

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
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| 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 | 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 | 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 | Yes | 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 | Yes | Yes | Yes | 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 | Yes | 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 | 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 | 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 | Yes | 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 | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Load Balancing on interfaces with unequal bandwidths | IPI Proprietary | 5.1 MR | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | Yes | No | |
| MLAG Active/Standby support as attachment circuit for VPWS Pseudowire Redundancy | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLAG Active/Standby over po interface | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | 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 | Yes | 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 | 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 | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 |
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| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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) + EBGp | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLAG+VRRPv6 with RSTP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLAG+VRRPv4 Active/Active over po interface + VRRPv6 (VMAC enabled) + VRRPv6 with Non-Owner (VRRP Virtual-IP is unique) + VRRPv6 Virtual-IPv6 address as Link-Local Address + Static route | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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) | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| SVLAN translation (Also supports CVLAN modification option) | IEEE 802.1ad | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Root Guard | IEEE 802.1d | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Port based authentication with Radius server | IEEE 802.1x | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TFO (Trigger FailOver) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Port Security | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No |
| LACP Force-up | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | 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 | Yes | Yes | 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 | Yes | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
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| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IPv6 IF MIB | RFC 8096 Sec3 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Policy Based Routing | IPI Proprietary | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter Virtual Routing and Forwarding (VRF) Route Leaking | IPI Proprietary | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static Inter VRF Route Leaking for IPv6 (between Default and Non-Default instances) | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple Loopback interfaces in same VRF | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static route tracking using object tracking (IP SLA) | IPI Proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Route Advertisement for IPv6 | IPI Proprietary | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Unidirectional Link Detection (UDLD) on L3 interface | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | 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 | Yes | Yes | Yes | 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 | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Large Community | RFC 8092 | 6.0.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | 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 | 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 | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
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| Capabilities Negotiation with BGP-4 | RFC 5492 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Route Target Filter | RFC 4684 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP - Labeled Unicast (BGP-LU) | RFC 3107 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Graceful-Restart | RFC 4724 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter-VRF route leaking for user-defined VRFs | RFC 4364 | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Unnumbered – using extended next hop encoding (ENHE) | RFC 5549 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EIBGP Max Path - Multipath load sharing among external Border Gateway Protocol (eBGP) and internal BGP (iBGP) paths for improved load balancing | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| The Accumulated IGP Metric Attribute for BGP | RFC 7311 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Extended BGP Administrative Shutdown Communication | RFC 9003 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Extended Optional Parameters Length for BGP OPEN Message | RFC 9072 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| BGP community for IANA (Internet Assigned Numbers Authority) reserved address for blackholing | RFC 7999 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Advertising IPv4 Network Layer Reachability Information (NLRI) with an IPv6 Next Hop | RFC 8950 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP GR for VPN Address Family | RFC 4724 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP PIC Edge | draft-ietf-rtgwg-bgp-pic-19 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Flowspec | RFC 8955 | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | | |
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| BGP-LS (Link State) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BGP Link state distribution (OSPF) | RFC 7752 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BGP Link state distribution (ISIS) | RFC 7752 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BGP Link state distribution for OSPF-SR | draft-ietf-idr-bgp-ls-segment-routing-ext-12 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BGP Link state distribution for ISIS-SR | draft-ietf-idr-bgp-ls-segment-routing-ext-12 draft-ietf-isis-segment-routing-extensions-22 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BGP-LS extensions for Segment Routing (SR) BGP Egress Peer Engineering | draft-filsfils-spring-segment-routing-central-epe-10 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BGP - Link State (BGP-LS) Advertisement of IGP Traffic Engineering Performance Metric Extensions | RFC 8571 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Graceful Restart | RFC 3623 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | No |
| 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 | 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 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Traffic Engineering (TE) Metric Extensions | RFC 7471 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Sham-link between VPN (Virtual Private Networks) sites | RFC 4577 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
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| 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Graceful Restart Mechanism for OSPFv3 | RFC 5187 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Authentication/Confidentiality for OSPFv3 with IPsec | RFC 4552 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPFv3 MTU | RFC 5340 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF LDP Sync | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Support For Demand Circuits | RFC 1793 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Stub Router Advertisement | RFC 6987 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| IP Fast Reroute - Remote Loop-Free Alternate for OSPF(RLFA) | RFC 7490 RFC 8102 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | 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 | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Original ISO specification of IS-IS | ISO 10589 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Dynamic Hostname Exchange Mechanism for IS-IS | RFC 2763 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Restart Signaling (Graceful Restart) for IS-IS | RFC 5306 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Routing IPv6 with IS-IS | RFC 5308 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Intermediate System to Intermediate System for IPv6 | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Passive Interface Support for IS-IS | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Bidirectional Forwarding Detection Trigger for IS-IS | RFC 5882 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS Mesh Groups | RFC 2973 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Domain-wide Prefix Distribution with Two-Level IS-IS | RFC 2966 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Three-Way Handshake for Intermediate System to Intermediate System (IS-IS) Point-to-Point Adjacencies | RFC 3373 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS extensions for Traffic Engineering | RFC 5305 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ISIS Traffic Engineering (TE) Metric Extensions | RFC 8570 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS Cryptographic Authentication | RFC 3567 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS Expanded Use of Overload Bit for BGP Convergenc | RFC 3277 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Micro-loop avoidance (IS-IS) | RFC 6976 | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Invalid TLV Handling in IS-IS | RFC 8918 | 6.4.1 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | | |
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| Bidirectional Forwarding Detection (BFD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BFD | RFC 5880 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BFD Multi-hop | RFC 5883 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BFD Authentication for MultiHop BFD | RFC 5880 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | |
| MIB support for BFD | IPI proprietary, RFC 7331 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VRRP Interface Tracking | IPI proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VRRP Authentication for VRRP v2 backward compatibility | RFC 2328 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support for VRRP Active/Standby and Active/Active on MLAG Active/Standby domain | IPI proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VRRP Object Tracking | IPI proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MULTI-PROTOCOL LABEL SWITCHING (MPLS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MPLS - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MPLS Architecture | RFC 3031 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS Label Stack Encoding | RFC 3032 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks | RFC 3443 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS Diffserv | RFC 3270 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiprotocol Label Switching (MPLS) Label Switching Router (LSR) Management Information Base (MIB) | RFC 3813 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS reachability for LU nexthop tracking | IPI proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Label Distribution Protocol (LDP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LDP | RFC 5036 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Applicability | RFC 3037 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support for LDP TCP-MD5 | RFC 5036 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Definitions of Managed Objects for the MPLS and LDP | RFC 3815 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 |
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| LDP Downstream-on-Demand (DoD) in Seamless MPLS | RFC 7032 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Extension for Inter-Area Label Switched Paths (LSPs) | RFC 5283 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Graceful Restart | RFC 3478 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Fast Re-Route (FRR) | RFC 5286 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Remote Loop Free Alternate IP Fast Reroute (RLFAs) | RFC 7490 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Session Protection | RFC 8223 | 5.1 MR | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP ECMP | IPI proprietary | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Authentication support for Auto Targeted Peer | IPI proprietary | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Resource Reservation Protocol (RSVP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RSVPv1 | RFC 2205 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Refresh Overhead Reduction Extensions | RFC 2961 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Fast Reroute Extensions to RSVP-TE for LSP Tunnels One-to-One Backup | RFC 4090 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Fast Reroute Extensions to RSVP-TE for LSP Tunnels - Facility Backup | RFC 4090 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVPv1 message processing rules | RFC 2209 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Entropy label support for RSVP transport | RFC 6790 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP re-optimization | IPI Proprietary | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Protocol Extensions for Support of Diff-serv-aware MPLS Traffic Engineering | RFC 4124 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB) | RFC 3812 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP multiple secondary | IPI Proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Shared Risk Link-Group (SRLG) support (Supported for OSPFv2 only) | RFC 4203 (Section 1.3) | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP MIB | RFC 2206 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Muiptath (Mapping services over multiple RSVP trunks) | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Graceful Restart | RFC 3473 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Layer 2 VPN (VPWS and VPLS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pseudowire Setup and Maintenance using the Label Distribution Protocol | RFC 4447 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 |
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| 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VPWS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VPLS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple match criteria for VPWS Ethernet Encapsulation using Service Template | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple match criteria for VPLS Ethernet Encapsulation using Service Template | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Encapsulation Methods for Transport of Ethernet Over MPLS Networks | RFC 4448 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static VPLS | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling | RFC 4762 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Virtual Private LAN Service (VPLS) Using BGP for signaling and auto-discovery | RFC 4761 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static pseudowire Setup and Maintenance | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Pseudowire MIB support | RFC 5601 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Pseudowire (PW) over MPLS PSN (Packet Switched Network) Management Information Base (MIB) | RFC 5602 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethernet Pseudowire (PW) Management Information Base (MIB) | RFC 5603 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| FAT Pseudowire(PW) Label | RFC 6391 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| L2CP/L2PT over VPWS | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Split-horizon for VPLS | IPI Proprietary | 6.3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No |
| Layer 3 VPN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4364 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4577 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Intranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4364 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static route as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4364 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
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| BGP-MPLS IP Virtual Private Network (VPN) Extension for IPv6 VPN (6vPE) | RFC 4659 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE) | RFC 4798 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Label Disposition for VPNv4 and 6VPE | RFC 4364,RFC 4659 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Label Disposition for 6PE | RFC 4798 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option A support for L3PVN/6VPE/6PE | RFC 4364,RFC 4659,RFC 4798 | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option B support for L3PVN/6VPE/6PE | RFC 4364,RFC 4659,RFC 4798 | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option C support for L3PVN/6VPE/6PE | RFC 4364,RFC 4659,RFC 4798 | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PER VRF Label support for 6PE | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LU as transport for 6VPE/VPN | RFC 4659 | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Peer Group - static | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Internet access for L3VPN | RFC 4365 section 10.1 | 3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| L3VPN MIB | RFC 4382 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS OAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OAM for MPLS networks | RFC 4377 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| A framework for MPLS OAM | RFC 4378 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Detecting MPLS Data Plane Failures | RFC 4379 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS BFD Detection | RFC 5884, RFC 5885 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS PW and LSP Traffic Statistics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stats per Label Switched Path (LSP) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Stats per Virtual Circuit (VC) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| L2VPN Statistics MIB | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Continuity check (multicast CCM) | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Ping (unicast) | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Link trace | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Fault reporting (RDI, MAC Status defect, CCM Cross Connect Defect, Error CCM Defect) | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| CFM over Layer 2 Bridge with xSTP | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| CCM over VPWS using SubInterface | IEEE 802.1ag - 2007 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| CCM over VPWS using Service Template | IEEE 802.1ag - 2007 | 1.0.0 ED2.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|--|-------------------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|----|
| CFM over EVPN MPLS ELINE Single Homing | IEEE 802.1ag / RFC 8214 | 4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| CFM over EVPN MPLS ELINE Multi Homing | IEEE 802.1ag / RFC 8214 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| CFM over PB | IEEE 802.1ag - 2007 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| CFM using L2 subinterface | IEEE 802.1ag - 2007 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Performance Monitoring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Delay and inter frame delay variation measurement using DMM and DMR over Layer 2 Bridge | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over VPWS using service Template | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over Layer 2 Bridge | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over VPWS | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Frame Loss Diagnostics ETH-TST/LCK | Y.1731 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Y.1731 Ethernet Bandwidth Notification (EBN) | Y.1731 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Ethernet Client Signal Fail (ETH-CSF) | G.8013/Y.1731 | 5.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Y.1731 over PB | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Y.1731 over MPLS/VPWS using Subinterface | Y.1731 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Y.1731 over MPLS/VPWS using Service Template | Y.1731 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Y.1731 over EVPN MPLS ELINE Single Homing | Y.1731 | 6.4.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Ethernet Ring Protection (ERPS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ERPS over CFM on Provider/Customer domain | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Sub-ring support (Multiple ring and ladder topologies) | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Support of multiple ERP Instances on single ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Over Native-L2 | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Over Bridge-domain | ITU-T G.8032v2 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Over LAG interface | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| With CFM (for link fault detection) | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Separate Control and Data-VLAN | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Multiple major ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Multiple Sub-ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Sub-ring with virtual channel | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|---|--------------------------------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|----|
| Sub-ring without virtual channel | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Multiple instances over same physical ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| E-LAN Over G.8032 (Ref. Sec.7.5 ITU-T-Series-G-Sup-52) | ITU-T G.8032v2 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Revertive Mode | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Force Switch | ITU-T G.8032v2 | 5 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| MLAG (Active-Standby with IDP link) interconnection with G.8032 major ring | ITU-T G.8032v2 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| User control over non-data VLAN forwarding (Block/unblock) : For Sub-Interface (as MPLS access interface) | ITU-T G.8032v2 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Ethernet Linear Protection (ELPS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELPS | ITU-T G.8031 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Over Native L2 | ITU-T G.8031 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Different Control and Data-VLAN | ITU-T G.8031 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| ELPS with CFM | ITU-T G.8031 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Revertive mode | ITU-T G.8031 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| 1:1 Protection Mode | ITU-T G.8031 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Ethernet in the First Mile (EFM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ether OAM (EFM) | IEEE 802.3ah | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes** | Yes** | No | No | No | No | No | No | No | No |
| VIRTUAL EXTENSIBLE LAN (VXLAN) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virtual Extensible LAN (VxLAN) - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer 2 EVPN for VXLAN | RFC 7348, RFC 7432, RFC 8365 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Layer 2 EVPN Auto RT for VXLAN | RFC 8365 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Layer 2 EVPN Multihoming for VXLAN | RFC 7432, RFC 8365 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VxLAN EVPN with BGP unnumbered | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN VXLAN- L2CP on EVPN Access | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VXLAN - QoS | RFC 2474 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VXLAN - Ethernet Virtual Connection (EVC) | RFC 7348 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Integrated Routing and Bridging (IRB) with VXLAN | RFC 9135 | 4.1 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Selectively enabling multiple IP addresses on IRB interface for anycast-gateway | RFC 9135 | 6.4.1 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VXLAN IRB QoS | RFC 2474 | 4.2 | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No |
| Prefix Route for EVPN IRB for VxLAN | RFC 9136 | 4.1 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VXLAN EVPN ARP/ND cache Ageing | draft-ietf-bess-evpn-proxy-arp-nd-02 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Inter-VRF route leaking over VXLAN-EVPN | RFC 9135, RFC 4364 | 4.2 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|---|----------------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| IPv4 and IPv6 DHCP Relay for VxLAN IRB | RFC 6607 | 5.0 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No | |
| VXLAN tunnel over SVI interface | RFC 8365 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Static VXLAN | RFC 7348 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VXLAN Trunk as access port | RFC 7348 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VXLAN - Overlay Equal-Cost Multipath (ECMP) | RFC 7348 | 5.0 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VxLAN E-LINE/X-connect | RFC 8214 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VxLAN- Subif as access | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| IRB support for advertising host routes | RFC 9135, RFC 9136 | 6.2.0 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| OSPF and ISIS support on an IRB Interface(SH) | RFC 9135, RFC 9136 | 6.4.1 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| 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 | 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 | 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 | 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 | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multicast Source Discovery Protocol (MSDP) | RFC 3618 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Bidirectional Protocol Independent Multicast (BIDIR-PIM) | RFC 5015 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | |
| Interoperability between the Virtual Router Redundancy Protocol and PIM | RFC 7910 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PIM MIB for IPv4 | RFC 5060 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Group To RP Mapping | RFC 6226 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Anycast-RP Using Protocol Independent | RFC 4610 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PIM ECMP IPv4 | RFC6754 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Protocol Independent Multicast (PIMv6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIM - Sparse Mode (PIM-SM)-IPv6 | RFC 4601 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Bootstrap Router (BSR) Mechanism for PIMv6 | RFC 5059 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|---|-----------------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| Static Rendezvous Point Configuration-IPv6 | RFC4601 and RFC 5015 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)-IPv6 | RFC 3973 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PIM - Source Specific Multicast-IPv6 | RFC 4607 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Source-Specific Protocol-Independent Multicast in 232/8-IPv6 | RFC 4608 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Overview of Source-Specific Multicast (SSM)-IPv6 | RFC 3569 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Bidirectional Forwarding Detection (BFD) Trigger for PIMv6 | RFC 5882 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PIM MIB for IPv6 | RFC 5060 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Group To RP Mapping-IPv6 | RFC 6226 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Anycast-RP Using Protocol Independent-IPv6 | RFC 4610 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PIM ECMP-IPv6 | RFC6754 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | 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 | Yes | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multicast Listener Discovery (MLD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLD, Version 1 | RFC 2710 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLD, Version 2 | RFC 3810 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLD-based Multicast Forwarding MLD Proxying") | RFC 4605 | 6.1.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Considerations for Multicast Listener Discovery (MLD) Snooping Switches | RFC 4541 | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 1/2/3 Level queuing hierarchy | RFC 3644 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| 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 | 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 | 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 | 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 | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|--|--|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| Weighted Random Early Detection (WRED) | RFC 2309 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Service Queuing (Mapping services to specific VLANs and shaping each VLAN based traffic) | IPI Proprietary | 1.0.0 EA | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| QoS Class map statistics | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Egress Q statistics | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| IP SLA (ICMP Echo) | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | Yes | No | |
| 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 | 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 | 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 | 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 | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| Extended ping and traceroute | Linux APIs | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| SNMP: support for multiple instances of SNMP MIB- v2, and v3 | RFC 1910, RFC 3411 | 5.1MR | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| sFlow | RFC 3176 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| Error Disable | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Debounce Timer | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| DHCP Server (IPv4 and IPv6) | RFC 2131 - basic support | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| DHCP relay (IPv4 and IPv6) | RFC-3046- basic support | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| DHCP group (IPv4 and IPv6) | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| NTP Client (IPv4 and IPv6) | RFC 5905 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |
| NTP Server (IPv4 and IPv6) | RFC 5905 | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|--|----------------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| Syslog (IPv4 and IPv6) | RFC-3164 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| 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 | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Ansible | Not Applicable | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ACL support over Management, VTY and Loopback | IPI Proprietary | 3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Licensing (IPv4 and IPv6) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Two-Way Active Measurement Protocol (TWAMP) | RFC 5357 #Appendix-I | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| TWAMP - One Way Measurement | RFC 5357 #Appendix-I | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | Yes | No | No | No | No | No | No | No | No | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Zero Touch Provisioning (ZTP) (with IPv6) | RFC 8572 | 5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes** | Yes** | No | No | No | Yes | Yes | Yes | Yes** | Yes** | No | No | No | No | No | No | No | No | No |
| DHCPv6 Prefix Delegation | RFC3633 - Partial | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| DNS Relay (IPv4 and IPv6) | RFC1034, 1035 | 5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| DHCP-Option 82 (IPv4) | RFC 3046 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Storing Multiple images on Platform | IPI Proprietary | 5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| DHCP Relay over L3VPN | IPI Proprietary | 5 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Fault Management System | IPI Proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | yes | yes | yes | yes | yes | yes | yes | No | yes | yes | yes | yes | yes | yes | yes | yes | No | Yes | Yes | Yes | Yes | No |
| DHCP Relay across VRFs | IPI Proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Infrastructure for pluggable OLT modules | IPI Proprietary | 3.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No |
| TWAMP over MPLS transport | IPI Proprietary | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| TWAMP - Reflector/Server | RFC 5357 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| TWAMP - Client | RFC 5357 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP over MPLS L3VPN | IPI Proprietary | 6.3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| TWAMP over EVPN MPLS L3VPN | IPI Proprietary | 6.3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| TWAMP for L3VPN over SR MPLS | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP for EVPN L3VPN over SR MPLS | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP for L3VPN over SRv6 | IPI Proprietary | 6.4.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | 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 | Yes | 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 | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|---|--------------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| NETCONF Protocol over Secure Shell (SSH) | RFC 6242 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| NETCONF Protocol over Transport Layer Security (TLS) | RFC 5246 | 5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Transaction based CLI | IPI Proprietary | 5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Openconfig Support | OpenConfig | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | No | No | No | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No | 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 | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| DHCP Snooping | RFC 7513 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | |
| IP Source Guard | RFC 7513 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | |
| Dynamic ARP Inspection | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|---|-----------------|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Load balance | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| PHY/MAC level interface loopback | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| TCAM space monitoring | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Fan FRU information (EEPROM) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No |
| Hardware MIB and Traps | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PORT BREAKOUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100G Port Breakout into 4X10G | IPI Proprietary | 6.3.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | No | No | No | No | Yes** | Yes** | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | No |
| 100G Port Breakout into 4X25G | IPI Proprietary | 6.3.0 | No | No | No | Yes** | Yes** | No | No | No | Yes** | Yes** | Yes | Yes | No | No | No | No | Yes** | Yes** | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | No |
| 100G Port Breakout into 2X50G | IPI Proprietary | 6.3.0 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | No | No | No | No | Yes** | Yes** | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | No |
| 400G Port Breakout | IPI Proprietary | 6.4.1 | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No | No | No | No | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| SMART SFP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of OAM Functionality over Remote Loopback | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No |
| Suport of attributes (Reset/DDM/ Disable Tx Transmission) | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No |
| Digital Diagnostic Monitoring (DDM) support | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No |
| SNMP Support | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No |
| EDFA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration and monitoring attributes such as target-output, target-gain, operating modes | IPI Proprietary | 6.3.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Digital Diagnostic Monitoring (DDM) support | SFF-8636 | 6.3.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|---|--|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| QSFP-DD/OPEN ZR/ZR+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of PRBS | C-CMIS 5.1 | 6.1.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes |
| Support of Loopback | C-CMIS 5.1 | 6.1.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes |
| Support of Laser Tuning | C-CMIS 5.1 | 6.2.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| Performance monitoring Alarm | | 6.4.1 | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | |
| 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TIMING AND SYNCHRONIZATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Timing and Synchronization - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Timing characteristics of a synchronous equipment slave clock (SyncE) | G.8262 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Distribution of timing information through packet networks (ESMC) | G.8264 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| PTP Telecom profile for phase/time synchronization with full timing support from the network (T-BC) | G.8275.1 (T-BC) | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Timing characteristics of telecom boundary clocks for use with full timing support from the network (T-BC) | G.8273.2 (T-BC) | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| PTP Telecom profile for phase/time synchronization with full timing support from the network (T-GM with Antenna compensation) | G.8275.1 (T-GM) | 1.0 ED3.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| PTP TP for time/phase synchronization with partial timing support from the network (T-BC-P, T-BC-A) | G.8275.2 (T-BC-P, T-BC-A) | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| PTP TP for time/phase synchronization with partial timing support from the network (T-GM with Antenna Compensation) | G.8275.2 (T-GM) | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Default profile (T-BC) | IEEE-1588 (Annex J) | 4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Default profile (T-GM) | IEEE-1588 (Annex J) | 4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| PTP Telecom Profile for frequency synchronization (T-GM) | G.8265.1 (T-GM) | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| PTP Telecom Profile for frequency synchronization (T-TSC) | G.8265.1 (T-TSC) | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | | |
|---|---|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|----|
| E2E Transparent clock (TC) | IEEE-1588 [Works with both G8275.1, G8275.2, default profile] | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | | |
| IWF (Interworking function) | IEEE-1588 | 6.0.0 | Yes | Yes | Yes | No | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | | |
| Timing profile SMPTE 2059-2 | IEEE-1588 | 6.4.2 | Yes | Yes | Yes | No | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | | |
| SUBINTERFACE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer 3 Subinterface | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer 3 termination of IPv4 and IPv6 packets | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Subinterface on channel group (LAG) | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| VLAN tagged packet - single / double for 802.1q and 802.1ad and combination | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| VLAN tagged packet- 9100,9200 TPID | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| IPv4 and IPv6 Unicast routing | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| IP VRF | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| MPLS support | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| MAC and IPv4 ACL | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| QoS | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| PIM IPv4 | RFC 4601, RFC 3837, RFC 4607, RFC 5015 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PIM IPv6 | RFC 4601, RFC 3837, RFC 4607 | 6.4.1 | No | No | No | No | No | No | No | No | Yes** | Yes** | Yes | Yes | Yes | No | No | No | Yes** | Yes** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Layer 2 Subinterface | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VLAN tagged packets - single/double for 802.1q and 802.1ad(88a8/9100/9200) | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Untagged and Default | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Static and Dynamic channel-group | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Rewrite operations - PUSH/POP/TRANSLATE for subinterface | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| *AC-AC Cross-connect service(Ethernet Point-to-point) | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Bridge Domain (Local-Briging Ethernet Point-to-MultiPoint) | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| MAC and IPv4 ACL | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| QoS | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| VLAN range | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Subinterface support for L2VPN (VPWS, VPLS) | IPI proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No | |
| MPLS WITH EVPN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MPLS with EVPN - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-LAN and E-LINE (Single/Multi Homing) | RFC 7432, RFC 8214 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No | |
| EVPN MPLS - Auto RT | RFC 8365 | SP 6.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No | |

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

| Feature Name | Standard | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|--|--|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| QoS (Quality of Service) | RFC 3270 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| E-TREE Only optionA (Single Homing) | RFC 8317 | 4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS/SR Active-Standby | RFC 7432, RFC 8214, RFC 8365, RFC 8584 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN over Segment-Routing (LSP/Policy) | RFC 7432 | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS Service Mapping via local Tunnel Policy | RFC 7432 | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - one to one backup protection | RFC 7432 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - facility backup protection | RFC 7432 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Egress network counters support | RFC 7432 | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Support EVPN MPLS with RSVP-ECMP | RFC 7432 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Support EVPN MPLS with LDP-ECMP | RFC 7432 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - MAC statistics | RFC 7432 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - L2CP on EVPN Access | RFC 7432 | 5.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - SR + TI-LFA | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - BGP-LU | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - LU/SR service-update Support | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - MAC hold timer | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS - Control Word | RFC 7432 | 6.0.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes** | Yes** | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Inter AS option A and C | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| RSVP/LDP GR support with EVPN service | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Integrated Routing and Bridging in Ethernet VPN (EVPN MPLS with IRB) | RFC 9135 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| EVPN MPLS L3VPN (without IRB) | RFC 7432 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| IRB support for advertising host routes | RFC 9135, RFC 9136 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| Multiple IPs on IRB interface for anycast-gateway | RFC 9135, RFC 9136 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| OSPF and ISIS support on an IRB Interface(SH) | RFC 9135, RFC 9136 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No |
| SEGMENT ROUTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Segment Routing - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of Segment routing generic base infrastructure. | RFC 8402 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| User Defined Adjacency SID (OPSFv2) | RFC8665 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF extensions for Segment-Routing | 1.RFC 8665 2.RFC 7684 3.RFC 4970 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ISIS extensions for Segment-Routing | 1. RFC 8667 2. draft-ietf-spring-conflict-resolution-05 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | 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 | First Version Supported | OcNOS-CSR-32 | OcNOS-CSR-64 | OcNOS-CSR-120 | OcNOS-CSR-300 | OcNOS-CSR-800 | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-32 | OCNOS-SP-MPLS-64 | OCNOS-SP-MPLS-120 | OCNOS-SP-MPLS-300 | OCNOS-SP-MPLS-800 | OCNOS-SP-MPLS-2400 | OCNOS-SP-MPLS-4800 | OCNOS-SP-MPLS-14400 | OCNOS-SP-PLUS-300 | OCNOS-SP-PLUS-800 | OCNOS-SP-PLUS-2400 | OCNOS-SP-PLUS-4800 | OCNOS-SP-PLUS-14400 | |
|--|---|-------------------------|--------------|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-----|
| LDP and SR interworking | 1. RFC8661 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| SR Mapping server | RFC 8661 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Segment-Routing Policy (Traffic Engineering) | draft-ietf-spring-segment-routing-policy-06 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Segment-routing OAM (LSP Ping/Traceroute) for MPLS dataplane | RFC 8287 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Segment-routing BFD | RFC 7880 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Topology Independent Fast Reroute using Segment Routing | draft-ietf-rtgwg-segment-routing-tifa-03 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Service mapping using tunnel policy over SR policy | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Entropy label support for SR MPLS (ISIS/OSPF) | RFC-9088 RFC-9089 | 6.4.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| BGP On-demand nexthop (ODN) and auto steering | RFC 9012 #name-color-extended-community | 6.2.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PCEP (Path Computation Element Protocol) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support for path computation element protocol | RFC 5440 RFC 7896 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Support for Stateful PCE | RFC 8281 RFC 8231 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PCEP Extensions for Segment Routing | RFC 8664 | 4.0 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PCEP MIB Support | RFC 7420 | 4.2 | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| PCEP support for SRv6 | draft-ietf-pce-segment-routing-ipv6-13 | 6.0.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| Segment Routing over IPv6 Data plane (SRv6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of Segment routing IPv6 generic base infrastructure. | RFC 8986 | 5.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes |
| OSPF Extension to Support Segment Routing over IPv6 Dataplane | draft-ietf-lsr-ospfv3-srv6-extensions-01 | 5.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| IS-IS Extension to Support Segment Routing over IPv6 Dataplane | draft-ietf-lsr-isis-srv6-extensions-11 | 5.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| BGP based L3VPN (VPNv4) over SRv6 core | draft-ietf-bess-srv6-services-08 | 5.1 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| BGP-LS support for Segment routing IPv6 (ISIS) | draft-ietf-idr-bgpls-srv6-ext-08 | 6.0.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| BGP-LS support for Segment routing IPv6 (OSPF) | draft-ietf-idr-bgpls-srv6-ext-08 | 6.1.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| EVPN ELINE (Single Homing) for SRv6 | rfc9252 | 6.1.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| EVPN ELINE (Multi Homing) for SRv6 | rfc9252 | 6.3.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |
| SRv6 OAM | RFC 9259 | 6.3.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | |

| Platforms | OcNOS-SP-CSR-32 | OcNOS-SP-CSR-64 | OcNOS-SP-CSR-120 | OcNOS-SP-CSR-300 | OcNOS-SP-CSR-800 | OCNOS_CSR_12XST | OcNOS-SP-IPBASE-32 | OcNOS-SP-IPBASE-64 | OcNOS-SP-IPBASE-120 | OcNOS-SP-IPBASE-300 | OcNOS-SP-IPBASE-800 | OcNOS-SP-IPBASE-2400 | OcNOS-SP-IPBASE-4800 | OcNOS-SP-IPBASE-14400 | OcNOS-SP-MPLS-32 | OcNOS-SP-MPLS-64 | OcNOS-SP-MPLS-120 | OcNOS-SP-MPLS-300 | OcNOS-SP-MPLS-800 | OcNOS-SP-MPLS-2400 | OcNOS-SP-MPLS-4800 | OcNOS-SP-MPLS-14400 | OcNOS-SP-PLUS-300 | OcNOS-SP-PLUS-800 | OcNOS-SP-PLUS-2400 | OcNOS-SP-PLUS-4800 | OcNOS-SP-PLUS-14400 |
|--------------------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|
| Dell S4248FB-ON/FBL-ON [QMX] | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X |
| Delta-Agema AGC7648A [QMX] | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X |
| Edgecore AS5912-54X [QMX] | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X |
| Edgecore AS5915-18X [QUX] | X | ✓ | ✓ | X | X | X | X | ✓ | ✓ | X | X | X | X | X | X | ✓ | ✓ | X | X | X | X | X | X | X | X | X | X |
| Edgecore AS5916-54XKS [QMX] | X | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X |
| Edgecore AS5916-54XKS-OT [QMX] | X | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X |
| Edgecore AS5916-54XM [QMX] | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X |
| Edgecore AS7315-27X [QAX] | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X | X |
| Edgecore AS7315-30X [QAX] | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X | X |
| Edgecore AS7316-26XB [QAX] | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X | X |
| Edgecore AS7946-30XB [Q2C] | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | ✓ | X | X | X |
| Edgecore AS7946-74XKSB [Q2C] | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | ✓ | X | X | X |
| Edgecore AS7535-28XB [Q2A] | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | ✓ | X | X | X |
| UfiSpace S9500-22XST [QAX] | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X | X |
| UfiSpace S9500-30XS [QAX] | X | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X | X |
| UfiSpace S9501-18SMT [QUX] | X | ✓ | ✓ | X | X | X | X | ✓ | ✓ | X | X | X | X | X | X | ✓ | ✓ | X | X | X | X | X | X | X | X | X | X |
| UfiSpace S9501-28SMT [QUX] | X | X | ✓ | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | X | X | X |
| UfiSpace S9502-16SMT [QUX] | ✓ | X | ✓ | X | X | X | ✓ | X | ✓ | X | X | X | X | X | ✓ | X | ✓ | X | X | X | X | X | X | X | X | X | X |
| UfiSpace S9502-12SM [QUX] | ✓ | X | ✓ | X | X | X | ✓ | X | ✓ | X | X | X | X | X | ✓ | X | ✓ | X | X | X | X | X | X | X | X | X | X |
| UfiSpace S9600-32X [Q2C] | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | ✓ | X | X | X |
| UfiSpace S9600-64X [Q2C] | X | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | ✓ | X | X |
| UfiSpace S9600-72XC [Q2C] | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | ✓ | X | X | X |
| UfiSpace S9600-56DX [Q2C] | X | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | ✓ | X | X |
| UfiSpace S9610-36D [J2C+] | X | X | X | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | ✓ |
| UfiSpace S9510-28DC [Q2A] | X | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | ✓ | X | X | X |
| UfiSpace S9510-30XC [Q2U] | X | X | X | X | X | X | X | X | X | ✓ | X | X | X | X | X | X | X | ✓ | X | X | X | X | ✓ | X | X | X | X |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|-------------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| 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 | 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 | 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 | 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 | Yes | Yes | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Load Balancing on interfaces with unequal bandwidths | IPI Proprietary | 5.1 MR | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLAG Active/Standby support as attachment circuit for VPWS Pseudowire Redundancy | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLAG Active/Standby over po interface | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | No | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | No | Yes | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|-----------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| 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 | No | 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 | No | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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) + EBGp | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| DHCP Relay over MLAG+VRRPv4 + Static route | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MLAG+VRRPv6 with RSTP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLAG+VRRPv4 Active/Active over po interface + VRRPv6 (VMAC enabled) + VRRPv6 with Non-Owner (VRRP Virtual-IP is unique) + VRRPv6 Virtual-IPv6 address as Link-Local Address + Static route | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | 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) | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| SVLAN translation (Also supports CVLAN modification option) | IEEE 802.1ad | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 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 | No | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|----------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| Media Access Control (MAC) Learning disable | 802.1q | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Port based authentication with Radius server | IEEE 802.1x | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TFO (Trigger FailOver) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Port Security | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes |
| LACP Force-up | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | 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 | No | Yes | 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 | No | Yes | 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 | No | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IPv6 IF MIB | RFC 8096 Sec3 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Policy Based Routing | IPI proprietary | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter Virtual Routing and Forwarding (VRF) Route Leaking | IPI proprietary | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static Inter VRF Route Leaking for IPv6 (between Default and Non-Default instances) | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple Loopback interfaces in same VRF | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static route tracking using object tracking (IP SLA) | IPI Proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Route Advertisement for IPv6 | IPI Proprietary | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|-----------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| Unidirectional Link Detection (UDLD) on L3 interface | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | 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 | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Large Community | RFC 8092 | 6.0.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Route Target Filter | RFC 4684 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP - Labeled Unicast (BGP-LU) | RFC 3107 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Graceful-Restart | RFC 4724 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter-VRF route leaking for user-defined VRFs | RFC 4364 | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Unnumbered - using extended next hop encoding (ENHE) | RFC 5549 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | | |
|---|---|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] | |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| EIBGP Max Path - Multipath load sharing among external Border Gateway Protocol (eBGP) and internal BGP (iBGP) paths for improved load balancing | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| The Accumulated IGP Metric Attribute for BGP | RFC 7311 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Extended BGP Administrative Shutdown Communication | RFC 9003 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Extended Optional Parameters Length for BGP OPEN Message | RFC 9072 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Advertising IPv4 Network Layer Reachability Information (NLRI) with an IPv6 Next Hop | RFC 8950 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP GR for VPN Address Family | RFC 4724 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP PIC Edge | draft-ietf-rtgwg-bgp-pic-19 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Flowspec | RFC 8955 | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP-LS (Link State) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BGP Link state distribution (OSPF) | RFC 7752 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Link state distribution (ISIS) | RFC 7752 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Link state distribution for OSPF-SR | draft-ietf-idr-bgp-ls-segment-routing-ext-12 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Link state distribution for ISIS-SR | draft-ietf-idr-bgp-ls-segment-routing-ext-12 draft-ietf-isis-segment-routing-extensions-22 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP-LS extensions for Segment Routing (SR) BGP Egress Peer Engineering | draft-filfils-spring-segment-routing-central-epe-10 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP - Link State (BGP-LS) Advertisement of IGP Traffic Engineering Performance Metric Extensions | RFC 8571 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|----------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Graceful Restart | RFC 3623 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | No | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IP FRR (Fast Reroute): OSPF-LFA (Loop-Free Alternate) | RFC 5286 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Traffic Engineering (TE) Metric Extensions | RFC 7471 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Sham-link between VPN (Virtual Private Networks) sites | RFC 4577 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Graceful Restart Mechanism for OSPFv3 | RFC 5187 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Authentication/Confidentiality for OSPFv3 with IPsec | RFC 4552 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPFv3 MTU | RFC 5340 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF LDP Sync | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Support For Demand Circuits | RFC 1793 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF Stub Router Advertisement | RFC 6987 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IP Fast Reroute - Remote Loop-Free Alternate for OSPF(RLFA) | RFC 7490 RFC 8102 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Original ISO specification of IS-IS | ISO 10589 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Dynamic Hostname Exchange Mechanism for IS-IS | RFC 2763 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|---------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| Restart Signaling (Graceful Restart) for IS-IS | RFC 5306 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Routing IPv6 with IS-IS | RFC 5308 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Intermediate System to Intermediate System for IPv6 | IPI proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Passive Interface Support for IS-IS | IPI proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Bidirectional Forwarding Detection Trigger for IS-IS | RFC 5882 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS Mesh Groups | RFC 2973 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Domain-wide Prefix Distribution with Two-Level IS-IS | RFC 2966 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Three-Way Handshake for Intermediate System to Intermediate System (IS-IS) Point-to-Point Adjacencies | RFC 3373 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS extensions for Traffic Engineering | RFC 5305 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ISIS Traffic Engineering (TE) Metric Extensions | RFC 8570 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS Cryptographic Authentication | RFC 3567 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-IS Expanded Use of Overload Bit for BGP Convergenc | RFC 3277 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Micro-loop avoidance (IS-IS) | RFC 6976 | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Invalid TLV Handling in IS-IS | RFC 8918 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BFD Multi-hop | RFC 5883 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BFD Authentication for MultiHop BFD | RFC 5880 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MIB support for BFD | IPI proprietary, RFC 7331 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VRRP Interface Tracking | IPI proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VRRP Authetication for VRRP v2 backward compatibility | RFC 2328 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|-----------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| VRRP Object Tracking | IPI proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MULTI-PROTOCOL LABEL SWITCHING (MPLS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MPLS - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MPLS Architecture | RFC 3031 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS Label Stack Encoding | RFC 3032 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks | RFC 3443 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS Diffserv | RFC 3270 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiprotocol Label Switching (MPLS) Label Switching Router (LSR) Management Information Base (MIB) | RFC 3813 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS reachability for LU nexthop tracking | IPI proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Label Distribution Protocol (LDP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LDP | RFC 5036 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Applicability | RFC 3037 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support for LDP TCP-MD5 | RFC 5036 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Definitions of Managed Objects for the MPLS and LDP | RFC 3815 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Downstream-on-Demand (DoD) in Seamless MPLS | RFC 7032 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Extension for Inter-Area Label Switched Paths (LSPs) | RFC 5283 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Graceful Restart | RFC 3478 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Fast Re-Route (FRR) | RFC 5286 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Remote Loop Free Alternate IP Fast Reroute (RLFA) | RFC 7490 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Session Protection | RFC 8223 | 5.1 MR | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP ECMP | IPI proprietary | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP Authentication support for Auto Targeted Peer | IPI proprietary | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Resource Reservation Protocol (RSVP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RSVPv1 | RFC 2205 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Refresh Overhead Reduction Extensions | RFC 2961 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| Fast Reroute Extensions to RSVP-TE for LSP Tunnels One-to-One Backup | RFC 4090 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Fast Reroute Extensions to RSVP-TE for LSP Tunnels - Facility Backup | RFC 4090 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVPv1 message processing rules | RFC 2209 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Entropy label support for RSVP transport | RFC 6790 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP re-optimization | IPI Proprietary | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Protocol Extensions for Support of Diff-serv-aware MPLS Traffic Engineering | RFC 4124 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB) | RFC 3812 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP multiple secondary | IPI Proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Shared Risk Link-Group (SRLG) support (Supported for OSPFv2 only) | RFC 4203 (Section 1.3) | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP MIB | RFC 2206 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Multipart (Mapping services over multiple RSVP trunks) | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP Graceful Restart | RFC 3473 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Layer 2 VPN (VPWS and VPLS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pseudowire Setup and Maintenance using the Label Distribution Protocol | RFC 4447 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VPWS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VPLS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple match criteria for VPWS Ethernet Encapsulation using Service Template | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | | Delta-Agema |
|--|----------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| Multiple match criteria for VPLS Ethernet Encapsulation using Service Template | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Encapsulation Methods for Transport of Ethernet Over MPLS Networks | RFC 4448 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static VPLS | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling | RFC 4762 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Virtual Private LAN Service (VPLS) Using BGP for signaling and auto-discovery | RFC 4761 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static pseudowire Setup and Maintenance | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Pseudowire MIB support | RFC 5601 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Pseudowire (PW) over MPLS PSN (Packet Switched Network) Management Information Base (MIB) | RFC 5602 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethernet Pseudowire (PW) Management Information Base (MIB) | RFC 5603 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| FAT Pseudowire(PW) Label | RFC 6391 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| L2CP/L2PT over VPWS | IPI Proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Split-horizon for VPLS | IPI Proprietary | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes |
| Layer 3 VPN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4364 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4577 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Intranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4364 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static route as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs) | RFC 4364 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP-MPLS IP Virtual Private Network (VPN) Extension for IPv6 VPN (6vPE) | RFC 4659 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE) | RFC 4798 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Label Disposition for VPNv4 and 6VPE | RFC 4364,RFC 4659 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Label Disposition for 6PE | RFC 4798 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option A support for L3PVN/6VPE/6PE | RFC 4364,RFC 4659,RFC 4798 | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option B support for L3PVN/6VPE/6PE | RFC 4364,RFC 4659,RFC 4798 | 3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option C support for L3PVN/6VPE/6PE | RFC 4364,RFC 4659,RFC 4798 | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PER VRF Label support for 6PE | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|-------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| LU as transport for 6VPE/VPN | RFC 4659 | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| BGP Peer Group - static | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Internet access for L3VPN | RFC 4365 section 10.1 | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| L3VPN MIB | RFC 4382 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS OAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OAM for MPLS networks | RFC 4377 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| A framework for MPLS OAM | RFC 4378 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Detecting MPLS Data Plane Failures | RFC 4379 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS BFD Detection | RFC 5884, RFC 5885 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS PW and LSP Traffic Statistics | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stats per Label Switched Path (LSP) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Stats per Virtual Circuit (VC) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| L2VPN Statistics MIB | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Continuity check (multicast CCM) | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Ping (unicast) | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Link trace | IEEE 802.1ag - 2007 | 1.0.0 ED1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| CCM over VPWS using SubInterface | IEEE 802.1ag - 2007 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| CCM over VPWS using Service Template | IEEE 802.1ag - 2007 | 1.0.0 ED2.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| CFM over EVPN MPLS ELINE Single Homing | IEEE 802.1ag / RFC 8214 | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| CFM over EVPN MPLS ELINE Multi Homing | IEEE 802.1ag/RFC 8214 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| CFM over PB | IEEE 802.1ag - 2007 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| CFM using L2 subinterface | IEEE 802.1ag - 2007 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Performance Monitoring | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Delay and inter frame delay variation measurement using DMM and DMR over Layer 2 Bridge | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | | |
|--|----------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] | |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over VPWS using service Template | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over Layer 2 Bridge | Y.1731 | 1.0 ED2.4 | No | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over VPWS | Y.1731 | 1.0 ED2.4 | No | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | |
| Frame Loss Diagnostics ETH-TST/LCK | Y.1731 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Y.1731 Ethernet Bandwidth Notification (EBN) | Y.1731 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Ethernet Client Signal Fail (ETH-CSF) | G.8013/Y.1731 | 5.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Y.1731 over PB | Y.1731 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Y.1731 over MPLS/VPWS using Subinterface | Y.1731 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Y.1731 over MPLS/VPWS using Service Template | Y.1731 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Y.1731 over EVPN MPLS ELINE Single Homing | Y.1731 | 6.4.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| Ethernet Ring Protection (ERPS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ERPS over CFM on Provider/Customer domain | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Sub-ring support (Multiple ring and ladder topologies) | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support of multiple ERP Instances on single ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Over Native-L2 | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Over Bridge-domain | ITU-T G.8032v2 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Over LAG interface | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| With CFM (for link fault detection) | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Separate Control and Data-VLAN | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple major ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple Sub-ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Sub-ring with virtual channel | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Sub-ring without virtual channel | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple instances over same physical ring | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| E-LAN Over G.8032 (Ref. Sec.7.5 ITU-T Series-G-Sup-52) | ITU-T G.8032v2 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Revertive Mode | ITU-T G.8032v2 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Force Switch | ITU-T G.8032v2 | 5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|--------------------------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| MLAG (Active-Standby with IDP link) interconnection with G.8032 major ring | ITU-T G.8032v2 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| User control over non-data VLAN forwarding (Block/unblock) : For Sub-Interface (as MPLS access interface) | ITU-T G.8032v2 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethernet Linear Protection (ELPS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELPS | ITU-T G.8031 | SP 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Over Native L2 | ITU-T G.8031 | SP 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Different Control and Data-VLAN | ITU-T G.8031 | SP 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ELPS with CFM | ITU-T G.8031 | SP 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Revertive mode | ITU-T G.8031 | SP 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 1:1 Protection Mode | ITU-T G.8031 | SP 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethernet in the First Mile (EFM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ether OAM (EFM) | IEEE 802.3ah | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes |
| VIRTUAL EXTENSIBLE LAN (VXLAN) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virtual Extensible LAN (VxLAN) - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer 2 EVPN for VXLAN | RFC 7348, RFC 7432, RFC 8365 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Layer 2 EVPN Auto RT for VXLAN | RFC 8365 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Layer 2 EVPN Multihoming for VXLAN | RFC 7432, RFC 8365 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VxLAN EVPN with BGP unnumbered | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN VXLAN- L2CP on EVPN Access | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VXLAN - QoS | RFC 2474 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VXLAN - Ethernet Virtual Connection (EVC) | RFC 7348 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Integrated Routing and Bridging (IRB) with VXLAN | RFC 9135 | 4.1 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Selectively enabling multiple IP addresses on IRB interface for anycast-gateway | RFC 9135 | 6.4.1 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VXLAN IRB QoS | RFC 2474 | 4.2 | No | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes |
| Prefix Route for EVPN IRB for VxLAN | RFC 9136 | 4.1 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VXLAN EVPN ARP/ND cache Ageing | draft-ietf-bess-evpn-proxy-arp-nd-02 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter-VRF route leaking over VXLAN-EVPN | RFC 9135, RFC 4364 | 4.2 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IPv4 and IPv6 DHCP Relay for VxLAN IRB | RFC 6607 | 5.0 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VXLAN tunnel over SVI interface | RFC8365 | 1.0 ED2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static VXLAN | RFC 7348 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|----------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| VXLAN Trunk as access port | RFC 7348 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VXLAN - Overlay Equal-Cost Multipath (ECMP) | RFC 7348 | 5.0 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VxLAN E-LINE/X-connect | RFC 8214 | 5.1 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VxLAN- Subif as access | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IRB support for advertising host routes | RFC 9135, RFC 9136 | 6.2 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF and ISIS support on an IRB Interface(SH) | RFC 9135, RFC 9136 | 6.4.1 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multicast Source Discovery Protocol (MSDP) | RFC 3618 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Bidirectional Protocol Independent Multicast (BIDIR-PIM) | RFC 5015 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes |
| Interoperability between the Virtual Router Redundancy Protocol and PIM | RFC 7910 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PIM MIB for IPv4 | RFC 5060 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Group To RP Mapping | RFC 6226 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Anycast-RP Using Protocol Independent | RFC 4610 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PIM ECMP IPv4 | RFC 6754 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Protocol Independent Multicast (PIMv6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIM - Sparse Mode (PIM-SM)-IPv6 | RFC 4601 | 6.1.0 | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No |
| Bootstrap Router (BSR) Mechanism for PIMv6 | RFC 5059 | 6.1.0 | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | | |
|---|-----------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] | |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| Static Rendezvous Point Configuration-IPv6 | RFC4601 and RFC 5015 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)-IPv6 | RFC 3973 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| PIM - Source Specific Multicast-IPv6 | RFC 4607 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Source-Specific Protocol-Independent Multicast in 232/8-IPv6 | RFC 4608 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Overview of Source-Specific Multicast (SSM)-IPv6 | RFC 3569 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Bidirectional Forwarding Detection (BFD) Trigger for PIMv6 | RFC 5882 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| PIM MIB for IPv6 | RFC 5060 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Group To RP Mapping-IPv6 | RFC 6226 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Anycast-RP Using Protocol Independent-IPv6 | RFC 4610 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| PIM ECMP IPv6 | RFC 6754 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multicast Listener Discovery (MLD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLD, Version 1 | RFC 2710 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| MLD, Version 2 | RFC 3810 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| MLD-based Multicast Forwarding MLD Proxying") | RFC 4605 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Considerations for Multicast Listener Discovery (MLD) Snooping Switches | RFC 4541 | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 1/2/3 Level queuing hierarchy | RFC 3644 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | | |
|---|--|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] | |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Service Queuing (Mapping services to specific VLANs and shaping each VLAN based traffic) | IPI Proprietary | 1.0.0 EA | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| QoS Class map statistics | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Egress Q statistics | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| IP SLA (ICMP Echo) | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | 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 | 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 | 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 | 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 | 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 | 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 | 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 | No | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| sFlow | RFC-3176 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Error Disable | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Debounce Timer | IPI Proprietary | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|----------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| DHCP relay (IPv4 and IPv6) | RFC-3046 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| NTP Client (IPv4 and IPv6) | RFC 5905 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| NTP Server (IPv4 and IPv6) | RFC 5905 | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Routing Protocols in Management VRF (RIP, RIPv6, OSPF, and ISIS) | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ACL support over Management, VTY and Loopback | IPI Proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Licensing (IPv4 and IPv6) | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Two-Way Active Measurement Protocol (TWAMP) | rfc5357#appendix-1 | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP - One Way Measurement | RFC 5357 #Appendix-1 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No |
| 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Zero Touch Provisioning (ZTP) (with IPv6) | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes |
| DHCPv6 Prefix Delegation | RFC3633 - Partial | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| DNS Relay (IPv4 and IPv6) | RFC1034, 1035 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Storing Multiple images on Platform | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| DHCP Relay over L3VPN | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| DHCP Relay across VRFs | IPI Proprietary | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Infrastructure for pluggable OLT modules | IPI Proprietary | 3.1 | No | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No |
| TWAMP over MPLS transport | IPI Proprietary | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP - Reflector/Server | RFC 5357 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP - Client | RFC 5357 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP over MPLS L3VPN | IPI Proprietary | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP over EVPN MPLS L3VPN | IPI Proprietary | 6.3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP for L3VPN over SR MPLS | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|--------------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| TWAMP for EVPN L3VPN over SR MPLS | IPI Proprietary | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TWAMP for L3VPN over SRv6 | IPI Proprietary | 6.4.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Openconfig Support | OpenConfig | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | Yes | Yes | Yes | Yes | 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 | Yes | Yes | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| DHCP Snooping | RFC 7513 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IP Source Guard | RFC 7513 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Dynamic ARP Inspection | IPI Proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|-----------------|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | 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 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 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 | 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 | 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 | 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Fan FRU information (EEPROM) | IPI Proprietary | 1.0.0 | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No |
| Hardware MIB and Traps | IPI Proprietary | 1.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PORT BREAKOUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100G Port Breakout into 4X10G | IPI Proprietary | 6.3.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| 100G Port Breakout into 4X25G | IPI Proprietary | 6.3.0 | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No |
| 100G Port Breakout into 2X50G | IPI Proprietary | 6.3.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No | No |
| 400G Port Breakout | IPI Proprietary | 6.4.1 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | Yes | Yes | No | No | No | No |
| SMART SFP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of OAM Functionality over Remote Loopback | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | No | Yes | No | Yes | No | No |
| Suport of attributes (Reset/DDM/ Disable Tx Transmission) | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | No | Yes | No | Yes | No | No |
| Digital Diagnostic Monitoring (DDM) support | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | Yes | No | Yes | No | No | |
| SNMP Support | IPI Proprietary | 6.2.0 | No | No | No | No | No | No | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | Yes | No | Yes | No | No | |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | | |
|---|--|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] | |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| EDFA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration and monitoring attributes such as target-output, target-gain, operating modes | IPI Proprietary | 6.3.0 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | |
| Digital Diagnostic Monitoring (DDM) support | SFF-8636 | 6.3.0 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | |
| QSFP-DD/Open ZR/ZR+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of PRBS | C-CMIS 5.1 | 6.1.0 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | No | No | No | |
| Support of Loopback | C-CMIS 5.1 | 6.1.0 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | No | No | No | |
| Support of Laser Tuning | C-CMIS 5.1 | 6.2.0 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | No | No | No | |
| Performance monitoring Alarm | | 6.4.1 | No | No | No | No | No | No | No | Yes | No | No | No | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | No | No | No | |
| DIGITAL DIAGNOSTICS MONITORING (TRANSCIVER) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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 | 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 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| TIMING AND SYNCHRONIZATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Timing and Synchronization - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Timing characteristics of a synchronous equipment slave clock (SyncE) | G.8262 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No |
| Distribution of timing information through packet networks (ESMC) | G.8264 | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No |
| PTP Telecom profile for phase/time synchronization with full timing support from the network (T-BC) | G.8275.1 (T-BC) | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No | |
| Timing characteristics of telecom boundary clocks for use with full timing support from the network (T-BC) | G.8273.2 (T-BC) | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No | |
| PTP Telecom profile for phase/time synchronization with full timing support from the network (T-GM with Antenna compensation) | G.8275.1 (T-GM) | 1.0 ED3.0 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | No | |
| PTP TP for time/phase synchronization with partial timing support from the network (T-BC-P, T-BC-A) | G.8275.2 (T-BC-P, T-BC-A) | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No | |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | | |
|---|---|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] | |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 | Speed: 800 |
| PTP TP for time/phase synchronization with partial timing support from the network (T-GM with Antenna Compensation) | G.8275.2 (T-GM) | 4.0 | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | No | |
| Default profile (T-BC) | IEEE-1588 (Annex J) | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No |
| Default profile (T-GM) | IEEE-1588 (Annex J) | 4.1 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | No | No |
| PTP Telecom Profile for frequency synchronization (T-GM) | G.8265.1 (T-GM) | 4.2 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | No | Yes | No | No | No | No | No | No | No | No | No | No |
| PTP Telecom Profile for frequency synchronization (T-TSC) | G.8265.1 (T-TSC) | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | Yes | Yes | Yes | No | No |
| E2E Transparent clock (TC) | IEEE-1588 [Works with both G8275.1, G8275.2, default profile] | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | No | No |
| IWF (Interworking function) | IEEE-1588 | 6.0.0 | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Timing profile SMPTE 2059-2 | IEEE-1588 | 6.4.2 | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | No | No | No | No | No |
| SUBINTERFACE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer 3 Subinterface | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer 3 termination of IPv4 and IPv6 packets | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Subinterface on channel group (LAG) | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VLAN tagged packet - single / double for 802.1q and 802.1ad and combination | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VLAN tagged packet- 9100,9200 TPID | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IPv4 and IPv6 Unicast routing | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IP VRF | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS support | IPI proprietary | 1.0 ED2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MAC and IPv4 ACL | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| QoS | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PIM IPv4 | RFC 4601, RFC 3837, RFC 4607, RFC 5015 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PIM IPv6 | RFC 4601, RFC 3837, RFC 4607 | 6.4.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No | |
| Layer 2 Subinterface | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VLAN tagged packets - single/double for 802.1q and 802.1ad(88a8/9100/9200) | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Untagged and Default | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Static and Dynamic channel-group | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Rewrite operations - PUSH/POP/ TRANSLATE for subinterface | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| *AC-AC Cross-connect service(Ethernet Point-to-point) | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|--|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| Bridge Domain (Local-Briging Ethernet Point-to-MultiPoint) | IPI proprietary | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MAC and IPv4 ACL | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| QoS | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| VLAN range | IPI proprietary | 3.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Subinterface support for L2VPN (VPWS, VPLS) | IPI proprietary | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MPLS WITH EVPN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MPLS with EVPN - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-LAN and E-LINE (Single/Multi Homing) | RFC 7432, RFC 8214 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - Auto RT | RFC 8365 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| QoS (Quality of Service) | RFC 3270 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| E-TREE Only optionA (Single Homing) | RFC 8317 | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS/SR Active-Standby | RFC 7432, RFC 8214, RFC 8365, RFC 8584 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN over Segment-Routing (LSP/Policy) | RFC 7432 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS Service Mapping via local Tunnel Policy | RFC 7432 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - one to one backup protection | RFC 7432 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - facility backup protection | RFC 7432 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Egress network counters support | RFC 7432 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support EVPN MPLS with RSVP-ECMP | RFC 7432 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support EVPN MPLS with LDP-ECMP | RFC 7432 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - MAC statistics | RFC 7432 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - L2CP on EVPN Access | RFC 7432 | 5.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - SR + TI-LFA | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - BGP-LU | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - LU/SR service-update Support | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - MAC hold timer | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS - Control Word | RFC 7432 | 6.0.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter AS option A and C | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RSVP/LDP GR support with EVPN service | RFC 7432 | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Integrated Routing and Bridging in Ethernet VPN (EVPN MPLS with IRB) | RFC 9135 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| EVPN MPLS L3VPN (without IRB) | RFC 7432 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|---|--|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| IRB support for advertising host routes | RFC 9135, RFC 9136 | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple IPs on IRB interface for anycast-gateway | RFC 9135, RFC 9136 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF and ISIS support on an IRB Interface(SH) | RFC 9135, RFC 9136 | 6.4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| SEGMENT ROUTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Segment Routing - General | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of Segment routing generic base infrastructure. | RFC 8402 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| User Defined Adjacency SID (OPSFv2) | RFC8665 | 6.1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OSPF extensions for Segment-Routing | 1.RFC 8665 2.RFC 7684 3.RFC 4970 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ISIS extensions for Segment-Routing | 1. RFC 8667 2. draft-ietf-spring-conflict-resolution-05 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| LDP and SR interworking | 1. RFC8661 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| SR Mapping server | RFC 8661 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Segment-Routing Policy (Traffic Engineering) | draft-ietf-spring-segment-routing-policy-06 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Segment-routing OAM (LSP Ping/ Traceroute) for MPLS dataplane | RFC 8287 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Segment-routing BFD | RFC 7880 | 6.0.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Topology Independent Fast Reroute using Segment Routing | draft-ietf-rtgwg-segment-routing-ti-lfa-03 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Service mapping using tunnel policy over SR policy | IPI Proprietary | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Entropy label support for SR MPLS (ISIS/ OSPF) | RFC-9088 RFC-9089 | 6.4.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | Yes | Yes | Yes | Yes | No |
| BGP On-demand nexthop (ODN) and auto steering | RFC 9012 #name-color-extended-community | 6.2.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PCEP (Path Computation Element Protocol) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support for path computation element protocol | RFC 5440 RFC 7896 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Support for Stateful PCE | RFC 8281 RFC 8231 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PCEP Extensions for Segment Routing | RFC 8664 | 4.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Feature Name | Standard | First Version Supported | UfiSpace | | | | | | | | | | | | | Edgecore | | | | | | | | | | Dell | Delta-Agema | |
|--|--|-------------------------|------------------|-------------------|-------------------|-------------------|------------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|--------------------|-----------------------|-------------------|-------------------|-------------------|---------------------|-------------------------|----------------|
| | | | S9502-12SM [QUX] | S9502-16SMT [QUX] | S9501-18SMT [QUX] | S9501-28SMT [QUX] | S9500-22XST [QAX Lite] | S9500-30XS [QAX] | S9510-30XC [Q2U] | S9510-28DC [Q2A] | S9600-32X [Q2C] | S9600-72XC [Q2C] | S9600-64X [Q2C] | S9600-56DX [Q2C] | S9610-36D [J2C+] | AS5915-18X [QUX] | AS7315-27X [QAX] | AS7315-30X [QAX] | AS7316-26XB [QAX] | AS5912-54X [QMX] | AS5916-54XKS [QMX] | AS5916-54XKS-OT [QMX] | AS5916-54XM [QMX] | AS7535-28XB [Q2A] | AS7946-30XB [Q2C] | AS7946-74XKSB [Q2C] | S4248FB-ON/FBL-ON [QMX] | AGC7648A [QMX] |
| | | | Speed: 32 | Speed: 32 | Speed: 64 | Speed: 120 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 4800 | Speed: 4800 | Speed: 14400 | Speed: 64 | Speed: 300 | Speed: 300 | Speed: 300 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 800 | Speed: 2400 | Speed: 2400 | Speed: 800 |
| PCEP MIB Support | RFC 7420 | 4.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PCEP support for SRv6 | draft-ietf-pce-segment-routing-ipv6-13 | 6.0.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| Segment Routing over IPv6 Data plane (SRv6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support of Segment routing IPv6 generic base infrastructure. | RFC 8986 | 5.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| OSPF Extension to Support Segment Routing over IPv6 Dataplane | draft-ietf-lsr-ospfv3-srv6-extensions-01 | 5.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| IS-IS Extension to Support Segment Routing over IPv6 Dataplane | draft-ietf-lsr-isis-srv6-extensions-11 | 5.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| BGP based L3VPN (VPNv4) over SRv6 core | draft-ietf-bess-srv6-services-08 | 5.1 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| BGP-LS support for Segment routing IPv6 (ISIS) | draft-ietf-idr-bgpls-srv6-ext-08 | 6.0.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| BGP-LS support for Segment routing IPv6 (OSPF) | draft-ietf-idr-bgpls-srv6-ext-08 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| EVPN ELINE (Single Homing) for SRv6 | rfc9252 | 6.1.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| EVPN ELINE (Multi Homing) for SRv6 | rfc9252 | 6.3.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |
| SRv6 OAM | RFC 9259 | 6.3.0 | No | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No | No | No | No | No | No | Yes | Yes | Yes | No | No |



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