

# Cisco Agile Core

## Agile Core: Empowering core peering

As network traffic continues to grow exponentially, service providers face the challenge of delivering reliable, high-performance connectivity for backbone networks. Cisco's Agile Core solutions are designed to redefine core peering by offering dynamic, intelligent, and scalable architectures that adapt to evolving network demands. With the introduction of new Cisco Silicon One™ P100 systems and Cisco® 8000 Series Routers, service providers can now leverage state-of-the-art routing platforms, traffic engineering, and advanced automation to enable seamless interconnection between autonomous systems, enhancing both efficiency and flexibility. These solutions empower service providers

to optimize traffic flows, reduce latency, and support new bandwidth-intensive applications such as 5G, IoT, and AI workloads.

Within Agile Core, new and existing P100 devices can be used for higher-performance and lower-footprint core and peering functionality, including converged core. The portfolio spans the Cisco 8212-48FH-M Router (P100), the Cisco 8711-32FH-M Router (P100), the Cisco 88-LC1- 12TH24FH-E line card (P100), the Cisco 88-LC1- 52Y8H-EM line card (P100), Cisco Crosswork Network Automation, Cisco Provider Connectivity Assurance (formerly Accedian Skylight), and Cisco Routed Optical Networking/ Cisco coherent pluggable optics.



## Benefits

- Simplify the core backbone with high-performance, high-density routers.
- Optimize CapEx and OpEx with space, power, and cooling-efficient systems combined with advanced automation.
- Achieve consistent operations with a unified Cisco IOS® XR network operating system.

## Learn more

Boost network resilience and deliver superior experiences to customers while staying ahead in an increasingly competitive landscape. For more information, visit [Cisco Agile Services Networking](#) or contact sales.

Learn more about refreshing your mobile transport network with high-performance power efficiency that requires less effort to manage. Deliver high-performance services and resilient user experiences with Cisco Agile Core.

Explore the [Cisco 8000 Series Routers](#), [Cisco Crosswork Network Automation](#), [Cisco Provider Connectivity Assurance](#) and [Cisco Routed Optical Networking](#).

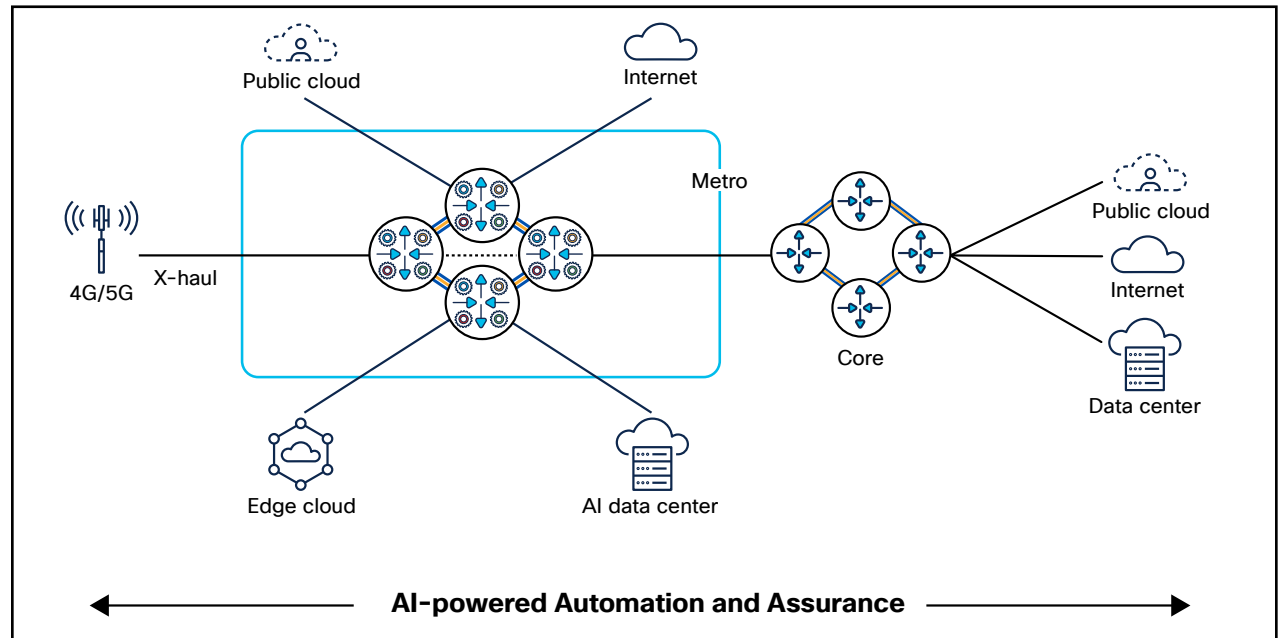


Figure 1. Cisco Agile Core

## Streamline operations and boost resilience

Expand core backbone connectivity and intelligent peering. Increase deployment flexibility with a converged core supporting new edge features and functions, including peering on the same routing platform. The Agile Core use case leverages interoperability and programmability to help future-proof network operations.

- Increased performance and power efficiency of Silicon One-based routing platforms.
- Proven Routed Optical Networking (RON) deployments and reduced Total Cost of Ownership (TCO) with expanding use cases for 800G links and up to 3000-km reaches.
- Assured connectivity services with real-time telemetry and analytics.
- Intent-based provisioning, health monitoring, and optimization to automate and scale deployments.