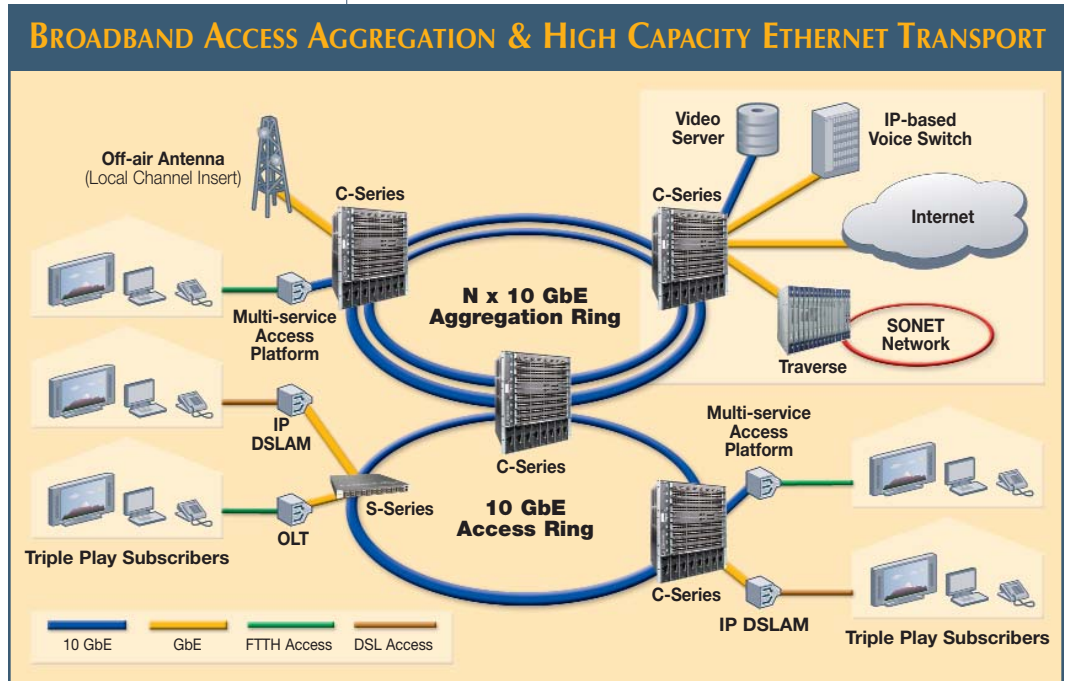


- Carrier-grade Ethernet Switch/Routers provide reliable, high-performance GbE and 10 GbE aggregation and transport
- Industry leading port density and non-blocking hardware
- Advanced resiliency features ensure a scalable and cost-effective solution for deploying triple play services over FTTH networks



Ethernet in the “Middle Mile”

Many rural carriers are in the midst of upgrading their existing DSL-based access networks to FTTH (fiber-to-the-home) technology to better enable the delivery of triple play services including IPTV. Beyond the changes associated with migrating from copper- to fiber-based access lines, the deployment of FTTH and IPTV also significantly impacts the critical “middle mile” segment of the infrastructure that lies between the access network and the rural carriers’ core/head-end.

Because new Ethernet/IP-based MSAPs (Multi-Service Access Platforms), OLTs, and DSLAMs, utilize Gigabit Ethernet (GbE) or even 10 GbE interfaces for network connectivity, a highly scalable Ethernet aggregation and transport network becomes a necessity to ensure a congestion-free environment that is optimized for bandwidth-intensive and/or delay-sensitive triple play services like video/IPTV and voice/VoIP. In addition to delivering high-performance to ensure low latency and jitter, the Ethernet aggregation and transport network needs to be highly resilient and integrate advanced traffic management and service delivery options to maximize network efficiency as well as customer satisfaction.

Force10 uniquely offers a scalable, high-performance solution for the middle mile of a triple play -optimized network. Backed by Force10’s extensive experience with rural carriers, the company’s C-Series® and S-Series® products are ideally suited for MSAP/FTTH aggregation and 10 Gigabit Ethernet transport applications, offering:

Unmatched GbE and 10 GbE Ethernet Scalability and Density

- C-Series provides high-density GbE and 10 GbE aggregation for distribution into a 10 GbE optical backbone
- C-Series non-blocking 1.536 Tbps switch fabric provides up to 952 Mpps of L2/L3 packet forwarding capacity enabling up to 384 line-rate GbE ports or 64 line-rate 10 GbE ports in a 13-RU chassis
- C-Series delivers ultra low-latency switching – less than 5 microseconds under full load for 64 byte frames – minimizing jitter and delay to ensure high service quality for video/IPTV and voice/VoIP services
- S-Series provides high performance Gigabit and 10 Gigabit Ethernet in cost-effective, stackable form factors

Carrier-grade
Redundancy & QoS
**Ensure Reliable
Delivery of
Triple Play Services**

Seamless,
Cost-effective
Migration to
10 GbE & Beyond

Industry-leading
**Performance,
Density &
Power/Cooling
Efficiencies**
Deliver
Lowest TCO

High Availability and Resiliency

- FRRP (Force10 Redundant Ring Protocol) delivers bi-directional forwarding across multiple Ethernet access or aggregation rings with sub-second convergence times in the event of link, node or equipment failure
- Scalable link aggregation enables the deployment of high-capacity optical backbone links of 20 Gbps and beyond with balanced load-sharing of link capacity
- C-Series provides a high availability architecture incorporating redundant (1+1) processor modules and continuous runtime data plane monitoring
- Modular Force10 Operating System (FTOS) software delivers inherent stability and scalable L2/IPv4/IPv6 protocols and features

Advanced Traffic Management and Service Delivery Options

- C-Series delivers a full complement of standards-based Layer 2 bandwidth management features for multicast (IPTV) and unicast (VoD) applications
- Advanced VLAN switching and QoS traffic management options support the delivery of triple play services that meet stringent service level agreements (SLAs)

Complimentary Multiservice Optical Transport Solutions

- Force10’s widely deployed Traverse® and TraverseEdge® platforms deliver SONET/SDH transport and Ethernet over SONET/SDH capabilities that scale to 10 GbE rates for seamless network integration and/or evolution

NEXT GENERATION MODULAR SWITCH	Cisco 4510R	Cisco 4510R-E	Force10 C150	Force10 C300	Cisco 6509
Industry Standard CLI	Yes	Yes	Yes	Yes	Yes
Modular OS	No	No	Yes	Yes	Yes
Serviceability	Yes	Yes	Yes	Yes	Yes
Chassis Height (Rack Units)	14	14	9	13	15
Management Slots	2	2	2	2	1 / 2
Line Card Slots	8	8	4	8	8 / 7
Switching Capacity (Gbps)	136	320	768	1536	720
Slot Capacity (Gbps)	6	24	96	96	40
Forwarding Capacity (Mpps)	102	250	476	952	400
Line-rate GbE Ports	48	138	192	384	320*
Line-rate 10 GbE Ports	2	12	32	64	32*

* Without Supervisor Redundancy

The C-Series: A Revolutionary New Platform that Surpasses the Reliability, Performance and Capacity of Cisco’s Catalyst 6509 in a Catalyst 4510R Footprint

The C150 and C300 are ideal for switching applications where uptime and performance are a must. This modular, full featured switch/router is optimized for a diverse set of environments ranging from Ethernet access to high-capacity 10 GbE transport.



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