

		(L2+V)																			
Customer VLAN (CVLAN)/ Service tag VLAN (SVLAN) translation (Also supports Untag-Provider Edge Port (PEP)/ Untag-Customer Edge Port (CEP) option)	IEEE 802.1ad	1.3.3	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
SVLAN translation (Also supports CVLAN modification option)	IEEE 802.1ad	1.3.3	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Changing the outer TPID (Tag Protocol Identifier) of provider network port	IEEE 802.1ad	1.3.3	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Remarking COS, Canonical Format Indicator (CFI) for C-Tag and S-Tag at CEP and PNP (Provider Network Port)	IEEE 802.1ad	1.3.3	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Q-in-Q Layer 3 Termination	IEEE 802.1ad	1.3.3	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Other Layer 2 Features																					
Bridge Protocol Data Unit (BPDU) Protect	IEEE 802.1d	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Root Guard	IEEE 802.1d	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Media Access Control (MAC) Learning disable	IEEE 802.1q	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Static MAC Address Assignment	IEEE 802.1q	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Port based authentication with Radius server	IEEE 802.1x	1.0.0	✓	✓	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
TFO (Trigger FailOver)	IPI Proprietary	1.1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Port Security	IPI Proprietary	1.3.6	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
VLAN Cross Connect	IPI Proprietary	1.3.6	✓	×	×	×	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	×	×	
VLAN Cross Connect with double TAG	IPI Proprietary	1.3.9	✓	×	×	×	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	×	×	
LACP Force-up	IPI Proprietary	4.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LACP Aggregator Force-up	IPI Proprietary	5.2	✓	✓	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Protected Port on Physical Interface	IPI Proprietary	5.0	✓	✓	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
MAC Authentication Bypass	IPI Proprietary	5.0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
Unidirectional Link Detection (UDLD)	IPI Proprietary	5.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
- Layer 3																					
Address Resolution Protocol (ARP)																					
Ethernet ARP	RFC 826	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Path MTU																					
Path Maximum Transmission Unit (MTU) for IPv4 and IPv6	RFC 1191 (obsoletes 1063)	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Routing																					
Transmission of Internet Protocol (IP) Datagrams over Ethernet	RFC 894	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Congestion Control in IP/Transmission Control Protocol (TCP) Networks	RFC 896	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IP Broadcast	RFC 919	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IP Broadcast in the Presence of Subnets	RFC 922	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IP Subnetting	RFC 950	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Classless Inter-Domain Routing (CIDR)	RFC 1519	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Requirements for IP Version 4 Routers	RFC 1812	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Route Redistribution across RIP, OSPF and BGP	RFC 2328, RFC 4271, RFC 2453	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VLAN Routing		1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IPv6 IF MIB	RFC 8096 Sec3	5.0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
Route-Map Continue	IPI Proprietary	1.3.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Static Route Discard	IPI Proprietary	1.3.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Policy Based Routing	IPI Proprietary	4.1	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
Policy Based Routing with Next Hop tracking	IPI Proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
Inter Virtual Routing and Forwarding (VRF) Route Leaking	IPI Proprietary	5.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Static Inter VRF Route Leaking for IPv6 (between Default and Non-Default Instances)	IPI Proprietary	4.2	×	×	×	×	×	✓	×	×	×	×	×	×	×	×	×	×	×	×	
Multiple Loopback Interfaces in same VRF	IPI Proprietary	5.0	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Static route tracking using object tracking (IP SLA)	IPI Proprietary	5.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Route Advertisement for IPv6	IPI Proprietary	6.2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Route Monitor	IPI Proprietary	6.4.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
UDLD Support on L3 Interface	IPI Proprietary	6.4.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Recursive Next Hop resolution for VRF static routes	IPI Proprietary	6.6.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
URPF (Unicast Reverse Path Forwarding)																					
Loose mode	RFC 3704	1.0.0	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Loose default mode	RFC 3704	1.0.0	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Strict mode	RFC 3704	1.0.0	✓	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	
Border Gateway Protocol (BGP)																					
Border Gateway Protocol, Version 4	RFC 4271	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGP Community Attributes	RFC 1997	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGP Large Community	RFC 8092	6.0.1	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGP Multiple large communities support in route-map	IPI Proprietary	6.6.1	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGP Route Flap Dampening	RFC 2439	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGP Route Reflection	RFC 4456	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Autonomous System (AS) Confederations for BGP	RFC 5065	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Capabilities Negotiation with BGP-4	RFC 5492	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Applications of BGP-4 in the Internet	RFC 1772	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Protection of BGP Sessions Via the TCP Message-digest (MD5) Signature Option	RFC 2385	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Route Refresh Capability for BGP-4	RFC 2918	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGP Support for Four-Octet AS Number Space	RFC 4893	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Subcodes for BGP Cease Notifications	RFC 4486	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Graceful BGP Session Shutdown	draft-ietf-grow-bgp-gshut-06	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BGPv4 MD5 Authentication	RFC 2385	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BFD Trigger for BGP	RFC 5882	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Route Target Filter	RFC 4684	1.0.0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
Next Hop Tracking	IPI Proprietary	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

[illegible]

[illegible]

EVPN-VXLAN-MAC-Limit			IPI Proprietary	6.6.1	×	×	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VRF export-map extension			IPI Proprietary	7.0.0	×	×	×	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓
EVPN AF route-maps + EVPN route-filtering based on RT			IPI Proprietary	7.0.0	×	×	×	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓
EVPN Layer 3 GW / VXLAN Layer 3 stitching			RFC 9136	7.0.0	×	×	×	×	×	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓
- Multicast																					
Protocol Independent Multicast (PIM)																					
PIM - Sparse Mode (PIM-SM)			RFC 4601	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bootstrap Router (BSR) Mechanism for PIM			RFC 5059	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Static Rendezvous Point Configuration			RFC4601 and RFC 5015	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)			RFC 3973	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM - Source Specific Multicast			RFC 4607	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multicast Source Discovery Protocol (MSDP)			RFC 3618	4.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Support for More than 32 PIM Interfaces			IPI Proprietary	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Source-Specific Protocol-Independent Multicast in 232/8			RFC 4608	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Overview of Source-Specific Multicast (SSM)			RFC 3569	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bidirectional Protocol Independent Multicast (BIDIR-PIM)			RFC 5015		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Interoperability between the Virtual Router Redundancy Protocol and PIM			RFC 7910	4.0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Bidirectional Forwarding Detection (BFD) Trigger for PIM			RFC 5882	5.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM MIB for IPv4			RFC 5060	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Group To RP Mapping			RFC 6226	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anycast-RP Using Protocol Independent			RFC 4610	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM ECMP IPv4			RFC6754	6.1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Protocol Independent Multicast (PIMv6)																					
PIM - Sparse Mode (PIM-SM)-IPv6			RFC 4601	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓
Bootstrap Router (BSR) Mechanism for PIMv6			RFC 5059	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓
Static Rendezvous Point Configuration-IPv6			RFC4601 and RFC 5015	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓
PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)-IPv6			RFC 3973		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM - Source Specific Multicast-IPv6			RFC 4607	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓
Multicast Source Discovery Protocol (MSDP)-IPv6			RFC 3618		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Support for More than 32 PIM Interfaces-IPv6			IPI proprietary	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Source-Specific Protocol-Independent Multicast in 232/8-IPv6			RFC 4608	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	✓	✓
Overview of Source-Specific Multicast (SSM)-IPv6			RFC 3569	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	×	×	✓	×
Bidirectional Protocol Independent Multicast (BIDIR-PIM)-IPv6			RFC 5015		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	✓
Interoperability between the Virtual Router Redundancy Protocol and PIMv6			RFC 7910		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Bidirectional Forwarding Detection (BFD) Trigger for PIMv6			RFC 5882		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM MIB for IPv6			RFC 5060	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Group To RP Mapping-IPv6			RFC 6226		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anycast-RP Using Protocol Independent-IPv6			RFC 4610		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PIM ECMP-IPv6			RFC6754		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internet Group Management Protocol (IGMP)																					
IGMP, Version 2			RFC 2236	1.0.0	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IGMP, Version 3			RFC 3376	1.0.0	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IGMP report suppression for v1, v2 and v3			RFC 4541	1.0.0	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Considerations for IGMP Snooping Switches			RFC 4541	1.0.0	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IGMP-based Multicast Forwarding ("IGMP Proxying")			RFC 4605	1.0.0	✓	✓	×	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multicast Listener Discovery (MLD)																					
MLD, Version 1			RFC 2710	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MLD, Version 2			RFC 3810	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MLD report suppression for v1, v2			RFC 2710,RFC 3810	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MLD-based Multicast Forwarding MLD Proxying")			RFC 4605	6.5.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Considerations for Multicast Listener Discovery (MLD) Snooping Switches			RFC 4541	3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
- Quality of Service (QoS)																					
QoS - General																					
DiffServ Field in IPv4/IPv6 Headers			RFC 2474	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Assign matching traffic flow to a specific queue			RFC 2475	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1/2/3 Level queuing hierarchy			RFC 3644	1.0.0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Layer 2 and Layer 3 QoS			IEEE 802.1p, RFC 2474	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shaping per queue, per port			RFC 3644	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multiple hardware queues per port			IEEE 802.1p, RFC 2474	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Weighted Round Robin (WRR)/ Weighted Fair Queueing (WFQ)/ Strict Priority (SP) Scheduling Per Queue			RFC 4594	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Weighted Random Early Detection (WRED)			RFC 2309	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
802.1p remarking			RFC 2475	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Classification based on Interface, ACL, DSCP, IP precedence, RTP, 802.1p, and VLAN			RFC 2475	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trust IEEE 802.1p/DSCP			RFC 2475	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remarking of bridged packets			IPI Proprietary	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Police Rate (SRTCM/TRTCM)			RFC 2697, RFC 4115	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Minimum and Maximum Bandwidth Per Queue			RFC 3644	1.0.0	✓	✓	✓	×	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Service Queuing (Mapping services to specific VLANs and shaping each VLAN based traffic)			IPI Proprietary	1.0.0 EA	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
VLAN based shaping			IPI Proprietary	DC 1.3.3	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Explicit Congestion Notification			RFC 3168	1.3.8	✓	✓	✓	✓	✓	×	✓	×	✓	✓	✓	✓	✓	✓	✓	✓	✓
QoS Class map statistics			IPI Proprietary	4.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

- QSFP-DD

400G -ZR			CMIS 5.1, OIF-C-CMIS-01.2	×	✓	✓	×	×	×	×	×	×	×	×	×	×	×	×	✓	✓
400G - Open ZR/ZR+			CMIS 5.1, OIF-C-CMIS-01.2	×	✓	✓	×	×	×	×	×	×	×	×	×	×	×	×	✓	✓
800G-Grey			CMIS 5.1, OIF-C-CMIS-01.2	6.6.1	×	×	×	✓	✓	✓	×	×	×	×	×	×	×	×	×	×
800G-ZR, OpenZR/ZR+			CMIS 5.1, OIF-C-CMIS-01.2	6.6.1	×	×	×	✓	✓	×	×	×	×	×	×	×	×	×	×	×
- Digital Diagnostics Monitoring (Transceiver)																				
Digital Diagnostics Monitoring (Transceiver) - General																				
Temperature monitor			SFF-8024, SFF-8436, SFF-8472, SFF-8679	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Power Monitoring (Power, Current, Voltage)			SFF-8024, SFF-8436, SFF-8472, SFF-8679	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hardware MIB and Traps			IPI Proprietary	1.0.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
- Timing and Synchronization																				
Timing and Synchronization - General																				
Timing characteristics of a synchronous equipment slave clock (SyncE)			G.8262	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Distribution of timing information through packet networks (ESMC)			G.8264	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PTP Telecom profile for phase/time synchronization with full timing support from the network (T-BC)			G.8275.1 (T-BC)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Timing characteristics of telecom boundary clocks for use with full timing support from the network (T-BC)			G.8273.2 (T-BC)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PTP Telecom profile for phase/time synchronization with full timing support from the network (T-GM with Antenna compensation)			G.8275.1 (T-GM)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
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) G.8273.4	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PTP TP for time/phase synchronization with partial timing support from the network (T-GM with Antenna Compensation)			G.8275.2 (T-GM)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Default profile (T-BC)			IEEE-1588 (Annex J)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Default profile (T-GM)			IEEE-1588 (Annex J)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PTP Telecom Profile for frequency synchronization (T-GM)			G.8265.1 (T-GM)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PTP Telecom Profile for frequency synchronization (T-TSC)			G.8265.1 (T-TSC)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
E2E Transparent clock (TC)			IEEE-1588 [Works with both G8275.1, G8275.2, default profile], G8273.3	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
IWF (Interworking function)			IEEE-1588	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Timing profile SMPTE 2059-2			IEEE-1588	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
- Subinterface																				
Layer 3 Subinterface																				
Layer 3 termination of IPv4 and IPv6 packets			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
Subinterface on channel group (LAG)			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
VLAN tagged packet - single / double for 802.1q and 802.1ad and combination			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
VLAN tagged packet- 9100, 9200 TPID			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
IPv4 and IPv6 Unicast routing			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
IP VRF			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
MPLS support			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MAC and IPv4 ACL			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	✓	×	×	×
QoS			IPI proprietary	7.0.0	✓	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PIM IPv4			RFC 4601, RFC 3837, RFC 4607, RFC 5015		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PIM IPv6			RFC 4601, RFC 3837, RFC 4607		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Layer 2 Subinterface																				
VLAN tagged packets - single/double for 802.1q and 802.1ad(88a8/9100/9200)			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Untagged and Default			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Static and Dynamic channel-group			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Rewrite operations - PUSH/POP/TRANSLATE for subinterface			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
*AC-AC Cross-connect service(Ethernet Point-to-point)			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Bridge Domain (Local-Briging Ethernet Point-to-MultiPoint)			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MAC and IPv4 ACL			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
QoS			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
VLAN range			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Subinterface support for L2VPN (VPWS, VPLS)			IPI proprietary		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
- MPLS with EVPN																				
MPLS with EVPN - General																				
E-LAN and E-LINE (Single/Multi Homing)			RFC 7432, RFC 8214		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - Auto RT			RFC 8365		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
QoS (Quality of Service)			RFC 3270		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
E-TREE Only optionA (Single Homing)			RFC 8317		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
E-TREE Single Homing			RFC 8317-Scenario 1		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
E-TREE Multi Homing			RFC 8317-Scenario 1		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
E-TREE - Support			RFC 8317- Scenario 2		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS/SR Active-Standby			RFC 7432, RFC 8214, RFC 8365, RFC 8384		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN over Segment-Routing (LSP/Policy)			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS Service Mapping via local Tunnel Policy			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - one to one backup protection			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - facility backup protection			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Egress network counters support			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Support EVPN MPLS with RSVP-ECMP			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Support EVPN MPLS with LDP-ECMP			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - MAC statistics			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - L2CP on EVPN Access			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - SR + TI-LFA			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
EVPN MPLS - BGP-LU			RFC 7432		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×

