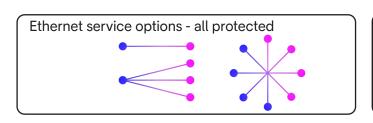
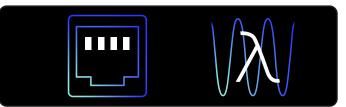
Ethernet__vs__Wavelengths__at__the__glance.

Two widely established Arelion products, but what are the differences?







| Product characteristics | Ethernet | Wavelengths |
|--|---|---|
| Routing | Over switched MPLS network with committed bandwidth | Dedicated fibre |
| Protection | Protected as standard on-net — Layer 2 service dynamically routed to avoid any network or fibre failures | Unprotected as standard — single fibre route Protected and dual-link available |
| Topology | EVPL: point-to-point/hub & spoke ELAN: any-to-any | Point-to-point |
| Port interface / Service presentation | 100/1000BaseT, 1000Base SX/LX/EX, 10GBase LR/ER, 100GBase LR4/ER4/CWDM4 | 1000BaseLX/LH/ZX, 10GBaseLR/ER, 100GBaseLR4, 100GBaseLR4/ ER4, 400GBaseFR4 |
| Bandwidth speeds | 10Mbps to 40Gbps (bandwidth increments available) | 1Gbps, 10Gbps, 100Gbps, 400Gbps |
| Throughput | Based on frame size | Full |
| Latency | Predictable within limits — available via Portal | Predictable |
| Frame loss | < 0.1% | n/a |
| Rerouting / specific routing | 150ms including link loss propagation* Fixed path on primary route / on request | n/a on unprotected Wave Sub 50ms for protected Wave / on request |
| Availability | 99.999% backbone, 99.99% PoP-to-PoP and 99.5%** end-to-end | 99.4% unprotected, 99.99% protected, 99.99% dual-link |
| Transparency | On-request, or with NID*** | Full |
| Jumbo frames support | 9100 MTU on-net and off-net based on supplier capabilities | 9600 MTU on-net |
| Access tail (off-net) | 450 certified local partners; 180+ supplier ENNIs | Dark fiber/Wavelengths |
| Additional features | Fast delivery — ports available on-net Managed NID incl Service Performance via Portal, MSOP, 3 x CoS levels | Client-side monitoring |
| Use-cases | Secure business critical connectivity, DC-to-DC and corporate hubs Universal technology, easy to implement – maintain control of IP Where long fibre paths dramatically increase the likelihood of outages and performance issues – protected EVPL offers peace of mind | For customers who want to build and manage their own networks, possible to mix Wavelengths from several providers to design optimal resiliency High Bandwidth requirements Fully transparent and nailed down/defined network path |

^{*}Distance dependent – customer BFD timers should be set to 300/900 or 100/300



^{**99.5%} end to end availability SLA for customers with Advanced managed NID (Network Interface Device) including NID and Access Tail

^{***}Advanced NID Cisco NCS520 offers capability to configure in tunnelling mode as transparent service. MAC Sec transparency is supported with the NID and on-net (on request)