

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
LAYER 1														
xConnect	IPI Proprietary	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
xConnect Resiliency	IPI Proprietary	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAYER 2														
Virtual Local Area Network (VLAN)														
Virtual LANs with Port-based VLANs	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routed VLAN interface	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port based VLAN interface	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Private VLAN	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spanning Tree Protocol (STP)														
STP	IEEE 802.1D (2004)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple Spanning Tree Protocol (MSTP)	IEEE 802.1Q (2005): Clause 13	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rapid Spanning Tree (RSTP)	IEEE 802.1D (2004): Clause 17	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rapid Per VLAN Spanning Tree (RPVST+)	Cisco Proprietary	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Layer Discovery Protocol (LLDP)														
LLDP v2	IEEE 802.1ab 2009	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Aggregation														
Link Aggregation Control Protocol (LACP)	IEEE 802.3ad-2002	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static link aggregation group	IEEE 802.3ad-2002	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Chassis Link Aggregation (Layer 2 only)														
Multi-Chassis Link Aggregation (MLAG)	IPI Proprietary	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG with RSTP														
MLAG Active/Active over po interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG Active/Active over sa interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG Active/Standby over sa interface	IPI Proprietary	6.0.0	Yes	No	No	No	No	No	No	No	No	No	No	No
Protected Port on MLAG with RSTP														
Protected Port on MLAG+RSTP Active/Active over po interface	IPI Proprietary	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protected Port on MLAG+RSTP Active/Active over SA interface	IPI Proprietary	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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MLAG + Provider Bridging (PB) with RSTP														
MLAG+PB Active/Active over po interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+PB Active/Active over sa interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+PB Active/Standby over sa interface	IPI Proprietary	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+VRRPv4 with RSTP														
MLAG+VRRPv4 Active/Active over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + Static route	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+VRRPv4 Active/Active over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + EBGp	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+VRRPv4 Active/Standby over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + Static route	IPI Proprietary	6.0.0	Yes	No	No	Yes	No	No	No	No	No	Yes	No	No
MLAG+VRRPv4 Active/Standby over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + EBGp	IPI Proprietary	6.0.0	Yes	No	No	Yes	No	No	No	No	No	Yes	No	No
MLAG+VRRPv4 Active/Active over sa interface	IPI Proprietary	6.0.0	Yes	No	No	Yes	No	No	No	No	No	Yes	No	No
MLAG+VRRPv4 Active/Standby over sa interface	IPI Proprietary	6.0.0	Yes	No	No	Yes	No	No	No	No	No	Yes	No	No
DHCP Relay over MLAG+VRRPv4 + Static route	IPI Proprietary	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Center Bridging (DCB)														
Priority-based Flow Control (PFC) with QoS	IEEE 802.1Qbb	6.2.0	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
DCBX	IEEE 802.1Qaz IEEE 802.1ab 2009	6.2.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Provider Bridging (PB)														
Layer 2 Tunneling Protocol (L2PT)/ Layer 2 Control Protocols (L2CP)	RFC 2661/IEEE 802.1Q (2014)	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Customer VLAN (CVLAN)/ Service tag VLAN (SVLAN) translation (Also supports Untag-Provider Edge Port (PEP)/ Untag-Customer Edge Port (CEP) option)	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVLAN translation (Also supports CVLAN modification option)	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Changing the outer TPID (Tag Protocol Identifier) of provider network port	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remarking COS, Canonical Format Indicator (CFI) for C-Tag and S-Tag at CEP and PNP (Provider Network Port)	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q-in-Q Layer 3 Termination	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other Layer 2 Features														
Bridge Protocol Data Unit (BPDU) Protect	IEEE 802.1d	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Root Guard	IEEE 802.1d	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Media Access Control (MAC) Learning disable	IEEE 802.1q	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static MAC Address Assignment	IEEE 802.1q	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port based authentication with Radius server	IEEE 802.1x	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TFO (Trigger FailOver)	IPI Proprietary	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port Security	IPI Proprietary	1.3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Cross Connect	IPI Proprietary	1.3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Cross Connect with double TAG	IPI Proprietary	1.3.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LACP Force-up	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protected Port on Physical Interface	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC Authentication Bypass	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unidirectional Link Detection (UDLD)	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAYER 3														
Address Resolution Protocol (ARP)														
Ethernet ARP	RFC 826	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Path MTU														
Path Maximum Transmission Unit (MTU) for IPv4 and IPv6	RFC 1191 (obsoletes 1063)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing														
Transmission of Internet Protocol (IP) Datagrams over Ethernet	RFC 894	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Congestion Control in IP/Transmission Control Protocol (TCP) Networks	RFC 896	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Broadcast	RFC 919	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Broadcast in the Presence of Subnets	RFC 922	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Subnetting	RFC 950	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Classless Inter-Domain Routing (CIDR)	RFC 1519	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Requirements for IP Version 4 Routers	RFC 1812	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route Redistribution across RIP, OSPF and BGP	RFC 2328, RFC 4271, RFC 2453	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Routing	NA	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route-Map Continue	IPI Proprietary	1.3.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static Route Discard	IPI Proprietary	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inter Virtual Routing and Forwarding (VRF) Route Leaking	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple Loopback interfaces in same VRF	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static route tracking using object tracking (IP SLA)	IPI Proprietary	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Route Advertisement for IPv6	IPI Proprietary	6.2.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route Monitor	IPI Proprietary	6.4.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UDLD	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
URPF (Unicast Reverse Path Forwarding)														
Loose mode	RFC 3704	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loose default mode	RFC 3704	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Strict mode	RFC 3704	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Border Gateway Protocol (BGP)														
Border Gateway Protocol, Version 4	RFC 4271	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Community Attributes	RFC 1997	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Large Community	RFC 8092	6.0.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Route Flap Dampening	RFC 2439	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Route Reflection	RFC 4456	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Autonomous System (AS) Confederations for BGP	RFC 5065	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Capabilities Negotiation with BGP-4	RFC 5492	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Applications of BGP-4 in the Internet	RFC 1772	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protection of BGP Sessions Via the TCP Message-digest (MD5) Signature Option	RFC 2385	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route Refresh Capability for BGP-4	RFC 2918	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Support for Four-Octet AS Number Space	RFC 4893	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Subcodes for BGP Cease Notifications	RFC 4486	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graceful BGP Session Shutdown	draft-ietf-grow-bgp-gshut-06	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGPv4 MD5 Authentication	RFC 2385	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFDD Trigger for BGP	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Next Hop Tracking	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP - Outbound Route Filter	RFC 5292	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP MIB	RFC 4273	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inter-VRF route leaking for user-defined VRFs	RFC 4364	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Dynamic Peering	IPI Proprietary	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Unnumbered - using extended next hop encoding (ENHE)	RFC 5549	1.3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Peer Groups	IPI Proprietary	3.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Add Path - Advertisement of Multiple Paths in BGP	RFC 7911	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
The Accumulated IGP Metric Attribute for BGP	RFC 7311	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Extended BGP Administrative Shutdown Communication	RFC 9003	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended Optional Parameters Length for BGP OPEN Message	RFC 9072	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP community for IANA (Internet Assigned Numbers Authority) reserved address for blackholing	RFC 7999	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP GR for VPN Address Family	RFC 4724	5.1	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Routing Information Protocol (RIP)														
RIP Version 1	RFC 1058	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIP and RIP Version 2	RFC 2453	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Increment Metrics When Sending Routes, Not When Receiving	RFC 2453	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIP-2 MD5 Authentication	RFC 2082	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open Shortest Path First (OSPF)														
Open Shortest Path First Version 2	RFC 2328	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Applicability statement for OSPF	RFC 1370	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Opaque Link State Advertisements (LSA)	RFC 5250	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Graceful Restart	RFC 3623	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF as PE/CE protocol for BGP/MPLS IP VPN	RFC 4577	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passive Interface Support for OSPFv2	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Multiarea adjacency	RFC 5185	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Not-So-Stubby-Area (NSSA) Option	RFC 3101	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP FRR (Fast Reroute): OSPF-LFA (Loop-Free Alternate)	RFC 5286	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional Forwarding Detection (BFD) Trigger for OSPFv2	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Local Signaling	RFC 2328	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Virtual link	RFC 2328	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Version 3 for IPv6 Support	RFC 5340	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passive Interface Support in OSPFv3	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graceful Restart Mechanism for OSPFv3	RFC 5187	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Trigger for OSPFv3	RFC 5613	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Authentication/Confidentiality for OSPFv3 with IPsec	RFC 4552	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Support For Demand Circuits	RFC 1793	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Stub Router Advertisement	RFC 6987	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intermediate System-Intermediate System (ISIS)														
Use of OSI IS-IS for routing in TCP/IP and dual environments	RFC 1195	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Management Information Base (MIB) for ISIS	RFC 4444	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS-IS Exponential Back-off of SPF (Shortest Path First)	RFC 8541	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Fast Reroute - Loop-Free Alternate for IS-IS	RFC 5286	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional Forwarding Detection (BFD)														
BFD	RFC 5880	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD for IPv4 single hop	RFC 5881	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Generic Application for BFD	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Multi-hop	RFC 5883	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Over BGP / ISIS / OSPF / Static route	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Over Non-default VRF for static (IPv4 and IPv6) and OSPF v2 and v3	RFC 5880,RFC 5882	1.3.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Authentication for MultiHop BFD	RFC 5880	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Virtual Router Redundancy Protocol (VRRP)														
VRRP Version 3 for IPv4	RFC 5798	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP Version 3 for IPv6	RFC 5798	4.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP Interface Tracking	IPI proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP Object Tracking	IPI proprietary	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MULTI-PROTOCOL LABEL SWITCHING (MPLS)														
MPLS - General														
MPLS Architecture	RFC 3031	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
MPLS Label Stack Encoding	RFC 3032	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks	RFC 3443	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
MPLS Diffserv	RFC 3270	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Multiprotocol Label Switching (MPLS) Label Switching Router (LSR) Management Information Base (MIB)	RFC 3813	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Multiprotocol Label Switching (MPLS) Forwarding Equivalence Class to Next Hop Label Forwarding Entry (FEC-To-NHLFE) Management Information Base (MIB)	RFC 3814	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Label Distribution Protocol (LDP)														
LDP	RFC 5036	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
LDP Applicability	RFC 3037	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Support for LDP TCP-MD5	RFC 5036	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Definitions of Managed Objects for the MPLS and LDP	RFC 3815	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
LDP Downstream-on-Demand (DoD) in Seamless MPLS	RFC 7032	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
LDP Extension for Inter-Area Label Switched Paths (LSPs)	RFC 5283	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
LDP Graceful Restart	RFC 3478	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
LDP Session Protection	RFC 8223	5.1 MR	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Resource Reservation Protocol (RSVP)														
RSVPv1	RFC 2205	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVP Refresh Overhead Reduction Extensions	RFC 2961	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Fast Reroute Extensions to RSVP-TE for LSP Tunnels One-to-One Backup	RFC 4090	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Fast Reroute Extensions to RSVP-TE for LSP Tunnels - Facility Backup	RFC 4090	6.3.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVPv1 message processing rules	RFC 2209	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVP re-optimization	IPI Proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB)	RFC 3812	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVP multiple secondary	IPI Proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVP Shared Risk Link-Group (SRLG) support (Supported for OSPFv2 only)	RFC 4203 (Section 1.3)	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVP MIB	RFC 2206	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
RSVP Graceful Restart	RFC 3473	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Layer 2 VPN (VPWS and VPLS)														
Pseudowire Setup and Maintenance using the Label Distribution Protocol	RFC 4447	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Virtual Private Wire Service (VPWS) ethernet encapsulation mapping(Service Mapping) 1> Outer tag Match 2> Outer and inner tag Match 3> Outer tag range Match 4> Untag	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
VPLS ethernet encapsulation mapping(Service Mapping) 1> Outer tag Match 2> Outer and inner tag Match 3> Outer tag range Match 4> Untag	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
VPWS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
VPLS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag	IPI Proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Multiple match criteria for VPWS Ethernet Encapsulation using Service Template	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Multiple match criteria for VPLS Ethernet Encapsulation using Service Template	IPI Proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Encapsulation Methods for Transport of Ethernet Over MPLS Networks	RFC 4448	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Static VPLS	IPI Proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling	RFC 4762	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Virtual Private LAN Service (VPLS) Using BGP for signaling and auto-discovery	RFC 4761	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Static pseudowire Setup and Maintenance	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Pseudowire MIB support	RFC 5601	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Pseudowire (PW) over MPLS PSN (Packet Switched Network) Management Information Base (MIB)	RFC 5602	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Ethernet Pseudowire (PW) Management Information Base (MIB)	RFC 5603	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Layer 3 VPN														
Extranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4364	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
OSPF as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4577	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Intranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4364	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Static route as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4364	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
BGP-MPLS IP Virtual Private Network (VPN) Extension for IPv6 VPN (6vPE)	RFC 4659	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE)	RFC 4798	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Label Disposition for VPNv4 and 6VPE	RFC 4364,RFC 4659	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Label Disposition for 6PE	RFC 4798	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Inter AS option A support for L3PVN/6VPE/6PE	RFC 4364,RFC 4659,RFC 4798	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Inter AS option B support for L3PVN/6VPE/6PE	RFC 4364,RFC 4659,RFC 4798	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
PER VRF Label support for 6PE	IPI proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
BGP Peer Group - static	IPI proprietary	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Internet access for L3VPN	RFC 4365 section 10.1	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
L3VPN MIB	RFC 4382	5.0	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
MPLS OAM														
OAM for MPLS networks	RFC 4377	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
A framework for MPLS OAM	RFC 4378	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Detecting MPLS Data Plane Failures	RFC 4379	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
MPLS PW and LSP Traffic Statistics														
Stats per Label Switched Path (LSP)	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Stats per Virtual Circuit (VC)	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
L2VPN Statistics MIB	IPI Proprietary	4.2	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
CARRIER ETHERNET														
Connectivity Fault Management (CFM)														
Maintenance Domain (MD), Maintenance Association (MA), Maintenance domain Intermediate Point (MIP), Down Maintenance association End Point (MEP)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Continuity check (multicast CCM)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ping (unicast)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link trace	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fault reporting (RDI, MAC Status defect, CCM Cross Connect Defect, Error CCM Defect)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CFM over Layer 2 Bridge with xSTP	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CFM over xConnect	IEEE 802.1ag - 2007	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CFM over PB	IEEE 802.1ag - 2007	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet Ring Protection (ERPS)														
ERPS over CFM on Provider/Customer domain	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sub-ring support (Multiple ring and ladder topologies)	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Support of multiple ERP Instances on single ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Over Native-L2	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Over LAG interface	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
With CFM (for link fault detection)	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Separate Control and Data-VLAN	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple major ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple Sub-ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sub-ring with virtual channel	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
Sub-ring without virtual channel	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple instances over same physical ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Revertive Mode	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet in the First Mile (EFM)														
Ether OAM (EFM)	IEEE 802.3ah	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VIRTUAL EXTENSIBLE LAN (VXLAN)														
Virtual Extensible LAN (VxLAN) - General														
Layer 2 EVPN for VXLAN	RFC 7348, RFC 7432, RFC 8365	1.1.10	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Layer 2 EVPN Auto RT for VXLAN	RFC 8365	6.0.0	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Layer 2 EVPN Multihoming for VXLAN	RFC 7432, RFC 8365	1.3.4	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VxLAN EVPN with BGP unnumbered	IPI proprietary	4.2	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
EVPN VXLAN- L2CP on EVPN Access	IPI proprietary	6.1.0	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN - QoS	RFC 2474	4.2	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN - Ethernet Virtual Connection (EVC)	RFC 7348	1.3.4	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Integrated Routing and Bridging (IRB) with VXLAN	RFC 9135	5.1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Selectively Enabling Multiple IP addresses on IRB Interface for Anycast-gateway		6.3.1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN IRB QoS	RFC 2474	5.1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Prefix Route for EVPN IRB for VxLAN	RFC 9136	5.1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN EVPN ARP/ND cache Ageing	draft-ietf-bess-evpn-proxy-arp-nd-02	1.3.5	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Inter-VRF route leaking over VXLAN-EVPN	RFC 9135, RFC 4364	5.1	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
IPv4 and IPv6 DHCP Relay for VxLAN IRB	RFC 6607	5.1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN tunnel over SVI interface	RFC 8365	5.0	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
SNMP support for VXLAN statistics and traps	IPI proprietary	4.2	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
Static VXLAN	RFC 7348	5.0	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN Trunk as access port	RFC 7348	5.0	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
VXLAN - Overlay Equal-Cost Multipath (ECMP)	RFC 7348	5.1	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
IRB support for advertising host routes	RFC 9135, RFC 9136	6.2.0	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
SPAN support for port+(VLAN/VLAN-range)	IPI proprietary	6.4.1	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
OSPF and ISIS support on an IRB Interface(SH)	RFC 9135, RFC 9136	6.4.1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
OSPFv2 and ISISv4 support on IRB interface(MH)	RFC 9135, RFC 9136	6.4.2	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No
MAC movement detection based on L2 traffic	RFC 7432	6.4.1	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No

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Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
MULTICAST														
Protocol Independent Multicast (PIM)														
PIM - Sparse Mode (PIM-SM)	RFC 4601	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bootstrap Router (BSR) Mechanism for PIM	RFC 5059	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static Rendezvous Point Configuration	RFC4601 and RFC 5015	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)	RFC 3973	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIM - Source Specific Multicast	RFC 4607	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast Source Discovery Protocol (MSDP)	RFC 3618	4.0	Yes	No	No	No	No	No	No	No	No	No	No	No
Support for More than 32 PIM Interfaces	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Source-Specific Multicast for IP	RFC 4607	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Source-Specific Protocol-Independent Multicast in 232/8	RFC 4608	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overview of Source-Specific Multicast (SSM)	RFC 3569	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional Forwarding Detection (BFD) Trigger for PIM	RFC 5882	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIM MIB for IPv4	RFC 5060	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Group To RP Mapping	RFC 6226	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Anycast-RP Using Protocol Independent	RFC 4610	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIM ECMP IPv4	RFC6754	6.1.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internet Group Management Protocol (IGMP)														
IGMP, Version 2	RFC 2236	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP, Version 3	RFC 3376	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP report suppression for v1, v2 and v3	RFC 4541	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Considerations for IGMP Snooping Switches	RFC 4541	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP-based Multicast Forwarding ("IGMP Proxying")	RFC 4605	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUALITY OF SERVICE (QoS)														
QoS - General														
DiffServ Field in IPv4/IPv6 Headers	RFC 2474	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Assign matching traffic flow to a specific queue	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 2 and Layer 3 QoS	IEEE 802.1p, RFC 2474	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shaping per queue, per port	RFC 3644	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple hardware queues per port	IEEE 802.1p, RFC 2474	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
Weighted Round Robin (WRR)/ Weighted Fair Queueing (WFQ)/ Strict Priority (SP) Scheduling Per Queue	RFC 4594	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Weighted Random Early Detection (WRED)	RFC 2309	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1p remarking	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Classification based on interface, ACL, DSCP, IP precedence, RTP, 802.1p, and VLAN	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Trust IEEE 802.1p/DSCP	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remarking of bridged packets	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Police Rate (SRTCM/TRTCM)	RFC 2697, RFC 4115	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Minimum and Maximum Bandwidth Per Queue	RFC 3644	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Explicit Congestion Notification	RFC 3168	1.3.8	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QoS Class map statistics	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Egress Q statistics	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP SLA (ICMP Echo)	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ToS Based queue distribution over Layer 2 Interface	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MANAGEMENT														
Management - General														
Role based CLI management and access	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI access via console, telnet (IPv4 and IPv6) and SSH (IPv4 and IPv6)	RFC-4251, RFC-4252, RFC-4253, RFC-4254	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI commit rollback	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Authentication using TACACS+/radius client (IPv4 and IPv6)	Radius - RFC 2866, Tacacs+- RFC 8907	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended ping and traceroute	Linux APIs	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP v1, v2, and v3 (IPv4 and IPv6)	RFC-1157	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP: support for multiple instances of SNMP MIB-v2, and v3	RFC 1910 , RFC 3411	5.1 MR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sFlow	RFC 3176	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error Disable	IPI Proprietary	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Debounce Timer	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Server (IPv4 and IPv6)	RFC 2131 - basic support	6.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP client (IPv4 and Ipv6)	RFC-8415, RFC-2131 - basic support	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
DHCP relay (IPv4 and IPv6)	RFC-3046- basic support	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP group (IPv4 and IPv6)	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NTP Client (IPv4 and IPv6)	RFC 5905	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Syslog (IPv4 and IPv6)	RFC-3164	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
File Upload/Download using File Transfer Protocol (FTP)/ Trivial File Transfer Protocol (TFTP)/ SSH/ Secure File Transfer Protocol (SFTP)/ Secure Copy Protocol (SCP)	Linux APIs	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Management VRF	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing Protocols in Management VRF (RIP, RIPng, OSPF, and ISIS)	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ansible	Not Applicable	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Upgrade Mechanism from ONIE prompt using onie nos install and from OcNOS shell using sys-update	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL support over Management, VTY and Loopback	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Licensing (IPv4 and IPv6)	IPI Proprietary	1.3.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zero Touch Provisioning (ZTP)(with IPv4)	RFC 8572	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zero Touch Provisioning (ZTP) (with IPv6)	RFC 8572	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Snooping over MLAG	RFC 7513	1.3.9	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCPv6 Prefix Delegation	RFC3633 – Partial	1.3.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP-Option 82 (IPv4)	RFC 3046	6.2.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Storing Multiple images on Platform	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fault Management System	IPI Proprietary	5.1	Yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
DHCP Relay across VRFs	IPI Proprietary	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Network Configuration Protocol (NETCONF)														
YANG 1.0 Data Modelling Language	RFC 6020	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Protocol	RFC 6241	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Protocol over Secure Shell (SSH)	RFC 6242	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Protocol over Transport Layer Security (TLS)	RFC 5246	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Event Notifications	RFC 5277	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
YANG Module for NETCONF Monitoring	RFC 6022	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Base Notifications	RFC 6470	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
YANG 1.1 Data Modeling Language	RFC 7950	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Access Control Model	RFC 8341	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
Multiple simultaneous config session for CLI	IPI Proprietary	5.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transaction based CLI	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
With-defaults trim		6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Netconf Call Home	RFC 8071	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Streaming Telemetry														
gNMI Subscribe	gNMI Spec v 0.10.0	6.4.1	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
SECURITY														
Security - General														
Storm control	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flow control	IEEE 802.3x	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Snooping	RFC 7513	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Access Control Lists (ACLs)														
Source IP address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Destination IP address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP/UDP source port	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP/UDP destination port	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP protocol type	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Source MAC address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Destination MAC address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethertype	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP Flags, Protocol type, IP fragment flags, DSCP, CoS, IP precedence	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rule prioritization and Re sequence	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
On-fly modification	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL per rule statistics	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Timed ACL	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ARP ACL	IPI Proprietary	6.3.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HARDWARE-SPECIFIC FEATURES														
Hardware-Specific Features - General														
Switched port analyzer (SPAN)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote switched port analyzer (RSPAN)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unified Forwarding Table (UFT)	IPI Proprietary	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Load balance	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic load balancing (RTAG7 hash)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PHY/MAC level interface loopback	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCAM space monitoring	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

For details on features supported per platform, refer to [Features by Platform](#)

Feature Name	Standard	DC First Version Supported	OCNOS_DC_MGMT-120	OCNOS-DC-IPBASE-120	OCNOS-DC-IPBASE-1080	OCNOS-DC-IPBASE-2000	OCNOS-DC-IPBASE-3200	OCNOS-DC-IPBASE-6400	OCNOS-DC-IPBASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
CHASSIS MONITORING														
Chassis Monitoring - General														
Temperature monitor	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fan control	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Monitoring	PMBus	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CPU load monitoring	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Board information (EEPROM)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply Unit (PSU) Field Replacement Unit (FRU) information	IPI Proprietary	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fan FRU information (EEPROM)	IPI Proprietary	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hardware MIB and Traps	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PORT BREAKOUT														
100G Port Breakout into 4X10G	IPI Proprietary	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
100G Port Breakout into 4X25G	IPI Proprietary	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
100G Port Breakout into 2X50G	IPI Proprietary	4.2	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
400G Port Breakout	IPI Proprietary	6.4.1	No	No	No	No	No	No	Yes	Yes	No	No	No	No
DIGITAL DIAGNOSTICS MONITORING (TRANSCEIVER)														
Digital Diagnostics Monitoring (Transceiver) - General														
Temperature monitor	SFF-8024, SFF-8436, SFF-8472, SFF-8679	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Monitoring (Power, Current, Voltage)	SFF-8024, SFF-8436, SFF-8472, SFF-8679	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hardware MIB and Traps	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Platforms	OCNOS-DC-MG-MT-120	OCNOS-DC-IP-BASE-120	OCNOS-DC-IP-BASE-1080	OCNOS-DC-IP-BASE-2000	OCNOS-DC-IP-BASE-3200	OCNOS-DC-IP-BASE-6400	OCNOS-DC-IP-BASE-12800	OCNOS-DC-PLUS-12800	OCNOS-DC-MPLS-1080	OCNOS-DC-MPLS-2000	OCNOS-DC-MPLS-3200	OCNOS-DC-MPLS-6400
Celestica DX030 [TR3-X7]	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
Dell S5296F-ON [TR3-X7]	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
Delta AG-9032V1 [TH]	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
Delta AG-9032V2 [TR3-X7]	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
Edgecore AS5835-54X [TR3-X5]	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗
Edgecore AS5835-54T [TR3-X5]	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗
Edgecore AS7326-56x [TR3-X7]	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗
Edgecore AS7726-32X [TR3-X7]	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
Edgecore AS7712-32X [TH]	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
Edgecore AS7816-64x [TH2]	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓
Edgecore AS9716-32D [TH3]	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗
UfiSpace S6301-56ST [TR3-X2]	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
UFISpace S8901-54XC [TR3-X5]	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗
Celestica DS1000 [TR3-X2]	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗

Feature Name	Standard	DC First Version Supported	UfiSpace		Edgecore						Celestica		Dell	Delta Agema		
			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
LAYER 1																
xConnect	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
xConnect Resiliency	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
LAYER 2																
Virtual Local Area Network (VLAN)																
Virtual LANs with Port-based VLANs	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routed VLAN interface	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port based VLAN interface	IEEE 802.1Q (2005)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Private VLAN	IEEE 802.1Q (2005)	1.0.0	Yes	No	Yes	Yes	No	No	No	No	No	Yes	No	No	Yes	No
Spanning Tree Protocol (STP)																
STP	IEEE 802.1D (2004)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple Spanning Tree Protocol (MSTP)	IEEE 802.1Q (2005): Clause 13	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rapid Spanning Tree (RSTP)	IEEE 802.1D (2004): Clause 17	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rapid Per VLAN Spanning Tree (RPVST+)	Cisco Proprietary	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Layer Discovery Protocol (LLDP)																
LLDP v2	IEEE 802.1ab 2009	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Aggregation																
Link Aggregation Control Protocol (LACP)	IEEE802.3ad-2002	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static link aggregation group	IEEE802.3ad-2002	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Chassis Link Aggregation (Layer 2 only)																
Multi-Chassis Link Aggregation (MLAG)	IPI Proprietary	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG with RSTP																
MLAG Active/Active over po interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG Active/Active over sa interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG Active/Standby over sa interface	IPI Proprietary	6.0.0	Yes	No	No	No	No	No	No	No	No	Yes	No	No	No	No
Protected Port on MLAG with RSTP																
Protected Port on MLAG+RSTP Active/Active over po interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protected Port on MLAG+RSTP Active/Active over SA interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG + Provider Bridging (PB) with RSTP																
MLAG+PB Active/Active over po interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Feature Name	Standard	DC First Version Supported	UfiSpace		Edgecore						Celestica		Dell	Delta Agema		
			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
MLAG+PB Active/Active over sa interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+PB Active/Standby over sa interface	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+VRRPv4 with RSTP																
MLAG+VRRPv4 Active/Active over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + Static route	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+VRRPv4 Active/Active over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + EBGP	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLAG+VRRPv4 Active/Standby over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + Static route	IPI Proprietary	6.0.0	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	No	No	No	No
MLAG+VRRPv4 Active/Standby over po interface + VRRPv4 (VMAC enabled) + VRRPv4 with Non-Owner (VRRP Virtual-IP is unique) + EBGP	IPI Proprietary	6.0.0	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	No	No	No	No
MLAG+VRRPv4 Active/Active over sa interface	IPI Proprietary	6.0.0	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	No	No	No	No
MLAG+VRRPv4 Active/Standby over sa interface	IPI Proprietary	6.0.0	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	No	No	No	No
DHCP Relay over MLAG+VRRPv4 + Static route	IPI Proprietary	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Center Bridging (DCB)																
Priority-based Flow Control (PFC) with QoS	IEEE802.1Qbb	6.2.0	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DCBX	IEEE 802.1Qaz IEEE 802.1ab 2009	6.2.0	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Provider Bridging (PB)																
Layer 2 Tunneling Protocol (L2PT)/ Layer 2 Control Protocols (L2CP)	RFC 2661/IEEE 802.1Q (2014)	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Customer VLAN (CVLAN)/ Service tag VLAN (SVLAN) translation (Also supports Untag-Provider Edge Port (PEP)/ Untag-Customer Edge Port (CEP) option)	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVLAN translation (Also supports CVLAN modification option)	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Changing the outer TPID (Tag Protocol Identifier) of provider network port	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remarking COS, Canonical Format Indicator (CFI) for C-Tag and S-Tag at CEP and PNP (Provider Network Port)	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q-in-Q Layer 3 Termination	IEEE 802.1ad	1.3.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Feature Name	Standard	DC First Version Supported	UfiSpace			Edgecore						Celestica		Dell	Delta Agema	
			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
Other Layer 2 Features																
Bridge Protocol Data Unit (BPDU) Protect	802.1d	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Root Guard	802.1d	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Media Access Control (MAC) Learning disable	802.1q	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static MAC Address Assignment	802.1q	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port based authentication with Radius server	IEEE 802.1x	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TFO (Trigger FailOver)	IPI Proprietary	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port Security	IPI Proprietary	1.3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Cross Connect	IPI Proprietary	1.3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Cross Connect with double TAG	IPI Proprietary	1.3.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LACP Force-up	IPI Proprietary	4.2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Protected Port on Physical Interface	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC Authentication Bypass	IPI Proprietary	5.0	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Unidirectional Link Detection (UDLD)	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAYER 3																
Address Resolution Protocol (ARP)																
Ethernet ARP	RFC 826	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Path MTU																
Path Maximum Transmission Unit (MTU) for IPv4 and IPv6	RFC 1191 (obsoletes 1063)	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing																
Transmission of Internet Protocol (IP) Datagrams over Ethernet	RFC 894	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Congestion Control in IP/Transmission Control Protocol (TCP) Networks	RFC 896	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Broadcast	RFC 919	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Broadcast in the Presence of Subnets	RFC 922	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Subnetting	RFC 950	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Classless Inter-Domain Routing (CIDR)	RFC 1519	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Requirements for IP Version 4 Routers	RFC 1812	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route Redistribution across RIP, OSPF and BGP	RFC 2328,RFC 4271,RFC 2453	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Routing	NA	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route-Map Continue	IPI proprietary	1.3.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
Static Route Discard	IPI proprietary	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inter Virtual Routing and Forwarding (VRF) Route Leaking	IPI proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiple Loopback interfaces in same VRF	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Static route tracking using object tracking (IP SLA)	IPI Proprietary	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Route Advertisement for IPv6	IPI Proprietary	6.2.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Route Monitor	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unidirectional Link Detection (UDLD) for L3	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
URPF (Unicast Reverse Path Forwarding)																
Loose mode	RFC 3704	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loose default mode	RFC 3704	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Strict mode	RFC 3704	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Border Gateway Protocol (BGP)																
Border Gateway Protocol, Version 4	RFC 4271	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Community Attributes	RFC 1997	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Large Community	RFC 8092	6.0.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
BGP Route Flap Dampening	RFC 2439	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Route Reflection	RFC 4456	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Autonomous System (AS) Confederations for BGP	RFC 5065	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Capabilities Negotiation with BGP-4	RFC 5492	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Applications of BGP-4 in the Internet	RFC 1772	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protection of BGP Sessions Via the TCP Message-digest (MD5) Signature Option	RFC 2385	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Route Refresh Capability for BGP-4	RFC 2918	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Support for Four-Octet AS Number Space	RFC 4893	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Subcodes for BGP Cease Notifications	RFC 4486	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graceful BGP Session Shutdown	draft-ietf-grow-bgp-gshut-06	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGPv4 MD5 Authentication	RFC 2385	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Trigger for BGP	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Next Hop Tracking	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP - Outbound Route Filter	RFC 5292	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP MIB	RFC 4273	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inter-VRF route leaking for user-defined VRFs	RFC 4364	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
BGP Dynamic Peering	IPI Proprietary	1.3.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Unnumbered – using extended next hop encoding (ENHE)	RFC 5549	1.3.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Peer Groups	IPI Proprietary	3.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BGP Add Path - Advertisement of Multiple Paths in BGP	RFC 7911	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No
The Accumulated IGP Metric Attribute for BGP	RFC 7311	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Extended BGP Administrative Shutdown Communication	RFC 9003	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Extended Optional Parameters Length for BGP OPEN Message	RFC 9072	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
BGP community for IANA (Internet Assigned Numbers Authority) reserved address for blackholing	RFC 7999	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
BGP GR for VPN Address Family	RFC 4724	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Routing Information Protocol (RIP)																
RIP Version 1	RFC 1058	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIP and RIP Version 2	RFC 2453	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Increment Metrics When Sending Routes, Not When Receiving	RFC 2453	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIP-2 MD5 Authentication	RFC 2082	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open Shortest Path First (OSPF)																
Open Shortest Path First Version 2	RFC 2328	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Applicability statement for OSPF	RFC 1370	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Opaque Link State Advertisements (LSA)	RFC 5250	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Graceful Restart	RFC 3623	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF as PE/CE protocol for BGP/MPLS IP VPN	RFC 4577	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passive Interface Support for OSPFv2	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Multiarea adjacency	RFC 5185	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF Not-So-Stubby-Area (NSSA) Option	RFC 3101	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP FRR (Fast Reroute): OSPF-LFA (Loop-Free Alternate)	RFC 5286	4.2	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Bidirectional Forwarding Detection (BFD) Trigger for OSPFv2	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Local Signaling	RFC 2328	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Virtual link	RFC 2328	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
OSPF Version 3 for IPv6 Support	RFC 5340	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Passive Interface Support in OSPFv3	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graceful Restart Mechanism for OSPFv3	RFC 5187	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Trigger for OSPFv3	RFC 5613	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Authentication/Confidentiality for OSPFv3 with IPsec	RFC 4552	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
OSPF Support For Demand Circuits	RFC 1793	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
OSPF Stub Router Advertisement	RFC 6987	6.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Intermediate System-Intermediate System (ISIS)																
Use of OSI IS-IS for routing in TCP/IP and dual environments	RFC 1195	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Management Information Base (MIB) for ISIS	RFC 4444	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS-IS Exponential Back-off of SPF (Shortest Path First)	RFC 8541	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Fast Reroute - Loop-Free Alternate for IS-IS	RFC 5286	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Bidirectional Forwarding Detection (BFD)																
BFD	RFC 5880	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD for IPv4 single hop	RFC 5881	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Generic Application for BFD	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Multi-hop	RFC 5883	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Over BGP / ISIS / OSPF / Static route	RFC 5882	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Over Non-default VRF for static (IPv4 and IPv6) and OSPF v2 and v3	RFC 5880, RFC 5882	1.3.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BFD Authentication for MultiHop BFD	RFC 5880	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Virtual Router Redundancy Protocol (VRRP)																
VRRP Version 3 for IPv4	RFC 5798	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP Version 3 for IPv6	RFC 5798	4.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP Interface Tracking	IPI proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP Object Tracking	IPI proprietary	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
MULTI-PROTOCOL LABEL SWITCHING (MPLS)																
MPLS - General																
MPLS Architecture	RFC 3031	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
MPLS Label Stack Encoding	RFC 3032	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks	RFC 3443	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

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			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
MPLS Diffserv	RFC 3270	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiprotocol Label Switching (MPLS) Label Switching Router (LSR) Management Information Base (MIB)	RFC 3813	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiprotocol Label Switching (MPLS) Forwarding Equivalence Class to Next Hop Label Forwarding Entry (FEC-To-NHLFE) Management Information Base (MIB)	RFC 3814	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Label Distribution Protocol (LDP)																
LDP	RFC 5036	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
LDP Applicability	RFC 3037	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Support for LDP TCP-MD5	RFC 5036	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Definitions of Managed Objects for the MPLS and LDP	RFC 3815	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
LDP Downstream-on-Demand (DoD) in Seamless MPLS	RFC 7032	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
LDP Extension for Inter-Area Label Switched Paths (LSPs)	RFC 5283	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
LDP Graceful Restart	RFC 3478	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
LDP Session Protection	RFC 8223	5.1 MR	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Resource Reservation Protocol (RSVP)																
RSVPv1	RFC 2205	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVP Refresh Overhead Reduction Extensions	RFC 2961	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Fast Reroute Extensions to RSVP-TE for LSP Tunnels One-to-One Backup	RFC 4090	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Fast Reroute Extensions to RSVP-TE for LSP Tunnels - Facility Backup	RFC 4090	6.3.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVPv1 message processing rules	RFC 2209	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVP re-optimization	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB)	RFC 3812	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVP multiple secondary	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVP Shared Risk Link-Group (SRLG) support (Supported for OSPFv2 only)	RFC 4203 (Section 1.3)	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVP MIB	RFC 2206	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RSVP Graceful Restart	RFC 3473	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

Feature Name	Standard	DC First Version Supported	UfiSpace		Edgecore						Celestica		Dell	Delta Agema		
			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
Layer 2 VPN (VPWS and VPLS)																
Pseudowire Setup and Maintenance using the Label Distribution Protocol	RFC 4447	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Virtual Private Wire Service (VPWS) ethernet encapsulation mapping (Service Mapping) 1> Outer tag Match 2> Outer and inner tag Match 3> Outer tag range Match 4> Untag	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
VPLS ethernet encapsulation mapping (Service Mapping) 1> Outer tag Match 2> Outer and inner tag Match 3> Outer tag range Match 4> Untag	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
VPWS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
VPLS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiple match criteria for VPWS Ethernet Encapsulation using Service Template	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiple match criteria for VPLS Ethernet Encapsulation using Service Template	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Encapsulation Methods for Transport of Ethernet Over MPLS Networks	RFC 4448	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Static VPLS	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling	RFC 4762	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Virtual Private LAN Service (VPLS) Using BGP for signaling and auto-discovery	RFC 4761	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Static pseudowire Setup and Maintenance	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Pseudowire MIB support	RFC 5601	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Pseudowire (PW) over MPLS PSN (Packet Switched Network) Management Information Base (MIB)	RFC 5602	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ethernet Pseudowire (PW) Management Information Base (MIB)	RFC 5603	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

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			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
Layer 3 VPN																
Extranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4364	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
OSPF as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4577	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Intranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4364	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Static route as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)	RFC 4364	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
BGP/MPLS IP Virtual Private Network (VPN) Extension for IPv6 VPN (6vPE)	RFC 4659	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE)	RFC 4798	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Label Disposition for VPNv4 and 6VPE	RFC 4364,RFC 4659	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Label Disposition for 6PE	RFC 4798	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Inter AS option A support for L3PVN/6VPE/6PE	RFC 4364,RFC 4659,RFC 4798	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Inter AS option B support for L3PVN/6VPE/6PE	RFC 4364,RFC 4659,RFC 4798	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
PER VRF Label support for 6PE	IPI proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
BGP Peer Group - static	IPI proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Internet access for L3VPN	RFC 4365 section 10.1	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
L3VPN MIB	RFC 4382	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
MPLS OAM																
OAM for MPLS networks	RFC 4377	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
A framework for MPLS OAM	RFC 4378	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Detecting MPLS Data Plane Failures	RFC 4379	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
MPLS PW and LSP Traffic Statistics																
Stats per Label Switched Path (LSP)	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Stats per Virtual Circuit (VC)	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
L2VPN Statistics MIB	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

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			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
CARRIER ETHERNET																
Connectivity Fault Management (CFM)																
Maintenance Domain (MD), Maintenance Association (MA), Maintenance domain Intermediate Point (MIP), Down Maintenance association End Point (MEP)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Continuity check (multicast CCM)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ping (unicast)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Link trace	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Fault reporting (RDI, MAC Status defect, CCM Cross Connect Defect, Error CCM Defect)	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
CFM over Layer 2 Bridge with xSTP	IEEE 802.1ag - 2007	1.0.0 ED1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
CFM over xConnect	IEEE 802.1ag - 2007	5.1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
CFM over PB	IEEE 802.1ag - 2007	5.1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ethernet Ring Protection (ERPS)																
ERPS over CFM on Provider/Customer domain	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Sub-ring support (Multiple ring and ladder topologies)	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Support of multiple ERP Instances on single ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Over Native-L2	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Over LAG interface	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
With CFM (for link fault detection)	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Separate Control and Data-VLAN	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiple major ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiple Sub-ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Sub-ring with virtual channel	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Sub-ring without virtual channel	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multiple instances over same physical ring	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Revertive Mode	ITU-T G.8032v2	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ethernet in the First Mile (EFM)																
Ether OAM (EFM)	IEEE 802.3ah	5.1	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

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			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]	
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200	
VIRTUAL EXTENSIBLE LAN (VXLAN)																	
Virtual Extensible LAN (VxLAN) - General																	
Layer 2 EVPN for VXLAN	RFC 7348, RFC 7432, RFC 8365	1.1.10	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Layer 2 EVPN Auto RT for VXLAN	RFC 8365	6.0.0	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Layer 2 EVPN Multihoming for VXLAN	RFC 7432, RFC 8365	1.3.4	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VxLAN EVPN with BGP unnumbered	IPI proprietary	4.2	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
EVPN VXLAN- L2CP on EVPN Access	IPI proprietary	6.1.0	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VXLAN - QoS	RFC 2474	4.2	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VXLAN - Ethernet Virtual Connection (EVC)	RFC 7348	1.3.4	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Integrated Routing and Bridging (IRB) with VXLAN	RFC 9135	5.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
Selectively enabling multiple IP addresses on IRB interface for anycast-gateway	RFC 9135	6.3.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
VXLAN IRB QoS	RFC 2474	5.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
Prefix Route for EVPN IRB for VxLAN	RFC 9136	5.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
VXLAN EVPN ARP/ND cache Ageing	draft-ietf-bess-evpn-proxy-arp-nd-02	1.3.5	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Inter-VRF route leaking over VXLAN-EVPN	RFC 9135, RFC 4364	5.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
IPv4 and IPv6 DHCP Relay for VxLAN IRB	RFC 6607	5.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
VXLAN tunnel over SVI interface	RFC8365	5.0	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SNMP support for VXLAN statistics and traps	IPI proprietary	4.2	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Static VXLAN	RFC 7348	5.0	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VXLAN Trunk as access port	RFC 7348	5.0	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VXLAN - Overlay Equal-Cost Multipath (ECMP)	RFC 7348	5.1	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	
IRB support for advertising host routes	RFC 9135, RFC 9136	6.2	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
SPAN support for port+(VLAN/VLAN-range)	IPI proprietary	6.4.1	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
OSPFv2 and ISISv4 support on IRB interface	RFC 9135, RFC 9136	6.4.1	No	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
MAC movement detection based on L2 traffic	RFC 7432	6.4.1	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	
MULTICAST																	
Protocol Independent Multicast (PIM)																	
PIM - Sparse Mode (PIM-SM)	RFC 4601	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bootstrap Router (BSR) Mechanism for PIM	RFC 5059	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Static Rendezvous Point Configuration	RFC4601 and RFC 5015	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)	RFC 3973	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PIM - Source Specific Multicast	RFC 4607	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast Source Discovery Protocol (MSDP)	RFC 3618	4.0	Yes	No	No	No	No	No	No	No	No	Yes	No	No	No	No
Support for More than 32 PIM Interfaces	IPI proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Source-Specific Multicast for IP	RFC 4607	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Source-Specific Protocol-Independent Multicast in 232/8	RFC 4608	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overview of Source-Specific Multicast (SSM)	RFC 3569	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bidirectional Forwarding Detection (BFD) Trigger for PIM	RFC 5882	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
PIM MIB for IPv4	RFC 5060	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Group To RP Mapping	RFC 6226	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Anycast-RP Using Protocol Independent	RFC 4610	1.0.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
PIM ECMP IPv4	RFC 6754	6.1.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Internet Group Management Protocol (IGMP)																
IGMP, Version 2	RFC 2236	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP, Version 3	RFC 3376	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP report suppression for v1, v2 and v3	RFC 4541	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Considerations for IGMP Snooping Switches	RFC 4541	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP-based Multicast Forwarding ("IGMP Proxying")	RFC 4605	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUALITY OF SERVICE (QoS)																
QoS - General																
DiffServ Field in IPv4/IPv6 Headers	RFC 2474	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Assign matching traffic flow to a specific queue	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 2 and Layer 3 QoS	IEEE 802.1p, RFC 2474	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shaping per queue, per port	RFC 3644	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple hardware queues per port	IEEE 802.1p, RFC 2474	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Weighted Round Robin (WRR)/ Weighted Fair Queueing (WFQ)/ Strict Priority (SP) Scheduling Per Queue	RFC 4594	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Weighted Random Early Detection (WRED)	RFC 2309	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
802.1p remarking	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Classification based on interface, ACL, DSCP, IP precedence, RTP, 802.1p, and VLAN	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Trust IEEE 802.1p/DSCP	RFC 2475	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remarking of bridged packets	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Police Rate (SRTCM/TRTCM)	RFC 2697, RFC 4115	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Minimum and Maximum Bandwidth Per Queue	RFC 3644	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Explicit Congestion Notification	RFC 3168	1.3.8	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
QoS Class map statistics	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Egress Q statistics	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP SLA (ICMP Echo)	IPI Proprietary	5.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
ToS Based queue distribution over Layer 2 Interface	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MANAGEMENT																
Management - General																
Role based CLI management and access	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI access via console, telnet (IPv4 and IPv6) and SSH (IPv4 and IPv6)	RFC-4251, RFC-4252, RFC-4253, RFC-4254	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI commit rollback	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Authentication using TACACS+/radius client (IPv4 and IPv6)	Radius - RFC 2866, Tacacs+ - RFC 8907	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended ping and traceroute	Linux APIs	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP v1, v2, and v3 (IPv4 and IPv6)	RFC-1157	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP: support for multiple instances of SNMP MIB- v2, and v3	IPI Proprietary	5.1 MR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sFlow	RFC-3176	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error Disable	IPI Proprietary	1.3.4	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Debounce Timer	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Server (IPv4 and IPv6)	IPI Proprietary	6.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP client (IPv4 and Ipv6)	RFC-8415, RFC-2131	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP relay (IPv4 and IPv6)	RFC-3046	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP group (IPv4 and IPv6)	IPI Proprietary	6.4.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NTP Client (IPv4 and IPv6)	RFC 5905	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			S6301-56ST [TR3-X2]	S8901-54XC [TR3-X5]	AS7712-32X [TH]	AS7816-64x [TH2]	AS9716-32D [TH3]	AS5835-54X [TR3-X5]	AS5835-54T [TR3-X5]	AS7326-56x [TR3-X7]	AS7726-32X [TR3-X7]	DS1000 [TR3-X2]	DX030 [TR3-X7]	S5296F-ON [TR3-X7]	AG9032V1 [TH]	AG9032V2 [TR3-X7]
			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
Syslog (IPv4 and IPv6)	RFC-3164	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
File Upload/Download using File Transfer Protocol (FTP)/ Trivial File Transfer Protocol (TFTP)/ SSH/ Secure File Transfer Protocol (SFTP)/ Secure Copy Protocol (SCP)	Linux APIs	1.1.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Management VRF	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing Protocols in Management VRF (RIP, RIPng, OSPF, and ISIS)	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ansible	Not Applicable	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Upgrade Mechanism from ONIE prompt using onie nos install and from OcNOS shell using sys-update	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL support over Management, VTY and Loopback	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Licensing (IPv4 and IPv6)	IPI Proprietary	1.3.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zero Touch Provisioning (ZTP)(with IPv4)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zero Touch Provisioning (ZTP) (with IPv6)	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
DHCP Snooping over MLAG	RFC 7513	1.3.9	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
DHCPv6 Prefix Delegation	RFC3633 - Partial	1.3.9	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP-Option 82 (IPv4)	RFC 3046	6.2.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Storing Multiple images on Platform	IPI Proprietary	5.0	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Fault Management System	IPI Proprietary	5.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Relay across VRFs	IPI Proprietary	5.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Network Configuration Protocol (NETCONF)																
YANG 1.0 Data Modelling Language	RFC 6020	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Protocol	RFC 6241	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Protocol over Secure Shell (SSH)	RFC 6242	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Protocol over Transport Layer Security (TLS)	RFC 5246	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Event Notifications	RFC 5277	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
YANG Module for NETCONF Monitoring	RFC 6022	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Base Notifications	RFC 6470	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
YANG 1.1 Data Modeling Language	RFC 7950	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NETCONF Access Control Model	RFC 8341	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple simultaneous config session for CLI	IPI Proprietary	5.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transaction based CLI	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
With-defaults trim		6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Netconf Call Home	RFC 8071	6.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Streaming Telemetry																
gNMI Server Subscribe model (Dial-in mode)	gNMI Spec v 0.10.0	6.4.1	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
SECURITY																
Security - General																
Storm control	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flow control	IEEE 802.3x	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Snooping	RFC 7513	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Access Control Lists (ACLs)																
Source IP address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Destination IP address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP/UDP source port	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP/UDP destination port	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP protocol type	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Source MAC address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Destination MAC address	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethertype	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCP Flags, Protocol type, IP fragment flags, DSCP, CoS, IP precedence	RFC 2827	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rule prioritization and Re sequence	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
On-fly modification	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL per rule statistics	IPI Proprietary	4.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Timed ACL	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ARP ACL	IPI Proprietary	6.3.0	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
HARDWARE-SPECIFIC FEATURES																
Hardware-Specific Features - General																
Switched port analyzer (SPAN)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote switched port analyzer (RSPAN)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unified Forwarding Table (UFT)	IPI Proprietary	1.0.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Load balance	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic load balancing (RTAG7 hash)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PHY/MAC level interface loopback	IPI Proprietary	5.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCAM space monitoring	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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			Speed: 120	Speed: 2000	Speed: 3200	Speed: 6400	Speed: 12800	Speed: 1080	Speed: 1080	Speed: 2000	Speed: 3200	Speed: 120	Speed: 3200	Speed: 3200	Speed: 3200	Speed: 3200
CHASSIS MONITORING																
Chassis Monitoring - General																
Temperature monitor	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fan control	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Monitoring	PMBus	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CPU load monitoring	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Board information (EEPROM)	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply Unit (PSU) Field Replacement Unit (FRU) information	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Fan FRU information (EEPROM)	IPI Proprietary	1.0.0	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Hardware MIB and Traps	IPI Proprietary	1.0.0	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PORT BREAKOUT																
100G Port Breakout into 4X10G	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
100G Port Breakout into 4X25G	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
100G Port Breakout into 2X50G	IPI Proprietary	4.2	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
400G Port Breakout	IPI Proprietary	6.4.1	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
DIGITAL DIAGNOSTICS MONITORING (TRANSCEIVER)																
Digital Diagnostics Monitoring (Transceiver) - General																
Temperature monitor	SFF-8024, SFF-8436, SFF-8472, SFF-8679	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Monitoring (Power, Current, Voltage)	SFF-8024, SFF-8436, SFF-8472, SFF-8679	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hardware MIB and Traps	IPI Proprietary	1.0.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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