Cisco Network Convergence System 560 Router

Product overview

The Cisco® Network Convergence System (NCS) 560 Router is a full-featured, modular, and programmable aggregation platform. It helps service providers build the foundation for a highly connected, secure, automated, programmable, and cost-efficient access network to:

• Deliver cost-effective and converged next-generation broadband aggregation services for mobile, residential, and business customers, with best-in-class hardware and purpose-built software technologies.

• Improve business agility in an increasingly dynamic environment with increased service velocity and help service providers attain additional revenue from their network infrastructure and next-generation services and applications.

• Reduce costs throughout the service lifecycle and promote efficiency gains in the deployment and operation of the networks by utilizing simplified operations with open standards-based automation and programmability capabilities, which accelerate operational and business processes, while minimizing errors and time to delivery.

Benefits

• Industry-leading port density, capacity, and scale for next-generation applications in a modular and fully redundant form factor

• Cost-optimized platform with reduced complexity and operational efficiency through a simplified and highly automated operating paradigm

• Incorporation of innovation technologies to deliver highly secure and available 5G-ready network infrastructure

• Intelligent converged network platform, integrating multiple services on a single device for higher performance, scale, and power per gigabit

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At a glance
Cisco public

Call to action

What it does
The Cisco NCS 560 Router helps service providers deliver highly scalable advanced services for residential broadband, mobile, and Metro Ethernet applications. This allows an operator to provide differentiated and cost-effective services to end users. The modular NCS 560 Router supports broadband aggregation for delivering “any-play” services (voice, video, data, and mobility), or be deployed as a preaggregation platform for mobile backhaul, and can aggregate cell sites and use Segment Routing (SR, SR-TE) or Multiprotocol Label Switching (MPLS) as a transport for Radio Access Network (RAN) backhaul traffic.

- Delivering unprecedented capacity, density, and scale
  - Dense combination of 1, 10, 40, and 100G ports
  - Roadmap for 25G ports
  - Roadmap for 100G/200G IPoDWDM
  - Lowest power and cost per gigabit
- Converged services delivery
  - Carrier Ethernet, Mobile Backhaul, Cable/Remote Phy and FTTx
- Highly secure and available
  - OS developed with critical components to deliver security, reliability, and stability
- Simplified and programmable
  - Simplified and application-aware networking – Segment Routing
  - Network programmability – NC/YANG
- Intent-driven automation
- “Open” infrastructure to deliver automated network and services intent through orchestration