



The Rise of Open Disaggregated Networking

Why the Time is Ripe for Open, Standards-Based Networking Solutions

Strategic Executive Briefing | Disaggregated Infrastructure & Interoperability

Disaggregated Architecture Replaces Proprietary Vendor Lock-In with Full Customer Choice

Proprietary Chassis Model (Legacy)

- Closed, vendor-specific chassis-based platforms affixed to their brand of custom silicon.
- Chassis-based designs with backplane limits constrain routing performance & scale.
- Monolithic vendor orchestration software and optics enforces total vendor lock-in.

Open Disaggregated Architecture

- Spearheaded independent choices for HW, NOS software, orchestration and optics
- Global manufacturers build both merchant silicon and custom silicon solutions.
- Fiber connections replace chassis backplanes for flexible scale without forklift upgrades.

DISAGGREGATION EMPOWERS CUSTOMER CHOICE LEVERAGING STANDARDS AND INTEROPERABILITY ACROSS THE NETWORK LAYER

ASICs
(Chipsets)

ODMs
(Manufacturers)

Platforms
(Models)

NOS
(Software)

Optics
(Interconnects)

Management
(Orchestration)

Standards Benefit the Industry Across Proven Use Cases

Edge / Aggregation

Flexible network roles & scale

Core / Peering

Replaces costly chassis with merchant silicon economics

IPoDWDM

Integrates optics directly onto routers

Data Center

Fabric scale, automation & power reduction

Why the Momentum Has Shifted to Open Standards Now

- ✓ **Industry Interoperability:** Open standards enable seamless multi-vendor operation across ASICs, optics, and software stacks.
- ✓ **Total Elimination of Lock-In:** Disaggregation decouples hardware lifecycles from software licensing and ancillary choices.
- ✓ **Merchant Silicon Maturity:** Global silicon manufacturers now on par or outperform proprietary vendor-specific ASICs.

Why is **ip**infusion™ qualified
to speak on this topic?

Who around the room has
experience with disaggregated
networking?