

1- ISAM CLI

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1.1 History

This history section enumerates the CLI commands which are new, modified or removed between any two subsequent releases. No details are provided within this section. The command description, syntax and parameters for each new and modified command is in the Command Syntax section of the respective command in the CLI Command Guide. To know the difference between e.g R4.6 and R4.5, review the delta's of the releases R4.5.01 versus R4.5 and R4.5.02 versus R4.5.01 and R4.6 versus R4.5.02.

Command delta R6.2.04ng versus R6.2.04na

Modified Commands
configure voice sip isdn-nsm-prof (adding area code in CgPN for PRA terminating call and set TON for terminating calls)
configure voice sip termination (support Auto-answer with DTMF sending)
New Commands
configure voice sip call-query (allows the operator to manage the sip call query session)
show voice sip call-query (shows the status of call query session)
show voice sip call-query-result (shows the result of call query session)

Command delta R6.2.04na versus R6.2.04n

Modified Commands
admin voice sip l1-trans-statistics (renamed old parameter from l1-transport-statistic to l1-trans-statistics)
configure voice sip cas-timer-prof (renamed presense-fw-sig to presence-fw-sig, dely-dial-min-dur to delay-dial-min, dely-dial-max-dur to delay-dial-max, rg-recall-min-dur to reg-recall-min, rg-recall-max-dur to reg-recall-max)
configure voice sip ne-board cap-id (renamed old parameter cap to cap-id)
configure voice sip network-element cap-id (renamed old parameter cap to cap-id)
configure voice sip phys-itf (DID Channel Bank support for E1/T1 access)
configure voice sip statistics (removed parameter l1-trans-stats)
show voice sip cas-sig-prof (DID Channel Bank support for E1/T1 access)
show voice sip cas-timer-prof (DID Channel Bank support for E1/T1 access)
show voice sip l1-trans-statistics (renamed old parameter from l1-transport-statistic to l1-trans-statistics)
show voice sip ne-board (renamed old parameter cap to cap-id, network-element to ne-id)
New Commands
configure voice sip cas-sig-prof (DID Channel Bank support for E1/T1 access)
show voice sip cas-sig-prof (DID Channel Bank support for E1/T1 access)

Command delta R6.2.04n versus R6.2.04

Modified Commands

configure alarm entry (add alarm board-shelf-mismatch and softDSP co-existing with RPNI-E (norpniewithsoftdsp))
configure alarm filter filterid (updated alarm list)
configure trap manager (cleanup unused parameters)
configure trap v6manager (cleanup unused parameters)
configure voice sip lineid-syn-prof (Channel Bank support for E1/T1 access)
configure voice sip pri-cas-tksg-term (cleanup obsolete parameters)
show alarm query name (updated alarm list)
show alarm query plug-in-unit-ext (new alarm board-shelf-mismatch)
show alarm query sip-plugin-unit (new alarm for no rpni-e with soft dsp)
show voice sip pri-cas-tksg-term ()

New Commands

admin voice sip l1-trans-statistics (support cross NIAT-A LT with using centralized solution)
configure voice sip cap (support cross NIAT-A LT with using centralized solution)
configure voice sip cas-timer-prof (Channel Bank support for E1/T1 access)
configure voice sip ne-board (support cross NIAT-A LT with using centralized solution)
configure voice sip network-element (support cross NIAT-A LT with using centralized solution)
configure voice sip phys-itf (PRI support improvements)
show voice sip cas-timer-prof (Channel Bank support for E1/T1 access)
show voice sip l1-trans-statistics (support cross NIAT-A LT with using centralized solution)
show voice sip ne-board (support cross NIAT-A LT with using centralized solution)
show voice sip phys-itf (PRI support improvements)
show voice sip tksg (parameter tksg replaces tksg-ds0-status and tksg-op-data)

Removed Commands

show voice sip tksg-ds0-status (parameter tksg replaces tksg-ds0-status)
show voice sip tksg-op-data (parameter tksg replaces tksg-op-data)

Command delta R6.2.04 versus R6.2.03

Modified Commands

admin pon ber-stats (add support for up to 25G capable PON boards)
admin pon clear-alarm (add support for up to 25G capable PON boards)
admin pon diagnostic (add support for up to 25G capable PON boards)

admin pon reboot-all-ont (add support for up to 25G capable PON boards)
admin pon utilization (add support for up to 25G capable PON boards)
admin trouble-shooting pon interface (add support for up to 25G capable PON boards)
configure alarm entry (add alarm for LT backplane datalink failure ONT host IP allocation, ONT CRC error and TCA alarms)
configure alarm filter filterid (updated alarm list)
configure cfm domain association (update values for CCM interval)
configure channel-pair interface (upstream throughput improvements on XGS-PON/MPM)
configure equipment ont interface (add support for up to 25G capable PON boards)
configure interface cage (add value not-set for cage mode)
configure interface port (add support for up to 25G capable PON boards)
configure pon interface (upstream throughput improvements on XGS-PON/MPM)
configure qos interface (add support for up to 25G capable PON boards)
configure qos tca queue (add support for up to 25G capable PON boards)
configure system sync-if-timing ptp l2-ptp-port (support xfp modules for Ethernet clock interface)
configure system sync-if-timing ptp mstr-port-ds-prof (support 1588v2 multicast MAC address on FANT-F)
configure system sync-if-timing ptp slave-port-dataset (support 1588v2 multicast MAC address on FANT-F)
configure trap definition (update for Board Auto Plan feature)
configure trap manager (update for Board Auto Plan feature)
configure trouble-shooting pon statistics interface (add support for up to 25G capable PON boards)
configure trouble-shooting pon statistics threshold interface (add support for up to 25G capable PON boards)
show alarm query ellid (add support for up to 25G capable PON boards)
show alarm query epon (add support for up to 25G capable PON boards)
show alarm query name (updated alarm list)
show alarm query olt-gen (add support for up to 25G capable PON boards)
show alarm query olt-pon-tc-tca (add support for up to 25G capable PON boards)
show alarm query olt-pon-util-tca (add support for up to 25G capable PON boards)
show alarm query ont-iphost (ONT KPI improvements (OLT side))
show alarm query ont-l2uni-eth-tca (ONT KPI improvements (OLT side))
show alarm query otdr (add support for up to 25G capable PON boards)
show alarm query plug-in-unit (add alarm for LT backplane datalink failure)
show interface port (add support for up to 25G capable PON boards)
show interface stack (add support for up to 25G capable PON boards)
show interface test (add support for up to 25G capable PON boards)
show mcast pon-active-groups (add support for up to 25G capable PON boards)
show pon ber-stats (add support for up to 25G capable PON boards)

show pon cfg-download (add support for up to 25G capable PON boards)
show pon interface fec-tc-layer current-interval (add support for up to 25G capable PON boards)
show pon interface mcast-tc-layer current-interval (add support for up to 25G capable PON boards)
show pon interface mcast-tc-layer previous-interval (add support for up to 25G capable PON boards)
show pon interface phy-layer current-interval (add support for up to 25G capable PON boards)
show pon interface tc-layer current-interval (add support for up to 25G capable PON boards)
show pon interface tc-layer previous-interval (add support for up to 25G capable PON boards)
show pon interface xg-tc-layer current-interval (add support for up to 25G capable PON boards)
show pon interface xg-tc-layer previous-interval (add support for up to 25G capable PON boards)
show pon optics (add support for up to 25G capable PON boards)
show pon pon-diagnostics (add support for up to 25G capable PON boards)
show pon sfp-inventory (add support for up to 25G capable PON boards)
show pon sw-download (add support for up to 25G capable PON boards)
show pon utilization cur-intvl-top-ont-rx (add support for up to 25G capable PON boards)
show pon utilization cur-intvl-top-ont-tx (add support for up to 25G capable PON boards)
show pon utilization current-interval (add support for up to 25G capable PON boards)
show pon utilization previous-interval (add support for up to 25G capable PON boards)
show pon utilization prv-intvl-top-ont-rx (add support for up to 25G capable PON boards)
show pon utilization prv-intvl-top-ont-tx (add support for up to 25G capable PON boards)
show qos bandwidth-profile (add support for up to 25G capable PON boards)
show qos interface-bandwidth (add support for up to 25G capable PON boards)
show qos statistics color-queue current-15min (add support for up to 25G capable PON boards)
show qos statistics color-queue prev-15min (add support for up to 25G capable PON boards)
show qos statistics queue current-15min (add support for up to 25G capable PON boards)
show qos statistics queue prev-15min (add support for up to 25G capable PON boards)
show trouble-shooting pon statistics interface (add support for up to 25G capable PON boards)

New Commands

configure mcast-control mc-pon-vlan-xlate (Missing mc-pon-vlan-xlate node)
show alarm current ont-tca (ONT KPI improvements (OLT side))
show alarm log ont-tca (ONT KPI improvements (OLT side))
show alarm query ont-tca (ONT KPI improvements (OLT side))
show alarm snap-shot ont-tca (ONT KPI improvements (OLT side))
show equipment ont status twenty-five-g (add support for up to 25G capable PON boards)

Commands or commands with parameters for future use, not supported yet

admin channel-pair peak-utilization (add PON Utilization PM Counter to capture unicast microbursts)
admin pon peak-utilization (add PON Utilization PM Counter to capture unicast microbursts)

show channel-pair peak-utilization (add PON Utilization PM Counter to capture unicast microbursts)
show channel-pair peak-utilization cur-intvl-top-ont-rx (add PON Utilization PM Counter to capture unicast microbursts)
show channel-pair peak-utilization cur-intvl-top-ont-tx (add PON Utilization PM Counter to capture unicast microbursts)
show channel-pair peak-utilization current-interval (add PON Utilization PM Counter to capture unicast microbursts)
show channel-pair peak-utilization previous-interval (add PON Utilization PM Counter to capture unicast microbursts)
show channel-pair peak-utilization prv-intvl-top-ont-rx (add PON Utilization PM Counter to capture unicast microbursts)
show channel-pair peak-utilization prv-intvl-top-ont-tx (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization cur-intvl-top-ont-rx (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization cur-intvl-top-ont-tx (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization current-interval (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization previous-interval (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization prv-intvl-top-ont-rx (add PON Utilization PM Counter to capture unicast microbursts)
show pon peak-utilization prv-intvl-top-ont-tx (add PON Utilization PM Counter to capture unicast microbursts)

Command delta R6.2.03 versus R6.2.02

Modified Commands
admin system fips (OpenSSL upgrade to 1.1.1.d. Command obsoleted on FANT-G.)
configure alarm entry (new alarms e1t1itf-recv-ais, e1t1itf-recv-los, e1t1itf-recv-rai and new alarm internal-clk-fail for FANT-G Oscillator failure)
configure alarm entry (support alarm olt-gen-ddr-fault)
configure alarm filter filterid (updated alarm list)
configure bridge port vlan-id (improve IOP with ZTE ONT)
configure equipment ont interface (support auto-match value for planned-us-rate ONT parameter for combo-PON)
configure equipment ont interface (updated default fec-up for gpon ONT on mpm)
configure equipment slot (support 40GBase-KR4)
configure interface cage (support MPM combo mode)
configure qos tca queue (removed obsolete parameter value lbackpl-lin)
configure system (support 40GBase-KR4)

configure system fips (OpenSSL upgrade to 1.1.1.d. Command obsoleted on FANT-G.)
configure system sync-if-timing ptp link-port-compensation (support FWLT-C)
configure system sync-if-timing ssmout-synce (support FWLT-C)
configure system sync-if-timing synce (support FWLT-C)
configure voice sip manipulate-rule (update mechanism to set the system under priority mode and call duration)
configure voice sip termination (update parameter definition for display-name)
configure qos interface (removed obsolete parameter value ltbackpl-lin)
show alarm query name (updated alarm list)
show alarm query sync (new alarm internal-clk-fail for FANT-G Oscillator failure)
show linetest single lineid-ext-rept (support NIAT-A SIP PRI)
show qos interface-bandwidth (removed obsolete parameter value ltbackpl-lin)
show qos statistics color-queue current-15min (removed obsolete parameter value ltbackpl-lin)
show qos statistics color-queue prev-15min (removed obsolete parameter value ltbackpl-lin)
show qos statistics queue current-15min (removed obsolete parameter value ltbackpl-lin)
show qos statistics queue prev-15min (removed obsolete parameter value ltbackpl-lin)
show system license (add license for FGUT-A upgradable GPON LT card for 10G PON evolution)
show system license-usage (add license for FGUT-A upgradable GPON LT card for 10G PON evolution)
show voice sip redundancy-node ext-redundancy-state (support NIAT-A SIP PRI)
show voice sip termination (update mechanism to set the system under priority mode and call duration)

New Commands

configure voice sip pri-cas-tksg-puid (one PRI interface to support multiple PRI groups)
configure voice sip pri-cas-tksg-term (one PRI interface to support multiple PRI groups)
configure voice sip tksg (one PRI interface to support multiple PRI groups)
configure voice sip user-to-user-prof (UUS3 Signaling convey between ISDN Q.931 and SIP)
show alarm current e1t1-interface (one PRI interface to support multiple PRI groups)
show alarm log e1t1-interface (one PRI interface to support multiple PRI groups)
show alarm snap-shot e1t1-interface (one PRI interface to support multiple PRI groups)
show system license-usage (show license usage for FGUT-A upgradable GPON LT card for 10G PON evolution)
show voice sip pri-cas-tksg-puid (one PRI interface to support multiple PRI groups)
show voice sip pri-cas-tksg-term (one PRI interface to support multiple PRI groups)
show voice sip tksg-ds0-status (one PRI interface to support multiple PRI groups)
show voice sip tksg-op-data (one PRI interface to support multiple PRI groups)
show voice sip user-to-user-prof (UUS3 Signaling convey between ISDN Q.931 and SIP)

Commands or commands with parameters for future use, not supported yet

configure equipment ont interface (show additional info on ONT status)
--

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show ont-info (show additional info on ONT status)
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Command delta R6.2.02 versus R6.2.01

Modified Commands
admin ethernet statistics (support backplane LT link on FELT-C)
admin interface trouble-shooting ethernet statistics (support backplane LT link on FELT-C)
admin pon (x-pon prefix is used for XGSPON ports for all boards)
admin trouble-shooting pon interface (x-pon prefix is used for XGSPON ports for all boards)
configure alarm entry (NIAT-A LT ISDN PRI SIP alarms to interop with SIP server, FELT-B 40GBase-KR4 backplane alarm. Alarm olt-gen-ddr-fault not supported yet)
configure alarm filter filterid (updated alarm list)
configure interface port (x-pon prefix is used for XGSPON ports for all boards)
configure linetest single ltparm test-name (parameter values e1-remotelb e1-ploadlb e1-locallb e1-cablelb renamed to remotelb ploadlb locallb cablelb)
configure link-agg group (support FELT-C Cross-IWF LAG)
configure pon interface (x-pon prefix is used for XGSPON ports for all boards)
configure qos interface (support backplane LT link on FELT-C)
configure qos interface (x-pon prefix is used for XGSPON ports for all boards)
configure qos tca queue (support backplane LT link on FELT-C)
configure qos tca queue (x-pon prefix is used for XGSPON ports for all boards)
configure system security ssh access (support debugkernel on FANT-G and FANT-H)
configure system sync-if-timing ptp l2-ptp-port (update for timing sync on FANT-H)
configure trouble-shooting pon statistics (x-pon prefix is used for XGSPON ports for all boards)
configure xdsl board vect-fallback rtx-profile (RTX profile index value range extended to 1024)
configure xdsl rtx-profile (RTX profile index value range extended to 1024)
show alarm query (x-pon prefix is used for XGSPON ports for all boards)
show alarm query name (updated alarm list)
show alarm query olt-gen (alarm olt-gen-ddr-fault not supported yet)
show efm-oam peer-oam-info (P2P LT 802.3ah, Ethernet in the First Mile, extension with dying gasp state)
show equipment ont status pon (x-pon prefix is added for all boards for XGSPON ports)
show equipment ont status pon (x-pon prefix is used for XGSPON ports for all boards)
show ethernet etherstats (support backplane LT link on FELT-C)
show interface (x-pon prefix is used for XGSPON ports for all boards)
show interface trouble-shooting ethernet statistics (support backplane LT link on FELT-C)
show mcast pon-active-groups (x-pon prefix is used for XGSPON ports for all boards)
show pon (x-pon prefix is used for XGSPON ports for all boards)
show pon (x-pon prefix is used for XGSPON ports for all boards)

show qos interface-bandwidth (support backplane LT link on FELT-C)
show qos interface-bandwidth (x-pon prefix is used for XGSPON ports for all boards)
show qos statistics (x-pon prefix is used for XGSPON ports for all boards)
show qos statistics color-queue current-15min (support backplane LT link on FELT-C)
show qos statistics color-queue prev-15min (support backplane LT link on FELT-C)
show qos statistics queue current-15min (support backplane LT link on FELT-C)
show qos statistics queue prev-15min (support backplane LT link on FELT-C)
show trouble-shooting pon statistics interface (x-pon prefix is used for XGSPON ports for all boards)
show xdsl vect-disturber-list downstream (alternative disturberlist reporting)

New Commands

show alarm current fcs-exceed (add FELT-B 40GBase-KR4 backplane alarm)
show alarm log fcs-exceed (add FELT-B 40GBase-KR4 backplane alarm)
show alarm query fcs-exceed (add FELT-B 40GBase-KR4 backplane alarm)
show alarm snap-shot fcs-exceed (add FELT-B 40GBase-KR4 backplane alarm)
show equipment ont status x-pon (x-pon prefix is added for all boards for XGSPON ports)
show link-agg resource board-iwf-info (support FELT-C Cross-IWF LAG)
show link-agg resource group (support FELT-C Cross-IWF LAG)
show link-agg resource iwf-group-info (support FELT-C Cross-IWF LAG)
show software-mngt upload-download-info (new command node to display actual available space in /Sw/ and /Ont/Sw/)
show system shub cpu-packet ratelimit (protect SHUB systems against DoS attacks)

Removed Commands

configure mcast channel (Note: do not use this command, is has been replaced by configure mcast chn)
--

Commands or commands with parameters for future use, not supported yet

configure equipment ont interface (auto-match value for planned-us-rate ONT parameter is not supported yet)
show linetest single lineid-ext-rept (NIAT-A SIP PRI CHT T1 not supported yet, parameters renamed)

Command delta R6.2.01 versus R6.2

Modified Commands

admin ethernet port (support PON Remote loopback control on ONT UNI, OLT part)
admin ethernet statistics (support backplane LT link on FELT-C)
admin interface trouble-shooting ethernet statistics (support backplane LT link on FELT-C)
admin system cpu-load (support ntio-1 qsf alarm)
configure alarm entry (support for Threshold Crossing Alarms)

configure alarm filter filterid (list of alarms updated)
configure bridge port (support compliance to OMCI Spec for XGS PON ONTs, support parameter value filtervlanandpbit)
configure bridge port vlan-id (support compliance to OMCI Spec for XGS PON ONTs, support parameter value usacceptframetype)
configure ethernet ont l2 pm-collect-ext (support OMCI PM and multicast status monitoring extensions)
configure l2uni ont performance-monitor pm-collect-ext (support OMCI PM and multicast status monitoring extensions)
configure qos interface (support backplane LT link on FELT-C)
configure qos tca queue (support backplane LT link on FELT-C)
configure system sync-if-timing ptp (update for timing sync on FANT-H)
configure system sync-if-timing ptp l2-ptp-port (update for timing sync on FANT-H)
configure system sync-if-timing ptp link-port-compensation (update for timing sync on FANT-H)
configure system sync-if-timing ptp ptp-domain (update for timing sync on FANT-H)
configure system sync-if-timing ptp slave-port-dataset (update for timing sync on FANT-H)
configure system sync-if-timing ptp tx-protocol (update for timing sync on FANT-H)
configure system sync-if-timing ref-order (update for timing sync on FANT-H)
configure system sync-if-timing ssm (update for timing sync on FANT-H)
configure system sync-if-timing tod-ref-order (update for timing sync on FANT-H)
configure tc-layer ont-side (support OMCI PM and multicast status monitoring extensions)
configure veip ont l2 pm-ext (support OMCI PM and multicast status monitoring extensions)
configure voice ont mgc-config (update for security profile ID and msg format in MEGACO config)
configure xdsl spectrum-profile vdsl (updated help text, a998ds35 added)
configure xdsl vce-profile (updated help text, a998ds35 added)
show alarm query ihub-link (support ntio-1 qsfm alarm)
show alarm query ihub-link (support ntio-1 qsfm alarm)
show alarm query ihub-tca (update for TR069 service mismatch adding ONT info for XGS-PON)
show alarm query name (support for Threshold Crossing Alarms)
show alarm query tr069serv (support ntio-1 qsfm alarm)
show equipment ont status pon (improved display values for XGS-PON interface under Combo mode)
show ethernet etherstats (support backplane LT link on FELT-C)
show ethernet ont loopback-info (support PON Remote loopback control on ONT UNI, OLT part)
show interface trouble-shooting ethernet statistics (support backplane LT link on FELT-C)
show l2uni ont mcast-subscriber (support OMCI PM and multicast status monitoring extensions)
show l2uni ont mcast-subscriber active-groups (support OMCI PM and multicast status monitoring extensions)
show l2uni ont mcast-subscriber general (support OMCI PM and multicast status monitoring extensions)
show l2uni ont performance-data-ext (support OMCI PM and multicast status monitoring extensions)
show l2uni ont performance-data-ext current-interval (support OMCI PM and multicast status monitoring extensions)

extensions)
show l2uni ont performance-data-ext previous-interval (support OMCI PM and multicast status monitoring extensions)
show pon ber-stats (improved display values for XGS-PON interface under Combo mode)
show pon cfg-download (improved display values for XGS-PON interface under Combo mode)
show pon sw-download (improved display values for XGS-PON interface under Combo mode)
show qos interface-bandwidth (support backplane LT link on FELT-C)
show qos statistics color-queue current-15min (support backplane LT link on FELT-C)
show qos statistics color-queue prev-15min (support backplane LT link on FELT-C)
show qos statistics queue current-15min (support backplane LT link on FELT-C)
show qos statistics queue prev-15min (support backplane LT link on FELT-C)
show system cpu-load (support ntio-1 qsfp alarm)
show system show system memory-usage (support ntio-1 qsfp alarm)
show system sync-ptp-currmaster (update for timing sync on FANT-H)
show system sync-ptp-slaveport (update for timing sync on FANT-H)
show tc-layer ont-side (support OMCI PM and multicast status monitoring extensions)
show voice ont mgc-agent statistics current-15min (support compliance to OMCI Spec for XGS PON ONTs)
show voice sip isdn-cas-cls-puid (update to show the status of every PUID)
show voice sip isdn-cas-term (update to show the status of every ISDN PRA or CAS R2 termination port)

New Commands

admin equipment applique (support applique restart via CLI)
configure system lt-link-tca-thresholds (support for Threshold Crossing Alarms)
configure system ptp (update for timing sync on FANT-H)
show software-mngt upload-download-dir (command to display the space in /Sw and /ONT/Sw)
show system lt-link-tca-thres (support for Threshold Crossing Alarms)

Command delta R62 versus R6.1.01

Modified Commands

admin pon ber-stats (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
admin pon clear-alarm (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
admin pon diagnostic (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
admin pon utilization (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
admin trouble-shooting pon interface (parameter pon-leg removed, x-pon prefix introduced to identify the

XGS-PON interface under MPM mode)
configure bridge port vlan-id (parameter value usacceptframetype not supported yet)
configure equipment diagnostics sfp (introduction of SFP1, SFP2, XFP1, XFP2 prefixes, for clean support of multi-channel PON optics)
configure equipment ont interface (L2 Bridge configuration adapted to IOP requirement)
configure equipment ont pm (command not supported yet)
configure equipment slot (added new input board types to allow pre-provisioning and introduced operational-mode parameter for PON boards that support several modes of operation)
configure equipment slot (new command to disable anti theft protection)
configure interface cage (introduced operational-mode parameter for PON boards that support several modes of operation)
configure interface cage (parameter oper-mode renamed to operational-mode)
configure interface port (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
configure mcast-control system (corrected v6-src-ip-address help info)
configure pon interface (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
configure qos interface (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
configure qos tca queue (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
configure system (update for softdsp feature)
configure system security (ISAM Copper and Fiber : RADIUS accounting for CLI operators)
configure trap manager (support anti theft protection)
configure trap v6manager (support anti theft protection)
configure trouble-shooting pon statistics interface (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
configure trouble-shooting pon statistics threshold interface (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
configure voice ont pots (parameters transmit-path nominal-feed-vol not supported yet)
configure voice sip isdn-cas-term (update for NIAT-A: number screening and number mapping)
show alarm query ellid (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show alarm query epon (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show alarm query olt-gen (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show alarm query olt-pon-tc-tca (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show alarm query olt-pon-util-tca (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show alarm query ont-iphost (parameter ont-ip-host-file not supported yet)
show alarm query otdr (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON

interface under MPM mode)
show equipment diagnostics sfp (introduction of SFP1, SFP2, XFP1, XFP2 prefixes, for clean support of multi-channel PON optics)
show equipment diagnostics sfp-threshold (introduction of SFP1, SFP2, XFP1, XFP2 prefixes, for clean support of multi-channel PON optics)
show equipment ont operational-data (show MAC learning depth and last restart reason)
show equipment ont pm (command not supported yet)
show equipment ont pm ont-side (command not supported yet)
show equipment ont pm ont-side current-interval (command not supported yet)
show equipment ont pm ont-side previous-interval (command not supported yet)
show equipment transceiver-inventory (introduction of SFP1, SFP2, XFP1, XFP2 prefixes, for clean support of multi-channel PON optics)
show interface port (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show interface stack (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show interface test (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show mcast pon-active-groups (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface fec-tc-layer current-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface mcast-tc-layer current-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface mcast-tc-layer previous-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface phy-layer current-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface tc-layer current-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface tc-layer previous-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface xg-tc-layer current-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon interface xg-tc-layer previous-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon optics (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon pon-diagnostics (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon sfp-inventory (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon utilization cur-intvl-top-ont-rx (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)

show pon utilization cur-intvl-top-ont-tx (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon utilization current-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon utilization previous-interval (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon utilization prv-intvl-top-ont-rx (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show pon utilization prv-intvl-top-ont-tx (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show qos interface-bandwidth (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show qos statistics color-queue current-15min (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show qos statistics color-queue prev-15min (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show qos statistics queue current-15min (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show qos statistics queue prev-15min (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)
show trouble-shooting pon statistics interface (parameter pon-leg removed, x-pon prefix introduced to identify the XGS-PON interface under MPM mode)

New Commands

admin channel-pair reboot-all-ont (force an OLT-triggered reboot of 10G PON ONUs, individual or bulk, via standard PLOAM)
admin equipment ont sernum (force an OLT-triggered reboot of 10G PON ONUs, individual or bulk, via standard PLOAM)
admin pon reboot-all-ont (force an OLT-triggered reboot of 10G PON ONUs, individual or bulk, via standard PLOAM)
admin software-mngt iacm (PERSLOSS escalation evolution for VULA Uplinks to restore AMS connection)
admin software-mngt iacm database (PERSLOSS escalation evolution for VULA Uplinks to restore AMS connection)
admin software-mngt iacm database oam-save-protected (PERSLOSS escalation evolution for VULA Uplinks to restore AMS connection)
configure system security hash-control (encrypt password with same key across systems)
show mcast chpair-active-groups (show Multicast Channel Pair Active Groups Status)
show software-mngt oam-save-protected (PERSLOSS escalation evolution for VULA Uplinks to restore AMS connection)

Commands or commands with parameters for future use, not supported yet

admin ethernet port (command not supported yet)
configure bridge port (parameter value filtervlanandpbit not supported yet)
configure equipment replan (command not supported yet)

configure ethernet ont l2 pm-collect-ext (command not supported yet)
configure l2uni ont performance-monitor pm-collect-ext (command not supported yet)
configure veip ont l2 pm-ext (command not supported yet)
show ethernet ont loopback-info (command not supported yet)
show l2uni ont mcast-subscriber (command not supported yet)
show l2uni ont mcast-subscriber active-groups (command not supported yet)
show l2uni ont mcast-subscriber general (command not supported yet)
show l2uni ont performance-data-ext (command not supported yet)
show l2uni ont performance-data-ext current-interval (command not supported yet)
show l2uni ont performance-data-ext previous-interval (command not supported yet)

Command delta R6.1.01 versus R6.1

Modified Commands
configure alarm entry (support FPM depletion, vect-no-gain-at-initialarm and board-reset-prot)
configure alarm filter filterid (support FPM depletion, vect-no-gain-at-initialarm and board-reset-prot)
configure equipment shelf (configure shelf to work in gpon-managed-ngpon mode)
configure ethernet line mau (support electrical 100Mbps auto-negotiation capability)
configure system (FELT-B Uplink: SyncE with SSM_QL support and IEEE 1588 ToD TC)
configure system security (updated source-address parameter)
configure system sync-if-timing ptp link-port-compensation (FELT-B Uplink: SyncE with SSM_QL support and IEEE 1588 ToD TC)
configure system sync-if-timing sync (FELT-B Uplink: SyncE with SSM_QL support and IEEE 1588 ToD TC)
configure system syslog (Syslog RFC5424 support, new parameters version and time-format)
show alarm query ihub-l2forward (improved alarm logging on FANT-H)
show alarm query name (support FPM depletion alarm)
show alarm query plug-in-unit (enable board-reset-protection alarm)
show alarm query sync (FELT-B Uplink: SyncE with SSM_QL support and IEEE 1588 ToD TC)
show alarm query vect-board (support new alarm vect-no-gain-at-init)
show system syslog-file (Syslog RFC5424 support)
show voice sip isdn-cas-itf (updated display parameters)
show xdsl operational-data far-end line (new reporting of VDSL2 FDPS support by XTU-R)
New Commands
admin software-mngt ls-migration (command to support migration to Lightspan)
admin software-mngt ls-migration download server-ip (command to support migration to Lightspan)
configure mcast ipv6-chn (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)

configure mcast ipv6-chn src-ipv6-addr (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control channel (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control channel fullview-packages (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control channel preview-packages (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control ipv4 (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control ipv4 vlan (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control ipv6 (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control ipv6 vlan (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control mc-vlan-xlate (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control mcast-svc-context (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control package (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control system (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure mcast-control system cdr-type (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
configure system sync-if-timing bits-bind (FELT-B Uplink: SyncE with SSM_QL support and IEEE 1588 ToD TC)
configure system sync-if-timing ptp l2-ptp-port (FELT-B Uplink: SyncE with SSM_QL support and IEEE 1588 ToD TC)
configure voice sip cas-nsm-prof (NIAT-A: support number screening and number mapping CAS R2-SIP)
show mcast ipv6-active-groups (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control channel (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control channel counter (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control channel miscellaneous (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control channel protocol (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)

show mcast-control ipv4 (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control ipv4 grp-to-package (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control ipv4 module-mcast-channel (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control ipv4 package-to-src (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control mcast-svc-context (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control module (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control module counter (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control module miscellaneous (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control module time (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show mcast-control system (support a subset of IPv6 MLDv1/v2 proxying for IPv6 multicast services: UNI, Service Context and Fast Leave)
show software-mngt ls-migration (command to support migration to Lightspan)
show voice sip cas-nsm-prof (NIAT-A: support number screening and number mapping CAS R2-SIP)
show voice sip e1itf-bchannel-status (ISDN-CAS: reporting of B channel status and oos reporting)

Commands or commands with parameters for future use, not supported yet

admin ethernet statistics (new parameter value lt-link not supported yet)
admin interface trouble-shooting ethernet statistics (new parameter value lt-link not supported yet)
configure equipment slot (parameter operational-mode not supported yet)
configure interface cage (cage mode not supported yet)
configure qos interface (new parameter value lbackpl-link not supported yet)
configure qos tca queue (new parameter value lbackpl-link not supported yet)
show ethernet etherstats (new parameter value lt-link not supported yet)
show interface trouble-shooting ethernet statistics (new parameter value lt-link not supported yet)
show qos interface-bandwidth (new parameter value lbackpl-link not supported yet)
show qos statistics color-queue current-15min (new parameter value lbackpl-link not supported yet)
show qos statistics color-queue prev-15min (new parameter value lbackpl-link not supported yet)
show qos statistics queue current-15min (new parameter value lbackpl-link not supported yet)
show qos statistics queue prev-15min (new parameter value lbackpl-link not supported yet)

Command delta R6.1 versus R6.0.01

Modified Commands
configure alarm entry (support lag degrade alarm)
configure alarm filter filterid (updated alarm list)
configure bridge port (FELT-B: Port mirroring improvement)
configure bridge port vlan-id (FGLT-B/NGPON2 LT: Advanced QoS remarking rules for S+C forwarders)
configure debug-trace protocol-trace (enhanced syslog messages)
configure ethernet line mau (support UTP 10G full duplex on RANT-C)
configure qos profiles session (support parameter ds-schedule-tag to support traffic classification according to the inner VLAN QoS per bridge port)
configure system max-lt-link-speed (adding 25G and 50G option in max-lt-link-speed)
configure system max-lt-link-speed (support FANT-H: parameter value one-hunderd-gb supported)
configure system port-group (support QSFP ports)
configure system security cdr-pm-file upload (update PM file upload configuration)
configure system security filetransfer server (RSA public/private-key support)
configure system security filetransfer serverv6 (RSA public/private-key support)
configure system security pmfile upload (update PM file upload configuration)
configure system security snmp user (support for secure hash algorithms)
configure system security ssh server-profile (support ECDH Key exchange algorithm)
configure system security ssh sftp-user (RSA public/private-key support)
configure system syslog destination (local syslog persistent during power cycle)
configure system syslog route (enhanced syslog messages)
configure voice lsa-server emergency-service dn (remove duplicate nt parameter value)
configure voice lsa-server instance (remove duplicate nt parameter value)
configure voice lsa-server system (remove duplicate nt parameter value)
configure voice sip isdn-cas-term (NIAT-A: number screening and number mapping DSS1-SIP)
configure voice sip user-agent-ap slot-id (remove duplicate nt parameter value)
configure xdsl vp-board (range increase of resource parameter vp-link to support up to 16 VP-LT links per VP-card)
show alarm current vect-board (range increase of display parameter vp-link-index to support up to 16 VP-LT links per VP-card)
show alarm log vect-board (range increase of display parameter vp-link-index to support up to 16 VP-LT links per VP-card)
show alarm query ihub-link (support QSFP ports)
show alarm query ihub-tca ()
show alarm query link-agg (support lag degrade alarm)
show alarm query name (support lag degrade alarm)
show alarm snap-shot (range increase of display parameter vp-link-index to support up to 16 VP-LT links per VP-card)
show qsfp-port-mode (support QSFP ports)

show security cdr-pm-file upload (update PM file upload configuration)
show system license (adding 25gbps and 50gbps option)
show system license (support FANT-H: parameter 100gbps-lt supported)
show voice sip redundancy-node ext-redundancy-state (remove duplicate nt parameter value)
show voice sip redundancy-node redundancy-state (remove duplicate nt parameter value)
show voice sip user-agent-ap (remove duplicate nt parameter value)
show xdsl vect-carrier-data far-end (range increase of display and command parameter vgr-link to support up to 16 VP-LT links per VP-card)
show xdsl vect-carrier-data near-end (range increase of display and command parameter vgr-link to support up to 16 VP-LT links per VP-card)
show xdsl vect-group (range increase of resource parameter vgr-link to support up to 16 VP-LT links per VP-card)
show xdsl vp-board (range increase of resource parameter vp-link to support up to 16 VP-LT links per VP-card)

New Commands

admin system security ssh generate-auth-key (RSA public/private-key support)
configure system nt-sftp (SFTP server for ZTP on NT)
configure system nt-sftp user-name (SFTP server for ZTP on NT)
configure voice sip isdn-nsm-prof (NIAT-A: number screening and number mapping DSS1-SIP)
show security ssh auth-key (RSA public/private-key support)
show security ssh auth-key-status (RSA public/private-key support)
show voice sip isdn-nsm-prof (NIAT-A: number screening and number mapping DSS1-SIP)
show voice sip profiles (NIAT-A: number screening and number mapping DSS1-SIP)
show voice sip ua-ip-info (get ip info values from User-agent)

Commands or commands with parameters for future use, not supported yet

configure system security mgmt-ipv4-addr (parameter mgmt-ipv4-addr not supported yet)
configure voice sip redundancy (new parameters fail-obs-timer fg-intv-503 time-thrsh-503 nbr-thrsh-503 not supported yet)
configure voice sip register (new parameter init-reg-delay not supported yet)

Command delta R6.0.01 versus R6.0

Modified Commands

admin dual-parenting (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
admin dual-parenting protection-group switchover (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
admin software-mngt oswp (Software Load Validation)
configure alarm entry (alarm for MELT board reset, network-power-loss and hw-fault)

configure alarm filter filterid (updated alarm list)
configure channel-group id subchannel-group id (update parameter mcatt-encrypt fot downstream multicast GEM encryption mode)
configure dual-parenting (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure dual-parenting local-node (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure dual-parenting peer-node (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure dual-parenting protection-group (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure generic-pon ont (ONT pre-provisioning using Serial Number authentication - auto unlock ONT Administrative State)
configure ipv6-antispoofing (support IPv6 anti-spoofing based on the full IPv6 address)
configure ipv6-antispoofing slot (support IPv6 anti-spoofing based on the full IPv6 address)
configure pon interface (parameter pon-leg not supported)
configure qos profiles policy-action (QoS enhancements)
configure qos profiles session (QOS enhancements)
configure software-mngt oswp (Software Load Validation)
configure system pon-ont (ONT pre-provisioning using Serial Number authentication - auto unlock ONT Administrative State)
configure system security source-address (proper selection of source-IP for FTP IPv4 and IPv6)
configure system sync-if-timing ssmout-synce (support QSFP ports)
configure system sync-if-timing synce (support QSFP ports)
configure system syslog route msg-type (Syslog improvements)
configure vlan (removed not supported parameter mac-auto-delete)
configure voice lsa-server emergency-service (support lsa server hosted at VVPS-A board)
configure voice lsa-server instance (support lsa server hosted at VVPS-A board)
configure voice lsa-server system (support lsa server hosted at VVPS-A board)
configure voice sip isdn-cas-term (support crc4 configuration for isdn-cas-term)
configure voice sip server (support SIP over TLS)
configure voice sip transport (support SIP over TLS)
configure voice sip vsp (support SIP over TLS)
configure xdsl rtx-profile (increase bonded group and RTX profiles)
configure xdsl spectrum-profile vdsl2 (support VDSL Long Range)
configure xdsl-bonding board vect-fallback (increase bonded group and RTX profiles)
configure xdsl-bonding group (increase bonded group and RTX profiles)
configure xdsl-bonding group-rtx-profile (increase bonded group and RTX profiles)
match (update match CLI filter decription)
show alarm query eqpt-holder-ext (support new alarms network-power-loss and hw-fault)

show alarm query ihub-link (improved alarm reporting QSFP)
show alarm query ihub-tca (improved alarm reporting QSFP)
show alarm query name (updated alarm list)
show alarm query plug-in-unit-ext (alarm for MELT board reset)
show dual-parenting (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
show dual-parenting protection-group (support cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
show system license (support VDSL Long Range)

New Commands

admin igmp debug version (IGMP Join/leave Debug Management)
admin software-mngt tls-cafile (support SIP over TLS)
admin system security manager release-lock-cli (login security control enhancements)
configure qos dn-ctrl-pkt (QoS enhancements)
configure qos profiles dscp-tc (QoS enhancements, support to add or delete dscp to tc profile)
configure qos profiles dscp-tc codepoint (QoS enhancements)
configure qos up-ctrl-pkt (QoS enhancements)
configure system security slot debug-usb (FANT-G Micro USB Ability to enable and disable through CLI)
show software-mngt sw-load-valid (Software Load Validation)
show software-mngt sw-load-valid file-status (Software Load Validation)
show software-mngt sw-load-valid oswp-root-certificate (Software Load Validation)
show software-mngt sw-load-valid oswp-status (Software Load Validation)
show software-mngt tls-cafile (support SIP over TLS)
tcpdump (TCPDump tool for FANT-G)
tcpdump show (TCPDump tool for FANT-G)
tcpdump start vlan (TCPDump tool for FANT-G)
tcpdump stop (TCPDump tool for FANT-G)

Removed Commands

admin bridge unicast-mac-address port (not supported command removed)
configure bridge port vlan-id eligible-to-learn (not supported command removed)

Commands or commands with parameters for future use, not supported yet

admin pon ber-stats (parameter pon-leg not supported)
admin pon clear-alarm (parameter pon-leg not supported)
admin pon diagnostic (parameter pon-leg not supported)
admin pon utilization (parameter pon-leg not supported)
admin trouble-shooting pon interface (parameter pon-leg not supported)

configure channel-pair interface (parameter onu-prov-mode not supported yet)
configure equipment ont interface (parameter template-name not supported yet)
configure equipment ont slot (parameter eth_adaptive not supported yet)
configure interface port (parameter pon-leg not supported)
configure pon interface (parameter pon-leg not supported)
configure qos interface (parameter pon-leg not supported)
configure qos tca queue (parameter pon-leg not supported)
configure system port-group (port-group not supported yet)
configure trap definition (parameter ont-prov-template not supported yet)
configure trap manager (parameter ont-prov-template not supported yet)
configure trap v6manager (parameter ont-prov-template not supported yet)
configure trouble-shooting pon statistics interface (parameter pon-leg not supported)
configure trouble-shooting pon statistics threshold interface (parameter pon-leg not supported)
show alarm query ellid (parameter pon-leg not supported)
show alarm query epon (parameter pon-leg not supported)
show alarm query olt-gen (parameter pon-leg not supported)
show alarm query olt-pon-tc-tca (parameter pon-leg not supported)
show alarm query olt-pon-util-tca (parameter pon-leg not supported)
show alarm query otdr (parameter pon-leg not supported)
show equipment shelf (display of customer serial not supported yet)
show equipment slot (display of customer serial not supported yet)
show interface port (parameter pon-leg not supported)
show interface stack (parameter pon-leg not supported)
show interface test (parameter pon-leg not supported)
show mcast pon-active-groups (parameter pon-leg not supported)
show pon interface fec-tc-layer current-interval (parameter pon-leg not supported)
show pon interface mcast-tc-layer current-interval (parameter pon-leg not supported)
show pon interface mcast-tc-layer previous-interval (parameter pon-leg not supported)
show pon interface phy-layer current-interval (parameter pon-leg not supported)
show pon interface tc-layer current-interval (parameter pon-leg not supported)
show pon interface tc-layer previous-interval (parameter pon-leg not supported)
show pon interface xg-tc-layer current-interval (parameter pon-leg not supported)
show pon interface xg-tc-layer previous-interval (parameter pon-leg not supported)
show pon optics (parameter pon-leg not supported)
show pon pon-diagnostics (parameter pon-leg not supported)
show pon sfp-inventory (parameter pon-leg not supported)
show pon utilization cur-intvl-top-ont-rx (parameter pon-leg not supported)

show pon utilization cur-intvl-top-ont-tx (parameter pon-leg not supported)
show pon utilization current-interval (parameter pon-leg not supported)
show pon utilization previous-interval (parameter pon-leg not supported)
show pon utilization prv-intvl-top-ont-rx (parameter pon-leg not supported)
show pon utilization prv-intvl-top-ont-tx (parameter pon-leg not supported)
show qos interface-bandwidth (parameter pon-leg not supported)
show qos statistics color-queue current-15min (parameter pon-leg not supported)
show qos statistics color-queue prev-15min (parameter pon-leg not supported)
show qos statistics queue current-15min (parameter pon-leg not supported)
show qos statistics queue prev-15min (parameter pon-leg not supported)
show qsfp-port-mode (qsfp-port-mode not supported yet)
show trouble-shooting pon statistics interface (parameter pon-leg not supported)

Command delta R6.0 versus R5.8.01

Modified Commands
admin equipment slot (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
admin system techsupport (techsupport feature supported on 7302 ISAM FD)
admin xdsl-line (Auto-switching improvement)
configure alarm entry (alarms for Auto-switching improvement, PON integrity, line reinitialization TCA, Cross-LT LAG extension)
configure alarm filter filterid (updated alarm list)
configure bridge port vlan-id (UNI Support in FELT-B)
configure cfm domain association mep y1731ais (FELT-B downlink port: Link Loss Forwarding, auto shut down bridge port on MEP)
configure channel-group id (Channel Profiles, Burst Profiles and System Profile PLOAM compliance on NG-PON2 OLT)
configure equipment protection-element (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
configure equipment slot (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
configure linetest cluster (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, updated xvps cluster range)
configure link-agg group (FELT-B redundancy 8+8, configures switchover in a cross-LT LAG)
configure mcast capacity (UNI Support in FELT-B)
configure system security operator (prompt with Warning and request for confirmation before command execution)
configure system security snmp community (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add vvpsa context)
configure system security snmp group security-level (NVPS-C: support Multi-core NT card (FANT-F and

NANT-E) as server board, add vvpsa context)
configure system security snmp manager (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add vvpsa context)
configure vlan (allow the operator to control automatic clearing of MAC entries)
configure vlan id (updated DHCPv6 behavior)
configure voice cluster (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, updated xvps cluster range)
configure voice ont mgc-config (update for OMCI Spec for XGS PON ONTs)
configure voice sip isdn-cas-term (support line Hunting over multiple E1 PRI links on NIAT)
configure voice sip isdn-cas-term (updated parameter names for TermHuntingWay)
configure voice sip server (implement UDPswTCP and udp_tcp cross check function)
configure voice sip transport (implement UDPswTCP and udp_tcp cross check function)
configure xdsl board (support to configure the allowed vectoring class)
configure xdsl line tca-line-threshold (support of G.fast/VDSL line reinitialization TCA)
debug-command current-cpu-core-load (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
debug-command current-cpu-load (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
debug-command error-info (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
debug-command temperature (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
environment (environment setting to set number of lines displayed)
show alarm query auto-switch (alarms for Auto-switching improvement)
show alarm query channel-pair (PON Data Path Integrity alarm)
show alarm query custom-ext-alarm (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query ellid (removed not supported parameter values epon eont ellid euni, new value pon:leg not supported yet)
show alarm query epon (removed not supported parameter values epon eont ellid euni, new value pon:leg not supported yet)
show alarm query ihub-link (detailed alarm when AI link is down)
show alarm query ihub-tca (detailed alarm when AI link is down)
show alarm query megaco-media-gw (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query name (updated alarm list)
show alarm query ont (enabled alarm ont-gen-tod-mismatch)
show alarm query otdr (removed not supported parameter values epon eont ellid euni, new value pon:leg not supported yet)
show alarm query plug-in-unit (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query plug-in-unit-ext (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as

server board, add virtual LT board index)
show alarm query sfpe1t1-clock (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query sfpe1t1-framer (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query sfrssi (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query sip-plugin-unit (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query sip-user-agent (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query sw-mgmt (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query traffic-overflow (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show alarm query xdsl-tca (support of G.fast/VDSL line reinitialization TCA)
show equipment protection-element (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show equipment slot (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, add virtual LT board index)
show interface port (removed not supported parameter values epon eont ellid euni, new value pon:leg mpm not supported yet)
show interface stack (removed not supported parameter values epon eont ellid euni, new value pon:leg not supported yet)
show interface test (removed not supported parameter values epon eont ellid euni, new value pon:leg not supported yet)
show link-agg port-info (FELT-B redundancy 8+8, shows switchover in a cross-LT LAG)
show system techsupport (techsupport feature supported on 7302 ISAM FD)
show voice cluster (NVPS-C: support Multi-core NT card (FANT-F and NANT-E) as server board, updated xvps cluster range)

New Commands

admin bridge unicast-mac-address port (delete all MACs learned on bridge port from the filtering database)
configure alarm suppression filterid (configurable suppression for BDINIT/BDMISSING Alarms)
configure bridge port vlan-id eligible-to-learn (802.1x Mac Based Authentication additional requirements support)
configure bridge port vlan-id eligible-to-learn unicast-mac (802.1x Mac Based Authentication additional requirements support)
configure equipment ont interface cpu-load (performance KPI support)
configure equipment ont interface memory-usage (performance KPI support)
configure generic-pon alarmflag (enable to re-define the PONLOS for broken trunk fiber)
configure generic-pon dpinteg-threshold (PON Data Path Integrity alarm threshold)
configure interface statistics (support Sliding-Window Traffic Statistics)

configure tc-layer (GEM port network CTP performance monitoring history data)
configure tc-layer ont-side (GEM port network CTP performance monitoring history data)
configure voice sip isdn-cas-cls-puid (support line Hunting over multiple E1 PRI links on NIAT)
show alarm current link-agg (alarms for Cross-LT LAG extension)
show alarm log link-agg (alarms for Cross-LT LAG extension)
show alarm query link-agg (alarms for Cross-LT LAG extension)
show alarm snap-shot link-agg (alarms for Cross-LT LAG extension)
show alarm snap-shot olt-gen (enable olt-gen alarm display)
show equipment ont cpu-load (performance KPI support)
show equipment ont cpu-load current-interval (performance KPI support)
show equipment ont cpu-load previous-interval (performance KPI support)
show equipment ont memory-usage (performance KPI support)
show equipment ont memory-usage current-interval (performance KPI support)
show equipment ont memory-usage previous-interval (performance KPI support)
show interface statistics (support Sliding-Window Traffic Statistics)
show tc-layer (GEM port network CTP performance monitoring history data)
show tc-layer ont-side (GEM port network CTP performance monitoring history data)
show tc-layer ont-side current-interval (GEM port network CTP performance monitoring history data)
show tc-layer ont-side previous-interval (GEM port network CTP performance monitoring history data)
show voice sip isdn-cas-cls-puid (support line Hunting over multiple E1 PRI links on NIAT)
show voice sip isdn-cas-itf (support line Hunting over multiple E1 PRI links on NIAT)

Commands or commands with parameters for future use, not supported yet

admin dual-parenting (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
admin dual-parenting protection-group switchover (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
admin pon ber-stats (legacy parameter value leg not supported yet)
admin pon clear-alarm (legacy parameter value leg not supported yet)
admin pon diagnostic (legacy parameter value leg not supported yet)
admin pon utilization (legacy parameter value leg not supported yet)
admin software-mngt trigger-reborn (trigger reborn reformation)
admin trouble-shooting pon interface (legacy parameter value leg not supported yet)
configure dual-parenting (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure dual-parenting local-node (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure dual-parenting peer-node (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
configure dual-parenting protection-group (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)

configure equipment ont interface (parameter value 1.25g not supported yet)
configure interface port (legacy parameter value leg not supported yet)
configure ipv6-antispoofing (IPv6 anti-spoofing based on the full IPv6 address)
configure ipv6-antispoofing slot (IPv6 anti-spoofing based on the full IPv6 address)
configure pon interface (legacy parameter value leg not supported yet)
configure qos interface (legacy parameter value leg not supported yet)
configure qos tca queue (legacy parameter value leg not supported yet)
configure system max-lt-link-speed (new parameter value one-hundred-gb not supported yet)
configure system sync-if-timing ptp (new parameter profile not supported yet)
configure trouble-shooting pon statistics interface (legacy parameter value leg not supported yet)
configure trouble-shooting pon statistics threshold interface (legacy parameter value leg not supported yet)
show alarm query olt-gen (legacy parameter value leg not supported yet)
show alarm query olt-pon-tc-tca (legacy parameter value leg not supported yet)
show alarm query olt-pon-util-tca (legacy parameter value leg not supported yet)
show dual-parenting (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
show dual-parenting protection-group (Cross-shelf Type-B protection for GPON between two ISAM FX OLTs)
show mcast pon-active-groups (legacy parameter value leg not supported yet)
show pon interface fec-tc-layer current-interval (legacy parameter value leg not supported yet)
show pon interface mcast-tc-layer current-interval (legacy parameter value leg not supported yet)
show pon interface mcast-tc-layer previous-interval (legacy parameter value leg not supported yet)
show pon interface phy-layer current-interval (legacy parameter value leg not supported yet)
show pon interface tc-layer current-interval (legacy parameter value leg not supported yet)
show pon interface tc-layer previous-interval (legacy parameter value leg not supported yet)
show pon interface xg-tc-layer current-interval (legacy parameter value leg not supported yet)
show pon interface xg-tc-layer previous-interval (legacy parameter value leg not supported yet)
show pon optics (legacy parameter value leg not supported yet)
show pon pon-diagnostics (legacy parameter value leg not supported yet)
show pon sfp-inventory (legacy parameter value leg not supported yet)
show pon utilization cur-intvl-top-ont-rx (legacy parameter value leg not supported yet)
show pon utilization cur-intvl-top-ont-tx (legacy parameter value leg not supported yet)
show pon utilization current-interval (legacy parameter value leg not supported yet)
show pon utilization previous-interval (legacy parameter value leg not supported yet)
show pon utilization prv-intvl-top-ont-rx (legacy parameter value leg not supported yet)
show pon utilization prv-intvl-top-ont-tx (legacy parameter value leg not supported yet)
show qos interface-bandwidth (legacy parameter value leg not supported yet)
show qos statistics color-queue current-15min (legacy parameter value leg not supported yet)

show qos statistics color-queue prev-15min (legacy parameter value leg not supported yet)
show qos statistics queue current-15min (legacy parameter value leg not supported yet)
show qos statistics queue prev-15min (legacy parameter value leg not supported yet)
show system license (new parameter value 100gbps-lt not supported yet)
show trouble-shooting pon statistics interface (legacy parameter value leg not supported yet)

Command delta R5.8.01 versus R5.8

Modified Commands
admin system techsupport (default changed from disable to enable)
configure alarm entry (alarm raised at various degrees of flash card degradation or failure, new alarms packet-loss remote-packet-loss no-dsp-resource for SIP PRI: Enhancements (Nx64) pseudo-wire)
configure alarm filter filterid (updated alarm list)
configure channel-group id subchannel-group id (support multiple Subchannel Groups (channel partitions) per Channel Group on NG-PON2 [OLT part])
configure channel-pair interface (U-NGPON throughput improvements and testing with XGS Dual Rate N1 and N2 OLT optics)
configure pon interface (updated range for parameter tconts-per-frame)
configure qos profiles bandwidth (update DBRu parameter setting)
configure system security snmp community (DPoE and DOCSIS related parameters removed)
configure system security snmp group (DPoE and DOCSIS related parameters removed)
configure system sync-if-timing ptp default-dataset (obsolete parameter clock-identity removed)
configure system sync-if-timing ssmout-ltport (support SSM QL over 10G PON card with XGS-PON mode)
configure system syslog route msg-type (dump Syslog file support)
configure voice lsa-server emergency-service (support the standalone SIP emergency call support for PRI access)
configure voice sip isdn-cas-term (support SIP User Authentication on AKA-MD5 per RFC 3310, CAS/R2 enhancements)
configure voice sip manipulate-rule (ISAMV SIP: CAS/R2 enhancements)
configure voice sip redundancy (NIAT ISDN PRI redundancy, to enable/disable forced failover timer function, auto-srv-fo-tmr renamed to auto-srv-fo-timer)
configure voice sip termination (support SIP User Authentication on AKA-MD5 per RFC 3310)
show alarm query eqpt-supplemental (alarm raised at various degrees of flash card degradation or failure)
show alarm query ihub-link (improved filtering via alarm type)
show alarm query ihub-tca (improved filtering via alarm type)
show alarm query name (updated alarm list)
show alarm query plug-in-unit-ext (support new alarm mgnt-type-mismatch)
show system sync-ptp-client (display improvements)

New Commands

admin equipment protection-group (support NT forced switchover on FANT-F FANT-G and NANT-E)
clear sliding-win-stats (support sliding window statistics feature for uplink ports)
configure system security snmp-slot-numbering (support LT index numbering)
configure system sliding-win-stats (support sliding window statistics feature for uplink ports)
configure voice pseudo-wire (SIP PRI: Enhancements (Nx64) pseudo-wire)
show alarm current pseudo-wire (SIP PRI: Enhancements (Nx64) pseudo-wire)
show alarm log pseudo-wire (SIP PRI: Enhancements (Nx64) pseudo-wire)
show alarm snap-shot pseudo-wire (SIP PRI: Enhancements (Nx64) pseudo-wire)
show system autoboot-config (show timestamps from autoboot.tim file)
show system cf-usage (show the status of the flash card, degradation or failure)
show system sliding-win-stats (support sliding window statistics feature for uplink ports)
show test-oam (support Two-Way Active Measurement Protocol Light (TWAMP Light) responder feature)
show voice pseudo-wire (SIP PRI: Enhancements (Nx64) pseudo-wire)
show voice pseudo-wire-src-port (SIP PRI: Enhancements (Nx64) pseudo-wire)

Commands or commands with parameters for future use, not supported yet

configure channel-pair interface deact-ont-tca (alarms on number of deactivated ONUs per PON not supported yet)
configure channel-pair interface deact-ont-tca threshold-number (alarms on number of deactivated ONUs per PON not supported yet)
configure channel-pair interface deact-ont-tca threshold-percent (alarms on number of deactivated ONUs per PON not supported yet)
configure pon interface deact-ont-tca (alarms on number of deactivated ONUs per PON not supported yet)
configure pon interface deact-ont-tca threshold-number (alarms on number of deactivated ONUs per PON not supported yet)
configure pon interface deact-ont-tca threshold-percent (alarms on number of deactivated ONUs per PON not supported yet)
configure software-mngt oswp (new parameter on-schedule-time not supported yet)
configure system (new parameter arp-tca-threshold not supported yet)
show alarm query channel-pair chpr-deact (alarms on number of deactivated ONUs per PON not supported yet)
show software-mngt oswp (new display items on-schedule-time not supported yet)

Command delta R5.8 versus R5.7.01

Modified Commands

admin software-mngt database (IPv6 Management)
admin system fips (support FIPS 140-2 CAPABLE)

admin system techsupport (default for parameter doactivate changed to enable)
configure alarm entry (cleanup unsupported alarms network-power-loss, hw-fault,ont-ploam-loss-frame, sfu-ploam-loss-frame, soho-ploam-loss-frame, mdu-ploam-loss-frame, olt-gen-pon-prot-na, olt-gen-pon-prot-act. New alarm ont-ip-host-file, tod-reference-fail. Alarms on number of deactivated ONUs per PON not supported yet.)
configure alarm filter filterid (Alarm list updated)
configure bridge port (support full TPID translation FELT-B VULA uplink)
configure bridge port vlan-id (C-VLAN p-bit marking on S-VLAN tunnel Cross-Connect)
configure bridge port vlan-id (policer instance sharing across multiple VLAN Ports on the same Bridge Port with groupid)
configure channel-group id subchannel-group id (parameter cpi and extended range for scg-id to 4 not supported yet)
configure channel-pair interface (configure TCA alarms for U-NGPON: BER period and thresholds)
configure equipment slot (modified parameter capab-profile)
configure ethernet line mau (support for 2.5GBase SFP. Note: in order to support smooth migration from 1G to 2.5 cases, it is proposed to use 1000baselxfid for newly qualified(R58) optics 3FE47061AA and AB)
configure interface alarm (support alarm interface type ds1)
configure l2uni ont performance-monitor (support 64-Bit counter via standard OMCI)
configure linetest cluster ltparm test-name (SIP: add capability to initiate via CLI/AMS (SNMP) a voice call to the destination number)
configure linetest cluster ltsession (SIP: add capability to initiate via CLI/AMS (SNMP) a voice call to the destination number)
configure linetest single ltparm test-name (SIP: add capability to initiate via CLI/AMS (SNMP) a voice call to the destination number)
configure linetest single ltsession (SIP: add capability to initiate via CLI/AMS (SNMP) a voice call to the destination number)
configure pon interface (parameter pon-speed can be used to configure the planned PON speed)
configure qos interface (improvement for Qos Interface parameter)
configure qos tca (index) queue (improvement for Qos Interface parameter)
configure software-mngt database (IPv6 Management)
configure software-mngt oswp (IPv6 Management)
configure software-mngt sw-replacement-mode (ISSU (In Service Software Upgrade) of 7360 FX, leveraging on Type-B redundancy [GPON/XGS-PON])
configure system fips (support FIPS 140-2 CAPABLE)
configure system loop-id-syntax (note: ONT and OntMAC are only limited to EPON and not usable for GPON)
configure system security default-profile (allow to create a new user with lldp-med priviledge)
configure system security profile (allow to create a new user with lldp-med priviledge)
configure system security snmp community (IPv6 Management)
configure system security snmp manager (IPv6 Management)
configure system syslog destination (IPv6 Management)

configure tr069serv ont (support VEIP on 10G OLT full parity with GPON)
configure trap definition (IPv6 Management)
configure trap manager (IPv6 Management)
configure veip ont l2 (support 64-Bit counter via standard OMCI)
configure voice sip dnserver (support Voice IPv6 Management and SIP common voice package IPv6)
configure voice sip isdn-cas-term (ISAMV NIAT: SIP CAS/R2 support)
configure voice sip manipulate-rule (digit manipulation system-level rule support and migration)
configure voice sip server (support Voice IPv6 Management and SIP common voice package IPv6)
configure voice sip termination (ISAM-V SIP: capability to enable or disable Decadic Dialing per port or line)
configure voice sip user-agent (support Voice IPv6 Management and SIP common voice package IPv6)
configure voice sip user-agent-ap slot-id (support Voice IPv6 Management and SIP common voice package IPv6)
configure voice sip vsp (support Voice IPv6 Management and SIP common voice package IPv6)
show alarm query eqpt-holder-ext (cleanup unsupported alarms network-power-loss hw-fault)
show alarm query mdm-ploam (cleanup unsupported alarm mdm-ploam-loss-frame)
show alarm query name (updated supported alarm list)
show alarm query olt-gen (cleanup unsupported alarms olt-gen-pon-prot-na olt-gen-pon-prot-act, add alarms olt-gen-sfp-mism, not supported yet: olt-gen-deact-hightca olt-gen-deact-lowtca)
show alarm query ont-ploam (cleanup unsupported alarm ont-ploam-loss-frame)
show alarm query ont-voip (support query of ont services alarms)
show alarm query sfu-ploam (cleanup unsupported alarm sfu-ploam-loss-frame)
show alarm query sync (support new alarms holdover tod-reference-fail)
show equipment transceiver-inventory (support for 2.5GBase SFP)
show ethernet mau (support for 2.5GBase SFP)
show interface alarm (support alarm interface type ds1)
show linetest cluster lineid-ext-rept (SIP: add capability to initiate via CLI/AMS (SNMP) a voice call to the destination number)
show linetest single lineid-ext-rept (SIP: add capability to initiate via CLI/AMS (SNMP) a voice call to the destination number)
show pon unprovision-onu (add actual-us-rate to show the actual upstream rate)
show qos interface-bandwidth (improvement for Qos Interface parameter)
show qos statistics color-queue current-15min (improvement for Qos Interface parameter)
show qos statistics color-queue prev-15min (improvement for Qos Interface parameter)
show qos statistics queue current-15min (improvement for Qos Interface parameter)
show qos statistics queue prev-15min (improvement for Qos Interface parameter)
show software-mngt upgrade-plan (ISSU (In Service Software Upgrade) of 7360 FX, leveraging on Type-B redundancy [GPON/XGS-PON])
show software-mngt upgrade-status (ISSU (In Service Software Upgrade) of 7360 FX, leveraging on Type-B redundancy [GPON/XGS-PON])

show system fips (support FIPS 140-2 CAPABLE)
show system license ("add ""Local Stand Alone and Emergency call"" license")
show trap manager (IPv6 Management)
show voice sip isdn-cas-term (support Voice IPv6 Management and SIP common voice package IPv6)
show voice sip redundancy-node (support Voice IPv6 Management and SIP common voice package IPv6)
show voice sip server (support Voice IPv6 Management and SIP common voice package IPv6)
show voice sip termination (support Voice IPv6 Management and SIP common voice package IPv6)

New Commands

configure ai (enabling ai commands)
configure ai application (enabling ai commands)
configure ai platform (enabling ai commands)
configure ai platform virtualplatform (enabling ai commands)
configure system security cpu-protection (protocol rate limiting for DoS protection)
configure system security filetransfer serverv6 (IPv6 Management)
configure system security mgmt-ipv6-addr (IPv6 Management)
configure system sntp server-table ipv6-address (IPv6 Management)
configure trap v6manager (IPv6 Management)
show ai (enabling ai commands)
show ai application (enabling ai commands)
show ai platform (enabling ai commands)
show ai platform-application (enabling ai commands)
show alarm query ont-ani (enabling ont-ani alarm display)
show ip (IPv6 management over iHUB)
show l2uni ont performance-data-64bit (support 64-Bit counter via standard OMCI)
show l2uni ont performance-data-64bit current-interval (support 64-Bit counter via standard OMCI)
show l2uni ont performance-data-64bit previous-interval (support 64-Bit counter via standard OMCI)
show sntp server-tablev6 (IPv6 Management)
show system security cpu-protection (protocol rate limiting for DoS protection)
show system sync-ptp-client (extend clock trace info)
show system sync-ptp-currmaster (extend clock trace info)
show system sync-ptp-inmasters (extend clock trace info)
show system sync-ptp-mstrport (extend clock trace info)
show system sync-ptp-mstrprofile (extend clock trace info)
show system sync-ptp-slaveport (extend clock trace info)
show trap v6manager (IPv6 Management)

Removed Commands

admin cable (command tree removed as DPoE not supported any more)
admin cm (command tree removed as DPoE not supported any more)
admin cmts (command tree removed as DPoE not supported any more)
admin config-file (command tree removed as DPoE not supported any more)
admin interface cable (command tree removed as DPoE not supported any more)
configure cm (command tree removed as DPoE not supported any more)
configure cmts (command tree removed as DPoE not supported any more)
configure dpoe (command tree removed as DPoE not supported any more)
show cable (command tree removed as DPoE not supported any more)
show cmts (command tree removed as DPoE not supported any more)
show config-file (command tree removed as DPoE not supported any more)
show dpoe (command tree removed as DPoE not supported any more)
show gre (command tree removed as DPoE not supported any more)
show interface cable (command tree removed as DPoE not supported any more)
show interface dpoe (command tree removed as DPoE not supported any more)
show system sync-if-timing-master (replaced by show system sync-ptp-currmaster)
show system sync-if-timing-profile (replaced by show system sync-ptp-mstrprofile)
show system sync-if-timing-ptp (replaced by show system sync-ptp-slaveport)

Commands or commands with parameters for future use, not supported yet

admin equipment ont interface (parameter optitrans-disable-time not supported yet)
configure equipment ont interface delay-act (command not supported yet)
configure equipment ont interface onu-tssi-detect (command not supported yet)
configure equipment ont pm-collect (command not supported yet)
configure equipment ont sw-ctrl delay-act (command not supported yet)
configure system sync-if-timing ssmout-ltport (parameter ng2 not supported yet)
configure voice ont pots (parameters transmit-path nominal-feed-vol not supported yet)
configure voice sip redundancy (parameter auto-srv-fo-tmr not supported yet)
show alarm query channel-pair (alarm chpr-deact-hightca and chpr-deact-lowtca not supported yet)
show alarm query mdu-sup (alarm mdu-opti-malfunc not supported yet)
show alarm query ont (alarm ont-opti-malfunc not supported yet)
show alarm query ont-iphost (parameter ont-ip-host-file not supported yet)
show alarm query plug-in-unit-ext (support new alarm mgnt-type-mismatch)
show alarm query sfu-sup (alarm sfu-opti-malfunc not supported yet)
show alarm query soho-sup (alarm soho-opti-malfunc not supported yet)
show equipment ont xg-mgmt (command not supported yet)
show equipment ont xg-mgmt ont-side (command not supported yet)
show equipment ont xg-mgmt ont-side current-interval (command not supported yet)

show equipment ont xg-mgmt ont-side previous-interval (command not supported yet)

Command delta R5.7.01 versus R5.7

Modified Commands
admin cfm mclbm (command node definition updated)
admin channel-pair diagnostic (support channel-pair for alien ONU detection on XGS-PON)
admin port-protection activate (Type-B protection support on XGS-PON)
admin system techsupport gen-on-demand (corrections in the CLI interface to support nt-b)
configure alarm entry (add CAS R2 Channel alarms, support LLDP alarms and for mismatch between actual and planned upstream rate, qsf alarm)
configure alarm filter filterid (Alarm list updated)
configure equipment slot (support for 24port xDSL)
configure ethernet ont (Power over Ethernet enhancements)
configure interface port (update port parameters display)
configure linetest single ltparm test-name (update ISAM-V NIAT-A CAS R2 specification and update input parameters for R2 loopback test)
configure linetest single ltsession (update ISAM-V NIAT-A CAS R2 specification)
configure port-protection paired-port (Type-B protection support on XGS-PON)
configure trap definition (add support for SW Upgrade Finished trap)
configure voice cluster equipment termination (ISAM-V: support per line configuration of dialed digit manipulation rules and per line configurable line signal)
configure voice sip cas-r2-timer (update ISAMv NIAT-A CAS R2 specification)
configure voice sip isdn-cas-term (ISAM-V: support per line configuration of dialed digit manipulation rules)
configure voice sip manipulate-rule (ISAM-V: support per line configuration of dialed digit manipulation rules)
configure voice sip termination (ISAM-V: support per line configuration of dialed digit manipulation rules and per line configurable line signal)
show alarm current e1-sip-termination (support CAS/R2 for NIAT-A SIP ETSI)
show alarm log e1-sip-termination (support CAS/R2 for NIAT-A SIP ETSI)
show alarm query bulk-sync (Type-B protection support on XGS-PON)
show alarm query channel-pair (support channel-pair for alien ONU detection on XGS-PON)
show alarm query mdu-gen (add alarm for mismatch between actual and planned upstream rate)
show alarm query mdu-sup (update alarm list, Power over Ethernet enhancements alarm mdu-sup-poe-over-yell supported)
show alarm query name (alarm list updated)
show alarm query ont (Power over Ethernet enhancements alarm ont-poe-overload-yell supported)
show alarm query ont-gen (add alarm for mismatch between actual and planned upstream rate)
show alarm query protection-group (Type-B protection support on XGS-PON)

show alarm query sfu-gen (add alarm for mismatch between actual and planned upstream rate)
show alarm query sfu-sup (updated alarm list, Power over Ethernet enhancements alarm sfu-sup-poe-over-yell supported)
show alarm query soho-sup (updated alarm list, Power over Ethernet enhancements alarm soho-sup-poe-over-yell supported)
show alarm snap-shot e1-sip-termination (support CAS/R2 for NIAT-A SIP ETSI)
show channel-pair diagnostic (support channel-pair for alien ONU detection on XGS-PON)
show equipment capab-profile (support for 24port xDSL)
show equipment transceiver-inventory (support new longer reach bidirectional optics)
show ethernet ont operational-data (Power over Ethernet enhancements)
show linetest single lineid-ext-rept (update ISAM-V NIAT-A CAS R2 specification and update input parameters for R2 loopback test)
show port-protection (Type-B protection support on XGS-PON)

New Commands

admin cfm mclbm domain lbm-tlv-type (add McLbm TlvType parameter for user to configure the mclbm message TLV part)
configure lldp-med (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
configure lldp-med media-policy (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
configure lldp-med port (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
configure voice extline (support ISAMv SIP Analog Extension Line Service)
show alarm current cas-r2-channel (ISAM-V: SIP: R2: NIAT-A: ETSI: support cas-r2-channel alarm)
show alarm current lldpmed (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
show alarm log cas-r2-channel (ISAM-V: SIP: R2: NIAT-A: ETSI: support cas-r2-channel alarm)
show alarm log lldpmed (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
show alarm query lldpmed (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
show alarm snap-shot cas-r2-channel (ISAM-V: SIP: R2: NIAT-A: ETSI: support cas-r2-channel alarm)
show alarm snap-shot lldpmed (support LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) phase 2 (OLT part))
show voice extline (support ISAMv SIP Analog Extension Line Service)

Commands or commands with parameters for future use, not supported yet

configure li_vlan vlan-id (command not supported)
configure pon interface (parameter pon-speed not supported yet)
configure software-mngt sw-replacement-mode (command not supported yet)
show software-mngt upgrade-plan (command not supported yet)

show software-mngt upgrade-status (command not supported yet)

Command delta R5.7 versus R5.6.01

Modified Commands
admin system security ssh generate-key (SSH security improvements, upgrade openSSL and default key pair removal)
admin trouble-shooting pbit interface (support enabling pbit counter on VLAN port level)
configure alarm entry (sip-isdnpratermination alarms replaced by e1-sip-termination, add alarm to see if CPE is not supporting 35b, alien and poe alarms not supported yet)
configure alarm filter filterid (supported alarm list updated)
configure equipment shelf (introduction of new 7362 ISAM SF-8GW product, renamed ngpon_port_reduced to ngpon-port-reduced)
configure ethernet ont (support ability to display 2.5G SFP ONT link speed)
configure interface port (port-type redefined)
configure qos profiles queue (Increase configurable queue size on fiber LTs)
configure system security ssh server-profile (SSH security improvements, upgrade openSSL and default key pair removal)
configure system sync-if-timing ptp master-port (none' option removed from MasterPortProfile)
configure system sync-if-timing ptp ptp-domain (removal of the CLI cmd support of FANTG PTP port 2)
configure system sync-if-timing ptp slave-port-dataset (removal of the CLI cmd support of FANTG PTP port 2)
configure system sync-if-timing ptp tx-protocol (removal of the CLI cmd support of FANTG PTP port 2)
configure system sync-if-timing ssmout-synce (ToD sync redundancy support)
configure system sync-if-timing synce (ToD sync redundancy support)
configure trouble-shooting pbit statistics interface (support enabling pbit counter on VLAN port level)
configure voice sip isdn-cas-term (support CAS/R2 for NIAT-A SIP ETSI)
configure voice sip lineid-syn-prof (support CAS/R2 for NIAT-A SIP ETSI)
configure xdsl rtx-profile (min Impulse Noise Protection shine/rein Dn/Up with a subcarrier spacing of 8.625 Khz supported in annexC)
configure xdsl service-profile (min Impulse Noise Protection shine/rein Dn/Up with a subcarrier spacing of 8.625 Khz supported in annexC)
show interface port (updated interface port display)
show alarm (supported alarm list updated)
show alarm query name (supported alarm list updated)
show efm-oam mac-stats (improved Ethernet OAM statistic retrieval)
show equipment slot (support remote inventory for 7360 ISAM FX-8 AC redundant power units)
show equipment transceiver-inventory (new SFP types added)
show ethernet ont operational-data interface (support ability to display 2.5G SFP ONT link speed)
show iphost ont operational-data (retrieve the hostname of the snmp managed MDU)

show mcast active-groups detail (display currently joined HostIP for IGMP control channel)
show security ssh server (SSH security improvements, upgrade openssl and default key pair removal)
show snmp (add display of the boottime of the ISAM)
show system sync-if-timing tod-ref-order prio2 (ToD sync redundancy support)
show system sync-if-timing-master (removal of the CLI cmd support of FANTG PTP port 2)
show system sync-if-timing-ptp (removal of the CLI cmd support of FANTG PTP port 2)
show system sync-if-timing-tod (ToD sync redundancy support)
show voice sip isdn-cas-term (support CAS/R2 for NIAT-A SIP ETSI)
show xdsl failure-status far-end (Alarm for CPE not supporting xdsl 35b mode)

New Commands

clear qos-servicerouter (clear queue statistics on iHub ingress/egress forwarding class)
configure subscriber-mgmt (DHCP server allows allocating a fixed IP to a fixed subscriber or dynamically assigned IP)
configure system sync-if-timing tod holdover-spec (ToD sync redundancy support)
configure voice sip cas-r2-timer (support CAS/R2 for NIAT-A SIP ETSI)
remote-debug (OLT support for remote debug of 3rd party ONT via standard OMCI ME)
remote-debug ont (OLT support for remote debug of 3rd party ONT via standard OMCI ME)
show equipment ont status (single command to show ONU summary info)
show equipment ont status channel-pair (single command to show ONU summary info)
show equipment ont status pon (single command to show ONU summary info)
show security ssh server-key-status (SSH security improvements, upgrade openssl and default key pair removal)
show subscriber-mgmt (DHCP server allows allocating a fixed IP to a fixed subscriber or dynamically assigned IP)

Removed Commands

configure system sync-if-timing ptp ont-master-port (obsolete command replaced by configure system sync-if-timing ptp master-port)
show alarm current sip-isdnpratermination (support CAS/R2 for NIAT-A SIP ETSI, sip-isdnpratermination alarms not supported yet and replaced by e1-sip-termination)
show alarm log sip-isdnpratermination (support CAS/R2 for NIAT-A SIP ETSI, sip-isdnpratermination alarms not supported yet and replaced by e1-sip-termination)
show alarm snap-shot sip-isdnpratermination (support CAS/R2 for NIAT-A SIP ETSI, sip-isdnpratermination alarms not supported yet and replaced by e1-sip-termination)

Commands or commands with parameters for future use, not supported yet

admin channel-pair diagnostic (alien ONU detection on XGS-PON not supported yet)
admin port-protection activate (Type-B protection support on XGS-PON not supported yet)
admin system fips (fips not supported yet)
configure port-protection paired-port (Type-B protection support on XGS-PON not supported yet)

configure snmp-agent ont (NG-PON2 index is not supported yet)
configure system fips (fips not supported yet)
configure system security cdr-pm-file (call records not fully supported)
configure system security cdr-pm-file upload (call records not fully supported)
configure system syslog route msg-type (parameter ont-prov-status not supported yet)
configure trap definition (parameter ont-prov-status and new-ont-alm not supported yet)
configure trap manager (parameter ont-prov-status and new-ont-alm not supported yet)
configure voice ont mgc-agent (H248/Megaco on 10G Cards not supported yet)
configure voice ont service (H248/Megaco on 10G Cards not supported yet)
configure voice sip statistics (support per-node 5-min statistics)
show alarm current e1-sip-termination (support CAS/R2 for NIAT-A SIP ETSI)
show alarm log e1-sip-termination (support CAS/R2 for NIAT-A SIP ETSI)
show alarm query bulk-sync (Type-B protection support on XGS-PON not supported yet)
show alarm query channel-pair (alien ONU detection on XGS-PON not supported yet)
show alarm query mdu-sup (update alarm list, Power over Ethernet enhancements alarm mdu-sup-poe-over-yell not supported yet)
show alarm query ont (Power over Ethernet enhancements alarm ont-poe-overload-yell not supported yet)
show alarm query ont-voip (H248/Megaco on 10G Cards not supported yet)
show alarm query protection-group (Type-B protection support on XGS-PON not supported yet)
show alarm query sfu-sup (updated alarm list, Power over Ethernet enhancements alarm sfu-sup-poe-over-yell not supported yet)
show alarm query soho-sup (updated alarm list, Power over Ethernet enhancements alarm soho-sup-poe-over-yell not supported yet)
show alarm snap-shot e1-sip-termination (support CAS/R2 for NIAT-A SIP ETSI)
show channel-pair diagnostic (alien ONU display on XGS-PON not supported yet)
show port-protection (Type-B protection support on XGS-PON not supported yet)
show security cdr-pm-file (call records not fully supported)
show security cdr-pm-file upload (call records not fully supported)
show system fips (fips not supported yet)
show voice ont pots tc-layer olt-side current-interval (H248/Megaco on 10G Cards not supported yet)
show voice ont pots tc-layer olt-side previous-interval (H248/Megaco on 10G Cards not supported yet)
show voice ont pots tc-layer ont-side current-interval (H248/Megaco on 10G Cards not supported yet)
show voice ont pots tc-layer ont-side previous-interval (H248/Megaco on 10G Cards not supported yet)
show voice ont service (H248/Megaco on 10G Cards not supported yet)
show voice ont voip-vip-prof operational-data input-profile (H248/Megaco on 10G Cards not supported yet)

Command delta R5.6.01 versus R5.6

Modified Commands
admin system techsupport gen-on-demand (added range check for session ID parameter)
admin voice cluster equipment sharedline-port-id (support ISAMV-H248 NPOTS shared lines)
commands using the shelf ID (On 7360 ISAM FX, the number of shelves supported has been increased from 4 to 11. Due to this change, the autocompletion for the shelf parameter has changed (similar to the slot parameter): rack/shelf : for 1/2, auto-completion will work. For 1/1, the operator is to enter / (for shelf 1) or 0 (for shelf 10) or 1 (for shelf 11))
configure alarm entry (new alarms for ethernet ring, H248 NPOTS shared line. E1 alarms)
configure alarm filter filterid (update list of alarms)
configure channel-group id subchannel-group id (updated range parameter values)
configure cmts system (improve the Queue Management on the DPoE ONUs by allocating buffer sizes)
configure e1 line (TDM support for 8 E1 ports on the NSLT-D)
configure equipment external-link-assign (improvement to to restrict the rack/shelf of the SFP)
configure equipment shelf ("XG-PON1 ""only"" mode of operation")
configure interface port (NNI Mode Support on NDLT-G bonded lines)
configure interface port (TDM support for 8 E1 ports on the NSLT-D)
configure linetest cluster ltparm test-name (corrected test parameter description)
configure linetest cluster ltsession (corrected test parameter description)
configure linetest single ltparm test-name (support ISDN PRA loopback parameters (ISDN PRA parameters are still not supported for H.248) and corrected test parameter description)
configure linetest single ltsession (support ISDN PRA loopback parameters (ISDN PRA parameters are still not supported for H.248) and corrected test parameter description)
configure pon interface (add new authentication mode for CMCC)
configure qos profiles bandwidth (DBRu default is enable-if-supported, to improve throughput on upstream PON link, after migration the value is put at disable)
configure qos profiles queue (NNI Mode Support on NDLT-G bonded lines)
configure system (periph-mgmt-ctrl default value set to disable)
configure system security (POL: access control and dynamic VLAN assignment)
configure system security pae ext-authenticator (POL: access control and dynamic VLAN assignment)
configure system sync-if-timing ptp (removed not supported two-step TC mode)
configure trap definition (POL: access control and dynamic VLAN assignment)
configure trap manager (POL: access control and dynamic VLAN assignment)
configure vlan id (POL: access control and dynamic VLAN assignment)
configure voice cluster equipment sharedlineterm (support ISAMV-H248 NPOTS shared lines)
configure voice lsa-server emergency-service (support standalone SIP Emergency Call)
configure voice sip isdn-cas-term (ISAM Voice NIAT-A : assign SIP rules for a termination port)
show alarm query authentication (add authentication alarms)
show alarm query ellid (TDM support for 8 E1 ports on the NSLT-D)
show alarm query epon (TDM support for 8 E1 ports on the NSLT-D)
show alarm query ihub-ipv6 (update for new alarm ihub-ipv6-dup-pd-route)

show alarm query name (update list of alarms)
show alarm query otdr (TDM support for 8 E1 ports on the NSLT-D)
show alarm query sync (corrected pop-up message)
show ani ont video (VZ: Video Rx Management and Alarm Improvement)
show ani ont video-stats (VZ: Video Rx Management and Alarm Improvement)
show cable modem (improve the Queue Management on the DPoE ONUs by allocating buffer sizes)
show equipment external-link-host (improvement to to restrict the rack/shelf of the SFP)
show interface port (TDM support for 8 E1 ports on the NSLT-D)
show interface stack (TDM support for 8 E1 ports on the NSLT-D)
show interface test (TDM support for 8 E1 ports on the NSLT-D)
show linetest cluster ltline (parameter value mta-testing obsoleted due to end of MTA support)
show linetest single lineid-ext-rept (support ISDN PRA parameters (ISDN PRA parameters are still not supported for H.248))
show linetest single ltline (parameter value mta-testing obsoleted due to end of MTA support)
show pon unprovision-onu (add new field to indicate ONT type)
show voice cluster sharedlineterm (support ISAMV-H248 NPOTS shared lines)
show voice cluster termination (parameter value mta-testing obsoleted due to end of MTA support)
show voice isa-emergency (support standalone SIP Emergency Call)
show voice isa-emergency state (support standalone SIP Emergency Call)
show voice sip isdn-cas-term (ISAM Voice NIAT-A : assign SIP rules for a termination port)
show voice sip termination (parameter value mta-testing obsoleted due to end of MTA support)

New Commands

admin e1 (TDM support for 8 E1 ports on the NSLT-D)
admin e1 diagnos-test (TDM support for 8 E1 ports on the NSLT-D)
admin security mac-diag mac-addr (POL: access control and dynamic VLAN assignment)
configure system dst (support Daylight Savings Time)
configure system dst date (support Daylight Savings Time)
configure system dst recurring (support Daylight Savings Time)
show alarm current e1 (TDM support for 8 E1 ports on the NSLT-D)
show alarm current ethernet-ring (support ring with ERPS (G.8032) alarms)
show alarm current secondary-megaco-term (display alarms for shared lines)
show alarm current secondary-sip-term (display alarms for shared lines)
show alarm log e1 (TDM support for 8 E1 ports on the NSLT-D)
show alarm log ethernet-ring (support ring with ERPS (G.8032) alarms)
show alarm log secondary-megaco-term (display alarms for shared lines)
show alarm log secondary-sip-term (display alarms for shared lines)
show alarm query secondary-megaco-term (display alarms for shared lines)

show alarm query secondary-sip-term (display alarms for shared lines)
show alarm snap-shot e1 (TDM support for 8 E1 ports on the NSLT-D)
show alarm snap-shot ethernet-ring (support ring with ERPS (G.8032) alarms)
show alarm snap-shot secondary-megaco-term (display alarms for shared lines)
show alarm snap-shot secondary-sip-term (display alarms for shared lines)
show e1 diagnostest-status (TDM support for 8 E1 ports on the NSLT-D)
show e1-counters (TDM support for 8 E1 ports on the NSLT-D)
show e1-counters current-1day (TDM support for 8 E1 ports on the NSLT-D)
show e1-counters current-interval (TDM support for 8 E1 ports on the NSLT-D)
show e1-counters previous-1day (TDM support for 8 E1 ports on the NSLT-D)
show e1-counters previous-interval (TDM support for 8 E1 ports on the NSLT-D)
show gre (GRE and Routing support on tunnel)
show security pae mac-authenticator (POL: access control and dynamic VLAN assignment)
show security pae mac-diagnostics (POL: access control and dynamic VLAN assignment)
show system dst (support Daylight Savings Time)
show system dst date-table (support Daylight Savings Time)
show system dst recurring-table (support Daylight Savings Time)

Commands or commands with parameters for future use, not supported yet

admin port-protection activate (Type-B protection support on XGS-PON not supported yet)
configure equipment ont gis (MII Universal BB Service: Location Config Data OLT part)
configure generic-pon gis-info (MII Universal BB Service: Location Config Data OLT part)
configure port-protection paired-port (Type-B protection support on XGS-PON not supported yet)
configure system security default-profile (parameter livoice not supported)
configure system security profile (parameter livoice not supported)
configure voice cluster equipment termination li (command not supported)
show equipment ont gis (MII Universal BB Service: Location Config Data OLT part)
show equipment slot (parameters bat-a bat-b not supported yet)
show port-protection (Type-B protection support on XGS-PON not supported yet)

Command delta R5.6 versus R5.5.01

Modified Commands

admin cable modem (support DPOE show commands with IPv6 options)
admin cm uniport (support DPOE show commands with IPv6 options)
admin equipment ont interface (support User Commanded on-the-fly ONU movement)
admin equipment slot (add the restrt-cnt-per-lt counter)
admin equipment slot (add the restrt-cnt-per-lt counter)

admin system techsupport gen-on-demand (added range for techsupport session id parameter)
admin voice cluster equipment port-id (updated portid specification)
configure alarm entry (new alarm no-unpinned-free-ports and ihub-ipv6-dup-pd-route inlet tempera)
configure alarm filter filterid (updated alarm list)
configure cfm domain association (updated specification of InterfaceZeroIndex)
configure cmts ipdr-global (update DPoE Multicast and IPDR)
configure cmts serving-group (DPoE: IPv6 ICMPv6 security improvements)
configure cmts system (DPoE: Prefix Stability Enhancement)
configure equipment ont interface (support User Commanded on-the-fly ONU movement)
configure linetest cluster ltparm test-name (parameters for ISDN PRA not supported yet)
configure linetest single ltparm test-name (parameters for ISDN PRA not supported yet)
configure linetest single ltsession (new parameters isdn-pra-remotelb, isdn-pra-ploadlb, isdn-pra-localb, isdn-pra-cablelb not supported yet)
configure pon uri-prof (add ability to modify the SIPING Server Network Address Profile (SSNAP))
configure qos interface (identify downstream scheduler reference to prevent improper input)
configure qos profiles policy-action (support NNI Inc. 2 on FELT-B)
configure system (new parameters arp-polling-inter bsnap-state bsnap-server-ip bsnap-server-port not supported yet)
configure system (support alarm generation for LEMI on RANT-A)
configure system security default-profile (update for password timeout for an operator with default-profile)
configure system security snmp manager (context ihub added)
configure system sync-if-timing ptp (update support for TOD over FANT-G)
configure system sync-if-timing ptp accept-master (update support for TOD over FANT-G)
configure system sync-if-timing ptp ptp-domain (update support for TOD over FANT-G)
configure system sync-if-timing ptp slave-port-dataset (parameter values changed from ieee1588-a ieee1588-b to ieee1588-a:1 ieee1588-b:1 ieee1588-a:2 ieee1588-b:2")
configure system sync-if-timing ptp tx-protocol (parameter values changed from ieee1588-a ieee1588-b to ieee1588-a:1 ieee1588-b:1 ieee1588-a:2 ieee1588-b:2")
configure system sync-if-timing ssmout-synce (removed obsolete value none from parameter SynceOutFaceplateNumber)
configure trap manager (support dying gasp feature in software method)
configure vlan id (improved ARP snooping and polling)
configure vlan id (support L2 DHCP relay agent on NNI interfaces in order to support autoconfiguration of a connected node in a daisy chain or ring topology)
configure voice ont uri-prof (add ability to modify the SIPING Server Network Address Profile (SSNAP))
configure voice sip vsp (support SIP INFO DTMF relay function)
configure xdsl-bonding group-assembly-time (introduce new bonding initialization strategy)
configure xdsl-bonding group-profile (introduce new bonding initialization strategy)

show alarm query eqpt-holder-ext (add 7363 ISAM MX temperature inlet alarm)
show alarm query lag (support pinning an S-VLAN to a member uplink when multiple uplinks are present in a LAG)
show alarm query name (updated alarm list)
show cable config-file (support DPOE show commands with IPv6 options)
show cable modem (support DPOE show commands with IPv6 options)
show dpoe onu (support DPOE show commands with IPv6 options)
show dpoe profile pw-class name (support DPOE show commands with IPv6 options)
show dpoe profile vpls-class name (support DPOE show commands with IPv6 options)
show dpoe profile vpn-sg name (support DPOE show commands with IPv6 options)
show dpoe service vpls ip-addr (support DPOE show commands with IPv6 options)
show dpoe service vpws ip-addr (support DPOE show commands with IPv6 options)
show interface cable (support DPOE show commands with IPv6 options)
show linetest single lineid-ext-rept (new parameters isdn-pra-remotelb, isdn-pra-ploadlb, isdn-pra-locallb, isdn-pra-cablelb not supported yet)
show linetest single ltline (ISAMV: SIP NPOTs to support shared lines)
show system sync-if-timing-master (update support for TOD over FANT-G)
show system sync-if-timing-ptp (update support for TOD over FANT-G)
show trouble-shooting statistics uni-interface (improved trouble-shooting statistics display)
show voice sip termination (ISAMV: SIP NPOTs to support shared lines)
show xdsl-bonding actual-ptm-init-mode (introduce new bonding initialization strategy)
show xdsl-bonding operational-data link (introduce new bonding initialization strategy)

New Commands

admin trouble-shooting color (support NNI Inc. 2 on FELT-B)
admin trouble-shooting color interface (support NNI Inc. 2 on FELT-B)
admin voice cluster equipment port-id (updated portid specification)
admin voice cluster equipment sharedline-port-id (ISAMV: SIP NPOTs to support shared lines)
clear log (command to clear log id 99 and 100)
configure system relay-id-syntax (support L2 DHCP relay agent on NNI interfaces in order to support autoconfiguration of a connected node in a daisy chain or ring topology)
configure system sync-if-timing ptp link-port-compensation (support IEEE 1588 ToD TC on MOOC Downlink on FELT-B)
configure system sync-if-timing ptp master-port (improved PTP Master port creation with VLAN ID)
configure trouble-shooting color (support NNI Inc. 2 on FELT-B)
configure trouble-shooting color statistics (support NNI Inc. 2 on FELT-B)
configure trouble-shooting color statistics interface (support NNI Inc. 2 on FELT-B)
configure voice cluster equipment sharedlineterm (ISAMV: SIP NPOTs to support shared lines)
configure voice sip manipulate-rule (ISAMV: SIP NPOTs to support shared lines)

configure voice sip sharedline (ISAMV: SIP NPOTs to support shared lines)
show dpoe onu (support DPOE show commands with IPv6 options)
show trouble-shooting color (support NNI Inc. 2 on FELT-B)
show trouble-shooting color statistics (support NNI Inc. 2 on FELT-B)
show trouble-shooting color statistics interface (support NNI Inc. 2 on FELT-B)
show voice cluster sharedlineterm (ISAMV: SIP NPOTs to support shared lines)
show voice sip sharedline (ISAMV: SIP NPOTs to support shared lines)
show xdsl-bonding actual-ptm-init-mode (introduce new bonding initialization strategy)

Commands or commands with parameters for future use, not supported yet

configure cmts li (not supported command)
configure e1 line (TDM support for 8 E1 ports on the NSLT-D Phase 2)
configure interface port (parameter e1-line not supported yet)
configure voice cluster equipment termination li (command not supported)
configure voice lsa-server emergency-service (command not supported)
show alarm query ellid (parameter e1-line not supported yet)
show alarm query epon (parameter e1-line not supported yet)
show alarm query ihub-ipv6 (update for new alarm ihub-ipv6-dup-pd-route)
show alarm query otdr (parameter e1-line not supported yet)
show interface port (parameter e1-line not supported yet)
show interface stack (parameter e1-line not supported yet)
show interface test (parameter e1-line not supported yet)
show voice lsa-emergency (command not supported)
show voice lsa-emergency state (command not supported)

Command delta R5.5.01 versus R5.5

Modified Commands

admin equipment ont interface (allow ISAM to trigger a reboot of an ONU via proprietary PLOAM)
admin software-mngt oswp (enable activation with a default database retaining management link)
admin trouble-shooting pbit interface (updated interface index format)
configure alarm entry (ais-signal, los-signal, rai-signal replaced by new isdn- alarms. New alarms for Ethernet ring and lsa-fo-trigger. Duplicate alarm sem-ups-fail replaced by sem-ups-low-volt, new power alarms)
configure alarm filter filterid (update for alarm changes)
configure bridge port (support configurable Downstream p-bit translation behavior)
configure channel-pair interface (XGS-PON on 7360 ISAM FX including XG-PON1 and dual rate)
configure channel-pair profiles (XGS-PON on 7360 ISAM FX including XG-PON1 and dual rate)
configure equipment external-link-assign (updated index parameter values)

configure equipment ont interface (Flush MAC in LT FDB automatically when ONT is rebooted/power-cycled or when a UNI goes down)
configure equipment ont interface (XGS-PON on 7360 ISAM FX including XG-PON1 and dual rate)
configure equipment slot lt (support for ISAMV ISDN SIP on NIAT-A board)
configure system security (support for configuring the number of CLI sessions and the operator login retry policy)
configure system security domain (support for configuring the number of CLI sessions)
configure system security operator (support for configuring the number of CLI sessions)
configure trouble-shooting pbit statistics (updated interface index format)
configure voice sip lineid-syn-prof (support for ISAMV ISDN SIP on NIAT-A board)
show alarm query eqpt-holder-ext (alarm sem-ups-fail replaced by improved alarm sem-ups-low-volt, new power alarms)
show alarm query name (update for alarm changes)
show alarm query sip-termination (removed obsolete ISDN alarms)
show equipment external-link-host (updated index parameter values)
show equipment ont interface (XGS-PON on 7360 ISAM FX including XG-PON1 and dual rate (note: in this release, it will always report as unknown))
show equipment ont ng2-sw-download (Universal NG-PON: OMCI Pre-Configuration download)
show equipment ont ng2-sw-download channel-group (Universal NG-PON: OMCI Pre-Configuration download)
show system license (support ring with ERPS (G.8032) on uplinks)
show trouble-shooting pbit statistics interface (updated interface index format)
show trouble-shooting pbitstatistics vlanport (updated interface index format)

New Commands

admin software-mngt ihub database oam-save-protected (support for saving the OAM protected interface)
configure e1 (TDM support for 8 E1 ports on the NSLT-D Phase 1)
configure e1 line (TDM support for 8 E1 ports on the NSLT-D Phase 1)
configure shdsl span (TDM support for 8 E1 ports on the NSLT-D not supported yet)
configure voice sip isdn-cas-term (support for ISAMV ISDN SIP on NIAT-A board)
show alarm current sip-isdnpratermination (support for ISAMV ISDN SIP on NIAT-A board)
show alarm log sip-isdnpratermination (support for ISAMV ISDN SIP on NIAT-A board)
show alarm snap-shot sip-isdnpratermination (support for ISAMV ISDN SIP on NIAT-A board)
show e1 (TDM support for 8 E1 ports on the NSLT-D Phase 1)
show e1 line-status (TDM support for 8 E1 ports on the NSLT-D Phase 1)
show equipment ont index (CLI ONT Index Lookup Using Serial Number)
show equipment ont ng2-cfg-download (Universal NG-PON: OMCI Pre-Configuration download)
show equipment ont ng2-cfg-download channel-group (Universal NG-PON: OMCI Pre-Configuration download)
show voice sip isdn-cas-term (support for ISAMV ISDN SIP on NIAT-A board)

Commands or commands with parameters for future use, not supported yet

configure qos profiles policy-action count (multi-service support at ONT for untagged UNI)
configure qos profiles session rem-down-policy (multi-service support at ONT for untagged UNI)
configure qos profiles session rem-up-policy (multi-service support at ONT for untagged UNI)

Command delta R5.5 versus R5.4.01**Modified Commands**

admin interface cable (command description moved from obsoleted DPoE CLI guide to this guide)
configure alarm filter filterid (update for alarm changes)
configure ani ont tca-thresh (update threshold paramter)
configure cfm domain association (support for ERPS on uplinks and Fast CCM feature)
configure cfm y1731pm (no domain (domain-index) association (renamed parameter adminup to admin-up)
configure channel-group id subchannel-group id (support FWLT-A LOID ONU authentication (OLT part))
configure channel-pair interface (support Dynamic Upstream GPON/NG-PON2 CAC)
configure cm classifier name (update source and destination mask definition)
configure cm route-profile (update source and destination mask definition)
configure cm tlv-file (DPoE: Upstream data encryption on 10G PON)
configure cmts filter (update command description)
configure cmts interface (support interval based cable modem qos and service flow throughput rate)
configure cmts pon (DPoE Rogue ONU detection)
configure cmts pon (DPoE: Upstream data encryption on 10G PON)
configure cmts system (configure sending cm events to the Syslog server)
configure equipment ont interface (Configurable Rate Limiting at ONT side, OLT impact)
configure equipment shelf (update mode to support 7362 ISAM DF-16GW)
configure equipment slot (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
configure pon interface (support Dynamic Upstream GPON/NG-PON2 CAC)
configure qos profiles bandwidth (DBA Performance Improvement: DBRu enabled)
configure system sync-if-timing synce (update for NRNT-A CCR check)
configure trap definition (support Dynamic Upstream GPON/NG-PON2 CAC)
configure trap manager (support Dynamic Upstream GPON/NG-PON2 CAC and Zero-touch provisioning)
configure vlan id (add new command for protocol aware of DHCP/PPPOE)
configure voice cluster equipment termination (update Impedance Index)
configure voice sip server (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
configure voice sip termination (update Impedance Index)

configure voice sip user-agent (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
configure voice sip user-agent-ap slot-id (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
configure voice sip vsp (CVP: support Multiple SSP per CDE profile)
configure xdsl ont line (support VDSL2 parameter configuration and reporting over OMCI)
configure xdsl ont rtx-profile (support VDSL2 parameter configuration and reporting over OMCI)
configure xdsl ont spectrum-profile vdsl (support VDSL2 parameter configuration and reporting over OMCI)
show alarm query channel-pair (support Dynamic Upstream GPON/NG-PON2 CAC: support ranging mismatch)
show alarm query name (update for alarm changes)
show alarm query olt-gen (support Dynamic Upstream GPON/NG-PON2 CAC: show and clear ranging mismatch alarm)
show alarm query sip-plugin-unit (not supported parameter value dhcp-unreach removed)
show alarm query traffic-overflow (NT board type added)
show dpoe olt (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe onu (command description moved from obsoleted DPoE CLI guide to this guide)
show interface cable (command description moved from obsoleted DPoE CLI guide to this guide)
show interface dpoe (command description moved from obsoleted DPoE CLI guide to this guide)
show qos interface-bandwidth (support Dynamic Upstream GPON/NG-PON2 CAC)
show system license (ISAM Voice SIP CVP Multiple Voice Service Gateway Licensing)
show voice sip statistics termination current-15min (ISAMv SIP CVP : support additional PM counters at PORT level)
show voice sip statistics termination previous-15min (ISAMv SIP CVP : support additional PM counters at PORT level)
show xdsl ont operational-data far-end line (support VDSL2 parameter configuration and reporting over OMCI)
show xdsl ont operational-data near-end line (support VDSL2 parameter configuration and reporting over OMCI)

New Commands

admin cable modem (DPoE Rogue ONU detection)
admin channel-pair clear-alarm (support Dynamic Upstream GPON/NG-PON2 CAC)
admin cm uniport auto-nego (command description moved from obsoleted DPoE CLI guide to this guide)
admin cmts add-cm-event mac-addr (command description moved from obsoleted DPoE CLI guide to this guide)
admin cmts del-cm-event mac-addr (command description moved from obsoleted DPoE CLI guide to this guide)
admin cmts rogue-onu detection (DPoE Rogue ONU detection)
admin cmts security generate-key (DPoE: Upstream data encryption on 10G PON)
admin cmts vpls (command description moved from obsoleted DPoE CLI guide to this guide)

admin cmts vpls update vpn-id (command description moved from obsoleted DPoE CLI guide to this guide)
admin interface cable (command description moved from obsoleted DPoE CLI guide to this guide)
admin pon clear-alarm (support Dynamic Upstream GPON/NG-PON2 CAC)
configure cfm domain association mep active-remote-mep (support for ERPS on uplinks and Fast CCM feature)
configure system zero-touch-provision (support Zero-touch provisioning)
configure voice lsa-server (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
configure voice lsa-server instance (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
configure voice lsa-server system (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show alarm current sip-user-agent (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show alarm current uplink-ether-sfp (new ethernet SFP alarm)
show alarm log sip-user-agent (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show alarm log uplink-ether-sfp (new ethernet SFP alarm)
show alarm query sip-user-agent (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show alarm query uplink-ether-sfp (support for ethernet uplink SFP alarm)
show alarm snap-shot sip-user-agent (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show alarm snap-shot uplink-ether-sfp (new ethernet SFP alarm)
show cable config-file (command description moved from obsoleted DPoE CLI guide to this guide)
show cable flap-list (command description moved from obsoleted DPoE CLI guide to this guide)
show cable modem cable (command description moved from obsoleted DPoE CLI guide to this guide)
show cmts cm-event-ctrl (command description moved from obsoleted DPoE CLI guide to this guide)
show cmts ipdr (command description moved from obsoleted DPoE CLI guide to this guide)
show cmts ipdr status session (command description moved from obsoleted DPoE CLI guide to this guide)
show cmts mcast (command description moved from obsoleted DPoE CLI guide to this guide)
show cmts mcast gsf id (DPoE multicast display improvements)
show cmts mcast session slot (DPoE multicast display improvements)
show cmts rogue-onu (DPoE Rogue ONU detection)
show cmts security (DPoE: Upstream data encryption on 10G PON)
show cmts vpls (command description moved from obsoleted DPoE CLI guide to this guide)
show cmts vpls update (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe olt (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe onu (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe profile acl grp-id (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe profile pw-class name (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe profile vpls-class name (command description moved from obsoleted DPoE CLI guide to this guide)

show dpoe profile vpn-sg name (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe service v-vpls vpn-id (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe service vpls ip-addr (command description moved from obsoleted DPoE CLI guide to this guide)
show dpoe service vpws ip-addr (command description moved from obsoleted DPoE CLI guide to this guide)
show interface dpoe (command description moved from obsoleted DPoE CLI guide to this guide)
show voice lsa-instance (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show voice lsa-instance state (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show voice lsa-system (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show voice lsa-system state (ISAMv and 7363 ISAM MX: support Local Standalone SIP Server)
show voice sip all (CVP: support Multiple SSP per CDE profile)
show voice sip dhcpsipserver (CVP: support Multiple SSP per CDE profile)
show voice sip sspprofile (CVP: support Multiple SSP per CDE profile)

Commands or commands with parameters for future use, not supported yet

configure qos interface (parameter ds-schedule-tag not supported yet)
configure shdsl span (TDM support for 8 E1 ports on the NSLT-D not supported yet)
configure voice sip isdn-cas-term (new command to configure an ISDN termination)
configure voice sip lineid-syn-prof (parameter isdn-syntax not supported yet)
show alarm query sip-termination (E1 interface alarms ais-signal los-signal rai-signal npt supported yet)
show equipment ont index (CLI ONT Index Lookup Using SN)
show equipment ont ng2-cfg-download (NGPON2 OMCI Pre-Configuration-OLT part)
show equipment ont ng2-cfg-download channel-group (NGPON2 OMCI Pre-Configuration-OLT part)
show equipment ont ng2-sw-download (NGPON2 OMCI Pre-Configuration-OLT part)
show equipment ont ng2-sw-download channel-group (NGPON2 OMCI Pre-Configuration-OLT part)
show qos statistics color-queue (PON UNI extension)
show qos statistics color-queue current-15min (PON UNI extension)
show qos statistics color-queue prev-15min (PON UNI extension)
show voice sip isdn-cas-term (new command to show an ISDN termination)

Command delta R5.4.01 versus R5.4

Modified Commands

admin bridge learned-unicast-mac unicast-mac-address (SIP Voice Support on NG-PON2 (OLT Part))
admin dhcp-relay port-stats (SIP Voice Support on NG-PON2 (OLT Part))
admin equipment ont interface (support for Equipment Protection via Wavelength Mobility on NG-PON2 and add new alarm when dhcpd client can not get ip address)

admin iphost ping dest-ip (SIP Voice Support on NG-PON2 (OLT Part))
admin linetest single-if-index melt-reset (MELT improvements)
admin linetest single-if-index melt-selftest (MELT improvements)
admin security ext-authenticator (SIP Voice Support on NG-PON2 (OLT Part))
admin voice ont pots diagnostics (SIP Voice Support on NG-PON2 (OLT Part))
admin voice ont pots pb-dial-tone (SIP Voice Support on NG-PON2 (OLT Part))
admin voice ont pots sip-dial-tone sip-phone-number (SIP Voice Support on NG-PON2 (OLT Part))
admin voice ont voip-config (SIP Voice Support on NG-PON2 (OLT Part))
configure alarm entry (support for Equipment Protection via Wavelength Mobility on NG-PON2 and add new alarm when dhcpd client can not get ip address)
configure alarm filter filterid (support for Equipment Protection via Wavelength Mobility on NG-PON2)
configure bridge port (SIP Voice Support on NG-PON2 (OLT Part))
configure cfm domain association (Introduction of Maintenance Point on PON LTs : virtual UNI/Bridge port [segment B] on FGLT-B/FWLT-A)
configure cfm domain association (SIP Voice Support on NG-PON2 (OLT Part))
configure cfm domain association mep (SIP Voice Support on NG-PON2 (OLT Part))
configure cm classifier (command parameters marked as optional)
configure cm cm-static (command parameters marked as optional)
configure cm gen-ext (command parameters marked as optional)
configure cm ipv6-classif-pf (command parameters marked as optional)
configure cm oam (command parameters marked as optional)
configure cm route-profile (command parameters marked as optional)
configure cm service-flow (command parameters marked as optional)
configure cm sf-collection (command parameters marked as optional)
configure cm tlv-file (command parameters marked as optional)
configure cm uni-collection (command parameters marked as optional)
configure cm uniprofile (command parameters marked as optional)
configure cmts allowonu (command parameters marked as optional)
configure cmts bundle (command parameters marked as optional)
configure cmts cm-event (command parameters marked as optional)
configure cmts filter (command parameters marked as optional)
configure cmts ipdr (command parameters marked as optional)
configure cmts mesp (command parameters marked as optional)
configure cmts sav (command parameters marked as optional)
configure cmts serving-group (DPoE Multicast Support)
configure cmts serving-group (command parameters marked as optional)
configure cmts ssd (command parameters marked as optional)
configure cmts system (improvement to release CPE IP after ONU reset)

configure cmts vpls-class (command parameters marked as optional)
configure cmts vpn-sg (command parameters marked as optional)
configure dhcp-relay port-stats (SIP Voice Support on NG-PON2 (OLT Part))
configure equipment ont interface (update mobility support for Equipment Protection feature to configure protection channelpair)
configure equipment ont slot (GPON/NG-PON2 NNI feature extension : support for 64 IGMP signaling channels)
configure ethernet line mau (add new mau type 10gbasex)
configure igmp system (add support for unconfigured SSM multicast)
configure interface port (SIP Voice Support on NG-PON2 (OLT Part))
configure iphost ont (SIP Voice Support on NG-PON2 (OLT Part))
configure linetest cluster ltparm test-name (ISAMV SIP Forced ringing test update)
configure linetest single ltparm test-name (support GR909 draw and break dial tone delay)
configure linetest single ltsession (new parameter force-measure to force the MELT measurement even if the SLIC hardware fails)
configure linetest single ltsession session-cmd ownerid timeout-period line-num type-high force-ring-subscrib (ISAMV SIP Forced ringing test update)
configure mcast static branch (SIP Voice Support on NG-PON2 (OLT Part))
configure qos interface (SIP Voice Support on NG-PON2 (OLT Part))
configure qos tca queue (SIP Voice Support on NG-PON2 (OLT Part))
configure system security pae authenticator (SIP Voice Support on NG-PON2 (OLT Part))
configure system security pae ext-authenticator (SIP Voice Support on NG-PON2 (OLT Part))
configure system security pae port (SIP Voice Support on NG-PON2 (OLT Part))
configure system security ssh access (support debugkernel on FANT-G)
configure system security ssh user (improved handling of parameter key)
configure trap definition (support for Equipment Protection via Wavelength Mobility on NG-PON2)
configure trap manager (support for Equipment Protection via Wavelength Mobility on NG-PON2)
configure vlan pbit-statistics port (SIP Voice Support on NG-PON2 (OLT Part))
configure vlan port-protocol (SIP Voice Support on NG-PON2 (OLT Part))
configure vlan unicast-mac vlan-id (SIP Voice Support on NG-PON2 (OLT Part))
configure vlan vlan-port unicast-mac (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont pots (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont pots-call (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont pots-rtp (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont sip-agent (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont sip-call (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont sip-config (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont voice-port (SIP Voice Support on NG-PON2 (OLT Part))
configure voice ont voice-sip-port (SIP Voice Support on NG-PON2 (OLT Part))

configure voice ont voip-config (SIP Voice Support on NG-PON2 (OLT Part))
configure voice sip statistics stats-config (update for PM counters at port level)
configure xdsl ont spectrum-profile vdsl (enable configuration of annex b 997e bandplan)
show alarm query ai (add new alarm when dhcpd client can not get ip address)
show alarm query ellid (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query epon (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query l2forward (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query name (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show alarm query ont-iphost (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query ont-mgc (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query ont-sip-agent-cfg (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query ont-voip-cfg (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query otdr (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query plug-in-unit-ext (board-hw-issue is changed to melt-hw-issue in the alarm plug-in-unit-ext table)
show alarm query qos-queue (SIP Voice Support on NG-PON2 (OLT Part))
show alarm query vlanport (SIP Voice Support on NG-PON2 (OLT Part))
show arp-relay-stats (SIP Voice Support on NG-PON2 (OLT Part))
show cfm stack (SIP Voice Support on NG-PON2 (OLT Part))
show dhcp-relay port-stats (SIP Voice Support on NG-PON2 (OLT Part))
show dhcp-relay v6-port-stats (SIP Voice Support on NG-PON2 (OLT Part))
show equipment ont ranging-status channel-group (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show equipment ont ranging-status channel-pair (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show interface port (SIP Voice Support on NG-PON2 (OLT Part))
show interface stack (SIP Voice Support on NG-PON2 (OLT Part))
show interface test (SIP Voice Support on NG-PON2 (OLT Part))
show iphost ont operational-data (SIP Voice Support on NG-PON2 (OLT Part))
show iphost ont statistics current-15min (SIP Voice Support on NG-PON2 (OLT Part))
show ipv6 users (SIP Voice Support on NG-PON2 (OLT Part))
show linetest single lineid-ext-rept (support GR909 draw and break dial tone delay)
show linetest single melt-reset (MELT improvements)
show linetest single melt-selftest (MELT improvements)
show linetest single melt-selftest hw-status (MELT improvements)
show linetest single melt-selftest self-test-status (MELT improvements)
show pppoe12-stats (SIP Voice Support on NG-PON2 (OLT Part))
show qos interface-bandwidth (SIP Voice Support on NG-PON2 (OLT Part))
show qos statistics queue current-15min (SIP Voice Support on NG-PON2 (OLT Part))

show qos statistics queue prev-15min (SIP Voice Support on NG-PON2 (OLT Part))
show security pae authenticator (SIP Voice Support on NG-PON2 (OLT Part))
show security pae diagnostics (SIP Voice Support on NG-PON2 (OLT Part))
show security pae eapol-stats (SIP Voice Support on NG-PON2 (OLT Part))
show security pae port-details (SIP Voice Support on NG-PON2 (OLT Part))
show security pae session-stats (SIP Voice Support on NG-PON2 (OLT Part))
show system license (update for the number of fclt-b boards configured as vula/uplink mode)
show system techsupport (on demand tech support file generation for datapath troubleshooting legacy Fiber LTs)
show trouble-shooting statistics uni-interface (SIP Voice Support on NG-PON2 (OLT Part))
show trouble-shooting statistics vlanport bridgeport-id (SIP Voice Support on NG-PON2 (OLT Part))
show vlan bridge-port-fdb (SIP Voice Support on NG-PON2 (OLT Part))
show vlan cross-connect (SIP Voice Support on NG-PON2 (OLT Part))
show vlan current-15min-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan current-day-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan dup-mac-alarm (SIP Voice Support on NG-PON2 (OLT Part))
show vlan pbit-statistics port (SIP Voice Support on NG-PON2 (OLT Part))
show vlan port-15min-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan port-accumu-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan port-curr-15min-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan port-curr-day-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan port-event (SIP Voice Support on NG-PON2 (OLT Part))
show vlan port-prev-day-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan previous-15min-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan residential-bridge extensive (SIP Voice Support on NG-PON2 (OLT Part))
show vlan residential-bridge summary (SIP Voice Support on NG-PON2 (OLT Part))
show vlan vlan-day-stats (SIP Voice Support on NG-PON2 (OLT Part))
show vlan vmac-bridge-port-fdb (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont call-hist (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots diagnostics (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots hookstate (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots operational-data (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots pb-dial-tone (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots sip-dial-tone (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots-call statistics current-15min (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont pots-rtp statistics current-15min (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont sip-agent statistics current-15min (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont sip-call statistics current-15min (SIP Voice Support on NG-PON2 (OLT Part))

show voice ont sip-config operational-data (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont voip-config operational-data (SIP Voice Support on NG-PON2 (OLT Part))
show voice ont voip-pip-prof operational-data input-profile (SIP Voice Support on NG-PON2 (OLT Part))
show voice sip port-state (updated status information on POTS lines)
show voice sip pots port status (updated output to shows the port state of SIP terminations)
show voice sip statistics board cur-15min (updated output to show the SIP statistics)
show voice sip statistics board prev-15min (updated output to show the SIP statistics)
show voice sip statistics termination (update for PM counters at port level)
show xdsl operational-data line (new reporting of XDSL line initialization state)
tools perform cfm dual-tag mep domain association (Introduction of Maintenance Point on PON LTs : virtual UNI/Bridge port [segment B] on FGLT-B/FWLT-A)

New Commands

admin linetest single melt-reset (MELT improvements)
admin linetest single melt-selftest (MELT improvements)
admin system techsupport clear-on-demand session (on demand tech support file generation for datapath troubleshooting legacy Fiber LTs)
admin system techsupport gen-on-demand (on demand tech support file generation for datapath troubleshooting legacy Fiber LTs)
configure cmts mcast (DPoE Multicast Support)
configure cmts mcast dgsc (DPoE Multicast Support)
configure cmts mcast group-config (DPoE Multicast Support)
configure cmts mcast group-qos-config (DPoE Multicast Support)
configure cwmp plt (support NAPT and DHCP in redundant mode)
configure dhcp-server (support NAPT and DHCP in redundant mode)
configure nat (support NAPT and DHCP in redundant mode)
show alarm current ont-protection (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show alarm log ont-protection (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show alarm query ont-protection (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show alarm snap-shot ont-protection (support for Equipment Protection via Wavelength Mobility on NG-PON2)
show cmts mcast gsf (DPoE Multicast Support (see the DPoE CLI guide))
show cmts mcast session (DPoE Multicast Support (see the DPoE CLI guide))
show cwmp (support NAPT and DHCP in redundant mode)
show cwmp plt (support NAPT and DHCP in redundant mode)
show linetest single hw-status (MELT improvements)
show linetest single melt-reset (MELT improvements)

show linetest single melt-selftest (MELT improvements)
show nat session (support NAPT and DHCP in redundant mode)
show system sync-if-timing-master (show the detailed information of current PTP master SyncE/SSM-QL Out)

Command delta R5.4 versus R5.3.01

Modified Commands
admin equipment slot (command tree display lined up with actual overrule parameter)
admin security ext-authenticator (support 802.1x on NGPON2 LT)
admin trouble-shooting interface (corrected command description clear-statistics)
admin trouble-shooting pbit interface (corrected command description clear-statistics)
admin trouble-shooting pon interface (corrected command description clear-statistics)
admin voice ont pots diagnostics (improvement for MLT diagnostics test result)
configure alarm entry (new alarms for CLI login failure alarm, Queue Load monitoring)
configure alarm filter filterid (update alarm list)
configure bridge port vlan-id (FELT-B VULA uplink Lightweight TPID support)
configure cfm domain association mep (support of AIS on ONT UNI (OLT part))
configure cm (DPoE command description moved from DPoE CLI command guide to this guide)
configure cmts bundle (New parameter to specify the default serving group in a bundle)
configure cmts l2vpn (update l2vpn CLI help/man info)
configure cmts pon (add support for Type 4 10G EPON optics module with turbo speed mode)
configure cmts pw-class name (updated MTU size range and default value)
configure cmts system (DHCP Lease Query support)
configure cmts vpls-class name (updated MTU size range and default value)
configure equipment diagnostics sfp (support for Next generation NT (FANT-G))
configure equipment rssiprof (support for Next generation NT (FANT-G))
configure equipment rssiprof (support for temperature alarm attributes in SFP RSSI profile)
configure equipment shelf (support no-extended-slots shelf mode)
configure qos interface (update RANT-A/SRNT-E-cac-profile)
configure qos tca queue (support Queue Load monitoring and TCA alarm)
configure system security pae authenticator (support 802.1x on NGPON2 LT)
configure system security pae ext-authenticator (support 802.1x on NGPON2 LT)
configure system security pae port (support 802.1x on NGPON2 LT)
configure system security ssh sftp-user (default parameters defined)
configure vlan id (DHCP/PPPoE made fully transparent when no add or replace options in tag)
configure xdsl board (support Legacy profile for optimized upstream vectoring)
configure xdsl line (support to force vectored lines in fallback mode)

configure xdsl vect-profile (support Legacy profile for optimized upstream vectoring)
show alarm current ont (renamed tod-out-sync to ont-gen-tod-out-sync to line up with config command)
show alarm current qos-queue (support Queue Load monitoring and TCA alarm)
show alarm log qos-queue (support Queue Load monitoring and TCA alarm)
show alarm query ihub-link (support for Next generation NT (FANT-G))
show alarm query ihub-tca (support for Next generation NT (FANT-G))
show alarm query name (new alarms added)
show alarm query qos-queue (support Queue Load monitoring and TCA alarm)
show cable modem (add support for Type 4 10G EPON optics module with turbo speed mode)
show dpoe onu (add support for Type 4 10G EPON optics module with turbo speed mode)
show equipment diagnostics sfp (support for Next generation NT (FANT-G))
show equipment diagnostics sfp-threshold (support for Next generation NT (FANT-G))
show equipment transceiver-inventory (support for Next generation NT (FANT-G))
show qos statistics buffer-overflow (support Queue Load monitoring and TCA alarm)
show qos statistics lt-cos (support Queue Load monitoring and TCA alarm)
show qos statistics queue (support Queue Load monitoring and TCA alarm)
show security pae mac-address (support 802.1x on NGPON2 LT)
show system license (add support for VULA)
show trouble-shooting statistics vlanport bridgeport-id (FELT-B VULA uplink Lightweight TPID support)
show xdsl profiles (support Legacy profile for optimized upstream vectoring)

New Commands

admin system techsupport (manage techsupport information (to determine Root Cause of Fiber LT Resets))
configure bridge port vlan-tpid0 (FELT-B VULA uplink Lightweight TPID support)
configure bridge port vlan-tpid1 (FELT-B VULA uplink Lightweight TPID support)
configure cfm domain association mep y1731ais (support of AIS on ONT UNI (OLT part))
configure ethernet ont cfm (support of AIS on ONT UNI (OLT part))
configure system scalingmode (support for Next generation NT (FANT-G))
configure vlan tpid (FELT-B VULA uplink Lightweight TPID support)
configure xdsl leg-upbo-profile (support Legacy profile for optimized upstream vectoring)
show cfm mep-y1731ais-info (support of AIS on ONT UNI (OLT part))
show cfm mep-y1731ais-info domain (support of AIS on ONT UNI (OLT part))
show system ipv6-prefix-mgmt (added cpu filter ipv6 cli hook)
show system scalingmode (support for Next generation NT (FANT-G))
show system techsupport (manage techsupport information (to determine Root Cause of Fiber LT Resets))

Commands or commands with parameters for future use, not supported yet

configure cfm domain association (parameter mhf-location not supported yet)
configure link-aggr group (new parameter value l2-l3-hybrid-model not supported yet)
configure qos profiles aggrqueuesconfig (restricted command for future use)
configure voice sip termination (new parameter telc-clip-mode not supported yet)
show alarm current eqpt-psu (restricted command for future use)
show alarm log eqpt-psu (restricted command for future use)
show alarm query eqpt-holder-ext (parameters water-seepage-in-box and sealed-box-open restricted use)
show alarm query eqpt-psu (restricted command for future use)
show alarm query ont-lan (new parameter ont-svc-enet-poos not supported yet)
show alarm query ont-pots (new parameter ont-svc-pots-poos not supported yet)
show alarm snap-shot eqpt-psu (restricted command for future use)
show equipment power-supply (restricted command for future use)
show qos profile-usage aggrqueuesconfig (restricted command for future use)

Command delta R5.3.01 versus R5.3

Modified Commands
admin efm-oam interface (EFM OAM remote loopback enhancement, support loopback timeout and parser action configuration)
configure alarm entry (new alarms for Home Gateway Unit (HGU), Alarm notification Failover/Failback, DHCP unreachable, low disk space and IEEE1588 hybrid fail)
configure alarm filter filterid (new alarms added in alarm filter command)
configure cfm domain association (CFM parameter bridge-port extended to support the NG-PON2 numbering scheme)
configure cfm domain association mep (CFM parameter location extended to support the NG-PON2 numbering scheme)
configure cmts (DPoE command description for configure cmts has been moved from the dedicated DPoE CLI command guide to this guide)
configure efm-oam interface (not supported parameters removed)
configure qos interface (support scheduler mode for GPON packets per service)
configure qos profiles shaper (traffic rate limiting per GEM port with CIR support)
configure system sync-if-timing ptp (support IEEE1588 hybrid mode)
configure system sync-if-timing tod-ref-order (support IEEE1588 hybrid mode)
configure vlan id (support actual line rate for DHCPv6)
configure voice cluster equipment termination (update command to enable the voice service per line)
configure xdsl board (vplt-autodiscovery option enable-both-lnk1-lnk2 is not supported yet)
configure xdsl line (support for VDSL2 g993-2-35b)
configure xdsl ont spectrum-profile vdsl2 (VDSL2 Custom PSD shape configuration over OMCI for G-010V-P and G-010V-Q)
configure xdsl spectrum-profile (support for VDSL2 g993-2-35b)

configure xdsl spectrum-profile vdsl (parameter values for VectNadnPlan : b998ade17ds30us35 b998e17ds30us35 b998ade17ds35 b998e17ds35 not supported yet)
configure xdsl spectrum-profile vdsl (removed unused parameter values b998ade17ds30us35 b998e17ds30us35)
configure xdsl vce-profile (parameter values for VectNadnPlan : b998ade17ds30us35 b998e17ds30us35 b998ade17ds35 b998e17ds35 not supported yet)
configure xdsl vce-profile (parameter vce-max-vect-freq not supported yet)
configure xdsl vce-profile (removed unused parameter values b998ade17ds30us35 b998e17ds30us35)
show alarm query mgt-sec-access (improved translation of alarm name of mgmt-sec-access)
show alarm query name (update to support new alarms)
show alarm query sw-mgmt (alarm added for low diskpace)
show efm-oam loopback-info (EFM OAM remote loopback enhancement to retrieve the remote loopback remaining timeout value.)
show system license (support for VDSL2 g993-2-35b)
show xdsl vect-group (support for VDSL2 g993-2-35b)

New Commands

configure alarm hgu-tr069-cust (configuration of Home Gateway Unit (HGU) customized alarms)
configure xdsl ont spectrum-profile vdsl2 cust-psd-pt-down (VDSL2 Custom PSD shape configuration over OMCI for G-010V-P and G-010V-Q)
configure xdsl ont spectrum-profile vdsl2 cust-psd-pt-up (VDSL2 Custom PSD shape configuration over OMCI for G-010V-P and G-010V-Q)
show alarm current hgu-tr069 (show alarms for Home Gateway Unit (HGU) customized)
show alarm current mdu-sup2 (new alarm for RSSI TCA function)
show alarm current ont-ani (new alarm for RSSI TCA function)
show alarm current sfu-sup2 (new alarm for RSSI TCA function)
show alarm current soho-sup2 (new alarm for RSSI TCA function)
show alarm log hgu-tr069 (show alarms for Home Gateway Unit (HGU) customized)
show alarm log mdu-sup2 (new alarm for RSSI TCA function)
show alarm log ont-ani (new alarm for RSSI TCA function)
show alarm log sfu-sup2 (new alarm for RSSI TCA function)
show alarm log soho-sup2 (new alarm for RSSI TCA function)
show alarm query hgu-tr069 (show alarms for Home Gateway Unit (HGU) customized)
show alarm snap-shot hgu-tr069 (show alarms for Home Gateway Unit (HGU) customized)
show alarm snap-shot mdu-sup2 (new alarm for RSSI TCA function)
show alarm snap-shot ont-ani (new alarm for RSSI TCA function)
show alarm snap-shot sfu-sup2 (new alarm for RSSI TCA function)
show alarm snap-shot soho-sup2 (new alarm for RSSI TCA function)

Commands or commands with parameters for future use, not supported yet

configure xdsl ont rtx-profile (VDSL2 parameter configuration and reporting over OMCI not supported yet)
configure xdsl ont line (VDSL2 parameter configuration and reporting over OMCI not supported yet)
show xdsl ont operational-data near-end line (VDSL2 parameter configuration and reporting over OMCI not supported yet)
show xdsl ont operational-data far-end line (VDSL2 parameter configuration and reporting over OMCI not supported yet)

Removed Commands

configure ai (removal of not supported commands for application intelligence)

Command delta R5.3 versus R5.2.01

Modified Commands

admin trouble-shooting interface (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure alarm entry (new alarms for HGU configuration, NGPON2 CMAC Loss of OMCI channel, channelpair and CF error)
configure alarm filter filterid (new alarms added)
configure bridge port (removed invalid values 4092 and 4096 from available range of vlanIds)
configure bridge port vlan-id (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure cfm domain association (removed invalid values 4092 and 4096 from available range of vlanIds)
configure cmts l2vpn (no option is not applicable for l2vpn and removed)
configure equipment diagnostics (no option is not applicable for diagnostics and removed)
configure equipment sfpe1t1 (no option is not applicable for sfpe1t1 and removed)
configure equipment slot (support text based dump and restore)
configure ethernet line (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure ethernet line mau (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure ethernet line tca-line-threshold (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure ipoa/e-iw gateway (removed invalid values 4092 and 4096 from available range of vlanIds)
configure linetest cluster ltsession (parameter value force-ring-subscrib not supported yet)
configure linetest single ltsession (parameter value force-ring-subscrib not supported yet)
configure pon (Allow GPON ONUs to range in the presence of Alien ONUs)
configure ppox-relay cross-connect client-port (removed invalid values 4092 and 4096 from available range of vlanIds)
configure ppox-relay cross-connect engine (removed invalid values 4092 and 4096 from available range of vlanIds)

configure qos (DEI support on NELT-B for color aware queuing and policing)
configure qos interface (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure qos profiles ingress-qos (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure qos profiles policer (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure qos profiles session (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure qos tca queue (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure system security default-profile (restrict access rights for AI config commands)
configure system security filetransfer server (support text based dump and restore of Core 0)
configure system security operator (request to verify Current Password before accepting the change password for existing operators)
configure system security profile (restrict access rights for AI config commands)
configure system security radius acc-server (support text based dump and restore of Core 0)
configure system security radius auth-server (support text based dump and restore of Core 0)
configure system security radius dyn-auth-client (support text based dump and restore of Core 0)
configure system security snmp community (add docsis to SNMP context)
configure system security snmp group (add docsis to SNMP context)
configure system security ssh sftp-user (support text based dump and restore of Core 0)
configure system security tacacs acc-server (support text based dump and restore of Core 0)
configure system security tacacs authen-server (support text based dump and restore of Core 0)
configure system security tacacs author-server (support text based dump and restore of Core 0)
configure trouble-shooting statistics interface (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure vlan id (removed invalid values 4092 and 4096 from available range of vlanIds)
configure vlan unicast-mac (removed invalid values 4092 and 4096 from available range of vlanIds)
configure voice cluster equipment board planned-type (support nvps-c Voice Megaco Equipment Board)
configure voice cluster equipment termination (support enabling H.248 DSL voice service configuration per line)
configure voice cluster ip (porting MDU DHCP for 7363 ISAM MX and 7367 ISAM SX)
configure voice cluster media-gateway (porting MDU DHCP for 7363 ISAM MX and 7367 ISAM SX)
configure voice cluster signal-gateway (ISAMV H.248 obsolete no option removed for Prim/sec/tert/quat ASP IP)
configure voice sip register register-uri (extend the multiple VAG up to 16 VAG on 7363 MX-6/7302 ISAM-V)
configure voice sip transport provider-name udp admin-status (extend the multiple VAG up to 16 VAG on 7363 MX-6/7302 ISAM-V)
configure voice sip user-agent (extend the multiple VAG up to 16 VAG on 7363 MX-6/7302 ISAM-V)

configure voice sip user-agent-ap (extend the multiple VAG up to 16 VAG on 7363 MX-6/7302 ISAM-V)
configure voice sip vsp admin-status (extend the multiple VAG up to 16 VAG on 7363 MX-6/7302 ISAM-V)
configure voice sip vsp domain-name (extend the multiple VAG up to 16 VAG on 7363 MX-6/7302 ISAM-V)
configure xdsl board vect-fallback (support SOS for VDSL2 on vectoring boards)
configure xdsl line (support SOS for VDSL2 on vectoring boards)
configure xdsl service-profile (support SOS for VDSL2 on vectoring boards)
show vlan dup-mac-alarm (removed invalid values 4092 and 4096 from available range of vlanIds)
show vlan fdb-board (removed invalid values 4092 and 4096 from available range of vlanIds)
show equipment ont utilization current-interval (completion of PON Utilization and Threshold for FWLT-A)
show equipment ont utilization previous-interval (completion of PON Utilization and Threshold for FWLT-A)
show mcast pon-active-groups (completion of PON Utilization and Threshold for FWLT-A)
show pon optics (completion of PON Utilization and Threshold for FWLT-A)
show pon pon-diagnostics (completion of PON Utilization and Threshold for FWLT-A)
show qos interface-bandwidth (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
show qos statistics queue current-15min (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
show qos statistics queue prev-15min (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
show system license (add G.FAST and vdsl2-35b-mode licenses)
show xdsl counters far-end line current-interval/current-1day (support SOS for VDSL2 on vectoring boards)
show xdsl counters far-end line previous-interval/previous-1day (support SOS for VDSL2 on vectoring boards)
show xdsl counters near-end line current-interval/current-1day (support SOS for VDSL2 on vectoring boards)
show xdsl counters near-end line previous-interval/previous-1day (support SOS for VDSL2 on vectoring boards)
show xdsl operational-data far-end line (support SOS for VDSL2 on vectoring boards)
show xdsl operational-data near-end line (support SOS for VDSL2 on vectoring boards)
show xdsl profiles (support SOS for VDSL2 on vectoring boards)

New Commands

admin channel-pair utilization (completion of PON Utilization and Threshold for FWLT-A)
admin config-file (support text based dump and restore of Core 0)
admin config-file activate (support text based dump and restore of Core 0)
admin config-file delete (support text based dump and restore of Core 0)

admin config-file download (support text based dump and restore of Core 0)
admin config-file rename (support text based dump and restore of Core 0)
admin config-file save (support text based dump and restore of Core 0)
admin config-file upload (support text based dump and restore of Core 0)
configure channel-pair interface utilization (completion of PON Utilization and Threshold for FWLT-A)
configure channel-pair interface utilization threshold (completion of PON Utilization and Threshold for FWLT-A)
configure cmts ipdr (add IPDR for measurement of traffic data of users)
configure cmts ipdr-global (add IPDR for measurement of traffic data of users)
configure qos profiles cos-threshold (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
configure qos upstr-prot-dsl (enabling QoS handling of upstream protocol for DSL LTs)
configure xdsl sos-profile (support SOS for VDSL2 on vectoring boards)
show alarm current olt-chpr-util-tca (completion of PON Utilization and Threshold for FWLT-A)
show alarm log olt-chpr-util-tca (completion of PON Utilization and Threshold for FWLT-A)
show alarm query (new command tree to add coverage of active alarms information)
show alarm snap-shot olt-chpr-util-tca (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization cur-intvl-top-ont-rx (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization cur-intvl-top-ont-tx (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization current-interval (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization previous-interval (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization prv-intvl-top-ont-rx (completion of PON Utilization and Threshold for FWLT-A)
show channel-pair utilization prv-intvl-top-ont-tx (completion of PON Utilization and Threshold for FWLT-A)
show config-file (support text based dump and restore of Core 0)
show equipment ont software-download (new command to get software-download status of ng2 ONTs per channel-group and subchannel-group basis)
show equipment ont software-download channel-group (new command to get software-download status of ng2 ONTs per channel-group and subchannel-group basis)
show qos bandwidth-profile (new command to report actual QoS bandwidth profile values)
show qos profile-usage cos-threshold (Business/Pre-Aggregation P2P LT variant (FELT-B) - Application limited to VULA uplink)
tee-config (support text based dump and restore of Core 0)

Commands or commands with parameters for future use, not supported yet

configure cfm domain association mep (new parameter equipment not supported yet)

configure linetest cluster ltparm test-name (parameter value bat-imped-discard replaced by force-ring-subscrib)
configure linetest single ltparm test-name (parameter value bat-imped-discard replaced by force-ring-subscrib)
configure system external-leds (command to configure and store system leds status)
configure xdsl board (vplt-autodiscovery option enable-both-lnk1-lnk2 is not supported yet)
configure xdsl line (parameter g993-2-35b not supported yet)
configure xdsl spectrum-profile (parameter g993-2-35b not supported yet)
configure xdsl spectrum-profile vdsl (parameter values for VectNadnPlan : b998ade17ds30us35 b998e17ds30us35 b998ade17ds35 b998e17ds35 not supported yet)
configure xdsl vce-profile (parameter values for VectNadnPlan : b998ade17ds30us35 b998e17ds30us35 b998ade17ds35 b998e17ds35 not supported yet)
configure xdsl vce-profile (parameter vce-max-vect-freq not supported yet)
show cfm stack (new parameter equipment not supported yet)
show linetest cluster lineid-ext-rept (not used parameter renamed for later use)
show linetest single lineid-ext-rept (not used parameter renamed for later use)
show system license (parameter value vplus not supported)
show xdsl vect-group (extend show vect-group with own2 entry)

Command delta R5.2.01 versus R5.2

Modified Commands
configure alarm entry (add GPON CFM alarm to report ais on CFI interface)
configure alarm entry (support GNSS ToD, SSM-QL from GPON-LT to ONU)
configure alarm filter filterid (add GPON CFM alarm to report ais on CFI interface)
configure alarm filter filterid (support GNSS ToD, SSM-QL from GPON-LT to ONU)
configure cfm domain association (ETH CFM Configurable LTM messages forwarding)
configure cfm domain association (support dual tagged CFM messages when configured for C-VLAN CC)
configure cmts system (enable system switch to turn on/off RIP snooping and change RIP timeout)
configure interface port (IF-MIB counters for POTS (SIP controlled) line interfaces)
configure linetest single ltparm test-name (configure whether termination ringer is detected)
configure linetest single ltssession (updating line test parameters for zener, adding iltf-term-ringer and collective test for NBLT)
configure qos profiles session (OLT configuration for ONT policer)
configure system loop-id-syntax (support S-VLAN in PPPoE and DHCP tag for S+C CC)
configure system security (TACACS+ Operator CLI phase 2 : authentication and authorization)
configure system security operator (option %i added to the prompt configuration to show the system id in the operator prompt)
configure system security pmfile upload (obsolete parameters upload-username and upload-password)

removed)
configure system security profile (option %i added to the prompt configuration to show the system id in the operator profile prompt)
configure system security snmp user (strong encryption for SNMPv3)
configure system security ssh user (range of ssh user key extended from 725 to 1200)
configure system security tacacs (TACACS+ Operator CLI phase 2 : authentication and authorization)
configure system security tacacs policy servers (TACACS+ Operator CLI phase 2 : authentication and authorization)
configure system sync-if-timing ptp default-dataset (support two source type GNSS ToD, SSM-QL from GPON-LT to ONU)
configure system sync-if-timing ptp slave-port-dataset (support ToD configurable time delay compensation)
configure system sync-if-timing ssmout-ltport ssmout-enable (support GNSS ToD, SSM-QL from GPON-LT to ONU)
configure system sync-if-timing tod (support GNSS ToD, SSM-QL from GPON-LT to ONU)
configure system sync-if-timing tod (support ToD configurable leap second handling)
configure system sync-if-timing tod-ref-order (support two source type GNSS ToD, SSM-QL from GPON-LT to ONU)
configure voice sip termination (enlarge accessontimeout maximum value to 900 sec. Change default value to 900 sec.)
configure xdsl spectrum-profile vdsl pbo (updated behaviour of default parametervalue for param-a and param-b, no option removed)
configure xdsl spectrum-profile vdsl2 pbo (updated behaviour of default parametervalue for param-a and param-b, no option removed)
environment prompt (option %i added to the description of the prompt configuration to show the system id in the session prompt)
show cfm ma-config-data domain association (ETH CFM Configurable LTM messages forwarding)
show cfm ma-config-data domain association (support dual tagged CFM messages when configured for C-VLAN CC)
show equipment ont ranging-status channel-group (fix to display ONTs with index larger than 128)
show interface availability (IF-MIB counters for POTS (SIP controlled) line interfaces)
show interface port (IF-MIB counters for POTS (SIP controlled) line interfaces)
show interface stack (IF-MIB counters for POTS (SIP controlled) line interfaces)
show interface test (IF-MIB counters for POTS (SIP controlled) line interfaces)
show linetest single lineid-ext-rept (add linetest to show whether termination ringer is detected)

New Commands

configure alias (DPoE command to create, modify, remove and retrieve alias CLI)
configure qos profiles policer-per-tc (OLT configuration for ONT policer)
configure qos profiles policer-per-tc tc-policer (OLT configuration for ONT policer)
configure system security tacacs authen-server router-instance (TACACS+ Operator CLI phase 2 : authentication and authorization)

configure system security tacacs author-server router-instance (TACACS+ Operator CLI phase 2 : authentication and authorization)
show qos profile-usage policer-per-tc (OLT configuration for ONT policer)
show security tacacs (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs acc-server (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs acc-server state (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs acc-server statistics (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs authen-server (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs authen-server state (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs authen-server statistics (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs author-server (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs author-server state (TACACS+ Operator CLI phase 2 : authentication and authorization)
show security tacacs author-server statistics (TACACS+ Operator CLI phase 2 : authentication and authorization)
show voice sip port-state (SIP (CVP) : support call states in compliance with 163TR26)

Commands or commands with parameters for future use, not supported yet

configure ethernet line (parameter uplink not supported yet)
configure ethernet line mau (parameter value 10gbasesr not supported yet)
configure qos interface (parameter value ltuplink not supported yet)
configure qos profiles cos-threshold (parameter cos-threshold not supported yet)
configure qos profiles ingress-qos (parameters PolTCMask_0-7 not supported yet)
configure qos profiles policer (parameter cos-threshold, peak-info-rate peak-burst-size not supported yet)
configure qos profiles session (parameter ing-outer-marker outer-marking not supported yet)
configure qos tca queue (parameter value ltuplink not supported yet)
configure xdsl board (vpl-t-autodiscovery option enable-both-lnk1-lnk2 is not supported yet)
configure xdsl line (parameter g993-2-35b not supported yet)
configure xdsl spectrum-profile (parameter g993-2-35b not supported yet)
configure xdsl spectrum-profile vdsl (parameter values for VectNadnPlan : b998ade17ds30us35 b998e17ds30us35 b998ade17ds35 b998e17ds35 not supported yet)
configure xdsl vce-profile (parameter values for VectNadnPlan : b998ade17ds30us35 b998e17ds30us35 b998ade17ds35 b998e17ds35 not supported yet)
configure xdsl vce-profile (parameter vce-max-vect-freq not supported yet)
show qos interface-bandwidth (parameter value ltuplink not supported yet)
show qos profile-usage cos-threshold (parameter cos-threshold not supported yet)
show qos statistics queue current-15min (parameter value ltuplink not supported yet)

show qos statistics queue prev-15min (parameter value ltuplink not supported yet)
show system license (parameter value vplus not supported)
show xdsl vect-group (extend show vect-group with own2 entry)

Command delta R5.2 versus R5.1.01

Modified Commands
admin arp-relay-stats (NG-PON2 support, ARP/PPPoE/VLAN GPON 2 parameter types merged into common interface type)
admin bridge learned-unicast-mac unicast-mac-address (NG-PON2 support)
admin ces ont line (NG-PON2 support)
admin dhcp-relay port-stats (NG-PON2 support)
admin dhcp-relay v6-port-stats (NG-PON2 support)
admin equipment ont data-store (NG-PON2 support)
admin equipment ont interface (NG-PON2 support)
admin equipment ont slot (NG-PON2 support)
admin igmp channel (NG-PON2 support)
admin ont-xdsl-line (NG-PON2 support)
admin pon diagnostic (Detection of ALIEN ONU on GPON)
admin pppoe-client emulation client-id (NG-PON2 support)
admin pppoel2-stats (NG-PON2 support)
admin trouble-shooting interface (NG-PON2 support)
admin trouble-shooting pbit interface (NG-PON2 support)
configure alarm entry (automatic port reset)
configure alarm entry (updating alarm list for PON, OMCI preconfiguration, alien ONU detection. PON utilization, SLID identification, NG-PON2)
configure alarm filter (automatic port reset)
configure alarm filter filterid (updating alarm list for PON, OMCI preconfiguration, alien ONU detection. PON utilization, SLID identification, NG-PON2)
configure ani ont tca-thresh (NG-PON2 support)
configure ani ont video (NG-PON2 support)
configure arp-relay statistics (NG-PON2 support, ARP/PPPoE/VLAN GPON 2 parameter types merged into common interface type)
configure bridge port (NG-PON2 support)
configure bridge port vlan-id (control protocol awareness per C-VLAN range for S-VLAN cross-connect to MS)
configure ces ont line (NG-PON2 support)
configure cfm domain association (NG-PON2 support)
configure cfm domain association mep (support of AIS on ONT UNI (OLT part))

configure cmt cm-static (modified support for DHCP, DHCP Relay not supported any more on DPOE)
configure cmts bundle (modified support for DHCP, DHCP Relay not supported any more on DPOE)
configure cmts diag (not allowed 'no' option removed from command)
configure cmts log-level (not allowed 'no' option removed from command)
configure cmts subscriber-def (not allowed 'no' option removed from command)
configure dhcp-relay port-stats (NG-PON2 support)
configure dhcp-relay v6-port-stats (NG-PON2 support)
configure equipment diagnostics sfp ('no sfp' command removed)
configure equipment ont interface (CPE/ONT Configuration over OMCI)
configure equipment ont loop (NG-PON2 support)
configure equipment ont slot (NG-PON2 support)
configure equipment ont slot (parameter types merged into common interface type)
configure equipment ont sw-ctrl (CPE/ONT Configuration over OMCI)
configure equipment rssiprof (RSSI support on NT ports in FD)
configure equipment shelf (remove the obsolete unlock parameter)
configure ethernet ont (NG-PON2 support)
configure hpna ont (NG-PON2 support)
configure igmp channel (NG-PON2 support)
configure interface alarm (NG-PON2 support)
configure interface port (NG-PON2 support)
configure l2uni ont performance-monitor (NG-PON2 support)
configure l2uni ont tc-layer-threshold (NG-PON2 support)
configure linetest single ltparm test-name (corrected unit for ringer test)
configure mcast static branch src-ip-addr (NG-PON2 support)
configure moca ont (NG-PON2 support)
configure ntp ont (NG-PON2 support)
configure pon interface (implementation of PON ID Maintenance feature per G.984.3 Amd 3 Annex C)
configure pon pwrbrst-mode (restructure pon command tree)
configure pppoe-client interface client-id (NG-PON2 support)
configure pppoel2 statistics (NG-PON2 support)
configure qos interface (NG-PON2 support)
configure qos profiles cac (restructure pon command tree)
configure qos tca queue (NG-PON2 support)
configure system loop-id-syntax (add new NG-PON2 system loop id)
configure system pon-ont (selective behavior for ONT Service Continuity Relative to SW Planning)
configure system security (move oper-policy-prio to security node)
configure system security ssh access (fix to close specific ports)

configure trouble-shooting pbit statistics interface (NG-PON2 support)
configure trouble-shooting statistics interface (NG-PON2 support)
configure uni ont tc-layer (NG-PON2 support)
configure uni ont video (NG-PON2 support)
configure veip ont (NG-PON2 support)
configure vlan pbit-statistics port min-dot1p (NG-PON2 support)
configure vlan port-protocol protocol-group (NG-PON2 support)
configure vlan unicast-mac vlan-id (NG-PON2 support)
configure vlan vlan-port unicast-mac (NG-PON2 support)
configure voice sip dialplan (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure voice sip redundancy (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure voice sip register (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure voice sip server (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure voice sip termination (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers and End_User controlled act/deact of Call Waiting)
configure voice sip transport (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure voice sip user-agent (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure voice sip vsp domain-name (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
configure xdsl ont interface (NG-PON2 support)
configure xdsl ont line (NG-PON2 support)
configure xdsl vce-profile (vectoring init time improvements : historical P-coder)
show alarm current table (CPE/ONT Configuration over OMCI)
show alarm current xdsl-tca (automatic port reset)
show alarm delta-log (CPE/ONT Configuration over OMCI)
show alarm log table (CPE/ONT Configuration over OMCI)
show alarm log xdsl-tca (automatic port reset)
show alarm snap-shot xdsl-tca tca (automatic port reset)
show alarm snapshot table (CPE/ONT Configuration over OMCI)
show ani ont operational-data (NG-PON2 support)
show ani ont video (NG-PON2 support)
show ani ont video-stats (NG-PON2 support)
show arp-relay-stats (NG-PON2 support, ARP/PPPoE/VLAN GPON 2 parameter types merged into common interface type)
show ces ont line port current-interval (NG-PON2 support)

show ces ont line port previous-interval (NG-PON2 support)
show cfm stack (NG-PON2 support)
show config-data-port bridge-port (corrected CLI tree display)
show config-data-port igmp (NG-PON2 support)
show config-data-port igmp (corrected CLI tree display)
show config-data-port interface-port (corrected CLI tree display)
show config-data-port qos (corrected CLI tree display)
show config-data-port security-pae (corrected CLI tree display)
show dhcp-relay port-stats (NG-PON2 support)
show dhcp-relay session (NG-PON2 support)
show dhcp-relay v6-port-stats (NG-PON2 support)
show equipment ont data-store (NG-PON2 support)
show equipment ont ethernet current-interval (NG-PON2 support)
show equipment ont ethernet previous-interval (NG-PON2 support)
show equipment ont ethernet total (NG-PON2 support)
show equipment ont fec-tc-layer olt-side current-interval (NG-PON2 support)
show equipment ont fec-tc-layer ont-side current-interval (NG-PON2 support)
show equipment ont interface (CPE/ONT Configuration over OMCI)
show equipment ont interface (NG-PON2 support)
show equipment ont mcast-tc-layer ont-side current-interval (NG-PON2 support)
show equipment ont mcast-tc-layer ont-side previous-interval (NG-PON2 support)
show equipment ont operational-data (NG-PON2 support)
show equipment ont optics (NG-PON2 support)
show equipment ont optics-history (NG-PON2 support)
show equipment ont phy-layer olt-side current-interval (NG-PON2 support)
show equipment ont pwr-shed (NG-PON2 support)
show equipment ont slot (NG-PON2 support)
show equipment ont sw-download (CPE/ONT Configuration over OMCI)
show equipment ont sw-download (NG-PON2 support)
show equipment ont tc-layer olt-side current-interval (NG-PON2 support)
show equipment ont tc-layer olt-side previous-interval (NG-PON2 support)
show equipment ont tc-layer olt-side-on-demand current-interval (NG-PON2 support)
show equipment ont tc-layer olt-side-on-demand previous-interval (NG-PON2 support)
show equipment ont tc-layer ont-side current-interval (NG-PON2 support)
show equipment ont tc-layer ont-side previous-interval (NG-PON2 support)
show equipment ont xg-tc-layer olt-side current-interval (NG-PON2 support)
show equipment ont xg-tc-layer olt-side previous-interval (NG-PON2 support)

show equipment ont xg-tc-layer ont-side current-interval (NG-PON2 support)
show equipment ont xg-tc-layer ont-side previous-interval (NG-PON2 support)
show ethernet ont operational-data (NG-PON2 support)
show ethernet ont port current-interval (NG-PON2 support)
show ethernet ont port previous-interval (NG-PON2 support)
show hpna ont performance-data current-interval (NG-PON2 support)
show hpna ont performance-data previous-interval (NG-PON2 support)
show igmp channel counter (NG-PON2 support)
show igmp channel miscellaneous (NG-PON2 support)
show igmp channel protocol (NG-PON2 support)
show interface alarm (NG-PON2 support)
show interface port (NG-PON2 support)
show interface stack (NG-PON2 support)
show interface test (NG-PON2 support)
show ipv6 users (NG-PON2 support)
show l2uni ont performance-data current-interval (NG-PON2 support)
show l2uni ont performance-data previous-interval (NG-PON2 support)
show linetest cluster lineid-ext-rept (corrected unit for ringer test)
show mcast active-groups (NG-PON2 support)
show mcast grp-membership (NG-PON2 support)
show mcast ont-active-groups (NG-PON2 support)
show mcast pon-active-groups (NG-PON2 support)
show moca ont operational-data (NG-PON2 support)
show moca ont performance-data current-interval (NG-PON2 support)
show moca ont performance-data previous-interval (NG-PON2 support)
show oper-data-port bridge-port (corrected CLI tree display)
show oper-data-port ethernet (corrected CLI tree display)
show oper-data-port igmp (NG-PON2 support)
show oper-data-port igmp (corrected CLI tree display)
show oper-data-port interface-port (corrected CLI tree display)
show oper-data-port ip-bridge-port (corrected CLI tree display)
show oper-data-port qos (corrected CLI tree display)
show pon diagnostic (Detection of ALIEN ONU on GPON)
show pppoe-client emulation (NG-PON2 support)
show pppoe-client session (NG-PON2 support)
show pppoel2-stats (NG-PON2 support)
show qos interface-bandwidth (NG-PON2 support)

show qos statistics queue current-15min (NG-PON2 support)
show qos statistics queue prev-15min (NG-PON2 support)
show security pae diagnostic (eap-logoff-cnt display updated)
show system cde-bitmap (displays the activated CDE Capabilities (256 bits))
show trouble-shooting pbit statistics interface (NG-PON2 support)
show trouble-shooting statistics interface (NG-PON2 support)
show trouble-shooting statistics uni-interface (NG-PON2 support)
show uni ont tc-layer olt-side current-interval (NG-PON2 support)
show uni ont tc-layer olt-side previous-interval (NG-PON2 support)
show uni ont tc-layer ont-side current-interval (NG-PON2 support)
show uni ont tc-layer ont-side previous-interval (NG-PON2 support)
show vlan bridge-port-fdb (NG-PON2 support)
show vlan cross-connect (NG-PON2 support)
show vlan current-15min-stats (NG-PON2 support)
show vlan current-day-stats (NG-PON2 support)
show vlan dup-mac-alarm (NG-PON2 support)
show vlan pbit-statistics port (NG-PON2 support)
show vlan port-15min-stats (NG-PON2 support)
show vlan port-accumu-stats (NG-PON2 support)
show vlan port-curr-15min-stats (NG-PON2 support)
show vlan port-curr-day-stats (NG-PON2 support)
show vlan port-event (NG-PON2 support)
show vlan port-prev-day-stats (NG-PON2 support)
show vlan previous-15min-stats (NG-PON2 support)
show vlan residential-bridge extensive (NG-PON2 support)
show vlan residential-bridge summary (NG-PON2 support)
show vlan vlan-day-stats (NG-PON2 support)
show vlan vmac-bridge-port-fdb (NG-PON2 support)
show voice cluster signal-gateway (show IP address and port info when showing list of MGC/ASP)
show voice ont pots-call statistics prev-15min (NG-PON2 support)
show voice ont pots-rtp statistics prev-15min (NG-PON2 support)
show voice sip redundancy-node (updates for SIP (CVP) Multiple Voice Access Gateway, support multiple providers)
show xdsl config-data-port atm-pvc (corrected CLI tree display)
show xdsl config-data-port bonding-group (corrected CLI tree display)
show xdsl config-data-port bridge-port (corrected CLI tree display)
show xdsl config-data-port igmp (corrected CLI tree display)
show xdsl config-data-port interface-atm-pvc (corrected CLI tree display)

show xdsl config-data-port interface-port (corrected CLI tree display)
show xdsl config-data-port pppox-relay (corrected CLI tree display)
show xdsl config-data-port qos (corrected CLI tree display)
show xdsl config-data-port security-pae (corrected CLI tree display)
show xdsl config-data-port xdsl (corrected CLI tree display)
show xdsl ont carrier-data far-end (NG-PON2 support)
show xdsl ont carrier-data near-end (NG-PON2 support)
show xdsl ont counters far-end channel current-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters far-end channel previous-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters far-end line current-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters far-end line previous-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters near-end channel current-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters near-end channel previous-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters near-end line current-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont counters near-end line previous-interval (support of G.997.1 Line PM counter LOS Second, NG-PON2 support)
show xdsl ont cpe-tuc-inventory (NG-PON2 support)
show xdsl ont cpe-tur-inventory (NG-PON2 support)
show xdsl ont failure-status far-end (NG-PON2 support)
show xdsl ont failure-status near-end (NG-PON2 support)
show xdsl ont operational-data far-end channel (NG-PON2 support)
show xdsl ont operational-data far-end line (NG-PON2 support)
show xdsl ont operational-data near-end channel (NG-PON2 support)
show xdsl ont operational-data near-end line (NG-PON2 support)
show xdsl ont xdsl-int (NG-PON2 support)
show xdsl oper-data-port atm-pvc (corrected CLI tree display)
show xdsl oper-data-port bridge-port (corrected CLI tree display)
show xdsl oper-data-port igmp (NG-PON2 support)
show xdsl oper-data-port igmp (corrected CLI tree display)
show xdsl oper-data-port interface-port (corrected CLI tree display)
show xdsl oper-data-port ip-bridge-port (corrected CLI tree display)
show xdsl oper-data-port qos (corrected CLI tree display)
show xdsl oper-data-port xdsl (corrected CLI tree display)

show xdsl operational-data line (automatic port reset)

New Commands

admin channel-pair (NG-PON2 support)

admin channel-pair diagnostic (NG-PON2 support)

admin pon utilization (manage PON Utilization and Threshold)

admin software-mngt config-file (text based full system configuration dump in DPoE scope)

configure channel-group (NG-PON2 support)

configure channel-group id (NG-PON2 support)

configure channel-group id no channel-pair ()

configure channel-group id subchannel-group (NG-PON2 support)

configure channel-group id subchannel-group id (NG-PON2 support)

configure channel-group id subchannel-group id channel-pair (NG-PON2 support)

configure channel-pair (NG-PON2 support)

configure channel-pair interface (NG-PON2 support)

configure channel-pair interface fec-tc-layer (NG-PON2 support)

configure channel-pair interface mcast-tc-layer (NG-PON2 support)

configure channel-pair interface phy-layer (NG-PON2 support)

configure channel-pair interface tc-layer (NG-PON2 support)

configure channel-pair interface tc-layer-threshold (NG-PON2 support)

configure channel-pair interface troubleshooting (NG-PON2 support)

configure channel-pair interface troubleshooting threshold (NG-PON2 support)

configure channel-pair interface xg-tc-layer (NG-PON2 support)

configure channel-pair profiles (NG-PON2 support)

configure channel-pair profiles wavelength-prof (NG-PON2 support)

configure channel-pair troubleshooting (NG-PON2 support)

configure cm ipv6-classif-pf (static command support for icmpv4/v6 classifier)

configure generic-pon (manage PON Utilization and Threshold)

configure generic-pon ont slid-mode (restructure pon command tree)

configure generic-pon power-shed-prof profile-name (restructure pon command tree)

configure generic-pon utilization (manage PON Utilization and Threshold)

configure generic-pon utilization threshold (manage PON Utilization and Threshold)

configure pon interface utilization (manage PON Utilization and Threshold)

configure pon interface utilization threshold (manage PON Utilization and Threshold)

configure system security tacacs (implementation of TACACS+)

configure system security tacacs acc-server router-instance (implementation of TACACS+)

configure system security tacacs policy (implementation of TACACS+)

configure system security tacacs policy servers (implementation of TACACS+)

configure xdsl board auto-port-reset (automatic port reset)
configure xdsl system (automatic port reset)
configure xdsl system auto-port-reset (automatic port reset)
show alarm current channel-pair (NG-PON2 support)
show alarm current olt-chpair-tc-tca (manage PON Utilization and Threshold)
show alarm current olt-pon-util-tca (manage PON Utilization and Threshold)
show alarm current ont-cfg-dld (CPE/ONT Configuration over OMCI)
show alarm log channel-pair (NG-PON2 support)
show alarm log olt-chpair-tc-tca (manage PON Utilization and Threshold)
show alarm log olt-pon-util-tca (manage PON Utilization and Threshold)
show alarm log ont-cfg-dld (CPE/ONT Configuration over OMCI)
show alarm snap-shot channel-pair (NG-PON2 support)
show alarm snap-shot olt-chpair-tc-tca (manage PON Utilization and Threshold)
show alarm snap-shot olt-pon-util-tca (manage PON Utilization and Threshold)
show alarm snap-shot ont-cfg-dld (CPE/ONT Configuration over OMCI)
show channel-pair (NG-PON2 support)
show channel-pair diagnostics (NG-PON2 support)
show channel-pair fec-tc-layer (NG-PON2 support)
show channel-pair fec-tc-layer current-interval (NG-PON2 support)
show channel-pair mcast-tc-layer (NG-PON2 support)
show channel-pair mcast-tc-layer current-interval (NG-PON2 support)
show channel-pair mcast-tc-layer previous-interval (NG-PON2 support)
show channel-pair optics (NG-PON2 support)
show channel-pair phy-layer (NG-PON2 support)
show channel-pair phy-layer current-interval (NG-PON2 support)
show channel-pair sfp-inventory (NG-PON2 support)
show channel-pair tc-layer (NG-PON2 support)
show channel-pair tc-layer current-interval (NG-PON2 support)
show channel-pair tc-layer previous-interval (NG-PON2 support)
show channel-pair unprovision-onu (NG-PON2 support)
show channel-pair xg-tc-layer current-interval (NG-PON2 support)
show channel-pair xg-tc-layer previous-interval (NG-PON2 support)
show channel-pair xg-tc-layer (NG-PON2 support)
show equipment diagnostics sfp-threshold (RSSI support on NT ports in FD)
show equipment ont cfg-download (CPE/ONT Configuration over OMCI)
show equipment ont ranging-status (NG-PON2 support)
show equipment ont ranging-status channel-group (NG-PON2 support)

show equipment ont ranging-status channel-pair (NG-PON2 support)
show equipment ont utilization (manage PON Utilization and Threshold)
show equipment ont utilization current-interval (manage PON Utilization and Threshold)
show equipment ont utilization previous-interval (manage PON Utilization and Threshold)
show pon cfg-download (CPE/ONT Configuration over OMCI)
show pon utilization (manage PON Utilization and Threshold)
show pon utilization cur-intvl-top-ont-rx (manage PON Utilization and Threshold)
show pon utilization cur-intvl-top-ont-tx (manage PON Utilization and Threshold)
show pon utilization current-interval (manage PON Utilization and Threshold)
show pon utilization previous-interval (manage PON Utilization and Threshold)
show pon utilization prv-intvl-top-ont-rx (manage PON Utilization and Threshold)
show pon utilization prv-intvl-top-ont-tx (manage PON Utilization and Threshold)
show system cde-bitmap-extended (displays the activated CDE Capabilities (256 bits))
show trouble-shooting pbitstatistics (NG-PON2 support)
show trouble-shooting pbitstatistics vlanport (NG-PON2 support)
show trouble-shooting statistics channel-pair (NG-PON2 support)
show trouble-shooting statistics vlanport (NG-PON2 support)
show trouble-shooting statistics vlanport bridgeport-id (NG-PON2 support)
show trouble-shooting statistics vlanport bridgeport-id vlan-id (NG-PON2 support)
show trouble-shooting statistics vlanport bridgeport-id vlan-id extensive (NG-PON2 support)
show trouble-shooting statistics vlanport bridgeport-id vlan-id summary (NG-PON2 support)

Removed Commands

admin cmts cm static-l2migr (modified support for DHCP, DHCP Relay not supported any more on DPOE)
configure cmts vcm-oam (modified support for DHCP, DHCP Relay not supported any more on DPOE)
show cmts l2migr status (modified support for DHCP, DHCP Relay not supported any more on DPOE)

Commands or commands with parameters for future use, not supported yet

configure l2cp session (RFC6320+ VDSL bonding to mainstream)
configure linetest cluster ltsession (H248 POTS: Porting MDU specific enhancements diagnosis-caller diagnosis-callee)
configure linetest single ltparm test-name (increase line test parameters for NBLT ROH test zener-res zener-volt)
configure vlan id (transparent behavior DHCP option 82 handling (replaced when already inserted by CPE), Access Loop Encapsulation support for DHCPv6 not supported yet (parameters pppoe-l2-encaps, dhcp-l2-encaps, dhcpv6-l2-encaps l2-encaps1 pppoer-vlanaware and dhcpr-vlanaware))
show l2cp session-status (RFC6320+ VDSL bonding to mainstream)
show linetest single lineid-ext-rept (increase line test parameters for NBLT ROH test)

Command delta R5.1.01 versus R5.1

Modified Commands

admin pppoe-client emulation client-id (ARP/PPPoE/VLAN parameter types merged into common interface type)
admin pppoel2-stats client-id (ARP/PPPoE/VLAN parameter types merged into common interface type)
configure pppoe-client interface client-id (ARP/PPPoE/VLAN parameter types merged into common interface type)
configure pppoel2-stats (ARP/PPPoE/VLAN parameter types merged into common interface type)
show pppoe-client emulation (ARP/PPPoE/VLAN parameter types merged into common interface type)
show pppoe-client session (ARP/PPPoE/VLAN parameter types merged into common interface type)
show pppoel2-stats (ARP/PPPoE/VLAN parameter types merged into common interface type)
configure mcast chn (improved configuration of a multicast channel using the "chn" keyword)
configure qos profiles ingress-qos (parameter value 'not-used' added for NibbleMask)
configure vlan id (adding parameters for Access Loop Encapsulation in PPPoE IA and DHCP relay and parameters pppoer-vlanaware and dhcpr-vlanaware for S+C VLAN CC with 3 VLANs)
configure voice cluster equipment board (support NVPS-C Redundancy)
show voice ont pots operational-data detail (adding VOIP Line Status support (OLT part))
configure xdsl-bonding board r/s/s vect-fallback (bonding fall-back configuration for vectoring)
show xdsl-bonding operational-data group (bonding fall-back configuration for vectoring)
configure equipment ont interface (support for N:P connect mode for ontBridgeMapMode)
configure voice ont (improved retrieval of toneset profile)
config vlan id (closing feature gaps between FGLT-B and FGLT-A)
configure qos profiles policer (closing feature gaps between FGLT-B and FGLT-A)
configure pppox-relay cross-connect (closing feature gaps between FGLT-B and FGLT-A)
show voice ont pots operational-data (add new values to VOIP Voice Server Status in OLT)
admin cmts add-cm-event (VCM Event Improvement)
admin cmts del-cm-event (VCM Event Improvement)
show cmts cm-event-ctrl (VCM Event Improvement)

New Commands

configure cm route_profile (add configure cm route-profile cli in core 0)
configure pppoe-client interface (ARP/PPPoE/VLAN GPON 2 parameter types merged into common interface type)
configure xdsl-bonding board (adding bonding vectoring fallback)
configure xdsl-bonding board vect-fallback (adding bonding vectoring fallback)

New Parameters or Parameter Values NOT supported yet

configure alarm entry (alarms hpr-com-fail,chpr-tx-fail,chpr-unprov-ont,chpr-prov-mismatch,chpr-loss-sig,chpr-diagnostic,chpr-loid-conflict,chpr-loid-pv

not supported yet)

configure alarm filter filterid(alarms

hpr-com-fail,chpr-tx-fail,chpr-unprov-ont,chpr-prov-mismatch,chpr-loss-sig,chpr-diagnostic,chpr-loid-conflict,chpr-loid-pv

not supported yet)

Command delta R5.1 versus R5.0.01

Modified Commands

configure cfm domain association mep (supporting LM originator and historical counters for past measurements on VDSL LTs)

configure cfm y1731pm domain association (supporting LM originator and historical counters for past measurements on VDSL LTs)

configure equipment shelf (adding mode that supports NT-B slot that can be used as LT slot)

show equipment shelf (adding mode that supports NT-B slot that can be used as LT slot)

configure linetest cluster ltparm test-name (adding megaco testtypes, GR909 faults testing, fixing dial tone delay)

configure linetest cluster ltsession (adding megaco testtypes, GR909 faults testing, fixing dial tone delay)

show linetest cluster lineid-ext-rept (adding megaco testtypes, GR909 faults testing, fixing dial tone delay)

configure qos dsl-ctrl-pkt-policer (adding option to disable policing of RIP/ARP traffic on data plane in upstream)

configure system (adding support for voice image selection)

configure vlan id (removed obsoleted parameters broadcast-frames and secure-forwarding)

configure voice cluster media-gateway (updating supported MGC types)

configure voice cluster equipment termination (updating supported termination for 270duratelsplitter and 2703splitter)

configure voice sip termination (updating supported termination for 270duratelsplitter and 2703splitter)

show system license (lining up license key counters for TL1 and CLI)

show xdsl config-data-port igmp (remove PON identifiers from the res-ids)

show voice ont pots operational-data detail (adding additional field line-state)

show interface port (updated description of last-chg-opr-stat)

configure equipment applique (adding support for FNIO-A)

show equipment applique (adding support for FNIO-A)

configure equipment rssiprof (difference in ranges provided for parameters tx-pwr and rx-pwr)

configure ethernet ont (configurable behaviour for Ethernet port on PONLOS)

configure veip ont (configurable behaviour for Ethernet port on PONLOS)

configure xdsl ont spectrum-profile (removing unsupported operational modes)

admin voice cluster media-gateway (adding support for Single Node Standalone SOS operation, adding failover to ESA MGC alarm type)

configure alarm entry (adding failover to ESA MGC alarm type)

configure alarm filter filterid (adding failover to ESA MGC alarm type)

New Commands
show equipment planned-resource (showing the actual values of configured hardware resources on boards)
configure qos pbit-scheduling (configuring the p-bit behavior of the S+C vlan forwarding model in both upstream and downstream direction)
configure xdsl-bonding board (adding bonding vectoring fallback for future use)
configure xdsl-bonding board vect-fallback (adding bonding vectoring fallback for future use)
show mcast ont-active-groups (shows the list of active multicast streams per user interface on a particular ONT)
show mcast pon-active-groups (shows the list of active multicast streams per user interface on a particular PON)
admin cmts (adding MEF2.0 CLI nodes on FANT-F core0)
configure cmts mesp (adding MEF2.0 CLI nodes on FANT-F core0)
configure cmts pw-class (adding MEF2.0 CLI nodes on FANT-F core0)
configure cmts vpls-class (adding MEF2.0 CLI nodes on FANT-F core0)
configure cmts vpn-sg (adding MEF2.0 CLI nodes on FANT-F core0)
show cmts (adding MEF2.0 CLI nodes on FANT-F core0)
configure service pw-template (BGP auto-discovery and signaling support for VPLS and EPIPE services)
show dpoe profile (add DPOE CLI node: profile)
show dpoe service (add DPOE CLI node: service)

New commands NOT supported yet
admin channel-pair (changes for channel-pair related commands supporting NGPON2)
admin channel-pair diagnostic (changes for channel-pair related commands supporting NGPON2)
configure channel-group (changes for channel-pair related commands supporting NGPON2)
configure channel-group id (changes for channel-pair related commands supporting NGPON2)
configure channel-group id channel-pair (changes for channel-pair related commands supporting NGPON2)
configure channel-group id subchannel-group (changes for channel-pair related commands supporting NGPON2)
configure channel-group id subchannel-group id (changes for channel-pair related commands supporting NGPON2)
configure channel-group id subchannel-group id channel-pair (changes for channel-pair related commands supporting NGPON2)
configure channel-pair (changes for channel-pair related commands supporting NGPON2)
configure channel-pair interface (changes for channel-pair related commands supporting NGPON2)
configure channel-pair interface fec-tc-layer (changes for channel-pair related commands supporting NGPON2)
configure channel-pair interface mcast-tc-layer (changes for channel-pair related commands supporting NGPON2)
configure channel-pair interface phy-layer (changes for channel-pair related commands supporting NGPON2)

NGPON2)
configure channel-pair interface tc-layer (changes for channel-pair related commands supporting NGPON2)
configure channel-pair interface xg-tc-layer (changes for channel-pair related commands supporting NGPON2)
configure channel-pair profiles (changes for channel-pair related commands supporting NGPON2)
configure channel-pair profiles wavelength-prof (changes for channel-pair related commands supporting NGPON2)
show channel-pair (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface fec-tc-layer (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface fec-tc-layer current-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface mcast-tc-layer (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface mcast-tc-layer current-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface mcast-tc-layer previous-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface phy-layer (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface phy-layer current-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface tc-layer (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface tc-layer current-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface tc-layer previous-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface xg-tc-layer (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface xg-tc-layer current-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair interface xg-tc-layer previous-interval (changes for channel-pair related commands supporting NGPON2)
show channel-pair sfp-inventory (changes for channel-pair related commands supporting NGPON2)

New parameter values for NGPON2 NOT supported yet

admin equipment ont data-store (changes to enable planning, creating and managing NGPON2 interfaces)
admin equipment ont interface (changes to enable planning, creating and managing NGPON2 interfaces)
configure ani ont tca-thresh (changes for commands supporting NGPON2)
configure ani ont video (changes for commands supporting NGPON2)
configure equipment ont interface (changes for commands supporting NGPON2)
configure equipment ont loop (changes for commands supporting NGPON2)

configure interface alarm (changes for commands supporting NGPON2)
configure interface port (changes for commands supporting NGPON2)
configure ntp ont (changes for commands supporting NGPON2)
configure qos interface (changes for commands supporting NGPON2)
configure qos tca queue (changes for commands supporting NGPON2)
configure xdsl ont interface (changes for commands supporting NGPON2)
show ani ont operational-data (changes for commands supporting NGPON2)
show ani ont video (changes for commands supporting NGPON2)
show ani ont video-stats (changes for commands supporting NGPON2)
show equipment ont data-store (changes for commands supporting NGPON2)
show equipment ont ethernet current-interval (changes for commands supporting NGPON2)
show equipment ont ethernet previous-interval (changes for commands supporting NGPON2)
show equipment ont ethernet total (changes for commands supporting NGPON2)
show equipment ont fec-tc-layer olt-side current-interval (changes for commands supporting NGPON2)
show equipment ont fec-tc-layer ont-side current-interval (changes for commands supporting NGPON2)
show equipment ont interface (changes for commands supporting NGPON2)
show equipment ont mcast-tc-layer ont-side current-interval (changes for commands supporting NGPON2)
show equipment ont mcast-tc-layer ont-side previous-interval (changes for commands supporting NGPON2)
show equipment ont operational-data (changes for commands supporting NGPON2)
show equipment ont optics (changes for commands supporting NGPON2)
show equipment ont optics-history (changes for commands supporting NGPON2)
show equipment ont phy-layer olt-side current-interval (changes for commands supporting NGPON2)
show equipment ont pwr-shed (changes for commands supporting NGPON2)
show equipment ont sw-download (changes for commands supporting NGPON2)
show equipment ont tc-layer olt-side current-interval (changes for commands supporting NGPON2)
show equipment ont tc-layer olt-side previous-interval (changes for commands supporting NGPON2)
show equipment ont tc-layer olt-side-on-demand current-interval (changes for commands supporting NGPON2)
show equipment ont tc-layer olt-side-on-demand previous-interval (changes for commands supporting NGPON2)
show equipment ont tc-layer ont-side current-interval (changes for commands supporting NGPON2)
show equipment ont tc-layer ont-side previous-interval (changes for commands supporting NGPON2)
show equipment ont xg-tc-layer olt-side current-interval (changes for commands supporting NGPON2)
show equipment ont xg-tc-layer olt-side previous-interval (changes for commands supporting NGPON2)
show equipment ont xg-tc-layer ont-side current-interval (changes for commands supporting NGPON2)
show equipment ont xg-tc-layer ont-side previous-interval (changes for commands supporting NGPON2)
show interface alarm (changes for commands supporting NGPON2)

show interface port (changes for commands supporting NGPON2, updated description of last-chg-opr-stat)
show interface stack (changes for commands supporting NGPON2)
show interface test (changes for commands supporting NGPON2)
show qos interface-bandwidth (changes for commands supporting NGPON2)
show qos statistics queue current-15min (changes for commands supporting NGPON2)
show qos statistics queue prev-15min (changes for commands supporting NGPON2)

Command delta R5.0.01 versus R5.0

Modified Commands
configure voice cluster media-gateway (new parameter quat-mgc-ip and quat-mgc-udp for IMS Geo Redundancy)
configure voice cluster signal-gateway (new parameter quat-asp-ip and quat-sctp-port for IMS Geo Redundancy)
configure voice sip user-agent-ap slot-id (adding support for NTIO board)
show voice sip redundancy-node ext-redundancy-state (adding support for NTIO board)
show voice sip redundancy-node redundancy-state (adding support for NTIO board)
show voice sip user-agent-ap (adding support for NTIO board)
configure alarm entry (updating alarm list with new alarms, adding power alarms introduced for 7363 ISAM MX and 7367 ISAM SX)
configure alarm filter filterid (updating alarm list with new alarms)
show alarm delta-log indeterminate (updating alarm list with new alarms)
show alarm delta-log warning (updating alarm list with new alarms)
show alarm delta-log minor (updating alarm list with new alarms)
show alarm delta-log major (updating alarm list with new alarms)
show alarm delta-log critical (updating alarm list with new alarms)
configure ethernet line mau (addng supported mau types)
configure qos profiles policer (updating policer profile ranges for MEF certification and MEF Policer rate calculation to include only L2 bytes)
configure vlan id (adding new parameter 'cvlan4095passthru' to forward c-vid 4095 transparently)
show qos statistics buffer-overflow current-1day (removal of obsolete parameter values for 'slotindex')
show vlan bridge-port-fdb (enabling retrieval of mac-adresses learned on uplink lt)
show vlan fdb-board (improved display of dup mac alarm)
show vlan dup-mac-alarm (improved display of dup mac alarm)
configure system security login-banner (expanding Logon banner to 2048 characters)
configure system loop-id-syntax (adding 'LzNVID' as keyword to construct the system loop ID)
show xdsl counters near-end line previous-interval (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl counters near-end line previous-day (adding a timestamp to each PM interval, specifying the

date and time of the start of the PM interval)
show xdsl counters near-end channel previous-interval (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl counters near-end channel previous-day (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl counters far-end line previous-interval (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl counters far-end line previous-day (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl counters far-end channel previous-interval (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl counters far-end channel previous-day (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl imp-noise-sensor near-end previous-interval (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show xdsl imp-noise-sensor far-end previous-interval (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show shdsl segment-counters previous-15min (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show shdsl segment-counters previous-1day (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show shdsl span-counters previous-15min (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
show shdsl span-counters previous-1day (adding a timestamp to each PM interval, specifying the date and time of the start of the PM interval)
configure cmts system (DPoE : removed 'no' for parameter 'system')
configure voice ont mgc-config (improvement to attach sec-uri profile to the mgc-config when using the profile name)
configure voice ont service (increasing parameter length for 'user-name')
show voice ont call-hist (improvement to only allow valid value between 1 and 32)
configure eth-cfm (adding on-demand and proactive performance monitoring compliant with Y.1731 on IHUB system)
show eth-cfm (adding on-demand and proactive performance monitoring compliant with Y.1731 on IHUB system)
show eth-ring (adding RPL owner functionality for G.8032 ERPS on IHUB system)

New Commands

configure cfm y1731pm (adding on-demand and proactive performance monitoring compliant with Y.1731)
configure cfm y1731pm domain association (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm curr-15min-stats (adding on-demand and proactive performance monitoring compliant with Y.1731)

show cfm y1731pm curr-15min-stats domain (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm curr-day-stats (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm curr-day-stats domain (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm prev-15min-stats (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm prev-15min-stats domain (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm prev-day-stats (adding on-demand and proactive performance monitoring compliant with Y.1731)
show cfm y1731pm prev-day-stats domain (adding on-demand and proactive performance monitoring compliant with Y.1731)
admin interface cable (DPoE : adding support more counters and statistics for ONU)
admin trouble-shooting pbit interface (upstream summary and extensive troubleshooting counters per TC)
configure trouble-shooting pbit (upstream summary and extensive troubleshooting counters per TC)
configure trouble-shooting pbit statistics (upstream summary and extensive troubleshooting counters per TC)
configure trouble-shooting pbit statistics interface (upstream summary and extensive troubleshooting counters per TC)
show trouble-shooting pbit statistics interface (Upstream summary and extensive troubleshooting counters per TC)
configure cmts cm-event-ctrl (DPoE : vCM event improvement)
configure system sync-if-timing ptp (adding TimeOfDay functionality, adding parameter 'transport-mode')
configure system sync-if-timing ptp mstr-port-ds-prof (adding TimeOfDay functionality)
configure system sync-if-timing ptp ont-master-port (adding TimeOfDay functionality)
configure system sync-if-timing ptp default-dataset (adding TimeOfDay functionality)
configure system sync-if-timing ptp slave-port-dataset (adding TimeOfDay functionality)
configure system sync-if-timing tod (adding TimeOfDay functionality)
configure system sync-if-timing tod interface (adding TimeOfDay functionality)
configure system sync-if-timing tod serial-param (adding TimeOfDay functionality)
configure system sync-if-timing tod-ref-order (adding TimeOfDay functionality)
show system sync-if-timing-profile (adding TimeOfDay functionality)
show system sync-if-timing-tod (adding TimeOfDay functionality)
configure eth-ring revert-time (adding RPL owner functionality for G.8032 ERPS on IHUB system)
configure eth-ring rpl-node (adding RPL owner functionality for G.8032 ERPS on IHUB system)
configure qos-servicerouter system ingress-storm-ctrl (adding rate-limiting of Broadcast/DLF/Unknown Multicats on IHUB system)
configure qos-servicerouter system egress-storm-ctrl (adding rate-limiting of Broadcast/DLF/Unknown Multicats on IHUB system)

configure service storm-ctrl (adding rate-limiting of Broadcast/DLF/Unknown Multicats on IHUB system)
show qos-servicerouter system ingress-storm-ctrl (adding rate-limiting of Broadcast/DLF/Unknown Multicats on IHUB system)
show qos-servicerouter system egress-storm-ctrl (adding rate-limiting of Broadcast/DLF/Unknown Multicats on IHUB system)

Removed Commands or Commands with removed parameters

configure system sync-if-timing ptp packet-mode (packet-mode has been replaced by transport-mode)
configure system clock-mgmt (obsolete command, replaced by 'configure system sync-if-timing')

Command delta R5.0 versus R4.6.02

Modified Commands
configure alarm entry (OLT support SIPPING Alarms, ONTalarms, removal of obsolete alarms)
configure cfm domain association mep (support Y.1731 SLM Originator and LM responder on CATAN based VDSL LT's)
show system license (support Y.1731 SLM Originator and LM responder on CATAN based VDSL LT's)
show cfm mep-config-data domain (support Y.1731 SLM Originator and LM responder on CATAN based VDSL LT's)
configure ethernet line tca-line-threshold (extend TCA on Eth Phy PM traffic counters)
configure qos interface (allow vlanport on DSL/ETH interface)
configure qos tca queue (allow vlanport on DSL/ETH interface)
show interface port (improved display parameters as an extension of the interface MIB for the efm interface according to RFC2863)
show qos interface-bandwidth (allow vlanport on DSL/ETH interface)
show qos statistics queue current-15min (allow vlanport on DSL/ETH interface)
show qos statistics queue prev-15min (allow vlanport on DSL/ETH interface)
configure qos profiles policer (the use of 'discard' value for GreenAction is disabled)
configure system security filetransfer server (improved security for operator password)
configure system security pmfile upload (improved security for operator password)
configure system security radius acc-server (name) router-instance (improved security for operator password)
configure system security radius auth-server (name) router-instance (improved security for operator password)
configure system security radius dyn-auth-client (name) router-instance (improved security for operator password)
show xdsl config-data-port pppox-relay (improved response speed)
show xdsl vect-carrier-data far-end (improved value range)
show xdsl vect-carrier-data near-end (improved value range)
configure linetest single ltsession (adding SIP NBLT session busy-overwrite parameter :

"busy-overwrite")
configure system clock-mgmt (clock input failure derived from AIS)
configure vlan id (updated description of parameter 'new-broadcast')
configure voice sip termination (improved security for operator password)
configure voice sip termination (add line signal on remote answer parameter : "linesig-remanswer")
configure voice sip termination (add test access parameters : "testaccessstate", "busyoverwrite" and "accessontimeout")
configure voice sip termination (add line identification parameter (pani-header): "line-id")
configure voice sip digitmap (size of parameter "rule" increased to 100 bytes)
show alarm current ether=tca (extend TCA on Eth Phy PM traffic counters)
show alarm snap-shot ether=tca (extend TCA on Eth Phy PM traffic counters)
show alarm log ether=tca (extend TCA on Eth Phy PM traffic counters)
show config-data-port security-pae (add missing PON types)
show oper-data-port ip-bridge-port (add missing PON types)
configure equipment ont interface (improved security for operator password)
configure pon auth-sec-prof (improved security for operator password)
configure voice ont auth-sec-prof (improved security for operator password)
configure voice ont service (add support for SIPPING Server as a configuration method)
configure voice ont service (improved security for operator password)
configure voice ont voice-sip-port (improved security for operator password)
configure equipment ont interface (decouple ONT SW Planning and Delay Activation)
configure equipment ont interface (support RF programmable filter options for I-241W-T)
configure equipment ont slot (add MoCA support)
show alarm current ont-pots (OLT support SIPPING Alarms)
show alarm snapshot ont-pots (OLT support SIPPING Alarms)
show alarm log ont-pots (OLT support SIPPING Alarms)
show alarm delta-log ont-pots (OLT support SIPPING Alarms)
show alarm current ont-voip (OLT support SIPPING Alarms)
show alarm snapshot ont-voip (OLT support SIPPING Alarms)
show alarm log ont-voip (OLT support SIPPING Alarms)
show alarm delta-log ont-voip (OLT support SIPPING Alarms)
show equipment ont sw-download (decouple ONT SW Planning and Delay Activation)
configure equipment ont sw-ctrl (decouple ONT SW Planning and Delay Activation)
configure system sync-if-timing (clock input failure derived from AIS)
show equipment ont ethernet current-interval (64bit rolling counter for Total/Multicast/Broadcast)
show equipment ont ethernet previous-interval (64bit rolling counter for Total/Multicast/Broadcast)
show ces ont service pseudo-wire currentinterval (OLT support for B-0404G-B new PM and loopback alarms)

show ces ont service pseudo-wire previousinterval (OLT support for B-0404G-B new PM and loopback alarms)
show alarm current ont-ces (OLT support for B-0404G-B new PM and loopback alarms)
show alarm snap-shot ont-ces (OLT support for B-0404G-B new PM and loopback alarms)
show alarm log ont-ces (OLT support for B-0404G-B new PM and loopback alarms)
show alarm delta-log ont-ces (OLT support for B-0404G-B new PM and loopback alarms)
show alarm current ont-pwe (OLT support for B-0404G-B new PM and loopback alarms)
show alarm snap-shot ont-pwe (OLT support for B-0404G-B new PM and loopback alarms)
show alarm log ont-pwe (OLT support for B-0404G-B new PM and loopback alarms)
show alarm delta-log ont-pwe (OLT support for B-0404G-B new PM and loopback alarms)
configure port ethernet (suppress obsolete alarm with new parameter suppress-link-state-alarm : see IHUB interface guide for details)

New Commands

show alarm current mdu-sup (differentiation between ONT alarm types)
show alarm current sfu-sup (differentiation between ONT alarm types)
show alarm current soho-sup (differentiation between ONT alarm types)
show alarm log mdu-sup (differentiation between ONT alarm types)
show alarm log sfu-sup (differentiation between ONT alarm types)
show alarm log soho-sup (differentiation between ONT alarm types)
show alarm snap-shot mdu-sup (differentiation between ONT alarm types)
show alarm snap-shot sfu-sup (differentiation between ONT alarm types)
show alarm snap-shot soho-sup (differentiation between ONT alarm types)
admin cfm single-ended-slm (support Y.1731 SLM Originator and LM responder on CATAN based VDSL LT's)
admin cfm single-ended-slm domain association mep target-mac (support Y.1731 SLM Originator and LM responder on CATAN based VDSL LT's)
configure alarm filter filterid (CLI coverage of TL1 Alarm Filter)
show alarm current spatial (add spatial filter alarm)
show alarm current temporal (add temporal filter alarm)
show alarm log spatial (add spatial filter alarm)
show alarm log temporal (add temporal filter alarm)
show alarm snap-shot spatial (add spatial filter alarm)
show alarm snap-shot temporal (add temporal filter alarm)
configure voice cluster equipment termination tca (Voice QoS threshold TCA (drop rate, jitter, loop delay))
show qos resource-usage (QOS resource usage status (NELT-B HighCap UNI increment))
show qos resource-usage ingress-hw-filter (QOS resource usage status (NELT-B HighCap UNI increment))
admin cm (enable DPoE node on core0)

admin iphost (Support Ping from ONT-OLT part)
admin iphost ping dest-ip (Support Ping from ONT-OLT part)
configure cm uni-collection (add BHN support for DPoE)
configure cm uniprofile (add BHN support for DPoE)
configure cmts cmts-event-ctrl (DPoE data path redundancy)
configure cmts ssd (enable DPoE SSD node on core0)
configure moca (add MoCA support)
configure moca ont cust-info (add MoCA support)
configure moca ont l2 pm (add MoCA support)
configure moca ont phy pm (add MoCA support)
show alarm current ont-moca (add MoCA support)
show alarm current ont-moca-tca (add MoCA support)
show alarm log ont-moca (add MoCA support)
show alarm log ont-moca-tca (add MoCA support)
show alarm snap-shot ont-moca (add MoCA support)
show alarm snap-shot ont-moca-tca (add MoCA support)
show moca (add MoCA support)
show moca ont (add MoCA support)
show moca ont operational-data (add MoCA support)
show moca ont performance-data (add MoCA support)
show moca ont performance-data current-interval (add MoCA support)
show moca ont performance-data previous-interval (add MoCA support)
show equipment ont ethernet total (64bit rolling counter for Total/Multicast/Broadcast)
show voice ont voip-pip-prof (OLT support SIPPING Alarms,added to allow monitoring of the download status for each POTS line)
show voice ont voip-pip-prof operational-data (OLT support SIPPING Alarms)
show voice ont voip-pip-prof operational-data input-profile (OLT support SIPPING Alarms)
show voice ont voip-vip-prof (OLT support SIPPING Alarms,added to allow monitoring of the download status for the VoIP client)
show voice ont voip-vip-prof operational-data (OLT support SIPPING Alarms)
show voice ont voip-vip-prof operational-data input-profile (OLT support SIPPING Alarms)

New commands NOT supported yet

configure system auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm current auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm log auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm snap-shot auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
configure alarm entry auto-switch-status (Auto-switching between ATMoADSL and PTMoVDSL)

configure alarm filter auto-switch-status (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm delta-log auto-switch-status (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm current table auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm log table auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
show alarm snap-shot table auto-switch (Auto-switching between ATMoADSL and PTMoVDSL)
show equipment planned-resource

Removed Commands or Commands with removed parameters

configure bridge port (removal of obsolete parameters old-tag accept-frame-type)
configure vlan (removal of obsolete parameter pvid-usage)
configure vlan id (removal of obsolete parameters pppoe-relay circuit-id remote-id)

Command delta R4.6.02 versus R4.6.01

Modified Commands

show xdsl vect-carrier-data far-end (improved display of sampling rate)
show xdsl vect-carrier-data near-end (improved display of sampling rate)
configure xdsl-bonding group (2-pair VDSL2 PTM bonding in combination with G.inp)
show xdsl-bonding operational-data group (2-pair VDSL2 PTM bonding in combination with G.inp)
configure system sync-if-timing ref-order (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b", restrictions removed)
configure system sync-if-timing ssm-order (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b", restrictions removed)
configure system sync-if-timing ptp ptp-domain (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b", restrictions removed)
show system sync-if-timing (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b", restrictions removed)
configure alarm entry (new alarms for several features)
configure voice ont ring-seq-prof (improvement to configure ring sequence using strings for pattern1)
configure voice ont tone-seq-profile (improvement to configure tone sequence using strings for pattern1)

New Commands

configure xdsl-bonding [no] group-rtx-profile (2-pair VDSL2 PTM bonding in combination with G.inp)
show xdsl-bonding group-rtx-profiles (2-pair VDSL2 PTM bonding in combination with G.inp)
configure cmts cmcert (adding security features for DPoE system)
configure cmts eae-excluded-onu (adding security features for DPoE system)
configure cmts cmts-event (DOCSIS Event Framework phase 2)
configure cmts physical-entity (provides additional DOCSIS OLT MIBs)
configure eth-ring (supporting Ethernet Ring (G.8032))

show eth-ring (supporting Ethernet Ring (G.8032))
show alarm current eth-ring (supporting Ethernet Ring (G.8032))
show alarm log eth-ring (supporting Ethernet Ring (G.8032))
show alarm snapshot eth-ring (supporting Ethernet Ring (G.8032))
configure ethernet ont l2 (redesign cli commands for ont uni (ethernet) l2 threshold crossing alerts)
configure ethernet ont phy (redesign cli commands for ont uni (ethernet) l2 threshold crossing alerts)
configure hpna ont l2 (redesign cli commands for ont uni (hpna) l2 threshold crossing alerts)
configure veip ont l2 (redesign cli commands for ont uni (veip) l2 threshold crossing alerts)
configure xdsl ont line l2 (redesign cli commands for ont uni (xdsl) l2 threshold crossing alerts)
configure xdsl ont line phy (cli commands for ont uni (xdsl) layer threshold crossing alerts)
show interface cable (DPoE DOCSIS Provisioning Framework)

Changed commands NOT supported yet

show alarm current mdu-sup (alarm for future use)
show alarm current sfu-sup (alarm for future use)
show alarm current soho-sup (alarm for future use)
show alarm log mdu-sup (alarm for future use)
show alarm log sfu-sup (alarm for future use)
show alarm log soho-sup (alarm for future use)
show alarm snap-shot mdu-sup (alarm for future use)
show alarm snap-shot sfu-sup (alarm for future use)
show alarm snap-shot soho-sup (alarm for future use)

Command delta R4.6.01 versus R4.6

Modified Commands

show dhcp-relay port-stats vlan (improved response on SLT platform)
show dhcp-relay v6-port-stats vlan (improved response on SLT platform)
show vlan port-15min-stats (improved parameter range display)
show vlan port-prev-day-stats (improved parameter range display)
show vlan previous-15min-stats (improved parameter range display)
show vlan vlan-day-stats (improved parameter range display)
configure alarm entry (support new alarms for different features, improved alarm mechanism specification)
configure alarm log-sev-level (improved alarm mechanism specification)
configure alarm shub entry (improved alarm mechanism specification)
configure trap manager (improved alarm mechanism specification)
show alarm log table (improved alarm mechanism specification)

show alarm current table (improved alarm mechanism specification)
show alarm snap-shot table (improved alarm mechanism specification)
configure bridge port (support bp and vp for uplink port)
configure cfm domain association (ONT CFM SW enhancements)
configure cfm domain association mep (support Y.1731 DM responder)
show cfm mep-config-data domain association mep (support Y.1731 DM responder)
configure system security pmfile upload (automatic PM collection)
admin system security pmfile upload (automatic PM collection)
show equipment shelf detail (retrieve serial Number, ICS and variant of the shelf)
show equipment transceiver-inventory (Report B+/C+ type for GPON SFPs)
show security pmfile upload (automatic PM collection)
show pppoel2-stats vlan (improved response on SLT platform)
configure ces ont service service-nbr (CES SAToP support at ONT)
configure epon profiles filter (EPON CCL profile dimension expanded to 8192)
show epon profiles-usage filter (EPON CCL profile dimension expanded to 8192)
configure voice ont service (XML download over OMCI)
configure cmts vcm-oam (DPoE DOCSIS Provisioning Framework)
configure pon sec-uri-profile (improved profile specification)
configure tr069serv ont (improved profile specification)
configure voice ont mgc-config (improved profile specification)
configure voice ont ringing-profile (improved profile specification)
configure voice ont sec-uri-profile (improved profile specification)
configure voice ont sip-config (improved profile specification)
configure voice ont voice-serv-prof (improved profile specification)
configure voice ont voip-app-service (improved profile specification)
configure voice ont voip-config (improved profile specification)
configure voice ont voip-media-prof (improved profile specification)
configure voice ont tone-event-prof alert-tone (improved profile specification)
configure voice ont tone-event-prof busy-tone (improved profile specification)
configure voice ont tone-event-prof callwait1-tone (improved profile specification)
configure voice ont tone-event-prof callwait2-tone (improved profile specification)
configure voice ont tone-event-prof callwait3-tone (improved profile specification)
configure voice ont tone-event-prof callwait4-tone (improved profile specification)
configure voice ont tone-event-prof confirm-tone (improved profile specification)
configure voice ont tone-event-prof congest-tone (improved profile specification)
configure voice ont tone-event-prof dead-tone (improved profile specification)
configure voice ont tone-event-prof dial-tone (improved profile specification)

configure voice ont tone-event-prof intrusion-tone (improved profile specification)
configure voice ont tone-event-prof msg-wait-tone (improved profile specification)
configure voice ont tone-event-prof release-tone (improved profile specification)
configure voice ont tone-event-prof reorder-tone (improved profile specification)
configure voice ont tone-event-prof ringback-tone (improved profile specification)
configure voice ont tone-event-prof roh-tone (improved profile specification)
configure voice ont tone-event-prof special-dial-tone (improved profile specification)
configure voice ont tone-event-prof special-info-tone (improved profile specification)
configure voice ont tone-event-prof stutter-tone (improved profile specification)
configure voice ont tone-event-prof userdef1-tone (improved profile specification)
configure voice ont tone-event-prof userdef2-tone (improved profile specification)
configure voice ont tone-event-prof userdef3-tone (improved profile specification)
configure voice ont tone-event-prof userdef4-tone (improved profile specification)
configure voice ont voice-port (improved profile specification)
configure voice ont voice-sip-port (improved profile specification)
configure voice ont ringing-profile name (improved setting of ringing profile attributes)

New Commands

admin ethernet statistics (support RMON counters on NELT-B interfaces)
show ethernet etherstats (support RMON counters on NELT-B interfaces)
show cfm slm-responder-stats (SLM Responder on CATAN VDSL LT and NELT-B UNI)
show cfm slm-responder-stats domain (SLM Responder on CATAN VDSL LT and NELT-B UNI)
show vlan port-accumu-stats (support display of accumulate statistics on the bridge port)
show alarm current ihub-tca (support IHUB Threshold Crossing Alert)
show alarm log ihub-tca (support IHUB Threshold Crossing Alert)
show alarm snap-shot ihub-tca (support IHUB Threshold Crossing Alert)
configure cm classifier (DPoE commands for Service Flow provisioning)
configure cm cm-static (DPoE commands for Service Flow provisioning)
configure cm gen-ext (DPoE commands for Service Flow provisioning)
configure cm oam (DPoE commands for Service Flow provisioning)
configure cm service-flow (DPoE commands for Service Flow provisioning)
configure cm sf-collection (DPoE commands for Service Flow provisioning)
configure cm tlv-file (DPoE commands for Service Flow provisioning)
show alarm current ont-ces (CLI support for GPON alarms phase 2)
show alarm current ont-cese1 (CLI support for GPON alarms phase 2)
show alarm current ont-hpna (CLI support for GPON alarms phase 2)
show alarm current ont-mgc (CLI support for GPON alarms phase 2)
show alarm current ont-pwe (CLI support for GPON alarms phase 2)

show alarm current ont-sip-agent-cfg (CLI support for GPON alarms phase 2)
show alarm current ont-video (CLI support for GPON alarms phase 2)
show alarm current ont-video-ani (CLI support for GPON alarms phase 2)
show alarm current ont-voip (CLI support for GPON alarms phase 2)
show alarm current ont-voip-cfg (CLI support for GPON alarms phase 2)
show alarm current ont-xdsl (CLI support for GPON alarms phase 2)
show alarm current ont-xdsl-tca (CLI support for GPON alarms phase 2)
show alarm log ont-ces (CLI support for GPON alarms phase 2)
show alarm log ont-cese1 (CLI support for GPON alarms phase 2)
show alarm log ont-hpna (CLI support for GPON alarms phase 2)
show alarm log ont-mgc (CLI support for GPON alarms phase 2)
show alarm log ont-pwe (CLI support for GPON alarms phase 2)
show alarm log ont-sip-agent-cfg (CLI support for GPON alarms phase 2)
show alarm log ont-video (CLI support for GPON alarms phase 2)
show alarm log ont-video-ani (CLI support for GPON alarms phase 2)
show alarm log ont-voip (CLI support for GPON alarms phase 2)
show alarm log ont-voip-cfg (CLI support for GPON alarms phase 2)
show alarm log ont-xdsl (CLI support for GPON alarms phase 2)
show alarm log ont-xdsl-tca (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-ces (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-cese1 (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-hpna (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-mgc (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-pwe (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-sip-agent-cfg (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-video (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-video-ani (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-voip (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-voip-cfg (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-xdsl (CLI support for GPON alarms phase 2)
show alarm snap-shot ont-xdsl-tca (CLI support for GPON alarms phase 2)
show pon unprovision-onu (CLI support for GPON alarms phase 2)
show system sync-if-timing-ntp (Synchronisation Redundancy for BITS/SyncE/IEEE1588)

Removed Commands or Commands with removed parameters

show alarm current ont-loopdetect-mis (removal of obsolete command)
show alarm log ont-loopdetect-mis (removal of obsolete command)
show alarm snap-shot ont-loopdetect-mis (removal of obsolete command)

configure system snmp manager (improved usage of SNMPv3, dpoe parameter removed)
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New Commands NOT supported yet

configure xdsl-bonding [no] group-rtx-profile (2-pair VDSL2 PTM bonding in combination with G.inp)
show xdsl-bonding group-rtx-profiles (2-pair VDSL2 PTM bonding in combination with G.inp)
configure equipment ont interface phy-layer (for future use, support XGPON)
configure equipment ont interface xg-tc-layer (for future use, support XGPON)
configure pon interface phy-layer (for future use, support XGPON)
configure pon interface fec-tc-layer (for future use, support XGPON)
configure pon interface xg-tc-layer (for future use, support XGPON)
show equipment ont fec-tc-layer olt-side (for future use, support XGPON)
show equipment ont fec-tc-layer olt-side current-intervalfor future use, support XGPON)
show equipment ont phy-layerfor future use, support XGPON)
show equipment ont phy-layer olt-sidefor future use, support XGPON)
show equipment ont phy-layer olt-side current-intervalfor future use, support XGPON)
show equipment ont xg-tc-layerfor future use, support XGPON)
show equipment ont xg-tc-layer olt-sidefor future use, support XGPON)
show equipment ont xg-tc-layer olt-side current-intervalfor future use, support XGPON)
show equipment ont xg-tc-layer olt-side previous-intervalfor future use, support XGPON)
show equipment ont xg-tc-layer ont-sidefor future use, support XGPON)
show equipment ont xg-tc-layer ont-side current-intervalfor future use, support XGPON)
show equipment ont xg-tc-layer ont-side previous-intervalfor future use, support XGPON)
show pon interface fec-tc-layerfor future use, support XGPON)
show pon interface fec-tc-layer current-intervalfor future use, support XGPON)
show pon interface phy-layerfor future use, support XGPON)
show pon interface phy-layer current-intervalfor future use, support XGPON)
show pon interface xg-tc-layerfor future use, support XGPON)
show pon interface xg-tc-layer current-interval for future use, support XGPON)
show pon interface xg-tc-layer previous-interval for future use, support XGPON)
show alarm current mdu (alarm for future use)
show alarm current mdu-gen (alarm for future use)
show alarm current mdu-ploam (alarm for future use)
show alarm current sfu (alarm for future use)
show alarm current sfu-gen (alarm for future use)
show alarm current sfu-ploam (alarm for future use)
show alarm current soho (alarm for future use)
show alarm current soho-gen (alarm for future use)
show alarm current soho-ploam (alarm for future use)

show alarm log mdu (alarm for future use)
show alarm log mdu-gen (alarm for future use)
show alarm log mdu-ploam (alarm for future use)
show alarm log sfu (alarm for future use)
show alarm log sfu-gen (alarm for future use)
show alarm log sfu-ploam (alarm for future use)
show alarm log soho (alarm for future use)
show alarm log soho-gen (alarm for future use)
show alarm log soho-ploam (alarm for future use)
show alarm snap-shot mdu (alarm for future use)
show alarm snap-shot mdu-gen (alarm for future use)
show alarm snap-shot mdu-ploam (alarm for future use)
show alarm snap-shot sfu (alarm for future use)
show alarm snap-shot sfu-gen (alarm for future use)
show alarm snap-shot sfu-ploam (alarm for future use)
show alarm snap-shot soho (alarm for future use)
show alarm snap-shot soho-gen (alarm for future use)
show alarm snap-shot soho-ploam (alarm for future use)

Commands with new parameters or parameter values that are NOT supported yet (commands remain backward compatible with previous releases)

configure xdsl line (new parameter "auto-switch" to switch between ATMoADSL and PTMoVDSL)
configure xdsl-bonding group (2-pair VDSL2 PTM bonding in combination with G.inp)
show xdsl-bonding operational-data group (2-pair VDSL2 PTM bonding in combination with G.inp)
configure equipment ont interface fec-tc-layer (for future use, support XGPON)
configure pon interface (for future use, support XGPON)

Commands with new parameters or parameter values with LIMITED support. (commands are NOT backward compatible with previous releases. Note : configure maximum only one IEEE1588 clock source. In duplex NT mode, this clock source can be configured on either NT-A or NT-B, independently of which one is the active one. The NT that has the clock source configured will pass on the signal to its peer NT)

configure system sync-if-timing ref-order (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b")
configure system sync-if-timing ssm-order (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b")
configure system sync-if-timing ptp ptp-domain (Synchronisation Redundancy for BITS/SyncE/IEEE1588 parameter value "ieee1588" replaced by "ieee1588-a" or "ieee1588-b")

Command delta R4.6 versus R4.5.02

Modified Commands
configure bridge port [no] vlan-id (implement dedicated downstream voice queue, for VOIP services on both VOIP and VEIP UNI's)
configure cfm domain association [no] mep (Y.1731 SLM Responder on CATAN based VDSL LT's and NELT-B UNI)
configure cfm domain association [no] name (improvement : [no] command removed)
configure equipment sfpe1t1 framer (removal of obsolete loopback parameters)
configure mcast static [no] branch (GPON static Multicast per ONT, add AID for GPON vlan port)
configure qos profiles [no] bandwidth (support for MEF qualification MIB Impact)
configure qos profiles [no] l3-filter (support L3 ACLs in an IPv6 context)
configure system (PPPoE / DHCP customer-id configuration at system level)
configure system pon-ont (SN bundle with LOID or SLID)
configure system security snmp [no] community (DOCSIS Provisioning Framework)
configure system security snmp [no] group (DOCSIS Provisioning Framework)
configure system security snmp [no] manager (DOCSIS Provisioning Framework)
configure voice sip redundancy (Configurable DNS Selection Algorithm)
configure xdsl [no] service-profile (increase the number of service profiles to 1024)
configure xdsl line [no] service-profile (increase the number of service profiles to 1024)
configure xdsl board vect-fallback [no] service-profile (increase the number of service profiles to 1024)
show system license (MPLS ring with sub 50 ms switchover)
show cfm mep-configdata domain (Y.1731 SLM Responder on CATAN based VDSL LT's and NELT-B UNI)
show cfm mep-info domain (improvement : displays each field of a CCM packet)
configure bridge port (Support for Multiple LLID on EPON ONU for DPoE)
configure system (Support for Multiple LLID on EPON ONU for DPoE)
configure qos (Support for Multiple LLID on EPON ONU for DPoE)
configure vlan (Support for Multiple LLID on EPON ONU for DPoE)
configure arp-relay (Support for Multiple LLID on EPON ONU for DPoE)
configure qos interface ellid (Support for Multiple LLID on EPON ONU for DPoE)
configure alarm entry (new alarms for several features)
configure epon profiles [no] filter (improvement : [no] value added for classfandv and classac)
configure equipment eont [no] interface (support for Multiple LLID for ISAM EPON QoS and Forwarding Model)
configure equipment eont interface management (support for Multiple LLID for ISAM EPON QoS and Forwarding Model)
configure equipment ont [no] interface (SN bundle with LOID or SLID and DSCP to pbit alignment for PPPoE frames on GPON LT)
configure system syslog (DOCSIS Provisioning Framework)
configure uni ont video (RF Video service timer configuration)
show equipment ont interface (SN bundle with LOID or SLID)

show epon interface information (OLT supports new MIB interface towards OSS)
show equipment eont llid (support for Multiple LLID on EPON ONU for DPoE)
configure equipment eont interface llid (support for Multiple LLID on EPON ONU for DPoE)
configure ethernet eont port (support for Multiple LLID for ISAM EPON QoS and Forwarding Model)
configure voice ont mgc-config (improvement : parameters "pri-mgcuri-profid" and "sec-mgcuri-profid" changed to required parameters)

Removed Commands or Commands with removed parameters

configure equipment sfpe1t1 global (removal of obsolete loopback commands)
configure alarm entry (removal of obsolete alarms lt-problem and applique-problem)

New Commands

configure cfm slm (Y.1731 SLM Responder on CATAN based VDSL LT's and NELT-B UNI)
show ethernet dot3stats (ether-like counters on NELT-B, replaces show transport ether-ifdot3lt)
show ethernet mau (replaces "show transport ether-ifmault" for NELT-B MAU operational data)
show ethernet sfp (replaces "show transport ether-ifsfp" for NELT-B SFP inventory data)
configure cmts (DPoE DOCSIS Provisioning Framework)
configure cmts [no] allowonu (DPoE DOCSIS Provisioning Framework)
configure cmts [no] bundle (DPoE DOCSIS Provisioning Framework)
configure cmts [no] cert (DPoE DOCSIS Provisioning Framework)
configure cmts [no] class (DPoE DOCSIS Provisioning Framework)
configure cmts [no] cm-event (DPoE DOCSIS Provisioning Framework)
configure cmts [no] diag (DPoE DOCSIS Provisioning Framework)
configure cmts [no] filter (DPoE DOCSIS Provisioning Framework)
configure cmts [no] interface (DPoE DOCSIS Provisioning Framework)
configure cmts [no] l2vpn (DPoE DOCSIS Provisioning Framework)
configure cmts [no] log-level (DPoE DOCSIS Provisioning Framework)
configure cmts [no] oosp (DPoE DOCSIS Provisioning Framework)
configure cmts [no] pon (DPoE DOCSIS Provisioning Framework)
configure cmts [no] sav (DPoE DOCSIS Provisioning Framework)
configure cmts [no] serving-group (DPoE DOCSIS Provisioning Framework)
configure cmts [no] subscriber-def (DPoE DOCSIS Provisioning Framework)
configure cmts [no] system (DPoE DOCSIS Provisioning Framework)
configure cmts [no] vcm-oam (DPoE DOCSIS Provisioning Framework)
configure cmts [no] x509 (DPoE DOCSIS Provisioning Framework)
configure dpoe plt [no] adminstate (DPoE DOCSIS Provisioning Framework)
show cable (DPoE DOCSIS Provisioning Framework)
show dpoe (DPoE DOCSIS Provisioning Framework)

show dpoe plt (DPoE DOCSIS Provisioning Framework)
show dpoe olt (DPoE DOCSIS Provisioning Framework)
show dpoe onu (DPoE DOCSIS Provisioning Framework)
show interface dpoe (DPoE DOCSIS Provisioning Framework)
configure equipment ont loop (OLT support loop detection and alarm function)
show alarm current ont-loopdetect (OLT support loop detection and alarm function)
show alarm current ont-loopdetect-mis (OLT support loop detection and alarm function)
show alarm log ont-loopdetect (OLT support loop detection and alarm function)
show alarm log ont-loopdetect-mis (OLT support loop detection and alarm function)
show alarm snap-shot ont-loopdetect (OLT support loop detection and alarm function)
show alarm snap-shot ont-loopdetect-mis (OLT support loop detection and alarm function)
configure trouble-shooting pon statistics threshold [no interval (GPON OLT PM counter)
configure trouble-shooting pon statistics threshold interface (GPON OLT PM counter)
show alarm current olt-ont-tc-tca (CLI support for GPON alarms)
show alarm current alarm-table (CLI support for GPON alarms)
show alarm current olt-pon-tc-tca (CLI support for GPON alarms)
show alarm current ont-card (CLI support for GPON alarms)
show alarm current ont-gen (CLI support for GPON alarms)
show alarm current ont-iphost (CLI support for GPON alarms)
show alarm current ont-l2uni-eth-tca (CLI support for GPON alarms)
show alarm current ont-lan (CLI support for GPON alarms)
show alarm current ont-ploam (CLI support for GPON alarms)
show alarm current ont-pots (CLI support for GPON alarms)
show alarm current ont-pots-supplemental (CLI support for GPON alarms)
show alarm current rsvp (CLI support for GPON alarms)
show alarm current ont-tc-tca (CLI support for GPON alarms)
show alarm current ont-veip (CLI support for GPON alarms)
show alarm log olt-ont-tc-tca (CLI support for GPON alarms)
show alarm log alarm-table (CLI support for GPON alarms)
show alarm log olt-pon-tc-tca (CLI support for GPON alarms)
show alarm log ont-card (CLI support for GPON alarms)
show alarm log ont-gen (CLI support for GPON alarms)
show alarm log ont-iphost (CLI support for GPON alarms)
show alarm log ont-l2uni-eth-tca (CLI support for GPON alarms)
show alarm log ont-lan (CLI support for GPON alarms)
show alarm log ont-ploam (CLI support for GPON alarms)
show alarm log ont-pots (CLI support for GPON alarms)

show alarm log ont-pots-supplemental (CLI support for GPON alarms)
show alarm log rsvp (CLI support for GPON alarms)
show alarm log ont-tc-tca (CLI support for GPON alarms)
show alarm log ont-veip (CLI support for GPON alarms)
show alarm snap-shot olt-ont-tc-tca (CLI support for GPON alarms)
show alarm snap-shot alarm-table (CLI support for GPON alarms)
show alarm snap-shot olt-pon-tc-tca (CLI support for GPON alarms)
show alarm snap-shot ont-card (CLI support for GPON alarms)
show alarm snap-shot ont-gen (CLI support for GPON alarms)
show alarm snap-shot ont-iphost (CLI support for GPON alarms)
show alarm snap-shot ont-l2uni-eth-tca (CLI support for GPON alarms)
show alarm snap-shot ont-lan (CLI support for GPON alarms)
show alarm snap-shot ont-ploam (CLI support for GPON alarms)
show alarm snap-shot ont-pots (CLI support for GPON alarms)
show alarm snap-shot ont-pots-supplemental (CLI support for GPON alarms)
show alarm snap-shot rsvp (CLI support for GPON alarms)
show alarm snap-shot ont-tc-tca (CLI support for GPON alarms)
show alarm snap-shot ont-veip (CLI support for GPON alarms)
show equipment eont loid-mapping (OLT supports new MIB interface towards OSS)
show equipment eont mac-mapping (OLT supports new MIB interface towards OSS)

New Commands not supported yet

configure xdsl-bonding [no] group-rtx-profile (2-pair VDSL2 PTM bonding in combination with G.inp)
show xdsl-bonding group-rtx-profiles (2-pair VDSL2 PTM bonding in combination with G.inp)

Commands with new parameters or parameter values that are NOT supported yet (commands remain backward compatible with previous releases)

configure xdsl line (new parameter "auto-switch" to switch between ATM ADSL and PTM VDSL)
configure xdsl-bonding group (2-pair VDSL2 PTM bonding in combination with G.inp)

Command delta R4.5.02 versus R4.5.01

Modified Commands

configure alarm entry (support new alarms for different features)
configure bridge port vlan-id (MAC learning control per vlanport on GPON LT)
configure cfm domain association (CFM Enhancement to support CCM messages)
configure cfm domain association mep (CFM Enhancement to support CCM messages)
show cfm mep-config-data domain (CFM Enhancement to support CCM messages)

show cfm ma-config-data domain (CFM Enhancement to support CCM messages)
configure qos interface upstream-queue (Traffic Rate Limiting per GEM port)
configure qos profiles marker [no] d1p-alignment (support for multiple DSCP to pbit mapping profiles)
configure voice sip [no] termination (ANSI E911 Emergency Call features for SIP)
configure xdsl board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
configure xdsl vp-board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
Show alarm log vect-board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
Show alarm current vect-board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
Show alarm snap-shot vect-board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
show xdsl vp-board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
Show xdsl vect-group (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
Show xdsl failure-status vect-board (vectoring functionality on NRCD-C REM controller board, Cross-DSLAM vectoring)
configure xdsl board vect-fallback (allows fallback mode for configuration not feasible,Cross-DSLAM Vectoring)
show xdsl vect-carrier-data far-end (Cross-DSLAM full vectoring support)
show xdsl vect-carrier-data near-end (Cross-DSLAM full vectoring support)
configure ani ont rssi-profile (ONU RSSI support, only FX-7360 for FANT-F NGLT-A/C FGLT-A)
configure equipment [no] rssiprof (ONU RSSI support, only FX-7360 for FANT-F NGLT-A/C FGLT-A)
configure pon interface (GPON OLT G.988 amd1 compliant ONU LOID authentication)
configure voice ont pots (POTS related VOIP PM feature in VEIP mode)
configure voice ont pots-rtp (POTS related VOIP PM feature in VEIP mode)
configure voice ont pots-call (POTS related VOIP PM feature in VEIP mode)
show voice ont call-hist (POTS related VOIP PM feature in VEIP mode)
show voice ont pots operational-data (POTS related VOIP PM feature in VEIP mode)
show voice ont pots-rtp statistics current-15min (POTS related VOIP PM feature in VEIP mode)
show voice ont pots-call statistics current-15min (POTS related VOIP PM feature in VEIP mode)

Removed Commands or Commands with removed parameters

show system license cci-enabled-mep (replaced by "show system license eth-oam-adv-mon")
show interface port (obsolete parameter value "ethernet" is not applicable in this context)
show interface stack (obsolete parameter value "ethernet" is not applicable in this context)
show interface test (obsolete parameter value "ethernet" is not applicable in this context)

New Commands
admin interface trouble-shooting ethernet statistics (troubleshooting counters on the FD-REM link)
show interface trouble-shooting ethernet statistics (troubleshooting counters on the FD-REM link)
configure cfm domain association remote-mep (CFM Enhancement to support CCM messages)
show alarm current cfm (CFM Enhancement to support CCM messages)
show alarm log cfm (CFM Enhancement to support CCM messages)
show alarm snap-shot cfm (CFM Enhancement to support CCM messages)
show cfm ccm-database (CFM Enhancement to support CCM messages)
show cfm ccm-database domain (CFM Enhancement to support CCM messages)
show cfm mep-info domain (CFM Enhancement to support CCM messages)
show alarm current efm-oam (DSL/ETH LT 802.3ah Critical Event Notification support)
show alarm log efm-oam (DSL/ETH LT 802.3ah Critical Event Notification support)
show alarm snap-shot efm-oam (DSL/ETH LT 802.3ah Critical Event Notification support)
configure pppox-relay cross-connect engine (troubleshooting improvement for PPP Relay with MAC concentration)
show alarm current pppcc-engine-tca (troubleshooting improvement for PPP Relay with MAC concentration)
show alarm log pppcc-engine-tca (troubleshooting improvement for PPP Relay with MAC concentration)
show alarm snap-shot pppcc-engine-tca (troubleshooting improvement for PPP Relay with MAC concentration)
show pppox-relay cross-connect trouble-shooting-cntrs engine curr-15min-stats (troubleshooting improvement for PPP Relay with MAC concentration)
show pppox-relay cross-connect trouble-shooting-cntrs engine curr-1day-stats (troubleshooting improvement for PPP Relay with MAC concentration)
show pppox-relay cross-connect trouble-shooting-cntrs engine prev-15min-stats (troubleshooting improvement for PPP Relay with MAC concentration)
show pppox-relay cross-connect trouble-shooting-cntrs engine prev-1day-stats (troubleshooting improvement for PPP Relay with MAC concentration)
configure qos profiles [no] dscp-pbit (support for multiple DSCP to pbit mapping profiles)
configure qos profiles codepoint (support for multiple DSCP to pbit mapping profiles)
show qos profile-usage dscp-pbit (support for multiple DSCP to pbit mapping profiles)
show system license eth-oam-adv-mon (replaces "show system license cci-enabled-mep")
show voice ont pots-call statistics prev-15min (POTS related VOIP PM feature in VEIP mode)
show voice ont pots-rtp statistics prev-15min (POTS related VOIP PM feature in VEIP mode)
Commands with new parameters or parameter values that are NOT supported yet (commands remain backward compatible with previous releases)
configure xdsl line (new parameter "auto-switch" to switch between ATMoADSL and PTMoVDSL)

Command delta R4.5.01 versus R4.5

Modified Commands

configure alarm entry (new parameter values allowed)
configure bridge [no] port (regeneration profile selection by name)
configure debug-trace [no] protocol-trace (Protocol tracing on NGLT-A/C)
configure equipment eont [no] interface (to configure ONT TPID)
configure equipment eont interface [no] llid (to configure the name of the protocol profile to be mapped on ellid)
configure equipment eont interface llid rate-limit-prof (to configure profile name to be associated)
configure equipment ont [no] slot (commands for NNI feature)
configure igmp [no] channel (to configure IGMP Message rate per IGMP control channel)
configure voice cluster equipment [no] termination (Allows to configure the codec type used at TDM side. Change for feature support ISDN G.711 A-law and u-law terminals)
configure voice sip [no] dialplan (change for feature Digitmap minimum match)
configure voice sip [no] termination (change for feature Hotline (FDC-I) and Warmline (FDC-T) subscriber control by IMS NOTIFY and call waiting, call transfer, call hold, call conference)
configure voice sip redundancy (change for feature Foreground Monitoring Enhancement)
configure voice sip user-agent-ap slot-id (change for feature DHCP Option 82)
configure voice sip vsp (change for feature Subscribe and DHCP Option 82 and Fax/Modem negotiation)
configure voice sip system session-timer (Change for feature Session Timer Refresher)
configure xdsl board (extended with auto-discovery functionality, vectoring processing board in controller slot)
configure xdsl spectrum-profile vdsl2 (New UPBO method or Alternative Electrical Length Estimation Mode)
configure xdsl vp-board vp-link (nbr of vectored lines per vectoring processing board increased, vp-board in controller slot)
configure xdsl [no] vect-profile (introducing new parameters in the vect-profile to configure crosstalk cancellation from legacy lines into G.vector lines in downstream)
show config-data-port bridge-port (for regeneration profile selection)
show system license (adding a new license counter, vectoring-legacy, for the introduction of crosstalk cancellation from legacy lines into G.vector lines in downstream)
show voice sip termination (Show Voice SIP Termination Status)
show xdsl config-data-port bridge-port (for regeneration profile selection)
show xdsl failure-status vect-board (vectoring processing board in controller slot)
show xdsl vect-disturber-list downstream (nbr of vectored lines per vectoring processing board increased, disturber-list parameter modified)
show xdsl vp-board (nbr of vectored lines per vectoring processing board increased, vp-board in controller slot)

Removed Commands

none

New Commands

configure qos nni-ctrl-pkt-policer (to configure OBC policer for NNI port)
configure qos profiles [no] rate-limit (IPv6 protocol policer per LLID on FX 10G/EPON)
configure system auto-laser-shutdown (Configurable ALS)
show alarm current efm-oam (new alarm)
show alarm current ellid (new alarm)
show alarm current eth-cfm (new alarm)
show alarm log efm-oam (new alarm)
show alarm log ellid (new alarm)
show alarm log eth-cfm (new alarm)
show alarm snap-shot efm-oam (new alarm)
show alarm snap-shot ellid (new alarm)
show alarm snap-shot eth-cfm (new alarm)
show qos profile-usage rate-limit (show IPv6 protocol policer)
show vlan prio-regen-name (show regeneration profile selection by name)
show vlan prio-regen-next (show next regeneration profile selection)
show voice sip redundancy-node ext-redundancy-state (change for feature Autonomous fail-over indication)
show xdsl vect-disturber-list upstream (nbr of vectored lines per vectoring processing board increased, disturber-list parameter modified)
show xdsl vect-group (cross-dslam vectoring, vp-board in controller slot)

Commands with new parameters or parameter values that are NOT supported yet (commands remain backward compatible with previous releases)

configure qos profiles marker [no] d1p-alignment

New Commands that are NOT supported yet

configure qos profiles [no] dscp-pbit

configure qos profiles dscp-pbit codepoint

show qos profile-usage dscp-pbit-prof

Command delta R4.5 versus R4.4.02

Modified Commands

configure alarm entry (to configure alarms on E1/DS1 SFP)

configure epon [no] interface ('no interface' possibility added)

configure equipment eont [no] interface (DPoE Link OAM, added parameter alarm-profile and Upmode dpoe)

configure equipment eont [no] sw-ctrl (DPoE Link OAM)

configure equipment eont interface [no] port (adding a parameter to enable/disable the shutdown action of an ONU port ico loopback detection)

configure ethernet eont port [no] filter (parameter type for dot1p modified)
configure ethernet line mau (to configure autoneg capabilities)
configure linetest single ltparm test-name (values for MELT added)
configure linetest single ltsession (Increase test parameters for MELT)
configure voice sip [no] termination (to match CDE splitters schematic change)
show linetest single lineid-ext-rept (Increase test parameters for MELT)
show xdsl vp-board (new display elements)

Removed Commands

admin alarm (removed parameter clr-shub-config-loss)
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New Commands

admin alarm (new parameter names)
admin display-config (displays the complete ihub configuration)
admin pppoe-client emulation client-id (to start or stop the PPPoE emulation of a specific interface on a PPPoE client)
configure epon alarm [no] flag (to configure the EPON alarm state definition in compliance with the latest CTC specification 2 and 3.0)
configure epon profiles [no] ontalarm (to configure selective ONU alarm reporting on the OLT)
configure equipment ont interface ethernet (New node ethernet has been introduced to enable/disable PON Aggregate Ethernet Performance Monitoring)
configure equipment sfpe1t1 (to configure the E1 service on E1/DS1 SFP)
configure pppoe-client (to configure the emulation interface on a PPPoE client port)
show alarm current eolt-ont-tca (to show DPoE alarms)
show alarm current eont-phyoam (to show DPoE alarms)
show alarm current eont-services-lan (to show DPoE alarms)
show alarm current eont-sw-dl (to show DPoE alarms)
show alarm current epon (to show DPoE alarms)
show alarm current olt-gen (to show DPoE alarms)
show alarm current sfpe1t1-clock (to show the alarm on E1/DS1 SFP)
show alarm current sfpe1t1-framer (to show the alarm on E1/DS1 SFP)
show alarm log epon (to show DPoE alarms)
show alarm log olt-gen (to show DPoE alarms)
show alarm log sfpe1t1-clock (to show the alarm on E1/DS1 SFP)
show alarm log sfpe1t1-framer (to show the alarm on E1/DS1 SFP)
show epon profiles-usage ontalarm (to retrieve the configured ONU alarm control bitmap on the OLT)
show epon unprovision-onu (to show DPoE alarms)
show equipment ont ethernet current-interval (to retrieve ONT-side Ethernet current interval PM data)
show equipment ont ethernet previous-interval (to retrieve ONT-side Ethernet previous interval PM data)

show linetest single busy-status (to show test parameters for MELT)
show linetest single chipsetdata-for-slot (to show test parameters for MELT)
show pppoe-client (to retrieve the emulation details of PPPoE client interface)
show xdsl vect-disturber-list downstream (this command will replace "show xdsl vect-disturbers")

Commands with new parameters or parameter values that are NOT supported yet (commands remain backward compatible with previous releases)

admin efm-oam interface (traffgen-action parameter added)
configure efm-oam interface (new parameters for ethernet traffgen added)
configure equipment [no] rssiprof (new parameter types added for warnings and alarms)
configure equipment eont interface [no] llid (loop-back parameter added)
configure voice cluster equipment termination (parameter values for impedance added)
configure voice sip system session-timer (status enable-uas added)
configure voice sip vsp (subscribe parameters added, reneg-ct-mode value added)
configure xdsl board (vplt-autodiscover parameter added)
configure xdsl [no] vect-profile (introducing new parameters in the vect-profile to configure crosstalk cancellation from legacy lines into G.vector lines in downstream)
show system license (adding a new license counter, vectoring-legacy, for the introduction of crosstalk cancellation from legacy lines into G.vector lines in downstream)
show xdsl vect-carrier-data far-end (disturberline parameter type changed)
show xdsl vect-carrier-data near-end (disturberline parameter type changed)

New Commands that are NOT supported yet

configure equipment eont interface port [no]auto-adv-abili
configure qos profiles [no] rate-limit
configure system lldp
show alarm current ellid
show alarm current eoltrssi
show alarm log eoltrssi
show alarm snap-shot eoltrssi
show alarm snap-shot sfpe1t1-clock
show alarm snap-shot sfpe1t1-framer
show efm-oam int-traff-gen
show qos profile-usage rate-limit
show system lldp
show xdsl vect-disturber-list
show xdsl vect-disturber-list upstream
show xdsl vect-group

Command delta R4.4.02 versus R4.4

Modified Commands
configure epon interface (10G-EPON LT)
configure qos interface epon ext-cac (10G-EPON LT)
configure qos profiles scheduler-node ext-shaper (10G-EPON LT)
configure equipment eont interface (10G-EPON LT)
configure qos interface ellid upstream-queue 255 ext-bw (10G-EPON LT)
configure ethernet line (AUTO-SENSING fiber speed support for NELT-B)
Info configure ethernet line (AUTO-SENSING fiber speed support for NELT-B)
configure system epon (Rogue ONU discovery)
configure epon interface (Rogue ONU discovery)
show epon optics curidlepwr (Rogue ONU discovery)
configure voice ont service voip-index (SFU and MDU Voice XML file downloading over OMCI)
configure voice ont voip-media-prof (SFU and MDU Voice XML file downloading over OMCI)
configure xdsl board vect-fallback (Fall back configuration for vectoring)
configure alarm entry index (FR Fixing)
configure l2cp user-port partition-id (FR Fixing)
configure linetest single ltsession (FR Fixing)
configure system security snmp community host-address (SNMP relay from core0 to AI platform)
configure system security snmp group security-level (SNMP relay from core0 to AI platform)
show l2cp partition (FR Fixing)
show efm-oam oam-stats (OAM remote loopback in NELT-B)
configure qos interface eont ingress-profile (OAM support for downstream queuing and scheduling per SFU)
configure vlan id (Stacked iBridge)
Info configure vlan id (Stacked iBridge)
configure equipment fan-tray (SW support for ISAM FX intelligent fan)
configure equipment rack (SW support for ISAM FX intelligent fan)
configure port-protection port paired-port (FR Fixing)
show port-protection port (FR Fixing)
configure epon profiles (FR Fixing)
configure ethernet eont port (FR Fixing)
configure pon interface (FR Fixing)
New Commands
admin efm-oam (OAM remote Loopback support for NELT-B)
admin efm-oam interface interface loopback-action (OAM remote Loopback support for NELT-B)

admin epon (Rogue ONU discovery)
admin epon diagnostic (Rogue ONU discovery)
configure equipment eont interface rms (10G-EPON LT, Support of CU EPON C1 OAM)
show efm-oam loopback-info (OAM remote Loopback support for NELT-B)
show epon rogue (OAM remote Loopback support for NELT-B)
configure ai application (Application Intelligence Evolution)
configure ai platform (Application Intelligence Evolution)
configure ai platform xxx application (Application Intelligence Evolution)
show alarm log ai (Application Intelligence Evolution)
show alarm snap-shot ai (Application Intelligence Evolution)
show alarm current ai (Application Intelligence Evolution)
show ai application (Application Intelligence Evolution)
show ai platform (Application Intelligence Evolution)
show ai platform-application (Application Intelligence Evolution)
telnet-ai (Application Intelligence Evolution)

Removed Commands

configure port-protection primary-port paired-port (FR Fixing)
show pon protection (FR Fixing)
show port-protection primary-port (FR Fixing)

Command delta R4.4 versus R4.3.02

Modified Commands

configure qos interface (GEM port sharing, OMCI for remote MDU mgmt, GPON:CVLAN translation)
admin arp-relay-stats (OMCI for remote MDU management)
admin bridge learned-unicast-mac (OMCI for remote MDU management)
admin dhcp-relay port-stats (OMCI for remote MDU management)
admin dhcp-relay v6-port-stats (OMCI for remote MDU management)
admin igmp channel (OMCI for remote MDU management)
admin security ext-authenticator (OMCI for remote MDU management)
admin trouble-shooting interface (OMCI for remote MDU management)
configure arp-relay (OMCI for remote MDU management)
configure cfm domain (OMCI for remote MDU management, 2p VDSL2 bonding with vectoring in SLV)
configure cfm domain association (OMCI for remote MDU management)
configure dhcp-relay port-stats (OMCI for remote MDU management)
configure dhcp-relay v6-port-stats (OMCI for remote MDU management)
configure igmp (OMCI for remote MDU management)

configure interface port (OMCI for remote MDU management)
configure iphost (OMCI for remote MDU management)
configure ppox-relay cross-connect (OMCI for remote MDU management)
configure qos tca (OMCI for remote MDU management)
configure system security pae authenticator (OMCI for remote MDU management)
configure system security pae ext-authenticator (OMCI for remote MDU management)
configure system security pae port (OMCI for remote MDU management)
configure system sync-if-timing ssmout-ltport (OMCI for remote MDU management)
configure trouble-shooting statistics (OMCI for remote MDU management)
configure vlan port-protocol protocol-group (OMCI for remote MDU management)
configure vlan pbit-statistics (OMCI for remote MDU management)

Modified Commands

show igmp channel protocol (OMCI for remote MDU management)
show interface port (OMCI for remote MDU management, ATM Pseudowire)
show interface stack (OMCI for remote MDU management)
show interface test (OMCI for remote MDU management, ATM Pseudowire)
show iphost ont operational-data (OMCI for remote MDU management)
show iphost ont statistics current-15min (OMCI for remote MDU management)
show ipv6 users (OMCI for remote MDU management)
show mcast active-groups (OMCI for remote MDU management)
show mcast grp-membership (OMCI for remote MDU management)
show oper-data-port (OMCI for remote MDU management)
show ppox-relay cross-connect monitor-statistics client-port (OMCI for remote MDU management)
show ppox-relay cross-connect session client-port (OMCI for remote MDU management)
show ppox-relay cross-connect statistics client-port (OMCI for remote MDU management)
show qos interface-bandwidth (OMCI for remote MDU management)
show qos statistics queue current-15min (OMCI for remote MDU management)
show qos statistics queue prev-15min (OMCI for remote MDU management)
show security pae authenticator (OMCI for remote MDU management)
show security pae diagnostics (OMCI for remote MDU management)
show security pae eapol-stats (OMCI for remote MDU management)
show security pae port-details (OMCI for remote MDU management)
show security pae session-stats (OMCI for remote MDU management)
show vlan bridge-port-fdb (OMCI for remote MDU management)
show vlan cross-connect (OMCI for remote MDU management)
show vlan dup-mac-alarm (OMCI for remote MDU management)

Modified Commands
show vlan residential-bridge extensive (OMCI for remote MDU management)
show vlan residential-bridge summary (OMCI for remote MDU management)
show vlan vmac-bridge-port-fdb (OMCI for remote MDU management)
show xdsl config-data-port atm-pvc (OMCI for remote MDU management, ATM Pseudowire)
show xdsl oper-data-port igmp (OMCI for remote MDU management, ATM Pseudowire)
show trouble-shooting statistics interface (OMCI for remote MDU management, 2p VDSL2 bonding with vectoring in SLV)
show trouble-shooting statistics uni-interface (OMCI for remote MDU management, 2p VDSL2 bonding with vectoring in SLV)
configure bridge (OMCI for remote MDU management, SC VLAN and CVLAN attachment on untagged frames)
configure atm (ATM Pseudowire)
configure voice sip (ISAM-V SIP : Warmline)
configure voice sip vsp (ISAM-V SIP : Warmline)
configure equipment ont interface (OMCI for remote MDU management, GEM port sharing cross, GPON:CVLAN translation)
configure equipment ont slot (Support HPNA ONT)
configure alarm entry (2p VDSL2 bonding with vectoring in SLV)
configure qos interface upstream-queue (GPON:CVLAN translation)
configure xdsl-bonding gropu-profile (2p VDSL2 bonding with vectoring in SLV)
configure xdsl vect-profile (Vectoring feature extension)
configure vlan (GPON:CVLAN translation)
admin pon diagnostic (ONT Detection Enhancements)
show vlan current-15min-stats (EPON support extended, OMCI for remote MDU management)
show vlan current-day-stats (EPON support extended, OMCI for remote MDU management)
show vlan previous-15min-stats (EPON support extended, OMCI for remote MDU management)
show vlan vlan-day-stats (EPON support extended, OMCI for remote MDU management)
configure ethernet ont (ME extension for PoE management)

Modified Commands
configure cfm (Minor Bug Fixing)
configure interface alarm (Minor Bug Fixing)
configure linetest cluster ltparm test-name (Minor Bug Fixing)
configure linetest single ltparm test-name (CI Drop)
configure qos profiles (10G EPON)
configure trap (Minor Bug Fixing)
configure trap definition (Minor Bug Fixing)
configure syatem max-lt-link-speed (Minor Bug Fixing)

configure vlan unicast-mac vlan-id (OMCI for remote MDU management)
configure vlan vlan-port unicast-mac (OMCI for remote MDU management)
configure voice cluster equipment termination (OMCI for remote MDU management)
show arp-relay-stats (OMCI for remote MDU management)
show cfm stack (OMCI for remote MDU management)
show config-data-port (OMCI for remote MDU management)
show dhcp-relay session (OMCI for remote MDU management)
show dhcp-relay v6-port-stats (OMCI for remote MDU management)
show dhcp-relay port-stats (OMCI for remote MDU management)
show igmp channel counter (OMCI for remote MDU management)
show igmp channel miscellaneous (OMCI for remote MDU management)
show vlan port-15min-stats (OMCI for remote MDU management)
show vlan port-curr-15min-stats (OMCI for remote MDU management)
show vlan port-curr-day-stats (OMCI for remote MDU management)
show vlan port-event (OMCI for remote MDU management)
show vlan port-prev-day-stats (OMCI for remote MDU management)
configure system security snmp community host-address Minor Bug Fixing)

New Commands

admin cfm (CFM Application enhancement)
admin cfm ltm (CFM Application enhancement)
admin cfm ltm domain (CFM Application enhancement)
admin cfm mclbm (CFM Application enhancement)
admin cfm mclbm domain (CFM Application enhancement)
admin cfm uclbm domain (CFM Application enhancement)
configure port-protection (PON Redundancy for GPON Linecards)
show port-protection (PON Redundancy for GPON Linecards)
configure snmp-agent ont read-community write-community iphc-vlan (OMCI for remote MDU management)
configure dist-router (ATM Pseudowire)
configure dist-router mpls (ATM Pseudowire)
configure dist-service (ATM Pseudowire)
admin dist-service (ATM Pseudowire)
admin dist-service statistics (ATM Pseudowire)
admin dist-service statistics apipe-pvc (ATM Pseudowire)
show dist-service (ATM Pseudowire)
show dist-service statistics (ATM Pseudowire)
show dist-service statistics apipe-pvc (ATM Pseudowire)

show dist-service accessport-svc (ATM Pseudowire)
configure igmp mc-pon-vlan-xlate nrvlan ponvlan (Multicast Cross VLAN translation on FX)
configure bridge port vlan-id static-user ipv6-address (IPv6 anti-spoofing on FD and FX)
configure hpna (Support HPNA ONT)
configure hpna ont (Support HPNA ONT)
configure hpna ont port (Support HPNA ONT)
configure equipment eont interface (FX: RSSI support on NTandNTIO uplink port)
show epon interface (FX: RSSI support on NTandNTIO uplink port, EPON support extended)

New Commands

show epon interface current-15min (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show epon interface current-1day (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show epon interface previous-15min (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show epon interface previous-15min interval-num (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show epon interface previous-1day (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show epon interface previous-1day (pon-idx) interval-num (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer current-15min (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer current-1day (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer previous-15min (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer previous-15min interval-num (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer previous-1day (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment eont tc-layer previous-1day interval-num (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show equipment rssiprof (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show ethernet eont tc-layer current-15min (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show ethernet eont tc-layer current-1day (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show ethernet eont tc-layer previous-15min (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show ethernet eont tc-layer previous-15min interval-num (FX: RSSI support on NTandNTIO uplink port, EPON support extended)

show ethernet eont tc-layer previous-1day (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
show ethernet eont tc-layer previous-1day interval-num (FX: RSSI support on NTandNTIO uplink port, EPON support extended)
configure equipment diagnostics sfp rssi-prof-id (VEIP and VEIP associated TR069MgtServer support)
configure pon auth-sec-prof (VEIP and VEIP associated TR069MgtServer support)
configure pon sec-uri-profile (VEIP and VEIP associated TR069MgtServer support)
configure pon uri-prof (VEIP and VEIP associated TR069MgtServer support)

New Commands

admin port-protection activate (Pon Redundancy)
configure bcmp (FX EPON features MIB readiness)
configure bcmp system (FX EPON features MIB readiness)
configure equipment rssiprof (RSSI CLI development)
configure eth-cfm (Core-0 changes for CFM in IHUB)
configure voice sip statistics (10G EPON)
configure voice sip statistics stats-config (10G EPON)
show alarm current ont (CI Drop)
show alarm current ontsnmp (CI Drop)
show alarm current sfrssi (CI Drop)
show alarm log ontsnmp (CI Drop)
show alarm log sfrssi (CI Drop)
show alarm snap-shot ontsnmp (CI Drop)
show alarm snap-shot sfrssi (CI Drop)
show bcmp (FX EPON features MIB readiness)
show bcmp counters (FX EPON features MIB readiness)
show eth-cfm (Core-0 changes for CFM in IHUB)
configure bridge port vlan-id static-user ipv6-address (IPv6 anti-spoofing on FD and FX)
show hpna (Support HPNA ONT)
show hpna ont (Support HPNA ONT)
show hpna ont performance-data (Support HPNA ONT)
show hpna ont performance-data current-interval (Support HPNA ONT)
show hpna ont performance-data previous-interval interval-nbr (Support HPNA ONT)
oam

New Commands

configure tr069serv (VEIP and VEIP associated TR069MgtServer support)
configure tr069serv ont securi-prof (VEIP and VEIP associated TR069MgtServer support)
show alarm current tr069serv (VEIP and VEIP associated TR069MgtServer support)

show alarm log tr069serv (VEIP and VEIP associated TR069MgtServer support)
show alarm snap-shot tr069serv (VEIP and VEIP associated TR069MgtServer support)
show pon pon-diagnostics (Rogue ONT Detection Enhancements)
show ethernet eont port fdb (EPON support extended)
show voice eont pots information (EPON support extended)
show voice eont pots statistics (EPON support extended)

Removed Commands

admin pon protection (AnytoAny Pon Redundancy)
configure pon interface protection secpon (AnytoAny Pon Redundancy)
show alarm current psc (DR6 Feature)
show alarm log psc (DR6 Feature)
show alarm snap-shot psc (DR6 Feature)

Command delta R4.3.02 and R4.3.01 versus R4.3

Modified Commands

configure alarm entry (Board Level Vectoring and System Level Vectoring alarms,Embedded OTDR on GPON LT)
configure alarm entry (BL Vectoring SL Vectoring)
configure xdsl line (BL Vectoring SL Vectoring)
configure xdsl board (BL Vectoring SL Vectoring)
show alarm log xdsl near-end (BL Vectoring SL Vectoring)
show alarm current xdsl (BL Vectoring SL Vectoring)
show alarm snap-shot xdsl (BL Vectoring SL Vectoring)
show alarm log (BL Vectoring SL Vectoring)
show alarm current (BL Vectoring SL Vectoring)
show alarm snap-shot (BL Vectoring SL Vectoring)
show alarm delta-log (BL Vectoring SL Vectoring)
show system license (BL Vectoring SL Vectoring)
show xdsl profiles (BL Vectoring SL Vectoring)
show xdsl operational-data near-end line (BL Vectoring SL Vectoring)
show xdsl carrier-data near-end (BL Vectoring SL Vectoring)
show xdsl carrier-data far-end (BL Vectoring SL Vectoring)
show xdsl failure-status far-end (BL Vectoring SL Vectoring)
show xdsl failure-status near-end (BL Vectoring SL Vectoring)
show xdsl counters near-end line current-interval (BL Vectoring SL Vectoring)
show xdsl counters near-end line current-1day (BL Vectoring SL Vectoring)

show xdsl counters near-end line previous-interval (BL Vectoring SL Vectoring)
show xdsl counters near-end line previous-1day (BL Vectoring SL Vectoring)
configure qos interface (Support for Ethernet DS and US queues on the ONT,GPON VLAN port level queues for upstream - OLT part)
configure qos interface upstream-queue (GPON VLAN port level queues for upstream)
configure qos tca queue (GPON VLAN port level queues for upstream)
configure voice cluster equipment (Configurable line gain and line impedance)
configure voice sip termination (Configurable line gain and line impedance)
show qos interface-bandwidth (GPON VLAN port level queues for upstream)
show qos statistics queue current-15min (GPON VLAN port level queues for upstream)
show qos statistics queue prev-15min (GPON VLAN port level queues for upstream)
configure equipment ont interface (GPON ONU LOID Authentication)
configure pon interface (GPON ONU LOID Authentication)
configure system security filetransfer (TFTP transfer blksize configurable)
configure xdsl overrule-data (Config of interleaver mem. split VDSL2)
configure xdsl service-profile (Config of interleaver mem. split VDSL2)
configure xdsl-bonding group-profile (enabling 8 port bonding in iSAM)
configure equipment ont (Support 24 POTS lines per POTS slot in FX/FD Platform)
configure voice ont pots (Support 24 POTS lines per POTS slot in FX/FD Platform)
configure voice ont voice-port (Support 24 POTS lines per POTS slot in FX/FD Platform)
configure voice ont pots-rtp (Support 24 POTS lines per POTS slot in FX/FD Platform)
configure voice ont voice-sip-port (Support 24 POTS lines per POTS slot in FX/FD Platform)
configure voice ont pots-call (Support 24 POTS lines per POTS slot in FX/FD Platform)
show equipment ont slot (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont call-hist (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots diagnostics (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots pb-dial-tone (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots sip-dial-tone (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots operational-data (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots hookstate (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots-rtp statistics current-15min (Support 24 POTS lines per POTS slot in FX/FD Platform)
show voice ont pots-call statistics current-15min (Support 24 POTS lines per POTS slot in FX/FD Platform)
admin voice ont pots diagnostics (Support 24 POTS lines per POTS slot in FX/FD Platform)
admin voice ont pots pb-dial-tone (Support 24 POTS lines per POTS slot in FX/FD Platform)
admin voice ont pots sip-dial-tone (Support 24 POTS lines per POTS slot in FX/FD Platform)
configure qos profile policer (CCL on NELT-B NNI and Extend EBS range to improve TCP goodput)
show alarm log otdr (Embedded OTDR on GPON LT)

show alarm snap-shot otdr (Embedded OTDR on GPON LT)
show alarm current otdr (Embedded OTDR on GPON LT)
configure pon interface otdr (Embedded OTDR on GPON LT)
configure system loop-id-syntax (GPON support)

New Commands

admin equipment eont (Full CLI for EPON)
admin equipment eont interface (Full CLI for EPON)
admin equipment eont llid (Full CLI for EPON)
admin equipment eont sw-version (Full CLI for EPON)
admin equipment eont swdw (Full CLI for EPON)
admin ethernet (Full CLI for EPON)
admin ethernet eont (Full CLI for EPON)
admin ethernet eont port (Full CLI for EPON)
configure epon (Full CLI for EPON)
configure epon interface (Full CLI for EPON)
configure epon interface otdr (Full CLI for EPON)
configure epon profiles (Full CLI for EPON)
configure epon profiles digitmap (Full CLI for EPON)
configure epon profiles filters (Full CLI for EPON)
configure equipment eont (Full CLI for EPON)
configure equipment eont interface (Full CLI for EPON)
configure equipment eont sw-ctrl (Full CLI for EPON)
configure equipment eont interface llid (Full CLI for EPON)
configure equipment eont interface management (Full CLI for EPON)
configure equipment eont interface port (Full CLI for EPON)
configure equipment eont interface rssi (Full CLI for EPON)
configure ethernet eont (Full CLI for EPON)
configure ethernet eont port (Full CLI for EPON)
configure ethernet eont port filter (Full CLI for EPON)
configure ethernet eont port mcastvlan (Full CLI for EPON)
configure ethernet eont port snoopmcastvlan (Full CLI for EPON)
configure ethernet eont port uservlan (Full CLI for EPON)
configure system epon pm-collect (Full CLI for EPON)
configure voice eont (Full CLI for EPON)
configure voice eont comm-para (Full CLI for EPON)
configure voice eont media-gateway (Full CLI for EPON)
configure voice eont pots (Full CLI for EPON)

configure voice eont sip-useragent (Full CLI for EPON)
--

show epon (Full CLI for EPON)

show epon interface (Full CLI for EPON)

show epon interface current-15min (Full CLI for EPON)

show epon interface current-1day (Full CLI for EPON)
--

show epon interface previous-15min (Full CLI for EPON)
--

show epon interface previous-15min interval-num (Full CLI for EPON)

show epon interface previous-1day (Full CLI for EPON)

show epon interface previous-1day interval-num (Full CLI for EPON)
--

show epon optics (Full CLI for EPON)

show epon profiles-usage (Full CLI for EPON)
--

show epon profiles-usage digitmap (Full CLI for EPON)

show epon profiles-usage filter (Full CLI for EPON)

show epon profiles-usage queue (Full CLI for EPON)
--

show equipment eont (Full CLI for EPON)

show equipment eont interface (Full CLI for EPON)

show equipment eont llid (Full CLI for EPON)
--

show equipment eont optics (Full CLI for EPON)
--

show equipment eont sw-version (Full CLI for EPON)
--

show equipment eont tc-layer (Full CLI for EPON)
--

show equipment eont tc-layer current-15min (Full CLI for EPON)
--

show equipment eont tc-layer current-1day (Full CLI for EPON)

show equipment eont tc-layer previous-15min (Full CLI for EPON)

show equipment eont tc-layer previous-15min interval-num (Full CLI for EPON)
--

show equipment eont tc-layer previous-1day (Full CLI for EPON)
--

show equipment eont tc-layer previous-1day interval-num (Full CLI for EPON)

show ethernet eont (Full CLI for EPON)
--

show ethernet eont port (Full CLI for EPON)

show ethernet eont tc-layer (Full CLI for EPON)

show ethernet eont tc-layer current-15min (Full CLI for EPON)

show ethernet eont tc-layer current-1day (Full CLI for EPON)
--

show ethernet eont tc-layer previous-15min (Full CLI for EPON)
--

show ethernet eont tc-layer previous-15min interval-num (Full CLI for EPON)

show ethernet eont tc-layer previous-1day (Full CLI for EPON)

show ethernet eont tc-layer previous-1day interval-num (Full CLI for EPON)
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show voice eont (Full CLI for EPON)

show voice eont media-gateway (Full CLI for EPON)
show voice eont operdata (Full CLI for EPON)
show voice eont pots (Full CLI for EPON)
show voice eont sip-useragent (Full CLI for EPON)
show voice sip statistics board (SIP statistics)
show voice sip statistics board current-15min (SIP statistics)
show voice sip statistics board current-1day (SIP statistics)
show voice sip statistics board prev-15min (SIP statistics)
show voice sip statistics board prev-1day (SIP statistics)
show voice sip statistics board-perfinfo (SIP statistics)
show xdsl co-inventory (Parameter Alignment with G.997.1)
show alarm log vect-line (BL Vectoring SL Vectoring)
show alarm current vect-line (BL Vectoring SL Vectoring)
show alarm snap-shot vect-line (BL Vectoring SL Vectoring)
show alarm log vect-board (SL Vectoring)
show alarm current vect-board (SL Vectoring)
show alarm snap-shot vect-board (SL Vectoring)
configure xdsl vect-profile (BL Vectoring SL Vectoring)
configure xdsl vce-profile (BL Vectoring SL Vectoring)
configure xdsl vp-board vp-link (SL Vectoring)
show xdsl vp-board vp-link (SL Vectoring)
show xdsl vect-disturbers max-reported-dist (BL Vectoring SL Vectoring)
show xdsl vect-carrier-data near-end disturber (BL Vectoring SL Vectoring)
show xdsl vect-carrier-data far-end disturber (BL Vectoring SL Vectoring)
show xdsl failure-status vect-board (SL Vectoring)
show xdsl failure-status vect-line-near-end (BL Vectoring SL Vectoring)

Removed Commands

show qos pcc-rules fwd-port (Resource Admission Control feature)

Command delta R4.3 versus R4.2.03

Modified Commands

configure alarm entry (Login logout and target deletion traps)

configure igmp channel (support IPTV usr with PPPoE and IPoE simultaneously, GPON IOP for IGMP CAC and access-rights)

configure igmp system (configurable to discard upstream non-IGMPv3 packets, GPON IOP for IGMP CAC and access-rights)

configure mcast chn (GPON IOP for IGMP CAC and access-rights)

configure pon interface (PON 40km ranging window and ONT differential)
configure qos interface (GPON UNI scheduling/shaping based on queue parameters)
configure qos interface queue (GPON UNI scheduling/shaping based on queue parameters)
configure qos interface upstream-queue (upstream policing and queue config)
configure qos profiles policer (GPON LT color-aware trTCM)
configure qos profiles ingress-qos (GPON LT color-aware trTCM)
configure qos profiles scheduler-node (downstream UNI rate shaping to include multicast traffic)
configure qos profiles shaper (GPON UNI scheduling/shaping based on queue parameters)
configure system sync-if-timing (Full SSM on SyncE)
configure system sync-if-timing ssm (Full SSM on SyncE)
configure trap manager (Login logout and target deletion traps)
configure trap definition (Login logout and target deletion traps)
configure voice ont pots (Dual SIP Stack/ client supporting)
show system license (License counter for Green DSL L2 Mode)

New Commands

admin alarm clear-alarm filetransfer ip-address (manually clear filetransfer alarm)
admin alarm clear-alarm login-failure ip-address (login logout Trap management)
admin system security pmfile upload (SIP: Collect statistics via FTP)
configure igmp mc-vlan-xlate (GPON IOP for IGMP CAC and access-rights)
configure igmp mcast-svc-context (GPON IOP for IGMP CAC and access-rights)
configure qos ctrl-pkt-policer (Upstream policing per protocol)
configure qos profiles marker dot1p-remark (GPON LT color-aware trTCM)
configure qos profiles marker dot1p-remark dot1p-value (GPON LT color-aware trTCM)
configure system user-user-hairpin (U2U Hairpin feature)
configure system security pmfile upload (SIP: Collect statistics via FTP)
configure system snmp server-table (NTP and multiple xNTP servers support)
configure system snmp server-table ip-address (NTP and multiple xNTP servers support)
configure system sync-if-timing ssmout-ltport (Full SSM on SyncE)
configure system sync-if-timing ssmout-synce (Full SSM on SyncE)
configure system sync-if-timing t4-out-config (Full SSM on SyncE)
configure system time ntp (NTP and multiple xNTP servers support)
configure voice sip dhcp-authent-para (CLI support for configured DHCP parameters)
show alarm current mgmt-sec-access (login logout Trap management)
show alarm current sip-dial-plan (SIP Restoration)
show alarm current sip-server (SIP Restoration)
show alarm current sip-user-agent (SIP Restoration)
show alarm current sip-vsp (SIP Restoration)

show alarm log mgmt-sec-access (login logout Trap management)
show alarm log sip-dial-plan (SIP Restoration)
show alarm log sip-server (SIP Restoration)
show alarm log sip-vsp (SIP Restoration)
show alarm snap-shot mgmt-sec-access (login logout Trap management)
show alarm snap-shot sip-dial-plan (SIP Restoration)
show alarm snap-shot sip-server (SIP Restoration)
show alarm snap-shot sip-vsp (SIP Restoration)
show equipment transceiver-inventory (Digital Diagnostics for SFP XFP modules)
show igmp mcast-svc-context (GPON IOP for IGMP CAC and access-rights)
show security pmfile upload (SIP: Collect statistics via FTP)
show sntp server-table (NTP and multiple xNTP servers support)
show system ntp (NTP and multiple xNTP servers support)
show system sync-if-timing-t4 (Full SSM on SyncE)
show system user-user-hairpin (U2U Hairpin feature)
show trouble-shooting statistics uni-interface (IP anti-spoofing statistics)
show voice ont pots hookstate (Dual SIP Stack/ client supporting)
show voice sip redundancy-node (SIP Restoration)
show voice sip redundancy-node redundancy-cmd (SIP Restoration)
show voice sip redundancy-node redundancy-state (SIP Restoration)

Removed Commands

configure system security domain ip-pool (removal of DR6ed features)
configure system security domain user (removal of DR6ed features)
configure voice sip termination local-loop (SIP Restoration)
configure xdsl line local-loop (removal of DR6d features)
show alarm current llu-relay (removal of DR6d features)
show alarm current sip-user-agent (SIP Restoration)
show alarm log llu-relay (removal of DR6ed features)
show alarm log sip-user-agent (SIP Restoration)
show alarm snap-shot llu-relay (removal of DR6ed features)
show alarm snap-shot sip-user-agent (SIP Restoration)

Command delta R4.2.03 versus R4.2.02

Modified Commands

configure xdsl-bonding group-profile (Configuration of 8 port board level bonding)
configure voice ont ring-seq-prof (minor bug fixing)

show vlan current and previous stats commands (minor bug fixing)
show vlan port current and previous stats commands (minor bug fixing)
show vlan vlan-day-stats (minor bug fixing)

Command delta R4.2.02 versus R4.2

Modified Commands
configure igmp (Multicast channel selection by vlan-id)
configure igmp system (Multicast channel selection by vlan-id)
configure shdsl span (CTC support with SHDSL proxy)
configure system syslog (DomLead Ral Transport (GPON))
show igmp grp-to-package (Multicast channel selection by vlan-id)
show igmp module-mcast-channel (Multicast channel selection by vlan-id)
configure linetest cluster ltparm (ISAM-V H248 CLI enhancement)
configure linetest cluster ltsession (ISAM-V H248 CLI enhancement)
configure linetest single ltparm (ISAM-V H248 CLI enhancement)
configure linetest single ltsession (ISAM-V H248 CLI enhancement)
show linetest cluster lineid-ext-rept (Config externalCDEparameter)
show linetest single lineid-ext-rept (Config externalCDEparameter)
configure cfm domain association (Jitter, Latency, RT performance report- CFM)
configure cfm domain association mep (Jitter, Latency, RT performance report- CFM)
show cfm stack (Jitter, Latency, RT performance report- CFM)
configure equipment ont interface (OMCIv2)
configure xdsl ont line (OMCIv2)
configure equipment ont slot (OLT/OMCI/ONT support for TR-69)
configure xdsl ont service (minor problem solving)
show arp-relay-stats vlan (minor problem solving)
New Commands
show ipv6 users (IPv6 on FD)
configure mcast chn (Multicast channel selection by vlan-id)
configure mcast monitor (Multicast channel selection by vlan-id)
admin igmp mcast-chn (Multicast channel selection by vlan-id)
show xdsl-bonding operational-data link (Transport B-Fast)
configure xdsl ont dpbo-profile (MDU : VDSL enhancements)
configure xdsl ont dpbo-profile micpsd-pt-down (MDU : VDSL enhancements)
configure xdsl ont dpbo-profile epsd-pt-down (MDU : VDSL enhancements)
configure xdsl ont interface dpbo-profile (MDU : VDSL enhancements)

configure veip (OLT/OMCI/ONT support for TR-69)
configure veip ont domain-name (OLT/OMCI/ONT support for TR-69)
configure veip port pm-collect (OLT/OMCI/ONT support for TR-69)
admin voice ont voip-config (OMCIv2)
configure equipment ont interface fec-tc-layer (OMCIv2)
configure iphost (OMCIv2)
configure iphost ont (OMCIv2)
configure iphost ont performance-monitor (OMCIv2)
configure voice ont auth-sec-prof (OMCIv2)
configure voice ont feat-acccode-prof (OMCIv2)
configure voice ont mgc-config (OMCIv2)
configure voice ont nwdial-plan-prof (OMCIv2)
configure voice ont ring-seg-prof (OMCIv2)
configure voice ont ring-seq-prof (OMCIv2)
configure voice ont ringing-profile (OMCIv2)
configure voice ont rtp-profile (OMCIv2)
configure voice ont sec-uri-profile (OMCIv2)
configure voice ont sip-config (OMCIv2)
configure voice ont tone-event-prof (OMCIv2)
configure voice ont tone-seg-profile (OMCIv2)
configure voice ont tone-seq-profile (OMCIv2)
configure voice ont uri-prof (OMCIv2)
configure voice ont voice-serv-prof (OMCIv2)
configure voice ont voice-sip-port (OMCIv2)
configure voice ont voip-app-service (OMCIv2)
configure voice ont voip-config (OMCIv2)
configure voice ont voip-media-prof (OMCIv2)
configure voice ont mgc-agent (OMCIv2)
configure voice ont pots-call (OMCIv2)
configure voice ont pots-rtp (OMCIv2)
configure voice ont sip-agent (OMCIv2)
configure voice ont sip-call (OMCIv2)
configure voice ont tone-event-prof (OMCIv2)
configure voice ont tone-event-prof busy-tone (OMCIv2)
configure voice ont tone-event-prof callwait1-tone (OMCIv2)
configure voice ont tone-event-prof callwait2-tone (OMCIv2)

configure voice ont tone-event-prof callwait3-tone (OMCIv2)
configure voice ont tone-event-prof callwait4-tone (OMCIv2)
configure voice ont tone-event-prof confirm-tone (OMCIv2)
configure voice ont tone-event-prof congest-tone (OMCIv2)
configure voice ont tone-event-prof dead-tone (OMCIv2)
configure voice ont tone-event-prof dial-tone (OMCIv2)
configure voice ont tone-event-prof intrusion-tone (OMCIv2)
configure voice ont tone-event-prof msg-wait-tone (OMCIv2)
configure voice ont tone-event-prof release-tone (OMCIv2)
configure voice ont tone-event-prof reorder-tone (OMCIv2)
configure voice ont tone-event-prof ringback-tone (OMCIv2)
configure voice ont tone-event-prof roh-tone (OMCIv2)
configure voice ont tone-event-prof special-dial-tone (OMCIv2)
configure voice ont tone-event-prof special-info-tone (OMCIv2)
configure voice ont tone-event-prof stutter-tone (OMCIv2)
configure voice ont tone-event-prof userdef1-tone (OMCIv2)
configure voice ont tone-event-prof userdef2-tone (OMCIv2)
configure voice ont tone-event-prof userdef3-tone (OMCIv2)
configure voice ont tone-event-prof userdef4-tone (OMCIv2)
configure voice ont voice-port custinfo (OMCIv2)
show equipment ont fec-tc-layer (OMCIv2)
show equipment ont fec-tc-layer ont-side (OMCIv2)
show equipment ont fec-tc-layer ont-side current-interval (OMCIv2)
show iphost (OMCIv2)
show iphost ont (OMCIv2)
show iphost ont operational-data (OMCIv2)
show iphost ont statistics (OMCIv2)
show iphost ont statistics current-15min (OMCIv2)
show iphost ont statistics prev-15min (OMCIv2)
show voice ont mgc-agent (OMCIv2)
show voice ont mgc-agent statistics (OMCIv2)
show voice ont mgc-agent statistics current-15min (OMCIv2)
show voice ont mgc-agent statistics previous-15min (OMCIv2)
show voice ont pots operational-data (OMCIv2)
show voice ont pots-call (OMCIv2)
show voice ont pots-call statistics (OMCIv2)
show voice ont pots-call statistics current-15min (OMCIv2)

show voice ont pots-call statistics prev-15min (OMCIv2)
show voice ont pots-rtp (OMCIv2)
show voice ont pots-rtp statistics (OMCIv2)
show voice ont pots-rtp statistics current-15min (OMCIv2)
show voice ont pots-rtp statistics prev-15min (OMCIv2)
show voice ont sip-agent (OMCIv2)
show voice ont sip-agent statistics (OMCIv2)
show voice ont sip-agent statistics current-15min (OMCIv2)
show voice ont sip-agent statistics prev-15min (OMCIv2)
show voice ont sip-call (OMCIv2)
show voice ont sip-call statistics (OMCIv2)
show voice ont sip-call statistics current-15min (OMCIv2)
show voice ont sip-call statistics prev-15min (OMCIv2)
show voice ont sip-config (OMCIv2)
show voice ont sip-config operational-data (OMCIv2)
show voice ont voip-config (OMCIv2)
show voice ont voip-config operational-data (OMCIv2)

Command delta R4.2 versus R4.0.10

Modified Commands
admin equipment slot (NRNT-A; mini-ISAM NT)
admin shdsl-seg unit-id (SHDSL evolution on NSLT-b)
admin system cpu-load (NRNT-A; mini-ISAM NT)
configure alarm entry (IPv6 on HC-L3 NT)
configure debug-trace protocol-trace (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure equipment slot (NANT-E CLI/TL1 Adaptation)
configure ethernet line (FD 36p Ethernet LT (NELT-B))
configure igmp channel (GPON support)
configure interface port (FD 36p Ethernet LT (NELT-B))
configure qos profiles l2-filter (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure qos profiles policer (FD 36p Ethernet LT (NELT-B))
configure qos profiles queue (FD 36p Ethernet LT (NELT-B))
configure qos tc-map-dot1p (FD 36p Ethernet LT (NELT-B))
configure qos tca queue (GPON support)
configure shdsl segment unit-id (SHDSL evolution on NSLT-b)
configure shdsl span (SHDSL evolution on NSLT-b)
configure shdsl unit unit-id (SHDSL evolution on NSLT-b)

configure system max-lt-link-speed (NANT-E CLI/TL1 Adaptation)
configure system security profile (Lawful Intercept)
configure system security domain (Full CLI support)
configure system security default-profile (Lawful Intercept)
configure system security snmp group security-level (Lawful Intercept)
configure system security snmp map-user-group (Lawful Intercept)
configure system sync-if-timing (NRNT-A; mini-ISAM NT)
configure system sync-if-timing ssm (minor problem solving)
configure system sync-if-timing synce (NRNT-A; mini-ISAM NT)
configure system syslog route msg-type (Lawful Intercept)
configure trap manager (Reliable Trap management)
configure trap definition (Reliable Trap management)
configure vlan id (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure vlan port-protocol (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure voice sip termination (ISAM-V)
configure voice sip lineid-syn-prof (ISAM-V)
configure voice sip vsp (ISAM-V)
configure xdsl overrule-data (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl service-profile (SRA for VDSL2)
configure xdsl line (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl line tca-line-threshold (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl-bonding group-profile (8p PTM VDSL2 bonding on FD)
show equipment slot (NANT-E CLI/TL1 Adaptation)
show equipment temperature (NRNT-A; mini-ISAM NT)
show interface port (FD 36p Ethernet LT (NELT-B))
show interface stack (FD 36p Ethernet LT (NELT-B))
show interface test (FD 36p Ethernet LT (NELT-B))
show qos interface-bandwidth (GPON support)
show qos statistics queue current-15min (GPON support)
show qos statistics queue prev-15min (GPON support)
show shdsl inventory (SHDSL evolution on NSLT-b)
show shdsl segment-counters current-15min (SHDSL evolution on NSLT-b)
show shdsl segment-counters current-1day (SHDSL evolution on NSLT-b)
show shdsl segment-counters previous-15min (SHDSL evolution on NSLT-b)
show shdsl segment-counters previous-1day (SHDSL evolution on NSLT-b)
show shdsl segment-status (SHDSL evolution on NSLT-b)
show shdsl unit-status (SHDSL evolution on NSLT-b)

show system cpu-load (NRNT-A; mini-ISAM NT)
show system license (NANT-E CLI/TL1 Adaptation)
show system memory-usage (NRNT-A; mini-ISAM NT)
show trouble-shooting statistics interface (PT Counters)
show vlan residential-bridge extensive (FD 36p Ethernet LT (NELT-B))
show vlan residential-bridge summary (FD 36p Ethernet LT (NELT-B))
show voice sip statistics call (ISAM-V)

New Commands

admin ces (Full CLI support)
admin ces ont (Full CLI support)
admin ces ont line (Full CLI support)
admin dhcp-relay v6-port-stats (IPv6 Protocol Aware CC with DHCPv6 on FD)
admin equipment ont (Full CLI support)
admin equipment ont data-store (Full CLI support)
admin equipment ont interface (Full CLI support)
admin equipment ont slot (Full CLI support)
admin equipment ont sw-ctrl (Full CLI support)
admin equipment ont sw-version (Full CLI support)
admin ont-xdsl-line (Full CLI support)
admin pon (Full CLI support)
admin pon ber-stats (Full CLI support)
admin voice (Full CLI support)
admin voice ont (Full CLI support)
admin voice ont pots (Full CLI support)
admin voice ont pots diagnostics mode (Full CLI support)
admin voice ont pots pb-dial-tone slow-pull-timer (Full CLI support)
admin voice ont pots sip-dial-tone sip-phone-number (Full CLI support)
configure ani (Full CLI support)
configure ani ont (Full CLI support)
configure ani ont tca-thresh (Full CLI support)
configure ani ont video (Full CLI support)

configure ces (Full CLI support)
configure ces ont (Full CLI support)
configure ces ont profile (Full CLI support)
configure ces ont service service-nbr (Full CLI support)
configure ces ont line mode (Full CLI support)

configure ces ont line port pm-collect (Full CLI support)
configure ces ont service service-nbr tc-layer (Full CLI support)
configure ces ont service service-nbr pseudo-wire (Full CLI support)
configure dhcp-relay v6-port-stats (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure equipment ont (Full CLI support)
configure equipment ont interface (Full CLI support)
configure equipment ont slot (Full CLI support)
configure equipment ont sw-ctrl (Full CLI support)
configure equipment ont interface tc-layer-threshold (Full CLI support)
configure ethernet line mau (FD 36p Ethernet LT (NELT-B))
configure ethernet ont cust-info (Full CLI support)
configure ethernet ont port pm-collect (Full CLI support)
configure l2uni (Full CLI support)
configure l2uni ont (Full CLI support)
configure l2uni ont performance-monitor (Full CLI support)
configure l2uni ont tc-layer-threshold dropped-frames-up (Full CLI support)
configure linetest (ISAM-V H248 : CLI enhancements)
configure linetest cluster (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltline (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltparm (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltsession (ISAM-V H248 : CLI enhancements)
configure linetest single (ISAM-V H248 : CLI enhancements)
configure linetest single ltline lineid (ISAM-V H248 : CLI enhancements)
configure linetest single ltparm tst-type (ISAM-V H248 : CLI enhancements)
configure linetest single ltsession session-cmd (ISAM-V H248 : CLI enhancements)
configure link-agg (FD 36p Ethernet LT (NELT-B))
configure link-agg general priority (FD 36p Ethernet LT (NELT-B))
configure link-agg group load-sharing-policy (FD 36p Ethernet LT (NELT-B))
configure link-agg group port (FD 36p Ethernet LT (NELT-B))
configure link-agg port passive-lacp (FD 36p Ethernet LT (NELT-B))
configure mcast static (FD 36p Ethernet LT (NELT-B))
configure mcast static branch (FD 36p Ethernet LT (NELT-B))
configure ntp (Full CLI support)
configure ntp ont (Full CLI support)
configure pon (Full CLI support)
configure pon power-shed-prof (Full CLI support)
configure pon interface label (Full CLI support)

configure pon interface tc-layer pm-collect (Full CLI support)
configure pon interface tc-layer-threshold (Full CLI support)
configure system pon-ont slid-mode (Full CLI support)
configure system security li separate (Full CLI support)
configure uni (Full CLI support)
configure uni ont (Full CLI support)
configure uni ont tc-layer pm-collect (Full CLI support)
configure uni ont video pwr-override (Full CLI support)
configure voice ont (Full CLI support)
configure voice ont service (Full CLI support)
configure voice ont pots custinfo (Full CLI support)
configure voice ont tc-layer pm-collect (Full CLI support)
configure xdsl rtx-profile rtx-profile (Full CLI support)
configure xdsl ont (Full CLI support)
configure xdsl ont service-profile (Full CLI support)
configure xdsl ont spectrum-profile (Full CLI support)
configure xdsl ont line service-profile (Full CLI support)
configure xdsl ont spectrum-profile vdsl vdsl-band-plan (Full CLI support)
configure xdsl ont spectrum-profile vdsl2 max-agpowlev-down (Full CLI support)
configure xstp (FD 36p Ethernet LT (NELT-B))
configure xstp instance (FD 36p Ethernet LT (NELT-B))
configure xstp general enable-stp (FD 36p Ethernet LT (NELT-B))
configure xstp instance associate-vlan (FD 36p Ethernet LT (NELT-B))
configure xstp port priority (FD 36p Ethernet LT (NELT-B))
configure xstp port-instance instance (FD 36p Ethernet LT (NELT-B))
mrinfo (PIM-SSM on HC-L3 NT)
mstat (PIM-SSM on HC-L3 NT)
mtrace (PIM-SSM on HC-L3 NT)
show alarm current ihub-ipv6 (IPv6 on HC-L3 NT)
show alarm current pim (PIM-SSM on HC-L3 NT)
show alarm current sip-user-agent (minor problem solving)
show alarm log ihub-ipv6 (IPv6 on HC-L3 NT)
show alarm log pim (PIM-SSM on HC-L3 NT)
show alarm log sip-user-agent (minor problem solving)
show alarm snap-shot ihub-ipv6 (IPv6 on HC-L3 NT)
show alarm snap-shot pim (PIM-SSM on HC-L3 NT)
show alarm snap-shot sip-user-agent (minor problem solving)

show ani (Full CLI support)
show ani ont (Full CLI support)
show ani ont operational-data (Full CLI support)
show ani ont video (Full CLI support)
show ani ont video-stats (Full CLI support)
show ces (Full CLI support)
show ces ont (Full CLI support)
show ces ont line (Full CLI support)
show ces ont line port (Full CLI support)
show ces ont line port current-interval (Full CLI support)
show ces ont line port previous-interval interval-nbr (Full CLI support)
show ces ont service (Full CLI support)
show ces ont service operational-data (Full CLI support)
show ces ont service pseudo-wire (Full CLI support)
show ces ont service pseudo-wire current-interval (Full CLI support)
show ces ont service pseudo-wire previous-interval interval-nbr (Full CLI support)
show ces ont service tc-layer (Full CLI support)
show ces ont service tc-layer olt-side (Full CLI support)
show ces ont service tc-layer olt-side current-interval (Full CLI support)
show ces ont service tc-layer olt-side previous-interval interval-nbr (Full CLI support)
show ces ont service tc-layer ont-side (Full CLI support)
show ces ont service tc-layer ont-side current-interval (Full CLI support)
show ces ont service tc-layer ont-side previous-interval interval-nbr (Full CLI support)
show dhcp-relay v6-port-stats (IPv6 Protocol Aware CC with DHCPv6 on FD)
show dhcp-relay v6-port-stats vlan (IPv6 Protocol Aware CC with DHCPv6 on FD)
show dhcp-relay v6-port-stats vlan v6extensive (IPv6 Protocol Aware CC with DHCPv6 on FD)
show dhcp-relay v6-port-stats vlan v6summary (IPv6 Protocol Aware CC with DHCPv6 on FD)
show equipment ont (Full CLI support)
show equipment ont data-store (Full CLI support)
show equipment ont interface (Full CLI support)
show equipment ont operational-data (Full CLI support)
show equipment ont optics (Full CLI support)
show equipment ont optics-history (Full CLI support)
show equipment ont pwr-shed (Full CLI support)
show equipment ont slot (Full CLI support)
show equipment ont sw-ctrl (Full CLI support)

show equipment ont sw-download (Full CLI support)
show equipment ont sw-version (Full CLI support)
show equipment ont tc-layer (Full CLI support)
show equipment ont tc-layer olt-side (Full CLI support)
show equipment ont tc-layer olt-side current-interval (Full CLI support)
show equipment ont tc-layer olt-side previous-interval (Full CLI support)
show equipment ont tc-layer olt-side-on-demand (Full CLI support)
show equipment ont tc-layer olt-side-on-demand current-interval (Full CLI support)
show equipment ont tc-layer olt-side-on-demand previous-interval (Full CLI support)
show equipment ont tc-layer ont-side (Full CLI support)
show equipment ont tc-layer ont-side current-interval (Full CLI support)
show equipment ont tc-layer ont-side previous-interval interval-num (Full CLI support)
show ethernet ont (Full CLI support)
show ethernet ont operational-data (Full CLI support)
show ethernet ont port (Full CLI support)
show ethernet ont port current-interval (Full CLI support)
show ethernet ont port previous-interval interval-num (Full CLI support)
show ethernet statistics (FD 36p Ethernet LT (NELT-B))
show ethernet statistics line (FD 36p Ethernet LT (NELT-B))
show l2uni (Full CLI support)
show l2uni ont (Full CLI support)
show l2uni ont performance-data (Full CLI support)
show l2uni ont performance-data current-interval (Full CLI support)
show l2uni ont performance-data previous-interval interval-nbr (Full CLI support)
show linetest (ISAM-V H248 : CLI enhancements)
show linetest cluster (ISAM-V H248 : CLI enhancements)
show linetest cluster avail-sess (ISAM-V H248 : CLI enhancements)
show linetest cluster lineid-ext-rept lineid (ISAM-V H248 : CLI enhancements)
show linetest cluster ltline lineid (ISAM-V H248 : CLI enhancements)
show linetest cluster ltsession (ISAM-V H248 : CLI enhancements)
show linetest single (ISAM-V H248 : CLI enhancements)
show linetest single avail-sess (ISAM-V H248 : CLI enhancements)
show linetest single lineid-ext-rept lineid (ISAM-V H248 : CLI enhancements)
show linetest single ltline lineid (ISAM-V H248 : CLI enhancements)
show linetest single ltsession (ISAM-V H248 : CLI enhancements)
show link-agg (FD 36p Ethernet LT (NELT-B))
show link-agg group-info (FD 36p Ethernet LT (NELT-B))

show link-agg member-port port (FD 36p Ethernet LT (NELT-B))
show link-agg port-info (FD 36p Ethernet LT (NELT-B))
show pon (Full CLI support)
show pon ber-stats ont-num (Full CLI support)
show pon interface (Full CLI support)
show pon interface tc-layer (Full CLI support)
show pon interface tc-layer current-interval (Full CLI support)
show pon interface tc-layer previous-interval interval-nbr (Full CLI support)
show pon optics (Full CLI support)
show pon sfp-inventory (Full CLI support)
show pon sw-download (Full CLI support)
show pppoel2-stats (Porting FTTU)
show pppoel2-stats vlan (Porting FTTU)
show pppoel2-stats vlan extensive (Porting FTTU)
show pppoel2-stats vlan summary (Porting FTTU)
show qos pcc-rules fwd-port (Full CLI support)
show trouble-shooting pon (PT Counters)
show trouble-shooting pon statistics (PT Counters)
show trouble-shooting pon statistics interface (PT Counters)
show uni (Full CLI support)
show uni ont (Full CLI support)
show uni ont tc-layer (Full CLI support)
show uni ont tc-layer olt-side (Full CLI support)
show uni ont tc-layer olt-side current-interval (Full CLI support)
show uni ont tc-layer olt-side previous-interval (Full CLI support)
show uni ont tc-layer ont-side (Full CLI support)
show uni ont tc-layer ont-side current-interval (Full CLI support)
show uni ont tc-layer ont-side previous-interval (Full CLI support)
show voice ont (Full CLI support)
show voice ont call-hist call-hist-num (Full CLI support)
show voice ont pots (Full CLI support)
show voice ont pots diagnostics (Full CLI support)
show voice ont pots pb-dial-tone (Full CLI support)
show voice ont pots sip-dial-tone (Full CLI support)
show voice ont pots tc-layer (Full CLI support)
show voice ont pots tc-layer olt-side (Full CLI support)
show voice ont pots tc-layer olt-side current-interval (Full CLI support)

show voice ont pots tc-layer olt-side previous-interval interval-nbr (Full CLI support)
show voice ont pots tc-layer ont-side (Full CLI support)
show voice ont pots tc-layer ont-side current-interval (Full CLI support)
show voice ont pots tc-layer ont-side previous-interval interval-nbr (Full CLI support)
show voice ont service (Full CLI support)
show xdsl ont (Full CLI support)
show xdsl ont carrier-data (Full CLI support)
show xdsl ont carrier-data far-end (Full CLI support)
show xdsl ont carrier-data near-end (Full CLI support)
show xdsl ont counters (Full CLI support)
show xdsl ont counters far-end (Full CLI support)
show xdsl ont counters far-end channel (Full CLI support)
show xdsl ont counters far-end channel current-interval (Full CLI support)
show xdsl ont counters far-end channel previous-interval interval-no (Full CLI support)
show xdsl ont counters far-end line (Full CLI support)
show xdsl ont counters far-end line current-interval (Full CLI support)
show xdsl ont counters far-end line previous-interval interval-no (Full CLI support)
show xdsl ont counters near-end (Full CLI support)
show xdsl ont counters near-end channel (Full CLI support)
show xdsl ont counters near-end channel current-interval (Full CLI support)
show xdsl ont counters near-end channel previous-interval interval-no (Full CLI support)
show xdsl ont counters near-end line (Full CLI support)
show xdsl ont counters near-end line current-interval (Full CLI support)
show xdsl ont counters near-end line previous-interval interval-no (Full CLI support)
show xdsl ont cpe-tuc-inventory (Full CLI support)
show xdsl ont cpe-tur-inventory (Full CLI support)
show xdsl ont failure-status (Full CLI support)
show xdsl ont failure-status far-end (Full CLI support)
show xdsl ont failure-status near-end (Full CLI support)
show xdsl ont operational-data (Full CLI support)
show xdsl ont operational-data far-end (Full CLI support)
show xdsl ont operational-data far-end channel (Full CLI support)
show xdsl ont operational-data far-end line (Full CLI support)
show xdsl ont operational-data near-end (Full CLI support)
show xdsl ont operational-data near-end channel (Full CLI support)
show xdsl ont operational-data near-end line (Full CLI support)
show xdsl ont profiles (Full CLI support)

show xdsl ont xdsl-int (Full CLI support)
show xstp (FD 36p Ethernet LT (NELT-B))
show xstp bridge (FD 36p Ethernet LT (NELT-B))
show xstp instance (FD 36p Ethernet LT (NELT-B))
show xstp port (FD 36p Ethernet LT (NELT-B))
show xstp port-instance instance (FD 36p Ethernet LT (NELT-B))

Removed Commands

configure mcast src (Fixed multicast VLAN per IGMP channel)
configure mcast src packagemember (Fixed multicast VLAN per IGMP channel)
show bridge port-to-atm-pvc (ISAM-V H248 : CLI enhancements)

Command delta R4.2 versus R4.1.02

Modified Commands

admin arp-relay-stats (GPON support)
admin bridge learned-unicast-mac unicast-mac-address (GPON support)
admin dhcp-relay port-stats (GPON support)
admin equipment slot (NRNT-A; mini-ISAM NT)
admin igmp channel (GPON support)
admin security ext-authenticator (GPON support)
admin system cpu-load (NRNT-A; mini-ISAM NT)
admin trouble-shooting interface (GPON support)
configure alarm entry (IPv6 on HC-L3 NT)
configure arp-relay statistics (GPON support)
configure bridge port (GPON support)
configure debug-trace protocol-trace (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure dhcp-relay port-stats (GPON support)
configure equipment slot (NANT-E CLI/TL1 Adaptation)
configure ethernet line (FD 36p Ethernet LT (NELT-B))
configure igmp channel (GPON support)
configure igmp system (GPON support)
configure interface port (FD 36p Ethernet LT (NELT-B))
configure pppox-relay cross-connect client-port (GPON support)
configure qos dsl-port (GPON support)
configure qos interface (GPON support)
configure qos interface queue (GPON support)
configure qos profiles cac (GPON support)

configure qos profiles l2-filter (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure qos profiles policer (FD 36p Ethernet LT (NELT-B))
configure qos profiles queue (FD 36p Ethernet LT (NELT-B))
configure qos profiles shaper (GPON support)
configure qos shdsl-port (GPON support)
configure qos tc-map-dot1p (FD 36p Ethernet LT (NELT-B))
configure qos tca queue (GPON support)
configure system (Full CLI support)
configure system loop-id-syntax (GPON support)
configure system max-lt-link-speed (NANT-E CLI/TL1 Adaptation)
configure system security profile (Lawful Intercept)
configure system security domain (Full CLI support)
configure system security default-profile (Lawful Intercept)
configure system security pae authenticator (GPON support)
configure system security pae ext-authenticator (GPON support)
configure system security pae port (GPON support)
configure system security radius (GPON support)
configure system security snmp group security-level (Lawful Intercept)
configure system security snmp map-user-group (Lawful Intercept)
configure system security ssh access (GPON support)
configure system sync-if-timing ssm (NRNT-A; mini-ISAM NT)
configure system sync-if-timing synce (NRNT-A; mini-ISAM NT)
configure system syslog destination (GPON support)
configure system syslog route (GPON support)
configure trap manager (GPON support)
configure trap definition (GPON support)
configure trouble-shooting statistics interface (GPON support)
configure vlan id (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure vlan port-protocol protocol-group (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure vlan unicast-mac vlan-id (GPON support)
configure vlan vlan-port unicast-mac (GPON support)
configure vlan pbit-statistics port min-dot1p (GPON support)
configure voice sip termination (ISAM-V)
configure voice sip lineid-syn-prof (ISAM-V)
configure voice sip vsp (ISAM-V)
configure xdsl overrule-data (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl service-profile (SRA for VDSL2)

configure xdsl line (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl line tca-line-threshold (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl-bonding group-profile (8p PTM VDSL2 bonding on FD)
show arp-relay-stats (GPON support)
show config-data-port igmp (GPON support)
show config-data-port qos scheduler-profile (GPON support)
show dhcp-relay port-stats (GPON support)
show dhcp-relay session (GPON support)
show equipment slot (NANT-E CLI/TL1 Adaptation)
show equipment temperature (NRNT-A; mini-ISAM NT)
show igmp channel counter (GPON support)
show igmp channel miscellaneous (GPON support)
show igmp channel protocol (GPON support)
show interface stack (FD 36p Ethernet LT (NELT-B))
show interface port (FD 36p Ethernet LT (NELT-B))
show interface stack (FD 36p Ethernet LT (NELT-B))
show interface test (FD 36p Ethernet LT (NELT-B))
show mcast active-groups (GPON support)
show mcast grp-membership (GPON support)
show oper-data-port igmp (GPON support)
show pppox-relay cross-connect monitor-statistics client-port (GPON support)
show pppox-relay cross-connect session client-port (GPON support)
show pppox-relay cross-connect statistics client-port (GPON support)
show qos statistics buffer-overflow current-1day (NRNT-A; mini-ISAM NT)
show qos statistics queue current-15min (GPON support)
show qos statistics queue prev-15min (GPON support)
show security pae authenticator (GPON support)
show security pae diagnostics (GPON support)
show security pae eapol-stats (GPON support)
show security pae port-details (GPON support)
show security pae session-stats (GPON support)
show system cpu-load (NRNT-A; mini-ISAM NT)
show system license (NANT-E CLI/TL1 Adaptation)
show system memory-usage (NRNT-A; mini-ISAM NT)
show trouble-shooting statistics interface (GPON support)
show vlan bridge-port-fdb (GPON support)
show vlan cross-connect (GPON support)

show vlan current-15min-stats (GPON support)
show vlan current-day-stats (GPON support)
show vlan dup-mac-alarm (GPON support)
show vlan pbit-statistics port (GPON support)
show vlan port-15min-stats (GPON support)
show vlan port-curr-15min-stats (GPON support)
show vlan port-curr-day-stats (GPON support)
show vlan port-event (GPON support)
show vlan port-prev-day-stats (GPON support)
show vlan previous-15min-stats (GPON support)
show vlan residential-bridge extensive (FD 36p Ethernet LT (NELT-B))
show vlan residential-bridge summary (FD 36p Ethernet LT (NELT-B))
show vlan vlan-day-stats (GPON support)
show vlan vmac-bridge-port-fdb (GPON support)
show voice sip statistics call interval
show xdsl config-data-port qos scheduler-profile (GPON support)
show xdsl oper-data-port igmp (GPON support)

New Commands

admin ces (Full CLI support)
admin ces ont (Full CLI support)
admin ces ont line (Full CLI support)
admin dhcp-relay v6-port-stats (IPv6 Protocol Aware CC with DHCPv6 on FD)
admin equipment ont (Full CLI support)
admin equipment ont data-store (Full CLI support)
admin equipment ont interface (Full CLI support)
admin equipment ont slot (Full CLI support)
admin equipment ont sw-ctrl (Full CLI support)
admin equipment ont sw-version (Full CLI support)
admin ont-xdsl-line loop-diagnostic (Full CLI support)
admin pon (Full CLI support)
admin pon ber-stats (Full CLI support)
admin voice (Full CLI support)
admin voice ont (Full CLI support)
admin voice ont pots (Full CLI support)
admin voice ont pots diagnostics mode (Full CLI support)
admin voice ont pots pb-dial-tone slow-pull-timer (Full CLI support)

admin voice ont pots sip-dial-tone sip-phone-number (Full CLI support)
configure ani (Full CLI support)
configure ani ont (Full CLI support)
configure ani ont tca-thresh tca-thresh lower-optical-th (Full CLI support)
configure ani ont video (Full CLI support)
configure ces (Full CLI support)
configure ces ont (Full CLI support)
configure ces ont profile (Full CLI support)
configure ces ont service (Full CLI support)
configure ces ont line mode (Full CLI support)
configure ces ont line port pm-collect (Full CLI support)
configure ces ont service service-nbr (Full CLI support)
configure dhcp-relay v6-port-stats (IPv6 Protocol Aware CC with DHCPv6 on FD)
configure equipment ont (Full CLI support)
configure equipment ont interface (Full CLI support)
configure equipment ont interface tc-layer-threshold (Full CLI support)
configure equipment ont slot (Full CLI support)
configure equipment ont sw-ctrl (Full CLI support)
configure equipment ont interface tc-layer (Full CLI support)
configure ethernet line mau (FD 36p Ethernet LT (NELT-B))
configure ethernet ont cust-info (Full CLI support)
configure ethernet ont port pm-collect (Full CLI support)
configure l2uni (Full CLI support)
configure l2uni ont (Full CLI support)
configure l2uni ont performance-monitor pm-collect (Full CLI support)
configure l2uni ont tc-layer-threshold dropped-frames-up (Full CLI support)
configure linetest (ISAM-V H248 : CLI enhancements)
configure linetest cluster (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltparm (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltline (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltparm (ISAM-V H248 : CLI enhancements)
configure linetest cluster ltsession (ISAM-V H248 : CLI enhancements)
configure linetest single (ISAM-V H248 : CLI enhancements)
configure linetest single ltline (ISAM-V H248 : CLI enhancements)
configure linetest single ltparm tst-type (ISAM-V H248 : CLI enhancements)
configure linetest single ltsession session-cmd (ISAM-V H248 : CLI enhancements)
configure link-aggr (FD 36p Ethernet LT (NELT-B))

configure link-agg general priority (FD 36p Ethernet LT (NELT-B))
configure link-agg group load-sharing-policy max-active-port (FD 36p Ethernet LT (NELT-B))
configure link-agg group port (FD 36p Ethernet LT (NELT-B))
configure link-agg port passive-lacp (FD 36p Ethernet LT (NELT-B))
configure mcast monitor (GPON support)
configure mcast monitor src (GPON support)
configure mcast static (FD 36p Ethernet LT (NELT-B))
configure mcast static branch (FD 36p Ethernet LT (NELT-B))
configure ntp (Full CLI support)
configure ntp ont (Full CLI support)
configure pon (Full CLI support)
configure pon power-shed-prof (Full CLI support)
configure pon interface label (Full CLI support)
configure pon interface tc-layer pm-collect (Full CLI support)
configure pon interface tc-layer-threshold (Full CLI support)
configure qos interface upstream-queue (GPON support)
configure qos profiles bandwidth (GPON support)
configure qos profiles ingress-qos (GPON support)
configure qos profiles scheduler-node (GPON support)
configure system pon-ont slid-mode (Full CLI support)
configure system security li separate (Lawful Intercept)
configure uni (Full CLI support)
configure uni ont (Full CLI support)
configure uni ont tc-layer (Full CLI support)
configure uni ont video pwr-override (Full CLI support)
configure voice ont (Full CLI support)
configure voice ont service (Full CLI support)
configure voice ont pots custinfo (Full CLI support)
configure voice ont tc-layer pm-collect (Full CLI support)
configure xdsl rtx-profile rtx-profile (standard ARQ for ADSL2 (+)and VDSL2)
configure xdsl ont (Full CLI support)
configure xdsl ont service-profile (Full CLI support)
configure xdsl ont spectrum-profile (Full CLI support)
configure xdsl ont line service-profile (Full CLI support)
configure xdsl ont spectrum-profile vdsl (Full CLI support)
configure xdsl ont spectrum-profile vdsl2 (Full CLI support)

configure xstp (FD 36p Ethernet LT (NELT-B))
configure xstp instance (FD 36p Ethernet LT (NELT-B))
configure xstp general enable-stp (FD 36p Ethernet LT (NELT-B))
configure xstp instance associate-vlan (FD 36p Ethernet LT (NELT-B))
configure xstp port priority (FD 36p Ethernet LT (NELT-B))
configure xstp port-instance instance (FD 36p Ethernet LT (NELT-B))
mrinfo (PIM-SSM on HC-L3 NT)
mstat (PIM-SSM on HC-L3 NT)
mtrace (PIM-SSM on HC-L3 NT)
show alarm current eqpt-supplemental (GPON support)
show alarm current ihub-ipv6 (IPv6 on HC-L3 NT)
show alarm current mcsrc (GPON support)
show alarm current pim (PIM-SSM on HC-L3 NT)
show alarm current sip-user-agent (minor problem solving)
show alarm current vlanport (GPON support)
show alarm log eqpt-supplemental (GPON support)
show alarm log ihub-ipv6 (IPv6 on HC-L3 NT)
show alarm log mcsrc (GPON support)
show alarm log pim (PIM-SSM on HC-L3 NT)
show alarm log sip-user-agent (minor problem solving)
show alarm log vlanport (GPON support)
show alarm snap-shot eqpt-supplemental (GPON support)
show alarm snap-shot ihub-ipv6 (IPv6 on HC-L3 NT)
show alarm snap-shot mcsrc (GPON support)
show alarm snap-shot pim (PIM-SSM on HC-L3 NT)
show alarm snap-shot sip-user-agent (minor problem solving)
show alarm snap-shot vlanport (GPON support)
show ani (Full CLI support)
show ani ont (Full CLI support)
show ani ont operational-data (Full CLI support)
show ani ont video (Full CLI support)
show ani ont video-stats (Full CLI support)
show ces (Full CLI support)
show ces ont (Full CLI support)
show ces ont line (Full CLI support)
show ces ont line port (Full CLI support)
show ces ont line port current-interval (Full CLI support)

show ces ont line port previous-interval interval-nbr (Full CLI support)
show ces ont service (Full CLI support)
show ces ont service operational-data (Full CLI support)
show ces ont service pseudo-wire (Full CLI support)
show ces ont service pseudo-wire current-interval (Full CLI support)
show ces ont service pseudo-wire previous-interval interval-nbr (Full CLI support)
show ces ont service tc-layer (Full CLI support)
show ces ont service tc-layer olt-side (Full CLI support)
show ces ont service tc-layer olt-side current-interval (Full CLI support)
show ces ont service tc-layer olt-side previous-interval interval-nbr (Full CLI support)
show ces ont service tc-layer ont-side (Full CLI support)
show ces ont service tc-layer ont-side current-interval (Full CLI support)
show ces ont service tc-layer ont-side previous-interval (Full CLI support)
show dhcp-relay v6-port-stats (IPv6 Protocol Aware CC with DHCPv6 on FD)
show dhcp-relay v6-port-stats vlan (IPv6 Protocol Aware CC with DHCPv6 on FD)
show dhcp-relay v6-port-stats vlan v6extensive (IPv6 Protocol Aware CC with DHCPv6 on FD)
show dhcp-relay v6-port-stats vlan v6summary (IPv6 Protocol Aware CC with DHCPv6 on FD)

show equipment ont (Full CLI support)
show equipment ont data-store (Full CLI support)
show equipment ont interface (Full CLI support)
show equipment ont operational-data (Full CLI support)
show equipment ont optics (Full CLI support)
show equipment ont optics-history (Full CLI support)
show equipment ont pwr-shed (Full CLI support)
show equipment ont slot (Full CLI support)
show equipment ont sw-ctrl (Full CLI support)
show equipment ont sw-download (Full CLI support)
show equipment ont sw-version (Full CLI support)
show equipment ont tc-layer (Full CLI support)
show equipment ont tc-layer olt-side (Full CLI support)
show equipment ont tc-layer olt-side current-interval (Full CLI support)
show equipment ont tc-layer olt-side previous-interval interval-num (Full CLI support)
show equipment ont tc-layer olt-side-on-demand (Full CLI support)
show equipment ont tc-layer olt-side-on-demand current-interval (Full CLI support)
show equipment ont tc-layer olt-side-on-demand previous-interval interval-num (Full CLI support)
show equipment ont tc-layer ont-side (Full CLI support)
show equipment ont tc-layer ont-side current-interval (Full CLI support)

show equipment ont tc-layer ont-side previous-interval (Full CLI support)
show ethernet ont (Full CLI support)
show ethernet ont operational-data (Full CLI support)
show ethernet ont port (Full CLI support)
show ethernet ont port current-interval (Full CLI support)
show ethernet ont port previous-interval interval-num (Full CLI support)
show ethernet statistics (FD 36p Ethernet LT (NELT-B))
show ethernet statistics line (FD 36p Ethernet LT (NELT-B))
show l2uni (Full CLI support)
show l2uni ont (Full CLI support)
show l2uni ont performance-data (Full CLI support)
show l2uni ont performance-data current-interval (Full CLI support)
show l2uni ont performance-data previous-interval interval-nbr (Full CLI support)
show linetest (ISAM-V H248 : CLI enhancements)
show linetest cluster (ISAM-V H248 : CLI enhancements)
show linetest cluster avail-sess (ISAM-V H248 : CLI enhancements)
show linetest cluster lineid-ext-rept lineid (ISAM-V H248 : CLI enhancements)
show linetest cluster ltline lineid (ISAM-V H248 : CLI enhancements)
show linetest cluster ltsession (ISAM-V H248 : CLI enhancements)
show linetest single (ISAM-V H248 : CLI enhancements)
show linetest single avail-sess (ISAM-V H248 : CLI enhancements)
show linetest single lineid-ext-rept lineid (ISAM-V H248 : CLI enhancements)
show linetest single ltline lineid (ISAM-V H248 : CLI enhancements)
show linetest single ltsession (ISAM-V H248 : CLI enhancements)
show link-agg (FD 36p Ethernet LT (NELT-B))
show link-agg group-info (FD 36p Ethernet LT (NELT-B))
show link-agg member-port port (FD 36p Ethernet LT (NELT-B))
show link-agg port-info (FD 36p Ethernet LT (NELT-B))
show pon (Full CLI support)
show pon ber-stats ont-num (Full CLI support)
show pon interface (Full CLI support)
show pon interface tc-layer (Full CLI support)
show pon interface tc-layer current-interval (Full CLI support)
show pon interface tc-layer previous-interval interval-nbr (Full CLI support)
show pon optics (Full CLI support)
show pon sfp-inventory (Full CLI support)

show pon sw-download (Full CLI support)
show pppoel2-stats (Porting FTTU)
show pppoel2-stats vlan (Porting FTTU)
show pppoel2-stats vlan extensive (Porting FTTU)
show pppoel2-stats vlan summary (Porting FTTU)
show qos interface-bandwidth (GPON support)
show qos pcc-rules fwd-port rule (Full CLI support)
show qos profile-usage bandwidth (GPON support)
show qos profile-usage ingress-qos (GPON support)
show qos profile-usage scheduler-node (GPON support)
show qos statistics lt-queue (GPON support)
show qos statistics lt-queue current-15min (GPON support)
show qos statistics lt-queue prev-15min (GPON support)
show qos tc-to-qmap (GPON support)
show trouble-shooting pon (PT Counters)
show trouble-shooting pon statistics (PT Counters)
show trouble-shooting pon statistics interface (PT Counters)
show uni (Full CLI support)
show uni ont (Full CLI support)
show uni ont tc-layer (Full CLI support)
show uni ont tc-layer olt-side (Full CLI support)
show uni ont tc-layer olt-side current-interval (Full CLI support)
show uni ont tc-layer olt-side previous-interval interval-nbr (Full CLI support)
show uni ont tc-layer ont-side (Full CLI support)
show uni ont tc-layer ont-side current-interval (Full CLI support)
show uni ont tc-layer ont-side previous-interval (Full CLI support)
show vlan fdb-board vlan-id (GPON support)
show voice ont (Full CLI support)
show voice ont call-hist call-hist-num (Full CLI support)
show voice ont pots (Full CLI support)
show voice ont pots diagnostics (Full CLI support)
show voice ont pots pb-dial-tone (Full CLI support)
show voice ont pots sip-dial-tone (Full CLI support)
show voice ont pots tc-layer (Full CLI support)
show voice ont pots tc-layer olt-side (Full CLI support)
show voice ont pots tc-layer olt-side current-interval (Full CLI support)

show voice ont pots tc-layer olt-side previous-interval interval-nbr (Full CLI support)
show voice ont pots tc-layer ont-side (Full CLI support)
show voice ont pots tc-layer ont-side current-interval (Full CLI support)
show voice ont pots tc-layer ont-side previous-interval interval-nbr (Full CLI support)
show voice ont service (Full CLI support)
show xdsl ont (Full CLI support)
show xdsl ont carrier-data (Full CLI support)
show xdsl ont carrier-data far-end (Full CLI support)
show xdsl ont carrier-data near-end (Full CLI support)
show xdsl ont counters (Full CLI support)
show xdsl ont counters far-end (Full CLI support)
show xdsl ont counters far-end channel (Full CLI support)
show xdsl ont counters far-end channel current-interval (Full CLI support)
show xdsl ont counters far-end channel previous-interval interval-no (Full CLI support)
show xdsl ont counters far-end line (Full CLI support)
show xdsl ont counters far-end line current-interval (Full CLI support)
show xdsl ont counters far-end line previous-interval interval-no (Full CLI support)
show xdsl ont counters near-end (Full CLI support)
show xdsl ont counters near-end channel (Full CLI support)
show xdsl ont counters near-end channel current-interval (Full CLI support)
show xdsl ont counters near-end channel previous-interval interval-no (Full CLI support)
show xdsl ont counters near-end line (Full CLI support)
show xdsl ont counters near-end line current-interval (Full CLI support)
show xdsl ont counters near-end line previous-interval interval-no (Full CLI support)
show xdsl ont cpe-tuc-inventory (Full CLI support)
show xdsl ont cpe-tur-inventory (Full CLI support)
show xdsl ont failure-status (Full CLI support)
show xdsl ont failure-status far-end (Full CLI support)
show xdsl ont failure-status near-end (Full CLI support)
show xdsl ont operational-data (Full CLI support)
show xdsl ont operational-data far-end (Full CLI support)
show xdsl ont operational-data far-end channel (Full CLI support)
show xdsl ont operational-data far-end line (Full CLI support)
show xdsl ont operational-data near-end (Full CLI support)
show xdsl ont operational-data near-end channel (Full CLI support)
show xdsl ont operational-data near-end line (Full CLI support)
show xdsl ont profiles (Full CLI support)

show xdsl ont xdsl-int (Full CLI support)
show xstp (FD 36p Ethernet LT (NELT-B))
show xstp bridge (FD 36p Ethernet LT (NELT-B))
show xstp instance (FD 36p Ethernet LT (NELT-B))
show xstp port (FD 36p Ethernet LT (NELT-B))
show xstp port-instance (FD 36p Ethernet LT (NELT-B))

Removed Commands

configure mcast src (Fixed multicast VLAN per IGMP channel)
configure mcast src packagemember (Fixed multicast VLAN per IGMP channel)
configure qos profiles scheduler (GPON support)
show qos profile-usage scheduler (GPON support)
show vlan fdb mac ((GPON support)
show bridge port-to-atm-pvc (ISAM-V H248:CLI enhancements)

1.2 Preface

Scope

This user guide describes the Command Line Interface (CLI) commands supported by the Nokia 7302 ISAM, 7330 ISAM FTTN and 7360 ISAM. These commands are used for installation, configuration, management and troubleshooting.

User Profile

The guide is intended for operating personnel (sometimes called craft persons).

The CLI Structure

The ISAM CLI is a command-driven interface accessible via telnet or via the craft terminal.

The CLI can be used to configure and manage ISAM equipment.

1.3 CLI Commands

Command Types

The commands of the CLI language can be divided into two groups: global and environmental commands.

Global commands (such as the **logout** command) can be entered in any context and have the same effect in each context.

Environmental commands (such as the **info** command) can only be entered in some contexts (for example, the **info** command cannot be used in the **show** node) and have a different effect in each context. The purpose of the command (for example, showing the configuration) is the same but the implementation or the generated output is different.

Some commands are also implicit. For example, when you enter only the node name **configure system security snmp community fden**, you run an implicit command that changes your context to the specified node and that creates this node if it did not previously exist.

The available commands are discussed in a separate chapter.

Access Rights

Not every operator can execute every command.

Access to commands is granted via the operator profile.

It is possible that an operator can execute a given command in one context and not in another.

Options and Parameters

Commands can have options and parameters.

Options are special parameters that are context insensitive. For example, you can enter the option **detail** after **info** in any context.

Options must be given at the end of the command preceeding the filter and printer specifications.

Different look and feel for IHUB CLI commands

A multi-core system exists of two CLI parsers. This can result in a different behavior and sometimes a different look and feel, depending on the CLI parser which is handling the command.

This section lists the most important differences in "behavior / look and feel" for the CLI commands listed in the different IHUB CLI guides, compared to the CLI commands listed in this document, and compared to the description of ISAM CLI in the subsections of this chapter.

Command Completion:
command can complete with a root command iso the IHUB command if the characters before the completion are similar to the characters of the root command
no command completion for combined types (e.g. nt-a:sfp:1)
no command completion for parameter alternatives
command completion can cease to work when entering a range

Ranges:
a range allows only decimal numeric values
command execution with numerical ranges will fail when a context change occurred
commands which contain a valid range syntax (no context change), are executed without displaying the different individual commands
Prompt:
dynamic resource-id is not displayed in the prompt
Online Help:
global command <help> not supported for IHUB commands : use <?> or <TAB>
online help not scaled down (not restrictive) depending the installed equipment practice
no online help for combined types
General:
global command <back> returns to the context from which the current level was entered
keystroke <insert> not supported
Info Command:
info command must be executed from within a node, it cannot take an argument
info configure detail command will fetch all the configurations from the IHUB context, irrespective of operator access rights
the output format option "xml" is not applicable, only a textual (=hierarchical) output is supported
Show Command:
the output is tailored depending on the provided parameters
Absolute path:
Cli commands can be executed in any context by specifying the full path from the CLI root. The command may or may not change the current context, depending on whether or not it is a leaf command
IACM command execution after executing "exit" :
IACM command execution can cease to work when the command was entered after executing the "exit" command from within an IHUB context, for which the parent node has both: IACM and IHUB children nodes
Tree Command:
When a tree command is executed in a node who has both :IACM and IHUB subnodes, the indentation in the tree structure gets lost for the IHUB related subnodes

1.4 Nodes

Node Definition

A command definition tree, further abbreviated to "command tree" is a structure of nested command nodes from which CLI commands can be derived. A command node consists of a node name and zero or more resource identifiers. The resource identifiers behave like parameters, but identify a particular resource. For example, **public** in **configure system security snmp community public** is an unnamed resource identifier of the node **community**.

One such command node identifies a context. A CLI command can be derived from a command tree starting from the root node, but a command with the same meaning and impact can also be derived from a lower level node or subnode. The following are examples of equivalent commands:

- **info configure system security snmp community public** in any node.
- **info system security snmp community public** in node **configure**
- **info security snmp community public** in node **configure system**
- **info snmp community public** in node **configure system security**
- **info community public** in node **configure system security snmp**
- **info** in node **configure system security snmp community public**

The root node is the highest level. Directly below the root node are important command nodes such as **configure** and **show**.

Node Creation

A dynamic node is a sub-node of the **configure** node that corresponds to a configurable resource that an operator can create.

An operator can create a dynamic node by navigating to it. The system will automatically create the node. The operator can configure its prompt in such a way that it shows if the operator navigated to an existing or a new node. The ability to create nodes is limited by the access rights of the user.

It is also possible that the system creates additional subnodes in other nodes, for example, in the **show** node due to the creation of a new dynamic node in the **configure** node.

Node Deletion

A dynamic node can be deleted by placing **no** in front of the node name. For example, **configure system security snmp no community public** deletes the specified node and all its subnodes. The ability to delete nodes is limited by the access rights of the operator.

Resource Attributes

The value of resource attributes can be changed by entering the name of the resource attribute followed by the new value. For example, **password plain:secret** sets the value of the resource attribute named **password** to the plain text string **secret**.

Resource attributes can be set to their default value by entering **no** followed by the name of the resource attribute. For example, **no password** sets the value of the resource attribute named **password** to the default value (no password required).

1.5 Parameters

Named and Unnamed Parameters

Parameters are characterised by a name and a type.

Parameters can be named or unnamed.

Named parameters are entered as two tokens: a keyword and a value (for example, **password plain:secret**). Some commands (such as **info**) require only the keyword.

Only the value token is entered for unnamed parameters (for example, **public** in the node name **community public**).

Most options and first resource identifiers are unnamed.

Parameters can be entered in any order. Only unnamed keys must be entered directly after the node name.

Parameter Types

Parameter values belong to a parameter type. Parameter types limit the parameter values to strings that the system can understand.

Parameter types consists of 1 to N fields with separators in between. Each field belongs to a basic type. The separator is in most cases a colon **:** or a slash **/**.

The name of parameter types always starts with an uppercase character and can contain an optional domain name. The domain name is separated from the parameter name by **::**.

The sequence in which the fields appear can differ in case one of the fields belongs to an enumeration type. For example, if provided some possible values for the parameter type **ExtendedFileName** (the first field is an enumeration field with possible values **file** and **ftp**, *host-name*, *user-name*, *password* and *local-file* are also fields):

- **file:** *local-file*
- **ftp:** *host-name @ user-name : password / local-file*

Parameter types are built by combining 1 to N basic types.

Basic Types

Basic types can be divided in two groups: fixed length basic types and variable length basic types.

Examples of variable length basic types are:

- integers
- printable strings (representing operator chosen names or descriptions)
- SNMP object identifiers
- binary strings

The length of a variable length basic type is in most cases limited. The definition of logical length depends on the basic type: number of characters for printable strings, number of bytes for binary strings, and number of numbers in the object identifier for SNMP object identifiers.

Examples of fixed length basic types are:

- ip-address
- fixed-length printable strings
- enumeration types (limited list of allowed strings)

Basic Type Formatting Rules

Integers can be entered in a decimal format. Large integers can be abbreviated as follows:

- *decimal-number* **k** which is equal to *decimal-number* ***1000** (For example: **3k** is equal to **3000**)
- *decimal-number* **M** which is equal to *decimal-number* ***1000000**
- *decimal-number* **G** which is equal to *decimal-number* ***1000000000**

Binary strings must be entered as: *hex-byte* : *hex-byte* ...: *hex-byte*. *hex-byte* is a number between 0 and 255 in hexadecimal format (all lowercase). For example, **3f:23:ff:b2** is a valid binary string.

Object identifiers and ipv4-addresses must be entered as: *decimal-number* . *decimal-number* *decimal-number*. For example, **128.17.32.45** is a valid object identifier.

The values of all fields may be placed within double quotes. A field separator can never be placed within double quotes. For example, **"1"/"1"** is a valid shelf identifier, but **"1/1"** is not a valid shelf identifier.

A field value can contain multiple double quotes. For example, **"hallo world"** is equivalent to **hallo" "world** or to **"hallo"" ""world"**.

Printable strings must be placed within double quotes if they contain special characters: double quote **"**, a backslash ****, a question mark **?**, a cross **#**, a space, a tab, a carriage return, or a new line.

The backslash **** is the escape character. The double quote **"** and backslash **** characters must be preceded by the escape character. The **\char** is equivalent to *char* with the following exceptions:

- **\r** : carriage-return
- **\t** : tab
- **\n** : new-line

In some cases it is possible that a command is ambiguous. For example, **info operator detail** can be interpreted in two ways: list the configuration of the operator with the name **detail** or list the configuration of all operators in detail.

The ambiguity is solved by the parser in the following way: if the string contains quotes, it is interpreted as a printable string, otherwise it is interpreted as a keyword. For example, **info operator "detail"** lists the configuration of the operator with the name **detail** and **info operator detail** lists the configuration of all operators in detail.

Syntax Check

The system verifies if each typed character is syntactically correct.

In case the system detects a syntax error, it will position the cursor at the offending character and beep.

This can give strange effects if you are entering characters in the 'insert mode': the invalid characters will shift to the right and any newly entered character will be inserted in front of the faulty characters.

To avoid this strange effect, it is recommended to work in the (default) overwrite mode.

Command Repetition

Values of parameters may contain decimal, hexadecimal or character ranges. These ranges indicate that the concerned command must be repeated a number of times with the different values as specified in the range.

Decimal ranges are entered as [*d*: *start*...*end*] in which *start* and *end* are integers. Example of a decimal range: **lt:1/1/[4...16]**

Hexadecimal ranges are entered as [*h*: *start*...*end*] in which *start* and *end* are hexadecimal numbers. *start* and *end* values may not contain uppercase characters and the number of characters of the first *start* value determines the number of characters to be entered for the following values in the range. Example of a hexadecimal range:

03:06:ff:[h:aa...bd]

Character ranges are entered as [*c*: *start*...*end*] in which *start* and *end* are characters. *start* and *end* value must belong to the same character class: digit, lowercase or uppercase. Special characters are not allowed. Example of a character range : **operator[c:a...f]**

Ranging is not supported for float values

Ranges have following restrictions:

- One command may only contain 1 range.
- The default range type is decimal. It will be used if the type is not explicitly mentioned with '**d**:', '**h**:' or '**c**:'.
- Subranges can be separated with a comma. For example: [**d**:17...19,32,60...62] will be replaced consecutively with the values 17, 18, 19, 32, 60, 61 and 62.
- Ranges between quotes are not expanded.
- Command completion may refuse to work once a range is entered.
- Execution of command repetition will stop once an iteration in the range fails.

The system sometimes restricts which range type may be used: the system only allows a decimal range where a decimal number can be entered or a hexadecimal range where a hexadecimal number can be entered. It even imposes that the range replaces completely the number. Example: **1[2...3]** is invalid, [**12...13**] must be entered instead. Also the *start* and *end* of the range must fall in the allowed range for the number. Only text strings may contain all types of ranges.

The way the system handles a range depends on the command.

- Some commands can handle ranges directly. Repeating the command will be done internally. The command will then behave for the operator as a normal command..
- For the other commands, the system will execute the command *end* - *start* + 1 times in which the specified range is each time replaced by a number out of the range. Each expanded command is shown to the operator. Commands that normally change the context, don't do this in this case. The command repetition can be stopped via an interrupt.
- Range commands in combination with help "?" character always show the complete list of available parameters and subnodes and do not suppress subnodes in case of the existing nodes.

Obsolete and Replaced Parameters

Parameters can become obsolete or parameters are substituted by new parameters. See the definition and strategy in section 1.11 CLI Backward Compatibility.

1.6 Filters

The language provides filters to manipulate the output of commands.

For list of available filters, please refer to command description of section "CLI Filters".

Filters can be specified in case the command generates output. They are separated from the basic command with a pipe character |.

The user can specify a sequence of filters as in following example: **info | match exact:1/1 | count lines**.

1.7 Printers

The language provides printers to allow the user to decide how the output must be printed on his terminal.

The available printers are discussed in detail in a separate chapter.

Printers can be specified in case the command generates output. They are separated from the basic command with a pipe character |.

The user can specify maximum one printer as in following example: **info | match exact:1/1 | more**

The default printer can be specified for the CLI session or the operator.

1.8 Getting help

The user can get help in two ways.

The first is using the **help** command. This gives an extensive explanation on the command.

The user can also enter a question-mark **?** at each position in the command. He will then get a short explanation on what he can enter at this position in the command.

For example: **configure system security operator ?** gives following output:

```
<Sec::OperatorName> : the name of the operator [a-z0-9] (1<=x<=11)
```

This has the following meaning:

- **Sec::OperatorName** is the name of the parameter type. This indicates that the user must enter a parameter value.
- **:** indicates that the concerned object is an optional parameter. Mandatory parameters are indicated with **!**, obsolete parameters and obsolete nodes with **X**, regular nodes with **+**, commands with **-**
- **the name of the operator** explains how the parameter will be interpreted by the system.
- **[a-z0-9]** indicates that the value may consist of the lower-case alphanumeric characters, the ASCII characters **a** till **z** and **0** till **9**.
- **(1<=x<=11)** indicates that the name must consist of at least 1 character and maximum 11 characters.

1.9 The CLI Prompt

The prompt can be configured by the user. The prompt can be specified for the session, for an operator or for an operator profile. If no specific prompt is specified for the session, the prompt specified for the operator is taken and the prompt specified for the operator profile is taken if no prompt is specified for the operator.

The prompt can be composed with following components :

- **%n** : the name of the current operator.
- **%s** : the current numbering scheme (**typ|leg|pos**).
- **%i** : the current system id.
- **%t** : the current timestamp.
- **%!** : the current history number.
- **% num d** : the current context.
 - *num* is the maximum number of components (starting from the last) that are shown (default is all).
 - each component will be separated from the next one with a >.
 - a > is also added in front of the first component.
- **%%** : a %
- **%c** : # if the current node was an existing node or \$ if it is newly created.
- any other character is just added to the prompt as is.

The default prompt is **"%s:%n%d%c "**

The system will add a > at the end of each empty prompt or each prompt that consists purely out of white-space

The ISAM CLI prompt configuration supports adding one or more components starting with the "%" escape character. This behavior is extended with the use of the "\$" as an escape character. The system behavior is the same as when using the "%" escape character.

For example: an occurrence of "\$n" is replaced with the name of the current operator.

For backward compatibility, the "\$" character must be used exclusively without the "%" character. As soon as the "%" character is used in the string, all occurrences of the "\$" character will be considered as a literal and will not be replaced with the component it refers to.

The following command already exists, except that the prompt value uses "%" instead of "\$". The usage of "\$" is now also supported:

configure system security operator abcd prompt \$h:\$3d:\$n:\$c:\$i:\$!:\$s:\$

Instead of "%", "\$" is accepted as an escape character. "%" continues to be supported for backward compatibility.

Example:

leg:abcd>configure>system>security>operator>abcd# prompt \$h:\$3d:\$n:\$c

System_id:>security>operator>abcd:abcd:#

If at least one "%" is present in the prompt, the priority will be given to "%" and "\$" will be treated as a literal.

Example:

leg:abcd>security>operator>abcd:abcd:#prompt \$h:%3d:%s:%n:%

\$h:\$3d:\$s:abcd:#

Reverting to all "\$":

\$h:\$3d:\$s:abcd:#prompt \$h:\$3d:\$s:\$n:\$c

System_id:>security>operator>abcd:leg:abcd:#

1.10 Entering CLI Commands

Following key strokes are treated in a special way while entering commands:

- *arrow-left* : move the cursor one position to the left.
- *arrow-right* : move the cursor one position to the right.
- *arrow-up* : get the previous stored command (round-robin, starts with the last stored command).
- *arrow-down* : get the next stored command (round-robin, starts with the oldest stored command).
- *insert* : toggle between insert and overwrite mode.
- *backspace* : delete the character before the cursor and move the cursor one position to the left.
- *delete* : delete the character under the cursor.
- *control-c* : interrupt the current command or clear the current entered string on a telnet or SSH terminal.
- *control-a* : move the cursor to the beginning of the line.
- *control-p* : get the previous stored command (round-robin, starts with the last stored command).
- *control-n* : get the next stored command (round-robin, starts with the oldest stored command).
- *control-k* : delete all characters starting from the position of the cursor.
- *control-u* : delete all entered characters.
- *control-w* : delete one word before the cursor.
- *control-x* : interrupt the current command or clear the current entered string on the craft terminal.
- *control-l* : clear screen.
- *tab* : trigger command completion.
- *space* : terminate a token and trigger command completion, unless it is placed between double quotes.
- *#* : treat all following commands as comment, unless they are placed between double quotes.
- *?* : trigger online-help, unless it is placed between double quotes.

Entering a tab triggers command completion.

The system will try to expand the existing entered string until an ambiguity is found. If there is no ambiguity, a space will be added behind the token.

Entering a space behind an entered string has - for keywords - the same effect as the tab.

For example: entering **c** followed by a tab in the root node will expand to **configure**.

For example: entering **c** followed by a space in the root node will expand to **configure**.

For example: entering **configure system security operator admin pr** followed by a tab will expand to **configure system security operator admin pro** because there is still an ambiguity here between **prompt** and **profile**.

1.11 CLI Backward Compatibility

Strategy

ISAM has provided a Command Line Interface since the beginning. With each new Software Release, new features are added and as a consequence also the CLI commands need to evolve.

New features often result in new commands or extension of existing commands.

Strategy with respect to Configuration Commands

When new features become available, commands and parameters will be affected. The objective of the strategy is that existing configuration scripts will not be broken, i.e. they can still be used without throwing errors.

New commands can be defined that are an add-on to the existing set of commands. Existing commands may need to be expanded or they may be replaced by a new command. Old commands may become useless and will be obsolete.

When existing commands are expanded, new parameters may need to be added on to a command, existing parameters may need to be extended or parameters may be replaced by a new parameter. Exceptionally, parameters become useless and will be obsolete.

Notice that obsolete commands and parameters will not be maintained for new features; moreover, eventually, in due time, in the scope of a major SW release, an obsolete command and/or parameter will actually be removed from the CLI Command Tree. See chapter 'Phase out strategy obsolete commands and/or parameters'.

Backward Compatibility support for configuration commands.

Configuration commands shall remain backwards compatible. A command may become obsolete because either it is no longer useful or it needs to be replaced by a new command.

At the node level there are two ways:

- **Obsolete command**
 - A command becomes obsolete when the corresponding functionality is removed from the system. In order to avoid that configuration scripts from previous software releases break, the command is not removed. Rather, executing the command will have no effect and the command will never appear in the output of an info command.
- **Obsolete and Replaced command**
 - A command may get replaced by a new one. This may occur when the corresponding functionality is modified or expanded. In order to avoid that configuration scripts from previous software releases break, the command is not removed. Rather, the command is defined as 'obsolete and replaced'. This means that the command is still valid and can still be executed but it will never appear in the output of an info command.

Backward Compatibility support for Configuration Commands parameters.

Configuration commands shall remain backwards compatible. A way to accomplish this is by allowing parameters of the command to evolve. A parameter becomes obsolete because either it is no longer useful or it needs to be replaced by a new parameter.

- **Obsolete parameter**
 - A parameter becomes obsolete when the corresponding functionality is no longer supported by the system. In order to avoid that configuration scripts from previous software releases break, the parameter is not removed. Rather, entering the parameter will have no effect and the parameter will never appear in the output of an info command.

- Obsolete and Replaced parameter
 - A parameter may get replaced by a new one. This may occur when the corresponding functionality is modified or extended. In order to avoid that configuration scripts from previous software releases break, the parameter is not removed. Rather, the parameter is defined as 'obsolete and replaced'. This means that the parameter is still valid and can still be executed but it will never appear in the output of an info command. The replacing parameter will appear in the output of an info command and supports the modified or extended functionality.

Strategy with respect to Show Commands

The output of any show command is available in various formats. Formatting of the output may change over time. XML type of output is formalized. Writers of CLI scripts are encouraged to use the XML format, as this output is ignorant of any formatting.

The information displayed may change as a result of new features. The goal is to add new parameters to the existing display output without modifying the current parameters. In exceptional cases the latter cannot be guaranteed.

1.12 Phase Out Strategy Obsolete Commands and/or Parameters

This chapter describes the phase out strategy that will be followed for obsolete commands and/or obsolete parameters.

Announcement Release

The announcement release is the release in which we announce to the customer that a defined set of "impacted" CLI commands will phase-out in the phase-out release. The announcement release is independent from the release in which the commands and/or parameters became 'obsolete'. The "impacted" CLI commands are the commands which are obsolete or the commands which contain obsolete parameters.

See chapter 'Command Phase Out Announcement Release' for the list of "impacted" CLI commands.

Phase Out Release

This is the future release in which the listed announced "impacted" commands are **removed (obsolete command) or modified (obsolete parameter)**. From this release onwards, obsolete commands and/or parameters are no longer supported. The obsolete commands will be indicated as removed in the history section of the CLI user guide. The commands with obsolete parameters will be indicated as modified commands in the history section of the CLI user guide.

The phase-out release is at least the release succeeding the announcement release.

Customer Impact

- List of impacted commands (See chapter 'Command Phase Out Announcement Release') should carefully be checked in the CLI Command Guide chapter Announcement Release. The obsolete commands and/or obsolete parameters are indicated in the command tree by the prefix **X**.
- The customer should determine the phase-out release.
- Any OSS systems and/or scripts using CLI commands should be checked and updated if required.
- Once the command is phased-out, the normal error reporting will be applicable.

1.13 Command Phase Out Announcement Release

This section gives a list of all the impacted CLI commands which will phase out in the phase-out release. See previous chapter 'phase out strategy obsolete commands and/or parameters' for more info about the phase-out release'. The listed CLI commands are commands which are obsolete or commands which contain obsolete parameters.

Not supported commands/parameters from a later release onwards
configure cm (IMPORTANT: All DPoE related commands will be moved to a separate CLI guide)
configure bridge port vlan-id (parameter network-vlan is replaced by l2fwder-vlan and vlan-scope)
configure l2cp (end of support for ANCP/L2CP)
configure pon interface power-shed-prof (command will be replaced by 'configure generic-pon power-shed-prof')
configure qos profiles cac cac-type pon-cac (command will be replaced by 'configure qos profiles cac cac-type generic-pon-cac')
configure system pon-ont (command will be replaced by 'configure generic-pon ont' and 'configure pon pwrbrst-mode')
show l2cp (end of support for ANCP/L2CP)
configure transport ip default-ttl (obsolete and replaced by "configure system management default-ttl")
configure equipment sfpe1t1 framer (removal of obsolete loopback commands)
show qos dsl-bandwidth (will be replaced by "show qos interface-bandwidth")
show qos shdsl-bandwidth (will be replaced by "show qos interface-bandwidth")
show qos ethernet-bandwidth (will be replaced by "show qos interface-bandwidth")
show transport ether-ifmault (will be replaced by "show ethernet mau")
show transport ether-ifsfp1t (will be replaced by "show ethernet sfp")
show transport ether-ifdot3lt (will be replaced by "show ethernet dot3stats")
configure atm [no]ip-cross-connect (obsolete and replaced by "configure ipoa/e-iw")
configure vlan (parameters "pvid-usage" "pppoe-relay" "circuit-id" "remoted-id" will be deleted)
configure vlan (parameter "broadcast-frames" is replaced by "new-broadcast" and will be deleted)
configure vlan (parameter "secure-forwarding" is replaced by "new-secure-fwd" and will be deleted)
configure bridge (obsolete parameter "accept-frame-type" will be deleted)
configure bridge (parameter "old-tag" is replaced by "tag" and will be deleted)
configure xdsl ont line pm-collect pm (is replaced by "configure xdsl ont line l2 pm enable")
configure xdsl ont line pm-collect tca (is replaced by "configure xdsl ont line l2 tca enable")
configure hpna ont port pm-collect (is replaced by "configure hpna ont l2 pm")
configure veip ont port pm-collect (is replaced by "configure veip ont l2 pm")
configure ethernet ont port pm-collect (is replaced by "configure ethernet ont phy pm")