceiver-monitor is enabled and measured value is in warning or alarm region |
| 12 | ECS5520EC-469 | e8a8b699 | DDM:"!" is still existed even transceiver-monitor is disabled |
| 13 | ECS5520EC-471 | 9bfabdab | Allow the image of phase3 L3 to upgrade the image of phase2 L2 without inverse-vector license. |
| 14 | ECS5520EC-474 | 1fea3dafb17735e2 | snmp-server notify-filter not working |
| 15 | ECS5520EC-473 | e9f01e23 | these command's result lost in the tech-support log. |
| 16 | ECS5520EC-399 | 3abaa775 | MLAG: The learning mac-address of mlag unit will ageing out. |
| 17 | ECS5520EC-472 | 00fed3242b8c3620 | The logging command command line is missing the show logging command command |
| 18 | ECS5520EC-503 | 0d14a535 | Enhance function.lacp bandwidth for One OTT |
| 19 | ECS5520EC-504 | 167e1dbf | Enhancement: Add copy log command |

**Runtime V3.1.2.234 base on V3.1.1.233, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-345 | c5d63f853a3454ab55bb6847c4025ab8 | Ehancement: Seletive qinq function svid+ cvid replace svid+ new civd |
| 2 | ECS5520EC-406 | 1ecd7256 | SFP:Link length is different from product specification |
| 3 | ECS5520EC-440 | 33e23f4a | SNMP communities and group need reject display adoptd\_private and adoptd\_public, but other group also can not display |
| 4 | Revert-ECS5520EC-414 | 8a88dd2d | Enhance function.lacp bandwidth(Delete this function) |
| 5 | Revert-ECS5520EC-415 | 45d4b83 | Enhancement. enhance the static lacp as we show in static-lacp sheet that still can display the lacp Trunk even not connected. Please refer to "static-lacp" sheet.(Delete this function) |
| 6 | ECS5520EC-432 | 58717232 | The untag package can carry double tags.but trunk Configuration recovery failed and CPU packet handling exception for DHCP/PPPOE |
| 7 | ECS5520EC-431 | 2d00822e | cant't forward packets and watchdog reboot. |

**Runtime** **V3.1.1.233 base on V3.1.0.233, Loader V0.0.1.2**

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| --- | --- | --- | --- |
| 1 | ECS5520EC-392 | 91ec7370 | Add option about "update image without checking function profile" in backdoor |
| 2 | ECS5520EC-343 | 39a22309 | Enhancement:ACL can be binding on the port-channel |
| 3 | ECS5520EC-402 | e611f39a | If ther are no changes in cloud configuration, including VLAN L3 IP of "user" type,no DNS server changes and no IP routes changes, device should not be soft-reset for phase2 |
| 4 | ECS5520EC-405 | 45c7a6a460827e6d5d0b1231 | Additional SNMP communities adoptd\_private and adoptd\_public fpr phase3 |
| 5 | ECS5520EC-410 | f306bdfbb | ECS5520 phase 3 can not use old license |
| 6 | ECS5520EC-412 | e2f3ca51 | MIB: SFP inserted/removed could not be compiled |
| 7 | ECS5520EC-397 | 74e424c9 | 40G QSFP print error message |
| 8 | ECS5520EC-419 | 45c47593 | DHCPv6 relay: COnfigure dhcpv6 client and change DHCPv6 relay destination address to multicast-all form vlan1 and system halted(Phase3) |
| 9 | ECS5520EC-421 | dda52b93 | After creating the VLAN4094, enable IPv6 Enable and show running will display an error message(Phase3). |
| 10 | ECS5520EC-414 | 24dd8135 | Enhance function.lacp bandwidth |
| 11 | ECS5520EC-415 | 98b1afda | Enhancement. enhance the static lacp as we show in static-lacp sheet that still can display the lacp Trunk even not connected. Please refer to "static-lacp" sheet. |
| 12 | ECS5520EC-370 | 752637f9 | Mlag shutdown/no shutdow mlag member port, ping failed for ecs5520 phase3 |
| 13 | ECS5520EC-409 | 692f5353 | DHCP Relay: DUT does not reject to set invalid IP address as set L2 DHCP Relay server address. |
| 14 | ECS5520EC-411 | 28e8fd57 | Enhancement: latency increase while pinging the neighbor switch |
| 15 | ECS5520EC-422 | cc5c02ce | Enhancement: Enhance count size is 16 Max need to increase 100000 with rapid count and MTU size (1472) |
| 16 | ECS5520EC-425 | c50e22e6 | MLDV2: MVR: DUT down when set mvr domain 1 type source |
| 17 | ECS5520EC-429 | ac83f5e8 | Enhancement: Tacacs authorization failover requirement. |
| 18 | ECS5520EC-424 | 26c90541 | Fine tune the function profile behavior on ECS5520\_Phase3 |
| 19 | ECS5520EC-420 | e1adfd8a | Bypass license checking for some profile |
| 20 | ECS5520EC-344 | 741618e684d7d701 | Ehancement: The untag package can carry double tags |

**Runtime V3.1.0.233 base on ECS5620 phase1 V1.2.2.221, Loader V0.0.1.2 base on ECS5520 phase2 uboot**

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| --- | --- | --- | --- |
| 1 | ECS5620EC-93 | 023bbc6b | Cluster:Cluster commander can't relay SNMPv2 notification |
| 2 | ECS5620EC-104 | 8e979920 | DHCPv6 Relay: DUT does not reject to set dhcpv6 relay setting as ipv6 address of vlan1 not defined. |
| 3 | ECS5620EC-105 | 8e979920 | DHCP Relay: DUT accept invalid DHCP relay setting with network\_ID. |
| 4 | ECS5620EC-106 | 8e979920 | DHCPv6 RFelay: After we delete and add DHCPv6 Relay, DUT cannot send out DHCPv6 RelayForw to Server. |
| 5 | ECS5620EC-107 | 96c2b4c0 | MSTP-1150 : DUT no response when Set DUT1 and DUT2 mst name && ECS5620EC-108 DDM: No DDM threshold trap is sent when it's enabled and raise/fall temperature |
| 6 | ECS5620EC-121 | 0059fb17 | LLDP: Save this lldp setting of Trunk; leave port from trunk, it cannot transmit and receiving lldp. |
| 7 | ECS5620EC-122 | 0059fb17 | LLDP: DUT does not send "lldp neighbor change" as reset notify-interval to 5 from 3600 sec. |
| 8 | ECS5620EC-126 | 16bfd606 | ECS5620EC-126 ip http authentication aaa exec-authorization default Commad configure won't show up |
| 9 | ECS5620EC-127 | b192ea48 | loopback-detection global config action issue |
| 10 | ECS5620EC-130 | b121add8 | ConfigFileMgmt: Got "% Memory is not enough" & "Failed to copy running configuration to local" when read/write flash at the same time |
| 11 | ECS5620EC-131 | 4c1c949c | TrafficSeg/VLAN-ProtocolBased : Segmentation Fault! |
| 12 | ECS5620EC-133 | dc6f8a31 | Some processes crash when receive double vlan packets |
| 13 | ECS5620EC-147 | 0f21045c | The switch doesn't change local login when TACAS login fail |
| 14 | ECS5620EC-148 | 0f21045c | http cpu is abnormal,causing http web gui to be unusable(porting from AOS5835) |
| 15 | ECS5620EC-149 | 0f21045c | Selective: IPv6 Router-Advertisement is dropped when using "switchport dot1q-tunnel service configuration" |
| 16 | ECS5620EC-151 | 0f21045c | Mlag: The mlag of DUTs does not learning mac-address when the DUTs is reboot |
| 17 | ECS5620EC-165 | 6db18983 | ERPS: After we delete and add ring port DUT return exception and halted and rebooting itself. |
| 18 | ECS5620EC-171 | 6db18983 | When igmp snooping is disabled, the display of igmp snooping running status is active |
| 19 | ECS5620EC-173 | 6db18983 | Webhelp:Please add description for "Granted Buckets". |
| 20 | ECS5620EC-182 | 6db18983 | ipaddrprimaryinterface and iPaddrstatus code can not get correct data |
| 21 | ECS5620EC-98 | cbbf8da0 | [IPv6-AddrConfig] It does not show INVALID status for IPv6 address |
| 22 | ECS5620EC-142 | 58b3de4f | TWAMP: Count value in the Server Greeting packet is 262144 (0x00 04 00 00). |
| 23 | ECS5620EC-164 | 010d55b2 | IPv4-AddConfig: 192.168.2.x could not be used when default VLAN 1 is DHCP |
| 24 | ECS5620EC-166 | 010d55b2 | [IPv6-AddrConfig-0612, 0614] default ipv6 gateway should be empty |
| 25 | ECS5620EC-186 | 2f951090 | MIB: We cannot get/set MIB object dhcpOption82VlanConfigEntry and dhcpOption82PortConfigEntry. |
| 26 | ECS5620EC-153 | 180defe3 | 40G fiber doesn't display DDM info after breakout to 4x10G |
| 27 | ECS5620EC-100 | 66a304f6 | NTP: The DUT will polo wrong message "% CLI internal error; please contact with system administrator" |
| 28 | ECS5620EC-143 | 28b6a806 | Getting negatvie values for free memory in snmp walk |
| 29 | ECS5620EC-156 | 28b6a806 | PPPoE IA drops PPPoED packets with PPP-Max-Payload |
| 30 | ECS5620EC-185 | 28b6a806 | WEB Help: DUT does not support L2 DHCP l2/l3 Relay switch and L2 Relay description. |
| 31 | ECS5620EC-159 | c873188b | ECS5620EC-159 request to mandatory support RSA4096 at 2024. |
| 32 | ECS5620EC-154 | c873188b | Disable encryption "3DES" and "SHA 1 hash" on all Simba projects |
| 33 | ECS5620EC-161 | c873188b | Disable tls 1.0 because a security breach was detected |
| 34 | ECS5620EC-163 | c7319d50 | ssh\telnet client support backdoor research and analysis |
| 35 | ECS5620EC-162 | 6b05aa14 | Rate limit and meter: The rate limit mode is changed from L1 to L2 |
| 36 | ECS5620EC-146 | 69cfe4fc | We have tried configuring ipv6 on switch ECS 5520-18X with version 1.1.60.194 and also tried with latest version but we are unable to configure ipv6 on switch |
| 37 | ECS5620EC-150 | 69cfe4fc | DoS-Protection: Web help page does not have description of LAND Attack |
| 38 | ECS5520EC-353 | bb5aca71 | ECS5520 pahse3 support mgmtd |
| 39 | ECS5520EC-355 | 4a60fe9f | Enhancement: traffic segmentation uplink requirement |
| 40 | ECS5520EC-357 | 4a60fe9f | Porting TWAMP Function |
| 41 | ECS5520EC-352 | f17cfdc8 | Add the logging command command |
| 42 | ECS5520EC-351 | f17cfdc8 | Added command lines and MIB related to ip dhcp relay |
| 43 | ECS5520EC-350 | f17cfdc8 | Add a reset configure command |
| 44 | ECS5520EC-349 | f17cfdc8 | Added the process of receiving and sending packets and added MIB and web |
| 45 | ECS5520EC-362 | 9c15e899 | Enhancement：SFP module wavelength is not shown for Saimaa. |
| 46 | ECS5520EC-363 | 795e03a8 | Unable to save Sflow configuration |
| 47 | ECS5520EC-364 | 795e03a8 | sflow cancel Timeout |
| 48 | ECS5520EC-365 | 795e03a8 | DAI:The range of port rate limit is wrong |
| 49 | ECS5520EC-366 | 795e03a8 | Static Route: After we add and delete some static routes, it cannot create maximum 512 routes on DUT |
| 50 | ECS5520EC-367 | e07a37f9 | ECS5520 should support 24 selective QinQ Vlan per port phase3 |
| 5152 | ECS5520EC-368 | e07a37f9 | Disable openssl ssl2/ssl3 function for ECS5520 phase3 |
| 53 | ECS5520EC-369 | be5139612f29e72815f2b26f | ECS5520 as distribution switch issue with SVLAN-tagging(Phase3) |
| 54 | ECS5520EC-371 | e07a37f9 | Radsec (enahncemnet) for Phase3 |
| 55 | ECS5520EC-360 | bad47f9 | GVRP-PDU-0600:The DUT can not register the VID specified in Step 3 on the Port to which Packet Capture/Generator of port 1 is connected |
| 56 | ECS5520EC-358 | bad47f9 | Set prompt with 32 characters will trigger exception |
| 57 | ECS5520EC-157 | b009bec0 | We have tried configuring ipv6 on switch ECS 5520-18X with version 1.1.60.194 and also tried with latest version but we are unable to configure ipv6 on switch |
| 58 | ECS5520EC-372 |  | RMON: Got big counters after clear counters |
| 59 | ECS5520EC-373 | c758157f2bd77c1f738b47e0 | ECS5520 Phase 3 support function profile license |
| 60 | ECS5520EC-354 | d25266a6 | ECS5520 Phase3 support function profile function |
| 61 | ECS5520EC-393 | e4e844d0 | system up time over 496 days will reset [Phase3] |

**Runtime V1.1.2.221, Loader V0.0.2.2**

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| --- | --- | --- | --- |
| 1 | ECS5620EC-90 | 0dbc7d40 | SW Watchdog Timeout due to thread GVRP\_GROUP |
| ~~2~~ | ~~ECS5620EC-66~~ | ~~65a86f25~~ | ~~RIP: The mib will continue get the 172.1.1.10 information and not stop~~ |
| ~~3~~ | ~~ECS5620EC-63~~ | ~~65a86f25~~ | ~~Ripng: The console will pop the double information of prompt when enter the tab key~~ |
| ~~4~~ | ~~ECS5620EC-75~~ | ~~eeacc693~~ | ~~PIM6-SM: Enable PIM6-SM and MLD PROXY ON DUT:it occur exception and rebooting itself as it receives MLD report.~~ |
| ~~5~~ | ~~ECS5620EC-67~~ | ~~1bd0fe2e~~ | ~~MLDV2: Timer is wrong when the registered group in include mode receives TO\_EX(4) report~~ |
| ~~6~~ | ~~ECS5620EC-88~~ | ~~a49b9ee7~~ | ~~Cluster:Cluster commander can't relay snmp notfication~~ |
| ~~7~~ | ~~ECS5620EC-83~~ |  | ~~WEB: There is not any routing protocol description in help page.~~ |
| 8 | ~~ECS5620EC-79~~ | ~~8392b944~~ | ~~Web\_help: Routing Protocol has no web help page.~~ |
| 9 | ~~ECS5620EC-85~~ |  | ~~Mroute\_mib: Some values are wrong when get mrout mmib~~ |
| ~~10~~ | ~~ECS5620EC-84~~ | ~~905efef4~~ | ~~PIM-DM\_MIB: Result is wrong when set hello interval from mib~~ |
| ~~11~~ | ~~ECS5620EC-82~~ | ~~905efef4~~ | ~~PIM-DM\_web: Exception error when click multicast routing show detail~~ |
| ~~12~~ | ~~ECS5620EC-81~~ | ~~905efef4~~ | ~~PIM6-DM\_web: IPv6 multicast routing detail can not be showed~~ |
| ~~13~~ | ~~ECS5620EC-80~~ | ~~b8690467~~ | ~~PIM6-DM\_web: PIM neighbor information can not be showed in Neighbor page~~ |
| ~~14~~ | ~~ECS5620EC-74~~ | ~~c9136e68~~ | ~~There is no "rcommand" command for IP-Cluster~~ |
| ~~15~~ | ~~ECS5620EC-60~~ | ~~c9136e68~~ | ~~VRRP: Cannot ping the VRRP ip address~~ |

**Runtime V1.1.1.214, Loader V0.0.2.2**

|  |  |  |  |
| --- | --- | --- | --- |
| ~~1~~ | ~~ECS5620EC-48~~ | ~~4bf7cc97~~ | ~~GVRP：The DUT can not register the VID bigger than 256~~ |
| ~~2~~ | 1. ~~ECS5620EC-45~~
 |  | ~~Missing command "show ip prefix-list"~~ |
| ~~3~~ | ~~ECS5620EC-47~~ | ~~0ab8dc19~~ | ~~After saving the configuration and restarting the DUT,the community-list cannot be deleted~~ |
| ~~4~~ | ~~ECS5620EC-42~~ | ~~1ec08a64~~ | ~~support license for 5620~~ |
| ~~5~~ | ~~ECS5620EC-52~~ | ~~8031cbd4~~ | ~~command "set extcommunity rt" cause crash~~ |

**Runtime V1.1.0.214 base on ECS5520 phase2 V1.2.9.204, Loader V0.0.2.2**

|  |  |  |  |
| --- | --- | --- | --- |
| ~~1~~ | ~~ECS5620EC-13~~ | ~~d3083ad5a~~ | ~~Porting modify in kerner about igmp from AS3000~~ |
| ~~2~~ | ~~ECS5620EC-8~~ |  | ~~Create ECS5620 code branch and PBE~~ |
| ~~3~~ | ~~ECS5620EC-9~~ |  | ~~From 5520 uboot branch checkout new branch 5620~~ |
| ~~4~~ | ~~ECS5620EC-10~~ |  | ~~ECS5620 startup crash duo to driver\_group~~ |
| ~~5~~ | 1. [~~ECS5620EC-14~~](https://jira.accton.com:8443/browse/ECS5620EC-14)
 | ~~4dc87a04~~ | ~~ECS5620(L3) support BGP4+ function and add CLI/web/mib~~ |
| ~~6~~ | [~~ECS5620EC-1~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~5~~ | ~~4dc87a04~~ | ~~ECS5620(L3) support OSPF function and add CLI/web/mib~~ |
| ~~7~~ | [~~ECS5620EC-1~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~6~~ | ~~a5cbfa84~~ | ~~ECS5620(L3) support RIP v1/v2 function and add CLI/web/mib~~ |
| ~~8~~ | [~~ECS5620EC-1~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~8~~ | ~~02715434~~ | ~~ECS5620(L3) support IGMP function and add CLI/web/mib on Multicast Routing~~ |
| ~~9~~ | [~~ECS5620EC-1~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~9~~ | ~~02715434~~ | ~~ECS5620(L3) support PIM-DM & PIM-SM function and add CLI/web/mib~~ |
| ~~10~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~20~~ | ~~1867825e~~ | ~~ECS5620(L3) support VRRP RFC3768 function and add CLI/web/mib~~ |
| ~~11~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~21~~ | ~~28a9b145~~ | ~~ECS5620(L3) support UDP Helper function and add CLI/web/mib~~ |
| ~~12~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~22~~ |  | ~~ECS5620(L3) support OSPFv3 function and add CLI/web/mib~~ |
| ~~13~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~23~~ | ~~cab41ec4~~ | ~~ECS5620(L3) support RIPng function and add CLI~~ |
| ~~14~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~24~~ | ~~02715434~~ | ~~ECS5620(L3) support PIM-DM6/SM6 function and add CLI/web/mib on ipv6~~ |
| ~~15~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~25~~ | ~~02715434~~ | ~~support MLD v1/V2 function and add CLI/web~~ |
| ~~16~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~26~~ | ~~59dae870~~ | ~~ECS5620(L3) support DHCPINFO function and add CLI/web/mib~~ |
| ~~17~~ | [~~ECS5620EC-~~](https://jira.accton.com:8443/browse/ECS5620EC-14)~~27~~ | ~~6b837a2f~~ | ~~ECS5620(L3) support IP Clustering function and add CLI/web/mib~~ |
| 18 | ECS5620EC-29 | cd39b102 | porting ECS5520EC-125&ECS5520EC-136&ECS5520EC-131&ECS5520EC-127&ECS5520EC-13 |
| 19 | ECS5620EC-30 | 464d2e23 | porting ECS5520EC-143&ECS5520EC-144&ECS5520EC-142&ECS5520EC-148 |
| 20 | ECS5620EC-31 | ec5a841a | ping fail through MLAG system.porting from ECS5520EC-25. |
| 21 | ECS5620EC-32 | 8f0a65e9 | MLD snooping will cause 'Multicast Listener Query' checksum error |
| 22 | ~~ECS5620EC-33~~ |  | ~~RIP:when config network,some configuration will not show run~~ |

**modifications:**

**Loader V0.0.0.4**

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

**Runtime V1.2.0.201**

|  |  |
| --- | --- |
|  | 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.

1. DHCPv6 Relay: DUT show exception as change this muticast destination address to All from VLAN.
2. EEE: Power-save does not work (The result is the same however it's enabled/disabled.

**Known RESTRICITIONS AND Limitations:**

|  |  |  |
| --- | --- | --- |
|  | Limitation Type | Description |
| 1 | Board limitation | Does not support Auto-nego on all port, due to this need dedicated/external cpu on board.(Drake or AC3 can support 802.3ap on their XG interfaces, but the criteria is using external CPU and interior processor core will run the firmware to handle AP.) |
| 2 | Chip limitation | Bridge FDB(L2), Multicast and Router IPv4/6 Host entries share the same 64K. |
| 3 | Chip limitation | FDB use hash algorithm to locate needed index for the pkt. It will happen collision in some case. |
| 4 | Chip limitation | Configuration of the length of the hash chain for address loopkups in FDB table to a value different than 0 can result in perfomance degradation. (Table 529: FDB Global Configuration Register. Bit 2:0) |
| 5 | 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. |
| 6 | Chip limitation | EEE (802.3az, Cable Length), it's PHY's functionality. Only support copper front port. |
| 7 | Chip limitation | Broadcast/Multicast/UnknownUnicast Storm Control use the same configuration of rate limit. |
| 8 | Software limitation | Web Authentication only support IPv4 HTTP |
| 9 | Software limitation | Due to Jquery software limitation. The web browser need IE 9+, Chrome 54+, Firefox 52+ or Opera 41+. |
| 10 | 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] |
| 11 | Chip limitation | The mirror function will mirror the voice vlan packet which before modified the priority. (Detail in ECS5520-18X-00138) |
| 12 | Chip limitation | Cannot config any value of CIR and CBS in chip. When configuring cir and cbs，you can identify the scope and unit of configuration for cir/cbs according to the cir exception configuration. Following table describes details for this, you can get more skillful cbs configuration by the actual tests. (ECS5520-18X-00119, ECS5520-18X-00120, ECS5520-18X-00177) |
| 13 | Software limitation | web-auth only support http and port 80. (ECS5520-18X-00175) |
| 14 | Hardware limitation | 10G DAC only support 0.2M/1M/3M/5M. 40G DAC only support 1M/3M. |
| 15 | Software limitation | The speed of syncing mac address table is not immediately. The full 64K entries need spend 5.5~6 minutes with appending 60~70% cpu utilization. |
| 16 | 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. (ECS5520-18X-00335) |
| 17 | Chip limitation | For Drake chip, it can not bind a policy-map with remark DCSP for yellow or red packet on egress port. (ECS5520-18X-00246) |
| 18 | Chip limitation | For the rate limit of CPU Guard, the implementation in chip is bps. The actual rate is pps\*MTUsize(Default is 1536. 10240 when Jumbo frame enable). (ECS5520-18X-00232) |
| 19 | Phy chip limitation | Due to Phy 3240(port 1~16) do not support close auto negotiation on 1G and 10G, so only force speed and duplex to 100M/10M(full/half)。 （Datasheet 4.6.1 has detail description） |
| 20 | Phy chip limitation | 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 ECS5520-18T/18TT) |
| 21 | Phy chip limitation | When test the VCT(cable diagnostic), no matter which speed，must be use CAT6A Cable, and The accuracy is +/-10m; When use long normal cable couse port down, must also be use CAT6A Cable.xxxxxx |
| 22 | SW limitation | ACL rule total is 18K-128\*6, but TTI and PCL each account for half, due TTI Not used, now all TTI resources are allocated to PCL, and TTI Only can use 128\*6 resources： Use TTI support double-tag function with untagged frames. |
| 23 | SW limitation | The Double-tag function must be used in conjunction with “switchport allow vlan add VID double-tag”, and the VID is the Native vlan for configuring the port of Double-tag function, otherwise will be affected unpredictably for this vid, carry internal vid is 0 or carry three VLAN tags.( [ECS5520EC-444](https://jira.accton.com:8443/browse/ECS5520EC-444)) |

**Compliance support:**

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

Known Anomalies: None.

**IEEE Standards Support:**

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

**IETF Standards MIB Support:**

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

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

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

**ECS5520 SERIES Private Enterprise MIB Support:**

|  |  |
| --- | --- |
| **Title** | Version |
| ECS5520\_202307230000Z.mib | 202307230000Z |

**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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