

| Feature  | Standard                      | SP First Version Supported | UfiSpace S9502-12SM | UfiSpace S9502-16SMT | UfiSpace S9501-18SMT | UfiSpace S9501-28SMT | UfiSpace S9510-30XC | UfiSpace S9500-30XS | UfiSpace S9500-22XST | UfiSpace S9510-28DC | UfiSpace S9600-72XC  | UfiSpace S9600-32X   | UfiSpace S9600-28DX  | UfiSpace S9600-56DX  | UfiSpace S9600-64X   | UfiSpace S9610-36D    | Edgecore AS5915-18X | Edgecore AS7316-26XB | Edgecore AS7315-27X | Edgecore AS7315-30X | Edgecore AS5916-54XKS | Edgecore AS5916-54XKS-OT | Edgecore AS5912-54X  | Edgecore AS7535-28XB | Edgecore AS7946-74XKSB | Edgecore AS7946-30XB |                      |         |
|--|-------------------------------|----------------------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|---------------------|----------------------|---------------------|---------------------|-----------------------|--------------------------|----------------------|----------------------|------------------------|----------------------|----------------------|---------|
| <b>- Detail</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| Family   |                               |                            | SP                  | SP                   | SP                   | SP                   | SP                  | SP                  | SP                   | SP                  | SP                   | SP                   | SP                   | SP                   | SP                   | SP                    | SP                  | SP                   | SP                  | SP                  | SP                    | SP                       | SP                   | SP                   | SP                     | SP                   | SP                   |         |
| Vendor   |                               |                            | UfiSpace            | UfiSpace             | UfiSpace             | UfiSpace             | UfiSpace            | UfiSpace            | UfiSpace             | UfiSpace            | UfiSpace             | UfiSpace             | UfiSpace             | UfiSpace             | UfiSpace             | UfiSpace              | Edgecore            | Edgecore             | Edgecore            | Edgecore            | Edgecore              | Edgecore                 | Edgecore             | Edgecore             | Edgecore               | Edgecore             | Edgecore             |         |
| Broadcom Chip  |                               |                            | QUX                 | QUX                  | QUX                  | QUX                  | Q2U                 | QAX                 | QAX                  | Q2A                 | Q2C                  | Q2C                  | Q2C                  | Q2C                  | Q2C                  | J2C+                  | QUX                 | QAX                  | QAX                 | QAX                 | QMX                   | QMX                      | QMX                  | Q2A                  | Q2C                    | Q2C                  |                      |         |
| Capacity   |                               |                            | 32                  | 32                   | 64                   | 120                  | 300                 | 300                 | 300                  | 800                 | 2400                 | 2400                 | 2400                 | 4800                 | 4800                 | 14400                 | 64                  | 300                  | 300                 | 300                 | 800                   | 800                      | 800                  | 800                  | 2400                   | 2400                 |                      |         |
| <b>- Supported Product</b>   |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
|  |                               |                            | Compare             | Compare              | Compare              | Compare              | Compare             | Compare             | Compare              | Compare             | Compare              | Compare              | Compare              | Compare              | Compare              | Compare               | Compare             | Compare              | Compare             | Compare             | Compare               | Compare                  | Compare              | Compare              | Compare                | Compare              | Compare              | Compare |
|  |                               |                            | OCNOS-CSR-32        | OCNOS-CSR-32         | OCNOS-CSR-64         | OCNOS-CSR-120        | OCNOS-SP-PLUS-300   | OCNOS-CSR-300       | OCNOS-CSR-300        | OCNOS-SP-PLUS-800   | OCNOS-SP-PLUS-2400   | OCNOS-SP-PLUS-2400   | OCNOS-SP-PLUS-2400   | OCNOS-SP-PLUS-4800   | OCNOS-SP-PLUS-4800   | OCNOS-SP-PLUS-14400   | OCNOS-CSR-64        | OCNOS-CSR-300        | OCNOS-CSR-300       | OCNOS-CSR-300       | OCNOS-CSR-800         | OCNOS-SP-MPLS-800        | OCNOS-SP-MPLS-800    | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400     | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400   |         |
|  |                               |                            | OCNOS-CSR-120       | OCNOS-CSR-120        | OCNOS-CSR-120        | OCNOS-SP-MPLS-120    | OCNOS-SP-MPLS-300   | OCNOS-SP-MPLS-300   | OCNOS-SP-MPLS-300    | OCNOS-SP-MPLS-800   | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-4800   | OCNOS-SP-MPLS-4800   | OCNOS-SP-MPLS-14400   | OCNOS-CSR-120       | OCNOS-SP-MPLS-300    | OCNOS-SP-MPLS-300   | OCNOS-SP-MPLS-300   | OCNOS-SP-MPLS-800     | OCNOS-SP-MPLS-800        | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400     | OCNOS-SP-MPLS-2400   | OCNOS-SP-MPLS-2400   |         |
|  |                               |                            | OCNOS-SP-MPLS-32    | OCNOS-SP-MPLS-32     | OCNOS-SP-MPLS-64     | OCNOS-SP-IPBASE-120  | OCNOS-SP-IPBASE-300 | OCNOS-SP-IPBASE-300 | OCNOS-SP-IPBASE-300  | OCNOS-SP-IPBASE-800 | OCNOS-SP-IPBASE-2400 | OCNOS-SP-IPBASE-2400 | OCNOS-SP-IPBASE-2400 | OCNOS-SP-IPBASE-4800 | OCNOS-SP-IPBASE-4800 | OCNOS-SP-IPBASE-14400 | OCNOS-SP-MPLS-64    | OCNOS-SP-IPBASE-300  | OCNOS-SP-IPBASE-300 | OCNOS-SP-IPBASE-300 | OCNOS-SP-IPBASE-800   | OCNOS-SP-IPBASE-800      | OCNOS-SP-IPBASE-2400 | OCNOS-SP-IPBASE-2400 | OCNOS-SP-IPBASE-2400   | OCNOS-SP-IPBASE-2400 | OCNOS-SP-IPBASE-2400 |         |
|  |                               |                            | OCNOS-SP-MPLS-120   | OCNOS-SP-MPLS-120    | OCNOS-SP-MPLS-120    |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       | OCNOS-SP-MPLS-120   |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
|  |                               |                            | OCNOS-SP-IPBASE-32  | OCNOS-SP-IPBASE-32   | OCNOS-SP-IPBASE-64   |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       | OCNOS-SP-IPBASE-64  |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
|  |                               |                            | OCNOS-SP-IPBASE-120 | OCNOS-SP-IPBASE-120  | OCNOS-SP-IPBASE-120  |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       | OCNOS-SP-IPBASE-120 |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| <b>- Layer 1</b>   |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| xConnect   | IPI Proprietary               | 4.2                        | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    | ×                    |         |
| xConnect Resiliency  | IPI Proprietary               | 4.2                        | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    | ×                    |         |
| <b>- Layer 2</b>   |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| <b>Virtual Local Area Network (VLAN)</b>   |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| Virtual LANs with Port-based VLANs   | IEEE 802.1Q (2005)            | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Routed VLAN interface  | IEEE 802.1Q (2005)            | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Port based VLAN interface  | IEEE 802.1Q (2005)            | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Private VLAN   | IEEE 802.1Q (2005)            | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| <b>Spanning Tree Protocol (STP)</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| STP  | IEEE 802.1D (2004)            | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Multiple Spanning Tree Protocol (MSTP)   | IEEE 802.1Q (2005)- Clause 13 | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Rapid Spanning Tree (RSTP)   | IEEE 802.1D (2004)- Clause 17 | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Rapid Per VLAN Spanning Tree (RPVST+)  | Cisco Proprietary             | 1.0.0                      | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    | ×                    |         |
| <b>Link Layer Discovery Protocol (LLDP)</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| LLDP v2  | IEEE 802.1ab 2009             | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| <b>Link Aggregation</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| Link Aggregation Control Protocol (LACP)   | IEEE 802.3ad-2002             | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Static link aggregation group  | IEEE 802.3ad-2002             | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| Load Balancing on interfaces with unequal bandwidths   | IPI Proprietary               | 5.1 MR                     | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| <b>Multi-Chassis Link Aggregation (Layer2 only)</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| Multi-Chassis Link Aggregation (MLAG)  | IPI Proprietary               | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| MLAG Active/Standby support as attachment circuit for VPWS Pseudowire Redundancy   | IPI Proprietary               | 1.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| <b>MLAG with RSTP</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| MLAG Active/Active over po interface   | IPI Proprietary               | 6.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| MLAG Active/Standby over po interface  | IPI Proprietary               | 6.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| MLAG Active/Active over sa interface   | IPI Proprietary               | 6.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| MLAG Active/Standby over sa interface  | IPI Proprietary               | 6.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| UCMP MLAG Active/Active over sa interface  | IPI Proprietary               | 6.5.1                      | ×                   | ×                    | ×                    | ×                    | ×                   | ✓                   | ✓                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    |                      |         |
| UCMP MLAG Active/Standby over sa interface   | IPI Proprietary               | 6.5.1                      | ×                   | ×                    | ×                    | ×                    | ×                   | ✓                   | ✓                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    |                      |         |
| <b>Protected Port on MLAG with RSTP</b>  |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| Protected Port on MLAG+RSTP Active/Active over po interface  | IPI Proprietary               | 6.0.0                      | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    | ×                    |         |
| Protected Port on MLAG+RSTP Active/Active over SA interface  | IPI Proprietary               | 6.0.0                      | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    | ×                    |         |
| <b>MLAG + Provider Bridging (PB) with RSTP</b>   |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| MLAG+PB Active/Active over po interface  | IPI Proprietary               | 6.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| MLAG+PB Active/Standby over po interface   | IPI Proprietary               | 6.0.0                      | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    |                      |         |
| MLAG+PB Active/Active over sa interface  | IPI Proprietary               | 6.0.0                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| MLAG+PB Active/Standby over sa interface   | IPI Proprietary               | 6.0.0                      | ×                   | ×                    | ×                    | ×                    | ×                   | ×                   | ×                    | ×                   | ×                    | ×                    | ×                    | ×                    | ×                    | ×                     | ×                   | ×                    | ×                   | ×                   | ×                     | ×                        | ×                    | ×                    | ×                      | ×                    | ×                    |         |
| <b>MLAG+VRRPv4 with RSTP</b>   |                               |                            |                     |                      |                      |                      |                     |                     |                      |                     |                      |                      |                      |                      |                      |                       |                     |                      |                     |                     |                       |                          |                      |                      |                        |                      |                      |         |
| 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                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |
| 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                      | ✓                   | ✓                    | ✓                    | ✓                    | ✓                   | ✓                   | ✓                    | ✓                   | ✓                    | ✓                    | ✓                    | ✓                    | ✓                    | ✓                     | ✓                   | ✓                    | ✓                   | ✓                   | ✓                     | ✓                        | ✓                    | ✓                    | ✓                      | ✓                    | ✓                    |         |

| Feature   | Standard                        | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | Edgecore   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      |               |             |
|---|---------------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|---------------|-------------|
|   |                                 |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-74XKSB | AS7946-30XB |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| MLAG+VRRPv4 Active/Active over sa interface   | IPI Proprietary                 | 6.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| MLAG+VRRPv4 Active/Standby over sa interface  | IPI Proprietary                 | 6.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| DHCP Relay over MLAG+VRRPv4 + Static route  | IPI Proprietary                 | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| <b>MLAG+VRRPv6 with RSTP</b>  |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| MLAG+VRRPv6 Active/Standby over po interface  | IPI Proprietary                 | 6.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| MLAG+VRRPv6 Active/Active over sa interface   | IPI Proprietary                 | 6.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| MLAG+VRRPv6 Active/Standby over sa interface  | IPI Proprietary                 | 6.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| <b>Link Bonding</b>   |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Link Bonding - For transmission over several slower links (Eg: Radio links) which are bonded together. Packets are fragmented and reassembled.  | Broadcom Proprietary            | SP 5.2                     | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| <b>Data Center Bridging (DCB)</b>   |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Priority-based Flow Control (PFC) with QoS  | IEEE 802.1Qbb                   |                            | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| DCBX  | IEEE 802.1Qaz IEEE 802.1ab 2009 |                            | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| <b>Provider Bridging (PB)</b>   |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Layer 2 Tunneling Protocol (L2PT)/ Layer 2 Control Protocols (L2CP)   | RFC 2661/IEEE 802.1Q (2014)     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| SVLAN translation (Also supports CVLAN modification option)   | IEEE 802.1ad                    | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Changing the outer TPID (Tag Protocol Identifier) of provider network port  | IEEE 802.1ad                    | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Q-in-Q Layer 3 Termination  | IEEE 802.1ad                    | 1.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| <b>Other Layer 2 Features</b>   |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| 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                     | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| TFO (Trigger FailOver)  | IPI Proprietary                 | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Port Security   | IPI Proprietary                 | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| VLAN Cross Connect  | IPI Proprietary                 |                            | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| VLAN Cross Connect with double TAG  | IPI Proprietary                 |                            | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             |               |             |
| LACP Force-up   | IPI Proprietary                 | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| 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                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| <b>- Layer 3</b>  |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| <b>Address Resolution Protocol (ARP)</b>  |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Ethernet ARP  | RFC 826                         | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| <b>Path MTU</b>   |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Path Maximum Transmission Unit (MTU) for IPv4 and IPv6  | RFC 1191 (obsoletes 1063)       | 1.0.0                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             | ✗             |             |
| <b>Routing</b>  |                                 |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| 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                   | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Route-Map Continue  | IPI Proprietary                 |                            | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             | ✗             |             |

| Feature   | Standard  | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | Edgecore   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore     |                 |             |
|---|---|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|--------------|-----------------|-------------|
|   |   |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKS | AS7946-74XKS-SB | AS7946-30XB |
| Static Route Discard  | IPI Proprietary   |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×            |                 |             |
| Policy Based Routing  | IPI Proprietary   | 4.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            |                 |             |
| Inter Virtual Routing and Forwarding (VRF) Route Leaking  | IPI Proprietary   | 4.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            |                 |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            |                 |             |
| <b>URPF (Unicast Reverse Path Forwarding)</b>   |   |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |              |                 |             |
| Loose mode  | RFC 3704  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| Loose default mode  | RFC 3704  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| Strict mode   | RFC 3704  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| <b>Border Gateway Protocol (BGP)</b>  |   |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |              |                 |             |
| 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 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP - Outbound Route Filter   | RFC 5292  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP - Labeled Unicast ( BGP-LU)   | RFC 3107  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP MIB   | RFC 4273  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Graceful-Restart  | RFC 4724  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| Inter-VRF route leaking for user-defined VRFs   | RFC 4364  | 4.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Dynamic Peering   | IPI Proprietary   | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Unnumbered – using extended next hop encoding (ENHE)  | RFC 5549  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Peer Groups   | IPI Proprietary   | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Add Path - Advertisement of Multiple Paths in BGP   | RFC 7911  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| 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                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| The Accumulated IGP Metric Attribute for BGP  | RFC 7311  | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| Extended BGP Administrative Shutdown Communication  | RFC 9003  | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| Extended Optional Parameters Length for BGP OPEN Message  | RFC 9072  | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP community for IANA (Internet Assigned Numbers Authority) reserved address for blackholing   | RFC 7999  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| Advertising IPv4 Network Layer Reachability Information (NLR) with an IPv6 Next Hop   | RFC 8950  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP GR for VPN Address Family   | RFC 4724  | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP PIC Edge  | draft-ietf-rtgwg-bgp-pic-19                                   | 6.2.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Flowspec  | RFC 8955  | 6.3.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| <b>BGP-LS (Link State)</b>  |   |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |              |                 |             |
| BGP Link state distribution (OSPF)  | RFC 7752  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Link state distribution (ISIS)  | RFC 7752  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Link state distribution for OSPF-SR   | draft-ietf-idr-bgp-ls-segment-routing-ext-12                  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |
| BGP Link state distribution for ISIS-SR   | draft-ietf-idr-bgp-ls-segment-routing-ext-12 draft-ietf-isis- | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓            | ✓               |             |

| Feature   | Standard                                     | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | Edgecore   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      |               |             |
|---|--|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|---------------|-------------|
|   |  |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-74XKSB | AS7946-30XB |
| BGP-LS extensions for Segment Routing (SR) BGP Egress Peer Engineering                                | draft-ietf-idr-bgpis-segment-routing-eppe-19 | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| BGP - Link State (BGP-LS) Advertisement of IGP Traffic Engineering Performance Metric Extensions      | RFC 8571                                     | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| <b>Routing Information Protocol (RIP)</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| RIP Version 1   | RFC 1058                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| RIP and RIP Version 2   | RFC 2453                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Increment Metrics When Sending Routes, Not When Receiving   | RFC 2453                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| RIP-2 MD5 Authentication  | RFC 2082                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| <b>Open Shortest Path First (OSPF)</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Open Shortest Path First Version 2  | RFC 2328                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Applicability statement for OSPF  | RFC 1370                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Opaque Link State Advertisements (LSA)   | RFC 5250                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Graceful Restart   | RFC 3623                                     | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF as PE/CE protocol for BGP/MPLS IP VPN  | RFC 4577                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Passive Interface Support for OSPFv2  | IPI Proprietary                              | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Multiarea adjacency  | RFC 5185                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Not-So-Stubby-Area (NSSA) Option   | RFC 3101                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IP FRR (Fast Reroute): OSPF-LFA (Loop-Free Alternate)   | RFC 5286                                     | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Bidirectional Forwarding Detection (BFD) Trigger for OSPFv2   | RFC 5882                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Link Local Signaling  | RFC 2328                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Virtual link  | RFC 2328                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Traffic Engineering (TE) Metric Extensions   | RFC 7471                                     | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Sham-link between VPN (Virtual Private Networks) sites   | RFC 4577                                     | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Version 3 for IPv6 Support   | RFC 5340                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Passive Interface Support in OSPFv3   | IPI Proprietary                              | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Graceful Restart Mechanism for OSPFv3   | RFC 5187                                     | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| BFD Trigger for OSPFv3  | RFC 5613                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Authentication/Confidentiality for OSPFv3 with IPsec  | RFC 4552                                     | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPFv3 MTU  | RFC 5340                                     | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF LDP Sync   | IPI Proprietary                              | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Support For Demand Circuits  | RFC 1793                                     | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| OSPF Stub Router Advertisement  | RFC 6987                                     | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IP Fast Reroute - Remote Loop-Free Alternate for OSPF(RLFA)   | RFC 7490 RFC 8102                            | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| <b>Intermediate System-Intermediate System (ISIS)</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Use of OSI IS-IS for routing in TCP/IP and dual environments  | RFC 1195                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Management Information Base (MIB) for ISIS  | RFC 4444                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Original ISO specification of IS-IS   | ISO 10589                                    | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Dynamic Hostname Exchange Mechanism for IS-IS   | RFC 2763                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Restart Signaling (Graceful Restart) for IS-IS  | RFC 5306                                     | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Routing IPv6 with IS-IS   | RFC 5308                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IS-IS Exponential Back-off of SPF (Shortest Path First)   | RFC 8541                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Intermediate System to Intermediate System for IPv6   | IPI Proprietary                              | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Passive Interface Support for IS-IS   | IPI Proprietary                              | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Bidirectional Forwarding Detection Trigger for IS-IS  | RFC 5882                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IS-IS Mesh Groups   | RFC 2973                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Domain-wide Prefix Distribution with Two-Level IS-IS  | RFC 2966                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Three-Way Handshake for Intermediate System to Intermediate System (IS-IS) Point-to-Point Adjacencies | RFC 3373                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IS-IS extensions for Traffic Engineering  | RFC 5305                                     | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| ISIS Traffic Engineering (TE) Metric Extensions   | RFC 8570                                     | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| M-ISIS: Multi Topology (MT) Routing in IS-IS  | RFC 5120                                     | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IS-IS Cryptographic Authentication  | RFC 3567                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IS-IS Expanded Use of Overload Bit for BGP Convergence  | RFC 3277                                     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| IP Fast Reroute - Loop-Free Alternate for IS-IS   | RFC 5286                                     | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Micro-loop avoidance (IS-IS)  | RFC 6976                                     | 6.3.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Invalid TLV Handling in IS-IS   | RFC 8918                                     | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| <b>Bidirectional Forwarding Detection (BFD)</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |

| Feature   | Standard                  | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | Edgecore   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      |               |             |
|---|---------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|---------------|-------------|
|   |                           |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS9915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-74XKSB | AS7946-30XB |
| BFD   | RFC 5880                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| BFD for IPv4 single hop   | RFC 5881                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Generic Application for BFD   | RFC 5882                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| BFD Multi-hop   | RFC 5883                  | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| BFD Over BGP / ISIS / OSPF / Static route   | RFC 5882                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| BFD Over Non-default VRF for static (IPv4 and IPv6) and OSPF v2 and v3  | RFC 5880,RFC 5882         | 4                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| BFD Authentication for MultiHop BFD   | RFC 5880                  | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| MIB support for BFD   | IPI proprietary, RFC 7331 | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| <b>Virtual Router Redundancy Protocol (VRRP)</b>  |                           |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| VRRP Version 3 for IPv4   | RFC 5798                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| VRRP Version 3 for IPv6   | RFC 5798                  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| VRRP Interface Tracking   | IPI proprietary           | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| VRRP Authentication for VRRP v2 backward compatibility  | RFC 2328                  | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| VRRP Object Tracking  | IPI proprietary           | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| <b>- Multi-Protocol Label Switching (MPLS)</b>  |                           |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| <b>MPLS – General</b>   |                           |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| MPLS Architecture   | RFC 3031                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| MPLS Label Stack Encoding   | RFC 3032                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks   | RFC 3443                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| MPLS Diffserv   | RFC 3270                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Multiprotocol Label Switching (MPLS) Label Switching Router (LSR) Management Information Base (MIB)   | RFC 3813                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| MPLS reachability for LU nexthop tracking   | IPI proprietary           | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| <b>Label Distribution Protocol (LDP)</b>  |                           |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| LDP   | RFC 5036                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Applicability   | RFC 3037                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Support for LDP TCP-MD5   | RFC 5036                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Definitions of Managed Objects for the MPLS and LDP   | RFC 3815                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Downstream-on-Demand (DoD) in Seamless MPLS   | RFC 7032                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Extension for Inter-Area Label Switched Paths (LSPs)  | RFC 5283                  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Graceful Restart  | RFC 3478                  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Fast Re-Route (FRR)   | RFC 5286                  | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Remote Loop Free Alternate IP Fast Reroute (RLFAs)  | RFC 7490                  | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Session Protection  | RFC 8223                  | 5.1 MR                     | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP ECMP  | IPI proprietary           | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Authentication support for Auto Targeted Peer   | IPI proprietary           | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| LDP Tunneling over RSVP-TE  | IPI Proprietary           | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ×          | ✓           | ✓          | ×          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ×          | ✓           | ✓             |               |             |
| <b>Resource Reservation Protocol (RSVP)</b>   |                           |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| RSVPv1  | RFC 2205                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP Refresh Overhead Reduction Extensions  | RFC 2961                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Inter-area RSVP-TE  | RFC 4105                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             |               |             |
| Fast Reroute Extensions to RSVP-TE for LSP Tunnels One-to-One Backup  | RFC 4090                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Fast Reroute Extensions to RSVP-TE for LSP Tunnels - Facility Backup  | RFC 4090                  | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVPv1 message processing rules   | RFC 2209                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Entropy label support for RSVP transport  | RFC 6790                  | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP re-optimization  | IPI Proprietary           | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Diffserv Traffic Engineering (DSTE)   | RFC 3564                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             |               |             |
| Protocol Extensions for Support of Diff-serv-aware MPLS Traffic Engineering   | RFC 4124                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| Maximum Allocation Bandwidth Constraints Model for Diff-serv-aware MPLS Traffic Engineering   | RFC 4125                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             |               |             |
| Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB)   | RFC 3812                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP multiple secondary   | IPI Proprietary           | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP Shared Risk Link-Group (SRLG) support (Supported for OSPFv2 only)  | RFC 4203 (Section 1.3)    | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP MIB  | RFC 2206                  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP Multipath (Mapping services over multiple RSVP trunks)   | IPI Proprietary           | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP Graceful Restart   | RFC 3473                  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |
| RSVP-TE dynamic facility backup LSP   | IPI Proprietary           | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |               |             |

| Feature  | Standard                   | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore    | Edgecore      |               |
|--|----------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|-------------|---------------|---------------|
|  |                            |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7535-28XB | AS7946-74XKSB | AS7946-74XKSB |
| Auto-Bandwidth with RSVP-TE  | IPI Proprietary            | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ×          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| <b>Layer 2 VPN (VPWS and VPLS)</b>   |                            |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |
| Pseudowire Setup and Maintenance using the Label Distribution Protocol   | RFC 4447                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| VPWS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag   | IPI Proprietary            | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| VPLS ethernet action (Service Mapping, Action) 1> POP outer tag 2> XLATE outer tag 3> Push tag   | IPI Proprietary            | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Multiple match criteria for VPWS Ethernet Encapsulation using Service Template   | IPI Proprietary            | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Multiple match criteria for VPLS Ethernet Encapsulation using Service Template   | IPI Proprietary            | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Encapsulation Methods for Transport of Ethernet Over MPLS Networks   | RFC 4448                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Static VPLS  | IPI Proprietary            | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling   | RFC 4762                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Virtual Private LAN Service (VPLS) Using BGP for signaling and auto-discovery  | RFC 4761                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Static pseudowire Setup and Maintenance  | IPI Proprietary            | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Pseudowire MIB support   | RFC 5601                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Pseudowire (PW) over MPLS PSN (Packet Switched Network) Management Information Base (MIB)  | RFC 5602                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Ethernet Pseudowire (PW) Management Information Base (MIB)   | RFC 5603                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| FAT Pseudowire(PW) Label   | RFC 6391                   | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| L2CP/L2PT over VPWS  | IPI Proprietary            | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Split-horizon for VPLS   | IPI Proprietary            | 6.3.0                      | ✓          | ✓           | ✓           | ✓           | ×          | ✓          | ✓           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ×           | ×           | ×             |               |
| Hierarchical VPLS  | RFC 4762                   | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| <b>Layer 3 VPN</b>   |                            |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |
| Extranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs)   | RFC 4364                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| OSPF as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)   | RFC 4577                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Intranet VPNs with BGP/MPLS IP Virtual Private Networks (VPNs)   | RFC 4364                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Static route as the Provider Edge/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)   | RFC 4364                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| BGP-MPLS IP Virtual Private Network (VPN) Extension for IPv6 VPN (6vPE)  | RFC 4659                   | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Connecting IPv6 Islands over IPv4 MPLS using IPv6 Provider Edge Routers (6PE)  | RFC 4798                   | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Label Disposition for VPNv4 and 6VPE   | RFC 4364,RFC 4659          | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Label Disposition for 6PE  | RFC 4798                   | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Inter AS option A support for L3PVN/6VPE/6PE   | RFC 4364,RFC 4659,RFC 4798 | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Inter AS option B support for L3PVN/6VPE/6PE   | RFC 4364,RFC 4659,RFC 4798 | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Inter AS option C support for L3PVN/6VPE/6PE   | RFC 4364,RFC 4659,RFC 4798 | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| PER VRF Label support for 6PE  | IPI proprietary            | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| LU as transport for 6VPE/VPN   | RFC 4659                   | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| BGP Peer Group - static  | IPI proprietary            | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Internet access for L3VPN  | RFC 4365 section 10.1      | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| L3VPN MIB  | RFC 4382                   | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| <b>MPLS OAM</b>  |                            |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |
| OAM for MPLS networks  | RFC 4377                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| A framework for MPLS OAM   | RFC 4378                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Detecting MPLS Data Plane Failures   | RFC 4379                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| MPLS BFD Detection   | RFC 5884, RFC 5885         | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| <b>MPLS PW and LSP Traffic Statistics</b>  |                            |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |
| Stats per Label Switched Path (LSP)  | IPI Proprietary            | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Stats per Virtual Circuit (VC)   | IPI Proprietary            | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| L2VPN Statistics MIB   | IPI Proprietary            | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| <b>- Carrier Ethernet</b>  |                            |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |
| <b>Connectivity Fault Management (CFM)</b>   |                            |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |
| 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                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Continuity check (multicast CCM)   | IEEE 802.1ag - 2007        | 1.0.0 ED1                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Ping (unicast)   | IEEE 802.1ag - 2007        | 1.0.0 ED1                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Link trace   | IEEE 802.1ag - 2007        | 1.0.0 ED1                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| Fault reporting (RDI, MAC Status defect, CCM Cross Connect Defect, Error CCM Defect)   | IEEE 802.1ag - 2007        | 1.0.0 ED1                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |
| CFM over Layer 2 Bridge with xSTP  | IEEE 802.1ag - 2007        | 1.0.0 ED1                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |

| Feature   | Standard                | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      |             |  |
|---|-------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|-------------|--|
|   |                         |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7315-28XB | AS7946-74XKSB | AS7946-30XB |  |
| CFM over VPWS using Subinterface  | IEEE 802.1ag / RFC 8214 | 6.2.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CCM over VPWS using Service Template(will be deprecated in 6.6)   | IEEE 802.1ag - 2007     | 1.0.0 ED2.1                | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over EVPN MPLS ELINE Single Homing  | IEEE 802.1ag / RFC 8214 | 4.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over EVPN MPLS ELINE Multi Homing(Active/Active)  | IEEE 802.1ag / RFC 8214 | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over EVPN MPLS ELINE Multi Homing(Active/Standby - Port-Active)   |                         |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             |             |  |
| CFM over EVPN MPLS ELINE Multi Homing(Active/Standby - Single-Active)   |                         |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             |             |  |
| CFM over EVPN MPLS ELAN Single Homing   |                         | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over EVPN MPLS ELAN Multi Homing(Active/Active)   |                         | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over xConnect   | IEEE 802.1ag - 2007     | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over PB   | IEEE 802.1ag - 2007     | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM using L2 subinterface   | IEEE 802.1ag - 2007     | 6.2.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| CFM over VPLS   | IEEE 802.1ag - 2007     |                            | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| <b>Performance Monitoring</b>   |                         |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| Frame Delay and inter frame delay variation measurement using DMM and DMR over Layer 2 Bridge   | Y.1731                  | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over VPWS   | Y.1731                  | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over VPLS   | Y.1731                  | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over EVPN MPLS ELINE Single Homing                                | Y.1731                  | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over EVPN MPLS ELINE Multi Homing(Active/Active)                  | Y.1731                  | 6.5.1                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over EVPN MPLS ELINE Multi Homing(Active/Standby - Port-Active)   | Y.1731                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over EVPN MPLS ELINE Multi Homing(Active/Standby - Single-Active) | Y.1731                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over EVPN MPLS ELAN Single Homing                                 | Y.1731                  | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over EVPN MPLS ELAN Multi Homing(Active/Active)                   | Y.1731                  | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Delay and inter frame delay variation measurement using DMM (Delay Measurement Message) and DMR (Delay Measurement Reply) over xConnect   | Y.1731                  | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over Layer 2 Bridge  | Y.1731                  | 1.0 ED2.4                  | ×          | ×           | ×           | ×           | ×          | ✓          | ✓           | ✓          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ×           | ×             | ×           |  |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over VPWS  | Y.1731                  | 1.0 ED2.4                  | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Loss Measurement using LMM/LMR over VPLS  | Y.1731                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Loss Measurement using SLM/SLR over VPLS  | Y.1731                  | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Loss Measurement using LMM/LMR over EVPN MPLS ELINE Single Homing   | Y.1731                  | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Loss Measurement using SLM/SLR over EVPN MPLS ELINE Single Homing   | Y.1731                  | 6.5.1                      | ×          | ×           | ×           | ×           | ×          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ✓           |  |
| Frame Loss Measurement using LMM/LMR over EVPN MPLS ELINE Multi Homing(Active/Active)   | Y.1731                  | 6.5.2                      | ✓          | ✓           | ✓           | ✓           | ×          | ✓          | ✓           | ✓          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ×           | ×             | ×           |  |
| Frame Loss Measurement using SLM/SLR over EVPN MPLS ELINE Multi Homing(Active/Active)   | Y.1731                  | 6.5.2                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ✓           |  |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over EVPN MPLS ELINE Multi Homing(Active/Standby - Port-Active)  | Y.1731                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over EVPN MPLS ELINE Multi Homing(Active/Standby - Single-Active)  | Y.1731                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Loss Measurement using LMM/LMR over EVPN MPLS ELAN Single Homing  | Y.1731                  | 6.5.2                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Loss Measurement using SLM/SLR over EVPN MPLS ELAN Single Homing  | Y.1731                  | 6.5.2                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ✓           |  |
| Frame Loss Measurement using LMM/LMR over EVPN MPLS ELAN Multi Homing(Active/Active)  | Y.1731                  | 6.5.2                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Frame Loss Measurement using SLM/SLR over EVPN MPLS ELAN Multi Homing(Active/Active)  | Y.1731                  | 6.5.2                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ✓           |  |
| Frame Loss Measurement using LMM/LMR and SLM/SLR over xConnect  | Y.1731                  | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Frame Loss Diagnostics ETH-TST/LCK  | Y.1731                  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Y.1731 Ethernet Bandwidth Notification (EBN)  | Y.1731                  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Ethernet Client Signal Fail (ETH-CSF)   | G.8013/Y.1731           | 5.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Y.1731 over PB  | Y.1731                  | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Y.1731 over Subinterface  | Y.1731                  |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×           |  |
| Y.1731 over MPLS/VPWS using Subinterface  | Y.1731                  | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Y.1731 over MPLS/VPWS using Service Template  | Y.1731                  | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Y.1731 over MPLS/VPLS using Subinterface  | Y.1731                  |                            | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Y.1731 over EVPN MPLS ELINE Single Homing   | Y.1731                  | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| <b>Ethernet Ring Protection (ERPS)</b>  |                         |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| ERPS over CFM on Provider/Customer domain   | ITU-T G.8032v2          | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Sub-ring support (Multiple ring and ladder topologies)  | ITU-T G.8032v2          | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Support of multiple ERP instances on single ring  | ITU-T G.8032v2          | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Over Native-L2  | ITU-T G.8032v2          | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Over Bridge-domain  | ITU-T G.8032v2          | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |

| Feature   | Standard                             | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      | Edgecore    |             |
|---|--------------------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|-------------|-------------|
|   |                                      |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-30XB | AS7946-30XB |
| Over MPLS   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Over EVPN   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Over LAG interface  | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| With CFM (for link fault detection)   | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Separate Control and Data-VLAN  | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Multiple major ring   | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Multiple Sub-ring   | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Sub-ring with virtual channel   | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Sub-ring without virtual channel  | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Multiple instances over same physical ring  | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| E-Line over G.8032 (1-1) (Ref. Sec.7.3 ITU-T-Series-G-Sup-52)   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| E-Line over G.8032 (1+1) (Ref. Sec.7.3 ITU-T-Series-G-Sup-52)   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| E-Tree Over G.8032 (Ref. Sec.7.4 ITU-T-Series-G-Sup-52)   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| E-LAN Over G.8032 (Ref. Sec.7.5 ITU-T-Series-G-Sup-52)  | ITU-T G.8032v2                       | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Mixed E-Services Over G.8032 (Ref. Sec.7.6 ITU-T-Series-G-Sup-52)   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Dual-homed connectivity to EVPN network (Ref. Sec.8 ITU-T-Series-G-Sup-52)                                | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Single node resilient connectivity to EVPN network (Ref. Sec.8 ITU-T-Series-G-Sup-52)                     | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Single node resilient connectivity to VPLS network (Ref. Sec.8 ITU-T-Series-G-Sup-52)                     | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Dual-homed connectivity to VPLS network (Ref. Sec.8 ITU-T-Series-G-Sup-52)                                | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| G.8032 resilient inter-network connectivity (Ref. Sec.8 ITU-T-Series-G-Sup-52)                            | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| G.8031 service Over G.8032 (Ref. Sec.10.2 ITU-T-Series-G-Sup-52)  | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Access Sub-Ring connected to Major ring (Ref. Sec.10.3 ITU-T-Series-G-Sup-52)                             | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Non-ERP node connected to major ring (Ref. Sec.10.4 ITU-T-Series-G-Sup-52)                                | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Revertive Mode  | ITU-T G.8032v2                       | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Non-Revertive Mode  | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Force Switch  | ITU-T G.8032v2                       | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Manual Switch   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Segmentation minimization (Ref. Sec.13 ITU-T-Series-G-Sup-52)   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Y.1731 Over G.8032 ring   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| MLAG (Active-Standby with IDP link) interconnection with G.8032 major ring                                | ITU-T G.8032v2                       | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| MLAG (Active-Standby with IDL link) interconnection with G.8032 major ring                                | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| MLAG IDL link as G.8032 ring port   | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| User control over non-data VLAN forwarding (Block/unblock) : For Sub-Interface (as MPLS access interface) | ITU-T G.8032v2                       | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| User control over non-data VLAN forwarding (Block/unblock) : For I2 interface                             | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Traffic switchover within 50ms  | ITU-T G.8032v2                       |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| <b>Ethernet in the First Mile (EFM)</b>   |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |             |
| Ether OAM (EFM)   | IEEE 802.3ah                         | 5.0                        | ✓          | ✓           | ✓           | ✓           | x          | ✓          | ✓           | x          | x          | x         | x          | x          | x         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | x          | x           | x             |             |             |
| <b>- Virtual Extensible LAN (VXLAN)</b>   |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |             |
| <b>Virtual Extensible LAN (VxLAN) - General</b>   |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |             |
| Layer 2 EVPN for VXLAN  | RFC 7348, RFC 7432, RFC 8365         | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Layer 2 EVPN Auto RT for VXLAN  | RFC 8365                             | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Layer 2 EVPN Multihoming for VXLAN  | RFC 7432, RFC 8365                   | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| VxLAN EVPN with BGP unnumbered  | IPI proprietary                      | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| EVPN VXLAN- L2CP on EVPN Access   | IPI proprietary                      | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| VXLAN - QoS   | RFC 2474                             | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| VXLAN - Ethernet Virtual Connection (EVC)   | RFC 7348                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Integrated Routing and Bridging (IRB) with VXLAN  | RFC 9135                             | 4.1                        | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Selectively Enabling Multiple IP addresses on Anycast-gateway   |                                      |                            | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| VXLAN IRB QoS   | RFC 2474                             | 4.2                        | x          | x           | x           | x           | x          | ✓          | ✓           | x          | x          | x         | x          | x          | x         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | x          | x           | x             |             |             |
| Prefix Route for EVPN IRB for VxLAN   | RFC 9136                             | 4.1                        | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| VXLAN EVPN ARP/ND cache Ageing  | draft-ietf-bess-evpn-proxy-arp-nd-02 | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| Inter-VRF route leaking over VXLAN-EVPN   | RFC 9135, RFC 4364                   | 4.2                        | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| IPv4 and IPv6 DHCP Relay for VxLAN IRB  | RFC 6607                             | 5.0                        | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| VXLAN tunnel over SVI interface   | RFC 8365                             | 1.0 ED2.4                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |
| SNMP support for VXLAN statistics and traps   | IPI proprietary                      | 4.2                        | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |             |
| Static VXLAN  | RFC 7348                             | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |             |



| Feature   | Standard                       | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore    | Edgecore      |               |             |
|---|--------------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|-------------|---------------|---------------|-------------|
|   |                                |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7535-28XB | AS7946-74XKSB | AS7946-74XKSB | AS7946-30XB |
| VXLAN Trunk as access port  | RFC 7348                       | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| VXLAN - Overlay Equal-Cost Multipath (ECMP)                               | RFC 7348                       | 5.0                        | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| VxLAN E-LINE/X-connect  | RFC 8214                       | 5.1                        | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| VxLAN- Subif as access  | IPI proprietary                | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| Service Monitoring over VxLAN ( Ping, Pathtrace, CCM Functionality)       | draft-tissa-nvo3-oam-fm-04.txt |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             |               |             |
| IRB support for advertising host routes                                   | RFC 9135, RFC 9136             | 6.2.0                      | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| SPAN support for port+(VLAN/VLAN-range)                                   | IPI proprietary                |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             |               |             |
| OSPF and ISIS support on an IRB Interface(SH)                             | RFC 9135, RFC 9136             | 6.4.1                      | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| OSPFv2 and ISISv4 support on an IRB Interface(MH)                         | RFC 9135, RFC 9136             |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             |               |             |
| MAC movement detection based on L2 traffic                                | RFC 7432                       |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             |               |             |
| E-TREE Single Homing  | RFC 8317-Scenario 1            | 6.5.1                      | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| E-TREE Multi Homing   | RFC 8317-Scenario 1            | 6.5.1                      | ×          | ×           | ×           | ×           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |               |             |
| VLAN-to-VNI mapping   | IPI proprietary                |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             |               |             |
| <b>- Multicast</b>  |                                |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |             |
| <b>Protocol Independent Multicast (PIM)</b>                               |                                |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |             |
| 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                       | 4.0                        | ✓          | ✓           | ✓           | ✓           | ×          | ✓          | ✓           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ×           | ×             | ×             |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             | ✓             |             |
| <b>Protocol Independent Multicast (PIMv6)</b>                             |                                |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |             |
| PIM - Sparse Mode (PIM-SM)-IPv6   | RFC 4601                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Bootstrap Router (BSR) Mechanism for PIMv6                                | RFC 5059                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Static Rendezvous Point Configuration-IPv6                                | RFC4601 and RFC 5015           | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| PIM - Dense Mode (PIM-DM): Protocol Specification (Revised)-IPv6          | RFC 3973                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| PIM - Source Specific Multicast-IPv6                                      | RFC 4607                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Multicast Source Discovery Protocol (MSDP)-IPv6                           | RFC 3618                       | 6.1.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             | ×             |             |
| Support for More than 32 PIM Interfaces-IPv6                              | IPI proprietary                | 6.1.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             | ×             |             |
| Source-Specific Protocol-Independent Multicast in 232/8-IPv6              | RFC 4608                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Overview of Source-Specific Multicast (SSM)-IPv6                          | RFC 3569                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Bidirectional Protocol Independent Multicast (BIDIR-PIM)-IPv6             | RFC 5015                       | 6.1.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             | ×             |             |
| Interoperability between the Virtual Router Redundancy Protocol and PIMv6 | RFC 7910                       | 6.1.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×           | ×             | ×             |             |
| Bidirectional Forwarding Detection (BFD) Trigger for PIMv6                | RFC 5882                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| PIM MIB for IPv6  | RFC 5060                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Group To RP Mapping-IPv6  | RFC 6226                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| Anycast-RP Using Protocol Independent-IPv6                                | RFC 4610                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| PIM ECMP IPv6   | RFC6754                        | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |
| <b>Internet Group Management Protocol (IGMP)</b>                          |                                |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             | ✓             |             |
| <b>Multicast Listener Discovery (MLD)</b>                                 |                                |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |               |             |
| MLD, Version 1  | RFC 2710                       | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ✓           | ✓             | ✓             |             |

| Feature  | Standard                               | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace  | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      |             |  |
|--|--|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|-------------|--|
|  |  |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-30XB |  |
| MLD, Version 2   | RFC 3810                               | 6.1.0                      | x          | x           | x           | x           | ✓          | x          | x           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | x           | x          | x          | x            | x               | x          | x           | ✓             |             |  |
| MLD report suppression for v1, v2  | RFC 2710,RFC 3810                      |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x         | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| MLD-based Multicast Forwarding (MLD Proxing*)  | RFC 4605                               | 6.1.0                      | x          | x           | x           | x           | ✓          | x          | x           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | x           | x          | x          | x            | x               | x          | ✓           | ✓             |             |  |
| Considerations for Multicast Listener Discovery (MLD) Snooping Switches  | RFC 4541                               | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| <b>- Quality of Service (QoS)</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |           |             |            |            |              |                 |            |             |               |             |  |
| <b>QoS - General</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |           |             |            |            |              |                 |            |             |               |             |  |
| 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 Queuing (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                      | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x         | x           | x          | x          | x            | x               | x          | x           | x             | x           |  |
| 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                        |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x         | x           | x          | x          | x            | x               | x          | x           | x             | x           |  |
| Explicit Congestion Notification   | RFC 3168                               |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x         | x           | x          | x          | x            | x               | x          | x           | x             | x           |  |
| QoS Class map statistics   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Egress Q statistics  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| IP SLA (ICMP Echo)   | IPI Proprietary                        | 5.0                        | ✓          | ✓           | ✓           | ✓           | x          | ✓          | ✓           | x          | x          | x         | x          | x          | x         | x         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | x          | x           | x             |             |  |
| ToS Based queue distribution over Layer 2 Interface  | IPI Proprietary                        | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| <b>- Management</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |           |             |            |            |              |                 |            |             |               |             |  |
| <b>Management - General</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |           |             |            |            |              |                 |            |             |               |             |  |
| Role based CLI management and access   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| CLI access via console, telnet (IPv4 and IPv6) and SSH (IPv4 and IPv6)   | RFC-4251, RFC-4252, RFC-4253, RFC-4254 | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| CLI commit rollback  | IPI Proprietary                        | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Authentication using TACACS+/radius client (IPv4 and IPv6)   | Radius – RFC 2866, Tacacs+– RFC 8907   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Extended ping and traceroute   | Linux APIs                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| SNMP v1, v2, and v3 (IPv4 and IPv6)  | RFC-1157                               | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| SNMP: support for multiple instances of SNMP MIB- v2, and v3   | RFC 1910 , RFC 3411                    | 5.1MR                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| sFlow  | RFC 3176                               | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Error Disable  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Debounce Timer   | IPI Proprietary                        | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| DHCP Server (IPv4 and IPv6)  | RFC 2131 - basic support               | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| DHCP client (IPv4 and IPv6)  | RFC-8415, RFC-2131 - basic support     | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| DHCP relay (IPv4 and IPv6)   | RFC-3046- basic support                | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| DHCP group (IPv4 and IPv6)   | IPI Proprietary                        | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| NTP Client (IPv4 and IPv6)   | RFC 5905                               | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| NTP Server (IPv4 and IPv6)   | RFC 5905                               | 4.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Syslog (IPv4 and IPv6)   | RFC-3164                               | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Management VRF   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Routing Protocols in Management VRF (RIP, RIPng, OSPF, and ISIS)   | IPI Proprietary                        | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Ansible  | Not Applicable                         | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Upgrade Mechanism from ONIE prompt using onie nos install and from OcNOS shell using sys-update  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| ACL support over Management, VTY and Loopback  | IPI Proprietary                        | 3                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Licensing (IPv4 and IPv6)  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |
| Two-Way Active Measurement Protocol (TWAMP)  | RFC 5357 #Appendix-1                   | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓         | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓           |  |

| Feature  | Standard                             | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      | Edgecore      |             |
|--|--------------------------------------|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|---------------|-------------|
|  |                                      |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7316-28XB | AS7946-74XKSB | AS7946-74XKSB | AS7946-30XB |
| TWAMP - One Way Measurement                          | RFC 5357 #Appendix-1                 | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Zero Touch Provisioning (ZTP)(with IPv4)             | RFC 8572                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Zero Touch Provisioning (ZTP) (with IPv6)            | RFC 8572                             | 5                          | ✓          | ✓           | ✓           | ✓           | ✗          | ✓          | ✓           | ✗          | ✗          | ✗         | ✗          | ✗          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✗           | ✗             | ✗             |             |
| DHCP Snooping over MLAG                              | RFC 7513                             |                            | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             | ✗             |             |
| DHCPv6 Prefix Delegation                             | RFC3633 – Partial, RFC8987 – Partial | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| DNS Relay (IPv4 and IPv6)                            | RFC1034, 1035                        | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| DHCP-Option 82 (IPv4)                                | RFC 3046                             | 6.2.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Storing Multiple images on Platform                  | IPI Proprietary                      | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| DHCP Relay over L3VPN                                | IPI Proprietary                      | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Fault Management System                              | IPI Proprietary                      | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| DHCP Relay across VRFs                               | IPI Proprietary                      | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Infrastructure for pluggable OLT modules             | IPI Proprietary                      | 3.1                        | ✗          | ✗           | ✗           | ✗           | ✗          | ✓          | ✓           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✓           | ✓          | ✓          | ✓            | ✗               | ✗          | ✗           | ✗             | ✗             |             |
| TWAMP over MPLS transport                            | IPI Proprietary                      | 6.1.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✗         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP - Reflector/Server                             | RFC 5357                             | 6.2.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP - Client                                       | RFC 5357                             | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP over MPLS L3VPN                                | IPI Proprietary                      | 6.3.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✗         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP over EVPN MPLS L3VPN                           | IPI Proprietary                      | 6.3.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✗         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP over L3VPN over SR MPLS                        | IPI Proprietary                      | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✗         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP over EVPN L3VPN over SR MPLS                   | IPI Proprietary                      | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✗         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TWAMP over L3VPN over SRv6                           | IPI Proprietary                      | 6.4.1                      | ✗          | ✗           | ✗           | ✗           | ✓          | ✗          | ✗           | ✗          | ✓          | ✓         | ✓          | ✓          | ✓         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             | ✗             |             |
| <b>Event Manager</b>                                 |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Event Manager  | IPI Proprietary                      | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Event Manager - Custom Scripting                     | IPI Proprietary                      | 6.5.1                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             | ✗             | ✗           |
| <b>Network Configuration Protocol (NETCONF)</b>      |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| YANG 1.0 Data Modelling Language                     | RFC 6020                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| NETCONF Protocol                                     | RFC 6241                             | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| NETCONF Protocol over Secure Shell (SSH)             | RFC 6242                             | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| NETCONF Protocol over Transport Layer Security (TLS) | RFC 5246                             | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| NETCONF Event Notifications                          | RFC 5277                             | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| YANG Module for NETCONF Monitoring                   | RFC 6022                             | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| NETCONF Base Notifications                           | RFC 6470                             | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| YANG 1.1 Data Modeling Language                      | RFC 7950                             | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Netconf Enable/Disable and custom port               | IPI Proprietary                      | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Multiple simultaneous config session for CLI         | IPI Proprietary                      | 5.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Transaction based CLI                                | IPI Proprietary                      | 5                          | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| With-defaults trim                                   |                                      | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Netconf Call Home                                    | RFC 8071                             | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Openconfig Support                                   | OpenConfig                           | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| <b>Streaming Telemetry</b>                           |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| gNMI dial-in and dial-out                            | gNMI Spec v 0.10.0                   | 6.4.1                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✗          | ✗           | ✗          | ✗          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Internet Protocol Flow Information Export (IPFIX)    | RFC 7011 (Partial)                   | 6.5.1                      | ✗          | ✗           | ✗           | ✗           | ✗          | ✗          | ✗           | ✗          | ✗          | ✗         | ✗          | ✗          | ✗         | ✗         | ✗          | ✗           | ✗          | ✗          | ✗            | ✗               | ✗          | ✗           | ✗             | ✗             | ✗           |
| <b>- Security</b>                                    |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| <b>Security - General</b>                            |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Storm control  | IPI Proprietary                      | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Flow control   | IEEE 802.3x                          | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| DHCP Snooping  | RFC 7513                             | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| IP Source Guard                                      | RFC 7513                             | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Dynamic ARP Inspection                               | IPI Proprietary                      | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Configurable password policy                         | IPI Proprietary                      | 6.5.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| <b>Access Control Lists (ACLs)</b>                   |                                      |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Source IP address                                    | RFC 2827                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Destination IP address                               | RFC 2827                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| TCP/UDP source port                                  | RFC 2827                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| TCP/UDP destination port                             | RFC 2827                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| IP protocol type                                     | RFC 2827                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |
| Source MAC address                                   | RFC 2827                             | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             | ✓           |

# Features By Platform

| Feature   | Standard                               | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | UfiSpace   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      | Edgecore      |             |
|---|--|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|---------------|-------------|
|   |  |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9501-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-74XKSB | AS7946-30XB |
| Destination MAC address   | RFC 2827                               | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Ethertype   | RFC 2827                               | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TCP Flags, Protocol type, IP fragment flags, DSCP, CoS, IP precedence                       | RFC 2827                               | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Rule prioritization and Re sequence   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| On-fly modification   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| ACL per rule statistics   | IPI Proprietary                        | 1.0.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Timed ACL   | IPI Proprietary                        | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| ARP ACL   | IPI Proprietary                        |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| <b>- Hardware-Specific Features</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| <b>Hardware-Specific Features - General</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Switched port analyzer (SPAN)   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Remote switched port analyzer (RSPAN)   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Unified Forwarding Table (UFT)  | IPI Proprietary                        | 1.0.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Load balance  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Dynamic load balancing (RTAG7 hash)   | IPI Proprietary                        | 1.0.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| PHY/MAC level interface loopback  | IPI Proprietary                        | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| TCAM space monitoring   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| QKD MACsec  | IPI Proprietary                        |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Hardware watchdog timer   | IPI Proprietary                        | 6.4.1                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Wake on LAN   | IPI Proprietary                        | 6.4.1                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| <b>- Chassis Monitoring</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| <b>Chassis Monitoring - General</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Temperature monitor   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Fan control   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Power Monitoring  | PMBus                                  | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| CPU load monitoring   | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Board information (EEPROM)  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| Power Supply Unit (PSU) Field Replacement Unit (FRU) information                            | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Fan FRU information (EEPROM)  | IPI Proprietary                        | 1.0.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Hardware MIB and Traps  | IPI Proprietary                        | 1.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| <b>- Port Breakout</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| 100G Port Breakout into 4X10G   | IPI Proprietary                        | 6.3.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| 100G Port Breakout into 4X25G   | IPI Proprietary                        | 6.3.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| 100G Port Breakout into 2X50G   | IPI Proprietary                        | 6.3.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| 400G Port Breakout  | IPI Proprietary                        | 6.4.1                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| <b>- Smart SFP</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Support of OAM Functionality over Remote Loopback   | IPI Proprietary                        | 6.2.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ×          | ✓          | ×         | ✓          | ✓          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Support of attributes ( Reset/DDM/Disable Tx Transmission)                                  | IPI Proprietary                        | 6.2.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ×          | ✓          | ×         | ✓          | ✓          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Digital Diagnostic Monitoring (DDM) support   | IPI Proprietary                        | 6.2.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ×          | ✓          | ×         | ✓          | ✓          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| SNMP Support  | IPI Proprietary                        | 6.2.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ×          | ✓          | ×         | ✓          | ✓          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| <b>- EDFA</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Configuration and monitoring attributes such as target-output, target-gain, operating modes | IPI Proprietary                        | 6.3.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Digital Diagnostic Monitoring (DDM) support   | SFF-8636                               | 6.3.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| <b>- QSFP-DD/Open ZR/ZR+</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Support of PRBS   | CMIS 5.1, OIF-CMIS-01.2                | 6.1.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Support of Loopback   | CMIS 5.1, OIF-CMIS-01.2                | 6.1.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Support of Laser Tuning   | CMIS 5.1, OIF-CMIS-01.2                | 6.2.0                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| Performance monitoring Alarm  | CMIS 5.1, OIF-CMIS-01.2                | 6.4.1                      | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ✓          | ×          | ×         | ✓          | ✓          | ×         | ✓         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |
| <b>- Digital Diagnostics Monitoring (Transceiver)</b>                                       |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| <b>Digital Diagnostics Monitoring (Transceiver) - General</b>                               |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| 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                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             | ✓             |             |
| <b>- Coherent Optics</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |               |             |
| Analog Coherent Optical (ACO) module support  | CFP MSA MIS, CFP MSA HW Spec, OIF-     |                            | ×          | ×           | ×           | ×           | ×          | ×          | ×           | ×          | ×          | ×         | ×          | ×          | ×         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ×           | ×             | ×             |             |

| Feature  | Standard   | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | Edgecore   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore      |             |  |
|--|--|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|---------------|-------------|--|
|  |  |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7946-74XKSB | AS7946-30XB |  |
| <b>Digital Coherent Optical (DCO) module support</b>   | CFP MSA MIS, CFP MSA H/W Spec  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Module specific attributes</b>  | CFP MSA MIS, CFP MSA H/W Spec  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Network interface specific configuration and monitoring attributes such as Tx-Power, Tx-Laser-Frequency, Modulation format, FEC modes</b> | CFP MSA MIS, CFP MSA H/W Spec  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Host interface specific attributes such as RS FEC type</b>  | CFP MSA MIS, CFP MSA H/W Spec  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Digital Diagnostic Monitoring (DDM) support</b>   | CFP MSA MIS, CFP MSA H/W Spec  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>- Timing and Synchronization</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| <b>Timing and Synchronization - General</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| Timing characteristics of a synchronous equipment slave clock (SyncE)  | G.8262   | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Distribution of timing information through packet networks (ESMC)  | G.8264   | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| 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                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| 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                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| 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                  | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | x            | x               | x          | x           | x             |             |  |
| 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                                     | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| 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                        | x          | x           | x           | x           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | x            | x               | x          | x           | x             |             |  |
| Default profile (T-BC)   | IEEE-1588 (Annex J)  | 4.1                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Default profile (T-GM)   | IEEE-1588 (Annex J)  | 4.1                        | x          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | x            | x               | x          | x           | x             |             |  |
| PTP Telecom Profile for frequency synchronization (T-GM)   | G.8265.1 (T-GM)  | 4.2                        | x          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | ✓           | ✓          | ✓          | x            | x               | x          | x           | x             |             |  |
| PTP Telecom Profile for frequency synchronization (T-TSC)  | G.8265.1 (T-TSC)   | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | x            | x               | x          | ✓           | ✓             |             |  |
| E2E Transparent clock (TC)   | IEEE-1588 [Works with both G8275.1, G8275.2, default profile], G8273.3 | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | x               | ✓          | ✓           | ✓             |             |  |
| IWF (Interworking function)  | IEEE-1588  | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | x          | x           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | x           | ✓          | ✓          | x            | x               | x          | ✓           | ✓             |             |  |
| Timing profile SMPTE 2059-2  | IEEE-1588  | 6.4.2                      | ✓          | ✓           | ✓           | ✓           | ✓          | x          | x           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>- Subinterface</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| <b>Layer 3 Subinterface</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| Layer 3 termination of IPv4 and IPv6 packets   | IPI proprietary  | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Subinterface on channel group (LAG)  | IPI proprietary  | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| VLAN tagged packet - single / double for 802.1q and 802.1ad and combination  | IPI proprietary  | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| VLAN tagged packet- 9100,9200 TPID   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| IPv4 and IPv6 Unicast routing  | IPI proprietary  | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| IP VRF   | IPI proprietary  | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| MPLS support   | IPI proprietary  | 1.0 ED2.3                  | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| MAC and IPv4 ACL   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| QoS  | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| PIM IPv4   | RFC 4601, RFC 3837, RFC 4607, RFC 5015                                 | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| PIM IPv6   | RFC 4601, RFC 3837, RFC 4607   | 6.4.1                      | x          | x           | x           | x           | ✓          | x          | x           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | x         | x          | x           | x          | x          | x            | x               | ✓          | ✓           | ✓             |             |  |
| <b>Layer 2 Subinterface</b>  |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| VLAN tagged packets - single/double for 802.1q and 802.1ad(88a8/9100/9200)   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Untagged and Default   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Static and Dynamic channel-group   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Rewrite operations - PUSH/POP/TRANSLATE for subinterface   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| *AC-AC Cross-connect service(Ethernet Point-to-point)  | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Bridge Domain ( Local-Briging Ethernet Point-to-MultiPoint)  | IPI proprietary  | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| MAC and IPv4 ACL   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| QoS  | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| VLAN range   | IPI proprietary  | 3.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| Subinterface support for LZVPN (VPWS, VPLS)  | IPI proprietary  | 5.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓             |             |  |
| <b>- Optical Line Terminal (OLT)</b>   |  |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |               |             |  |
| <b>XGS- Passive Optical Networks (PON)</b>   | ITU-G.988, ITU-G.9807.1  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Multiple OLT per software instance</b>  | IPI Proprietary  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Optical Network Unit (ONU) provisioning (manual and automatic modes)</b>  | IPI Proprietary  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>1:1 VLAN</b>  | TR-156   |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>N:1 VLAN</b>  | TR-156   |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |
| <b>Bandwidth allocation, Traffic shaping and QoS handling</b>  | ITU-G.988, ITU-G.9807.1  |                            | x          | x           | x           | x           | x          | x          | x           | x          | x          | x         | x          | x          | x         | x         | x          | x           | x          | x          | x            | x               | x          | x           | x             |             |  |



| Feature  | Standard  | SP First Version Supported | UfiSpace   | UfiSpace    | UfiSpace    | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace    | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace   | UfiSpace   | UfiSpace  | UfiSpace  | Edgecore   | Edgecore    | Edgecore   | Edgecore   | Edgecore     | Edgecore        | Edgecore   | Edgecore    | Edgecore    |               |             |
|--|---|----------------------------|------------|-------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|------------|------------|--------------|-----------------|------------|-------------|-------------|---------------|-------------|
|  |   |                            | S9502-12SM | S9502-16SMT | S9501-18SMT | S9501-28SMT | S9510-30XC | S9500-30XS | S9500-22XST | S9510-28DC | S9600-72XC | S9600-32X | S9600-28DX | S9600-56DX | S9600-64X | S9610-36D | AS5915-18X | AS7316-26XB | AS7315-27X | AS7315-30X | AS5916-54XKS | AS5916-54XKS-OT | AS5912-54X | AS7535-28XB | AS7535-28XB | AS7946-74XKSB | AS7946-30XB |
| ISIS extensions for Segment-Routing                            | 1. RFC 8667 2. draft-ietf-spring-conflict-resolution-05 | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| LDP and SR interworking  | 1. RFC8661  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| SR Mapping server  | RFC 8661  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| Segment-Routing Policy (Traffic Engineering)                   | draft-ietf-spring-segment-routing-policy-06             | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| Segment-routing OAM (LSP Ping/Traceroute) for MPLS dataplane   | RFC 8287  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| Segment-routing BFD  | RFC 7880  | 6.0.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| Topology Independent Fast Reroute using Segment Routing        | draft-ietf-rtgwg-segment-routing-ti-ffa-03              | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| Service mapping using tunnel policy over SR policy             | IPI Proprietary   | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| Entropy label support for SR MPLS (ISIS/OSPF)                  | RFC-9088 RFC-9089                                       | 6.4.1                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| BGP On-demand nexthop (ODN) and auto steering                  | RFC 9012 #name-color-extended-community                 | 6.2.0                      | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             |             |
| <b>PCEP (Path Computation Element Protocol)</b>                |   |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |             |
| Support for path computation element protocol                  | RFC 5440 RFC 7896                                       | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             | ✓           |
| Support for Stateful PCE                                       | RFC 8281 RFC 8231                                       | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             | ✓           |
| PCEP Extensions for Segment Routing                            | RFC 8664  | 4.0                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             | ✓           |
| PCEP MIB Support   | RFC 7420  | 4.2                        | ✓          | ✓           | ✓           | ✓           | ✓          | ✓          | ✓           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ✓         | ✓          | ✓           | ✓          | ✓          | ✓            | ✓               | ✓          | ✓           | ✓           | ✓             | ✓           |
| PCEP support for SRv6  | draft-ietf-pce-segment-routing-ipv6-13                  | 6.0.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             |             |
| <b>Segment Routing over IPv6 Data plane (SRv6)</b>             |   |                            |            |             |             |             |            |            |             |            |            |           |            |            |           |           |            |             |            |            |              |                 |            |             |             |               |             |
| Support of Segment routing IPv6 generic base infrastructure.   | RFC 8986  | 5.1                        | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| OSPF Extension to Support Segment Routing over IPv6 Dataplane  | draft-ietf-lsr-ospfv3-srv6-extensions-01                | 5.1                        | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| IS-IS Extension to Support Segment Routing over IPv6 Dataplane | draft-ietf-lsr-isis-srv6-extensions-11                  | 5.1                        | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| BGP based L3VPN (VPNv4) over SRv6 core                         | draft-ietf-bess-srv6-services-08                        | 5.1                        | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| BGP-LS support for Segment routing IPv6 (ISIS)                 | draft-ietf-idr-bgpis-srv6-ext-08                        | 6.0.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| BGP-LS support for Segment routing IPv6 (OSPF)                 | draft-ietf-idr-bgpis-srv6-ext-08                        | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| EVPN ELINE (Single Homing) for SRv6                            | RFC 9252  | 6.1.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| EVPN ELINE (Multi Homing) for SRv6                             | RFC 9252  | 6.3.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| SRv6 OAM   | RFC 9259  | 6.3.0                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |
| EVPN ELAN (Single Homing) for SRv6                             | RFC 9252  | 6.5.1                      | ×          | ×           | ×           | ×           | ✓          | ×          | ×           | ✓          | ✓          | ✓         | ✓          | ✓          | ✓         | ×         | ×          | ×           | ×          | ×          | ×            | ×               | ×          | ✓           | ×           | ✓             | ✓           |