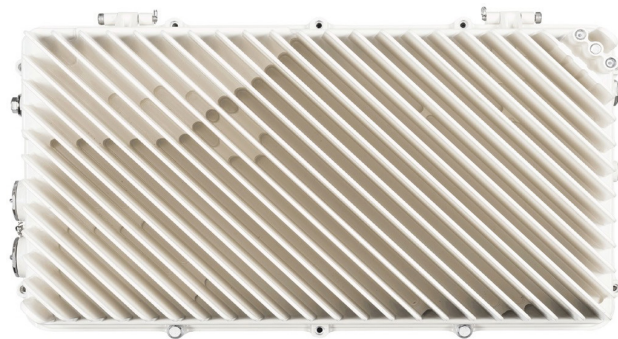


The **Entra SF-4X Access Node** is a sealed remote optical line terminal (R-OLT) with four 10 Gb/s Ethernet Passive Optical Network (EPON) ports and up to four 10 Gb/s Ethernet uplinks. With support for DOCSIS® Provisioning over EPON (DPoE™), the SF-4X Access Node provides cable operators with a fiber to the home (FTTH) solution and is an essential component of the Entra unified cable access solution.

Entra SF-4X Access Node is a passively cooled R-OLT with four 10 Gb/s EPON ports, four 10 Gb/s Ethernet uplink ports and integrated line terminal (LT) card.

The SF-4X Access Node is managed by the Entra Access Controller as part of Vecima's virtualized Distributed Access Architecture (vDAA).

Sealed in a hardened clamshell enclosure, the node is designed to be placed in an outside plant environment and is suitable for directly exposed or pedestal outdoor installations.

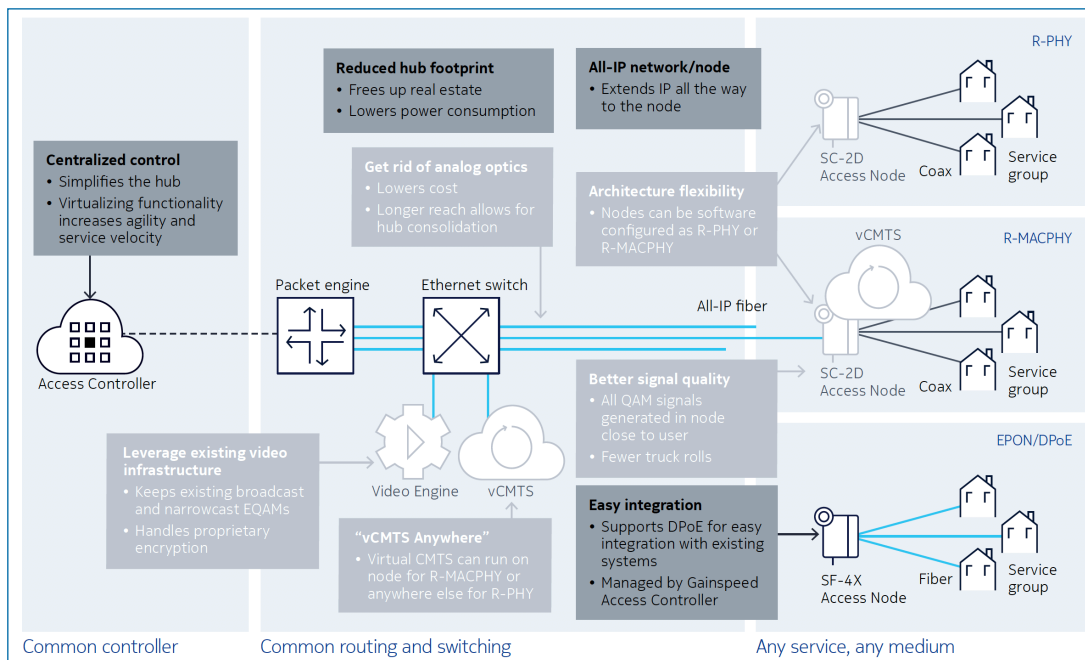


Entra SF-4X Access Node

Highlights

- 4 ports of 10 Gb/s EPON
- Up to 4 ports of 10 Gb/s Ethernet uplinks
- Supports DPoE
- Integrates into a unified cable access solution and vDAA
- Field-replaceable components including optical modules, EPON Line Card and power supply modules
- Hardened for an outside plant (OSP) enclosure and line powered with strand, wall and pedestal mount options
- Easily managed by Entra Access Controller as part of the Vecima unified cable access solution
- Support for DPoE enables easy integration with existing networks and systems
- High downstream and upstream capacity enables delivery of up to 10 Gb/s of symmetrical services
- Point-to-multipoint architecture reduces fiber costs
- Outstanding suitability for residential greenfield, commercial services, multiple dwelling units (MDUs), hybrid fiber- coaxial (HFC) black spot infill, long lines and network spurs

Unified cable access solution



SF-4X Access Node Technical Specifications

Physical Height: 297 mm (11.7 in) Width: 506 mm (19.9 in) Depth: 238 mm (9.4 in) Weight: 17.73 kg (39.1 lb)	Supported XFP optical modules for PON 10 G EPON Type 4 which supports 10/10, 10/1, 2 (Turbo)/1 or 1/1 EPON line rates
Operating Environment Temperature: -40j C to 60j C (-40j F to 140j F) Relative humidity: 5% to 95%, non-condensing Altitude: -60 m to 4000 m (-196.9 ft to 13,123.4 ft)	Supported SFP+ optical modules for uplinks ER, LR, BX-U, BX-D, ZR Coarse wavelength division multiplexing (CWDM): ZR Dense wavelength division multiplexing (DWDM): ZR, optical Ethernet ZR
Storage Environment Temperature: -40j C to 70j C (-40j F to 158j F) Relative humidity: 5% to 95%, non-condensing Altitude: -60 m to 4000 m (-196.9 ft to 13,123.4 ft)	Reliability Mean time between failure (MTBF): 69,185 hr at 60j C (140j F) and 271,951 hr at 25j C (77j F) per Telcordia SR-332 Issue 3 methodology
Installation Horizontal strand or pedestal mounting	Regulatory, industry and standards compliances Emissions: FCC CFR 47 Part 15b (Class B) Immunity: Ø RS: IEC 61000-4-3 Level 3 (10 V/m) Ø CS: IEC 61000-4-6 Level 3 (10 V) Ø ESD: IEC 61000-4-2 Level 4 (8 kV contact/15 kV air) Ø Surge: IEC 61000-4-5 Level 2 (1 kV) line to line and Level 3 (2 kV) line to ground Safety: UL/CSA 60950-1/UL 60950-22 IP rating: IP-67 rated
Power Requirements 44 V to 100 V AC, nominal 90/60 V AC quasi-square wave 75 W typical, 85 W maximum Coax line powered using either left or right power port and a pin connector with 5/8-24 housing	
Interfaces 4 ports of 10 Gb/s EPON for subscriber access 4 ports of 10 Gb/s for uplinks	