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| version | V2.03.69R |
| date | 2020-04-16 |

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| item | The description of the release and its new features |
| 1 | Add inform control for deregister and rtt drift event  onu dereg-rtt-drift-print [disable|enable] |
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| version | V2.03.69R |
| date | 2020-04-08 |

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| item | The description of the release and its new features |
| 1 | restore the storm control back to 512 |
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| version | V2.03.69R |
| date | 2020-03-17 |

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| item | The description of the release and its new features |
| 1 | Set the rtt drift check to disabled state at default  pon rtt-drift 0 |
| 2 | Add configuration for rtt drift allowed value from 1 to 255  pon rtt-drift <0-255> |
| 3 | Add configuration for MPCP Timer value from 10 to 65535  pon mpcp-timer <10-65535> |

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| version | V2.03.68R |
| date | 2020-03-06 |

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| item | The description of the release and its new features |
| 1 | solve the compatibility problem of the ipv4 and ipv6 wan interface |
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| 3 |  |

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| version | V2.03.67R |
| date | 2020-02-24 |

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| item | The description of the release and its new features |
| 1 | Support Captcha for web login |
| 2 | Support the default admin login password after upgrading firmware as syRotech bnsl password |
| 3 | Update the openssl from V1.0.0e to V1.0.2p |
| 4 | Block illegal dhcp server protocol data traffic from onu. |
| 5 | Config Storm Control 10000 for broadcast |
| 6 | NTP server should be enable by default Indian server GMT +5.30 ,ip address by default 216.239 35.4 |
| 7 | Password verification  1.The password must contain at least 6 characters.  2.The password must contain at least two of the following combinations：Digit, Uppercase letter, Lowercase letter, Special characters (. : - \_ / @ ! ~ # $ % ^ & \* ( ) + = ? \ | [ { } ] ; ' " < , > ` ).  3.The password can not be any user name. |

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| version | V2.03.66R |
| date | 2020-02-20 |

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| item | The description of the release and its new features |
| 1 | Support https at default |
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| version | V2.03.66R |
| date | 2020-02-17 |

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| item | The description of the release and its new features |
| 1 | Support V1600D8 PCB V2.1 |
| 2 | Enable SSHv2 at default |
| 3 | Inform user to change a new password if they use a default password |
| 4 | Support to modify the protocol port for snmp,web,telnet,ssh  CLI: [snmp|web|telnet|ssh] port <1-65535>  Web: system configuration->login management->service port |
| 5 | Enable sshv2,web,snmpv2,disable telnet at default |

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| version | V2.03.65R |
| date | 2019-12-11 |

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| item | The description of the release and its new features |
| 1 | Improve the stability of the connection between pon chip and switch |
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| version | V2.03.64R |
| date | 2019-12-02 |

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| item | The description of the release and its new features |
| 1 | The maximum mtu of ppooe is 1492 |
| 2 | The default mtu is 1500 except for pppoe |
| 3 | Support the wan connection configuration in new ems |

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| version | V2.03.64R |
| date | 2019-11-29 |

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| item | The description of the release and its new features |
| 1 | Support the mtu for wan connection |
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| version | V2.03.64R |
| date | 2019-11-22 |

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| item | The description of the release and its new features |
| 1 | Fix the memory leakage issue because of the igmp snooping mistake |
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| version | V2.03.63R |
| date | 2019-11-14 |

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| item | The description of the release and its new features |
| 1 | Support vlan range configuration for dhcp snooping vlan  dhcp-snooping vlan <1-4095> - <1-4094> |
| 2 | Support default hardware mode for TenGigabit interface |

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| version | V2.03.63R |
| date | 2019-11-06 |

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| item | The description of the release and its new features |
| 1 | Fixd a snmp operation memory leakage |
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| version | V2.03.63R |
| date | 2019-11-01 |

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| item | The description of the release and its new features |
| 1 | Support new B/S EMS, add private tcp client to communicate with b/s system. |
| 2 | Fix some issues for type-b PON redundant protection |
| 3 | Support web tacacs |

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| version | V2.03.63R |
| date | 2019-10-14 |

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| item | The description of the release and its new features |
| 1 | Support IPv6 Ripng |
| 2 | Support IPv6 Ospfv6 |
| 3 | Support 802.1x |
| 4 | Support Type-B PON redundant protection |

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| version | V2.03.62R |
| date | 2019-09-26 |

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| item | The description of the release and its new features |
| 1 | Support the new V1600D4-DP EPON olt |
| 2 | Support user authentication in web login |
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| version | V2.03.62R |
| date | 2019-09-20 |

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| item | The description of the release and its new features |
| 1 | Fix the bug that the TenGigabit port in Ge mode can not link up |
| 2 | Support the B/S Cloud EMS |
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| version | V2.03.62R |
| date | 2019-09-19 |

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| item | The description of the release and its new features |
| 1 | Fix the bug that the ssh authentication failed when ssh login |
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| version | V2.03.62R |
| date | 2019-09-17 |

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| item | The description of the release and its new features |
| 1 | Fix the bug that the ssh can not be used when the telnet is disable |
| 2 | Improve the mstp according to test result |
| 3 |  |

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| version | V2.03.62R |
| date | 2019-09-11 |

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| item | The description of the release and its new features |
| 1 | Support VSOL MAC OUI for inter-locking |
| 2 | Support Cloud-EMS |
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| version | V2.03.62R |
| date | 2019-08-26 |

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| item | The description of the release and its new features |
| 1 | Support radius server |
| 2 | Support Gigabit auto-negotiation |
| 3 | Support mstp |

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| version | V2.03.61R |
| date | 2019-07-29 |

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| item | The description of the release and its new features |
| 1 | Support syRotech inter-locking rule |
| 2 | Support new V1600D16 pcb design |
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| version | V2.03.60R |
| date | 2019-07-16 |

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| item | The description of the release and its new features |
| 1 | Improve the loopback feature |
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| version | V2.03.60R |
| date | 2019-07-06 |

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| item | The description of the release and its new features |
| 1 | Add DNS support for ping command |
| 2 | Close the access to kernel by telnet |
| 3 | Support the mac flapping and link flapping |

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| version | V2.03.59R |
| date | 2019-06-12 |

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| item | The description of the release and its new features |
| 1 | Revise the bug that the QoS is not valid for wan connection |
| 2 | Disdinguish which is simple epon or dual mode for v2801rw according the software version number |
| 3 | Support the private oam sip domain configuration in web |

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| version | V2.03.58R |
| date | 2019-05-20 |

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| item | The description of the release and its new features |
| 1 | Support SSHv1 and SSHv2 |
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| version | V2.03.58R |
| date | 2019-05-09 |

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| item | The description of the release and its new features |
| 1 | Add the config saveing for no enable password |
| 2 | Support TACACS Client |
| 3 | Improve the TenGigabit link ability |

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| version | V2.03.57 |
| date | 2019-03-22 |

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| item | The description of the release and its new features |
| 1 | Fix the link issue for 10GE port |
| 2 | Add ip source guard for dhcp snooping |
| 3 | Fix some bugs for ospf protocol |
| 4 | Add private oam configuration for wan and wifi |
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| version | V2.03.56R |
| date | 2019-02-21 |

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| item | The description of the release and its new features |
| 1 | Fix the issue of rstp for 10GE port, it will lead to loopback problem |
| 2 | Support Chinese and English for web management |
| 3 | Support DHCP Option82 new mode for some special usage |

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| version | V2.03.55R |
| date | 2019-01-12 |

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| item | The description of the release and its new features |
| 1 | Add IPv6 support for onu management |
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| version | V2.03.54R |
| date | 2018-12-21 |

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| item | The description of the release and its new features |
| 1 | Improve the lacp for one port channel group |
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| version | V2.03.54R |
| date | 2018-12-05 |

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| item | The description of the release and its new features |
| 1 | Support to transmit the ospf packet |
| 2 | Support to transmit the rstp packet when the rstp protocol is not enabled |
| 3 | Improve the 10G interface auto-negotiation ,it will negotiate to 1000M |

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| version | V2.03.53 |
| date | 2018-11-02 |

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| item | The description of the release and its new features |
| 1 | Fix the bug of the interface configuration, which can not save the setting. |
| 2 | Improve the web connection, it will be operated fastly |
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| version | V2.03.52 |
| date | 2018-09-30 |

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| item | The description of the release and its new features |
| 1 | Support the vlan range in QinQ |
| 2 | Support the QinQ based on the cvlan, pon port ,protocol |
| 3 | Fix a bug for downloading firmware,it can cause a img fail |

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| version | V2.03.52 |
| date | 2018-09-28 |

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| item | The description of the release and its new features |
| 1 | Support IPv6 |
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| version | V2.03.51 |
| date | 2018-09-03 |

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| item | The description of the release and its new features |
| 1 | Support the dynamic lacp |
| 2 | Add redundant detection for V1600D8 olt |
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| version | V2.03.50 |
| date | 2018-08-02 |

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| item | The description of the release and its new features |
| 1 | Support the onu limit and running time limit  set license key <string> time-limit <0-2678400> {onu-limit <64-1024>}\*1  set license key <string> onu-limit <64-1024> |
| 2 | Support the authentication code for onu limit and running time limit  epon-olt(config)#exec fw\_setenv authkey \*\*\*  epon-olt(config)#exec fw\_printenv authkey |
| 3 | Support the https for web management |

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| version | V2.03.50 |
| date | 2018-07-24 |

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| item | The description of the release and its new features |
| 1 | Fix the NTP issue which may cause the onu online time count error |
| 2 | Add the function to delete the off-line onu when the off-ine timer is timeout  onu auto-undo-auth [enable] timeout <60-604800> onu auto-undo-auth [disable] |
| 3 | Add the olt license function,which can control the onu regisger numner and the onu on-line time |
| 4 | Add the function to set olt uplink port ‘s speed and duplex on web page |
| 5 | Add the function to show onu distance on the onu optical power page |
| 6 | Add the function to delete the off-line onu by onu id or Selectively  from pon one by one  no onu auth all offline  no on auth offline <onu\_list> |
| 7 | Fix the issue to show pon sfp module tx power even if there is not any onu on-line |

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| version | V2.03.49 |
| date | 2018-06-14 |

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| item | The description of the release and its new features |
| 1 | Improve the high cpu usage, use my\_system instead of system |
| 2 | Improve the loopback, which has a memory leak when a port is link down |
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| version | V2.03.48 |
| date | 2018-05-29 |

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| item | The description of the release and its new features |
| 1 | Upgrate the web server from V2.5.0 to V4.0.1 |
| 2 | Change the web socket re-connect time from fifteen minutes to one and a half minutes when the socket is blocked |
| 3 | Add the TCP client for remote ems  remote server address A.B.C.D {port <1-65535>}\*1 |
| 4 | Add closing telnet connection vty <0-65535> close |

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| version | V2.03.47 |
| date | 2018-05-21 |

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| item | The description of the release and its new features |
| 1 | Fix a bug for the running time, the running will be reset to zero when you set the date and time |
| 2 | Improve the snmp access traffic operation, this operation will result in  the cpu state of 100 percent utilization rate |
| 3 | Close the dhcp client because it may result in the dhcp relay operation in web and cli holding on |

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| version | V2.03.46 |
| date | 2018-04-26 |

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| item | The description of the release and its new features |
| 1 | Change the dhcp snooping restriction from the mac to mac+vlan |
| 2 | Fix the bug about the web operation, the web will hold on when you list the mac table at web |
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| version | V2.03.45 |
| date | 2018-04-01 |

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| item | The description of the release and its new features |
| 1 | The Web Logo can be downloaded into olt by tftp,  the logo file is 200 x 80  download tftp web-logo <filename> <A.B.C.D>  erase web-logo, erase the web logo file  show web-logo |
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| version | V2.03.44 |
| date | 2018-03-27 |

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| item | The description of the release and its new features |
| 1 | Olt records the mac conflict information when there is a event of the mac conflict, doesn’t add the onu into the black list |
| 2 | Fix a bug in oun vlan web page |
| 3 | Add core\_ip web logo  set web log core\_ip |

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| version | V2.03.43 |
| date | 2018-02-27 |

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| item | The description of the release and its new features |
| 1 | Support the authentication between the olt and onu |
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| version | V2.03.42 |
| date | 2018-02-23 |

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| item | The description of the release and its new features |
| 1 | Add the olt provider information ad web page for dbc |
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| version | V2.03.42 |
| date | 2018-01-20 |

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| item | The description of the release and its new features |
| 1 | Add a command for the loopback mode configuration  loopback detect enable uplink|pon|all |
| 2 | Add a command to select loopback check for each port  loopback [enable|diable] |
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| version | V2.03.41 |
| date | 2018-01-05 |

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| item | The description of the release and its new features |
| 1 | The olt will shutdown the pon port when there is a onu, which has a loopback event. |
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| version | V2.03.40 |
| date | 2017-12-26 |

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| item | The description of the release and its new features |
| 1 | the loopback is in onu mode, not in pon port mode |
| 2 | When the startup is time out, the aux will be opened, the initialized pon ports will be in work mode. |
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| version | V2.03.39 |
| date | 2017-12-12 |

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| item | The description of the release and its new features |
| 1 | Add a command to select a web page logo at the debug mode  epon-olt(debug-mode)# set web logo none  this is a command to select a neutral web page logo |
| 2 | Fix the bug of the de-register onu, this will cause the onu invalid. |
| 3 | The olt will close the pon port when there is a loopback between a uplink and a pon |

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| version | V2.03.38 |
| date | 2017-12-11 |

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| item | The description of the release and its new features |
| 1 | The version for CS8022 upgrade to V4.2.7.61 |
| 2 | Don’t delete the onu configurations when the olt fails to send the configurations to the onu |
| 3 | Add a cli command to query the failed download configurations  epon-olt(config-pon-0/1)# show running-config error onu |
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| version | V2.03.37 |
| date | 2017-11-28 |

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| item | The description of the release and its new features |
| 1 | Fix a bug for ntp,it causes cpu usage uo to 100％ |
| 2 | Add a command for pon whether to offline the onu when the system cpu receives a pon los event.  pon down clear record [enable|disable] |
| 3 | Fix a questionable ways when a onu is time out |

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| version | V2.03.36 |
| date | 2017-11-09 |

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| item | The description of the release and its new features |
| 1 | Change the default web logout time to ten minutes  web login timeout <1-30>  show web login timeout |
| 2 | Add the command to show all interface’s information  show interface breif |
| 3 | Add the onu’s distance information in onu status command  show onu status all |

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| version | V2.03.35 |
| date | 2017-10-17 |

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| item | The description of the release and its new features |
| 1 | Support neuter vendor and module id |
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| version | V2.03.34 |
| date | 2017-10-17 |

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| item | The description of the release and its new features |
| 1 | Add user’s authority level in web management |
| 2 | Add a command to check the olt type  epon-olt(debug-mode)# show global information |
| 3 |  |

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| version | V2.03.33 |
| date | 2017-10-11 |

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| item | The description of the release and its new features |
| 1 | Support V.SOL web logo |
| 2 | Fixed 10G interface information error |
| 3 |  |
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| version | V2.03.32 |
| date | 2017-08-24 |

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| item | The description of the release and its new features |
| 1 | Add loopback detection, the following is the configuration commands:  loopback detect enable  no loopback detect  loopback mode [only-alarm|manual-recovery]  loopback aging-time <30-3600>  show loopback detect  onu black-mac-auth del <mac> or onu black-mac-auth clean |
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| version | V2.03.31 |
| date | 2017-08-04 |

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| item | The description of the release and its new features |
| 1 | Add allowed functions for web ,snmp and telnet management ip  login-access-list [enable|disable]  login-access-list [permit|deny] [telnet|web|snmp] <A.B.C.D> <A.B.C.D>  the permit priority is higher than the deny priority |
| 2 | Support the third party catv control  onu catv packet [cdcom|bdcom|ftcom] |
| 3 | Support dude monitor software |
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| version | V2.03.30 |
| date | 2017-06-16 |

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| item | The description of the release and its new features |
| 1 | Fix the bug for 10G port, cann’t ping the vlan interface ip from the 10G port |
| 2 | Update the web server |
| 3 | Fix the ping program statistic issue |
| 4 |  |

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| version | V2.03.29 |
| date | 2017-05-09 |

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| item | The description of the release and its new features |
| 1 | The onu will quit when it’s oam registration is time out |
| 2 | Fix the issue of onu reboot when olt snmp gets onu’s optical power value |
| 3 | Add a command for changing http port  httpd port <1-65535> |
| 4 |  |

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| version | V2.03.28 |
| date | 2017-04-13 |

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| item | The description of the release and its new features |
| 1 | Reduce the cpu utilization by optimizing application code |
| 2 | Add mac address limit for a llid under a pon interface  onu <1-65535> [mac-limit] <0-16383> |
| 3 |  |
| 4 |  |

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| version | V2.03.27 |
| date | 2017-03-30 |

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| item | The description of the release and its new features |
| 1 | Add an extend command for non standard oam onu  **onu ext-support check [enable|disable]**, default is enable |
| 2 | Add some CLI command to show olt or onu’s information based on a special interface |
| 3 | Support the olt V1600D16 |
| 4 | Fix the web disconnect issue |

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| version | V2.03.26 |
| date | 2017-03-11 |

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| item | The description of the release and its new features |
| 1 | Add the auto-bind profile for onus in a pon port  **onu [auto-bind] profile [dba|srv|voip|alarm] id <0-32767>**  **show onu [auto-bind] [profile\_id]** |
| 2 | Find the host mac position |
| 3 | Can show the time of onu register, deregister and running |
| 4 | Support the onu with a invalid source mac |
| 5 | Support the third party tool software such as MRTG and syslog |
| 6 | Provide onu’s informations about register, deregister, the reason of deregister and running time |

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| version | V2.03.25 |
| date | 2017-02-08 |

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| item | The description of the release and its new features |
| 1 | Fix a bugs for a reserved source mac address |
| 2 | Remove the Broadcom chip information |

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| version | V2.03.24 |
| date | 2017-01-18 |

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| item | The description of the release and its new features |
| 1 | Fix some bugs from new web test |
| 2 | Fixed a null pointer inV2.03.22 and V2.03.23 |

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| version | V2.03.23 |
| date | 2016-12-07 |

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| item | The description of the release and its new features |
| 1 | Add dhcp server management for onu |
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| version | V2.03.22 |
| date | 2016-12-07 |

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| item | The description of the release and its new features |
| 1 | Add dhcp server management for onu |
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| version | V2.03.21 |
| date | 2016-11-28 |

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| item | The description of the release and its new features |
| 1 | The new style web management |
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| version | V2.03.20 |
| date | 2016-11-22 |

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| item | The description of the release and its new features |
| 1 | The WAN connect is not effective at the first time |
| 2 | Fixed a wrong snmp object id |
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| version | V2.03.19 |
| date | 2016-10-20 |

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| item | The description of the release and its new features |
| 1 | Add WAN and WiFi management on WEB for V2801HW |
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| version | V2.03.18 |
| date | 2016-10-10 |

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| item | The description of the release and its new features |
| 1 | Improve the sfp port auto-negotiation for 1000M |
| 2 | Modify the onu type name according to it’s capability |
| 3 | Improve some system cmd for telnet operation |
| 4 | Improve the vlan interface ip revise operation |
| 5 | Add the force auto-update for onu firmware |

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| version | V2.03.17 |
| date | 2016-09-19 |

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| item | The description of the release and its new features |
| 1 | Add the function to show onu mac address under a pon port |
| 2 | Add a turn on-off for a pon port to check whether a onu is laser on or off automatically |
| 3 | Improve the oam process for the fault that the pon chip doesn’t send oam packet to cpu |
| 4 | Add the c-date catv module control |

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| version | V2.03.16 |
| date | 2016-08-31 |

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| item | The description of the release and its new features |
| 1 | Adapt other company’s onu when it cann’t finish the  Oam version autonegation ,otherwise it will be in busy state |
| 2 | Add onu registration protection mechanism, Olt will restart onu registration when it is over five minutes |
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| version | V2.03.15 |
| date | 2016-08-25 |

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| item | The description of the release and its new features |
| 1 | modify some web display information errors |
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| version | V2.03.15 |
| date | 2016-08-12 |

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| item | The description of the release and its new features |
| 1 | Adapt the wrong version number for V2801HW |
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| version | V2.03.15 |
| date | 2016-08-9 |

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| item | The description of the release and its new features |
| 1 | Improve the onu response when a onu return a value 0x0,change it to 0x86,it means that the attribute or the action is invalid. |
| 2 | Add user management in web |
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| version | V2.03.14 |
| date | 2016-08-01 |

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| item | The description of the release and its new features |
| 1 | Change the time of the onu bandwidth assignment, when a onu is authenticated, the olt will assign the bandwidth for it |
| 2 | Improve the oam communication mechanism |
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| version | V2.03.13 |
| date | 2016-07-28 |

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| item | The description of the release and its new features |
| 1 | Add web management |
| 2 | Add update the onu firmware automatically |
| 3 | Fix olt oam process when onu responses a wrong oam |
| 4 | Fix a bug for saveing default user password issue |

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| version | V2.03.12 |
| date | 2016-05-11 |

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| item | The description of the release and its new features |
| 1 | Fixed a bug for onu mac authentication |
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| version | V2.03.11 |
| date | 2016-04-29 |

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| item | The description of the release and its new features |
| 1 | Add a state for ems system when a onu finished it’s register |
| 2 | Fixed a CLI login bug for character ‘!’,you can go into config mode when you input the character ‘!’ |
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| version | V2.03.10 |
| date | 2016-04-15 |

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| item | The description of the release and its new features |
| 1 | improve onu register process because this problem will cause the OLT does not respond to onu |
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| version | V2.03.09 |
| date | 2016-03-29 |

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| item | The description of the release and its new features |
| 1 | Fixed a bug for deleting a onu operation, the onu can not register if do not reboot the olt |
| 2 | Add a command to show all onu’s receive power in a pon |
| 3 | the acl rule can be used in Multiple ports |

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| version | V2.03.08 |
| date | 2016-03-23 |

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| item | The description of the release and its new features |
| 1 | Fixed some operations for ems management |
| 2 | Add olt serial number and mac authentication |

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| version | V2.03.07 |
| date | 2016-03-01 |

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| item | The description of the release and its new features |
| 1 | Add ONU communication for the same pon port |
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| version | V2.03.06 |
| date | 2016-02-26 |

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| item | The description of the release and its new features |
| 1 | Add private oam for CATV,WIFI management |
| 2 | Add DHCP Server, DHCP Relay, DHCP SNOOPING |

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| version | V2.03.05 |
| date | 2016-01-13 |

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| item | The description of the release and its new features |
| 1 | Change l2ftp timeout from 15s to 30s to avoid re-sending image block |
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| version | V2.03.04 |
| date | 2016-01-4 |

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| item | The description of the release and its new features |
| 1 | Disable automatic conntrack |
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| version | V2.03.03 |
| date | 2015-12-30 |

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| item | The description of the release and its new features |
| 1 | Fix some issues for EMS service profile configuration |
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| version | V2.03.01 |
| date | 2015-12-21 |

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| item | The description of the release and its new features |
| 1 | Add OLT type hardware identification,so D2,D4,D8 will use the same firmware |
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| version | V1.03.49 |
| date | 2015-12-14 |

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| item | The description of the release and its new features |
| 1 | Fix a issue for HG323UE register link lose |
| 2 | Use olt type string to identify what type of olt the olt is |
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| version | V1.03.45 |
| date | 2015-11-30 |

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| item | The description of the release and its new features |
| 1 | Change aux port bandwidth from 5M to 10M |
| 2 | Fix a issue for default onu type, it cann’t identify the known onu types |
| 3 | Cancel the aux brandwidth limit for aux download issue |

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| version | V1.03.43 |
| date | 2015-11-25 |

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| item | The description of the release and its new features |
| 1 | Fixed a upload configure file to tftp server issue |
| 2 | Improve the ctc extend oam discovery process |
| 3 | Add default onu type for 1GE,4GE,4FE,8FE |

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| version | V1.03.42 |
| date | 2015-11-12 |

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| item | The description of the release and its new features |
| 1 | Fixed a onu port issue for snmp process |
| 2 | Fixed a onu multicast vlan strip issue for snmp process |
| 3 | Add a re-transmission mechanism during the period of onu discovery |

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| version | V1.03.41 |
| date | 2015-11-3 |

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| item | The description of the release and its new features |
| 1 | Add the function to check the vlan ip address with the aux interface’s address whether or not the same |
| 2 | Save the ip route 0.0.0.0/0 configuration |
| 3 | Add the gateway for aux interface |
| 4 | Delete a port by switchport hybrid vlan 1 untagged,  Then save and reboot, the port will not has switchport hybrid vlan 1 untagged configuration |