

# Interconnecting Data Centers for Cloud Scale



## Benefits

- Simplify and automate operations with turn-up time reduced from days to minutes, standards-based open management, multivendor environment support, and real-time actionable views via telemetry.
- Reduce the price per bit with industry-leading capacity and density built into a box designed to operate as a server and mechanically optimized for the data center.
- Rapidly respond to an increasingly dynamic service environment with Cisco IOS® XR Software cloud-scale features, including on-demand scalability and an open ecosystem of independent software vendors (ISVs) that DevOps can utilize to reduce the time to market for competitive services.
- Expand when needed with pay-as-you-grow model, which provides you with a cost-effective solution for managing network capacity.

## Optimizing the Data Center Interconnect

With traffic between data centers expected to increase threefold by 2019,\* you need a solution that can meet the challenge of this exponential growth in traffic and the pressures on networks caused by digitization. A solution optimized for the cloud that reduces operational costs, scales with flexibility, simplifies and automates operations, and supports a rapid response to your dynamic service environment.

With an industry-leading capacity, density, and footprint, the purpose-built Cisco® NCS 1000 Series supports these goals by lowering OpEx, through a dramatic reduction in space and power requirements as compared to legacy solutions. The NCS 1000 also scales efficiently and flexibly through its fully programmable, high-bandwidth capacity (up to 250 Gb wavelengths over distances exceeding 3000 km using existing fiber).

Operations and management are simplified by Cisco IOS XR Software, which supports zero-touch provisioning, fully automated device onboarding, and real-time actionable views via streaming telemetry. And the NCS 1000 in conjunction with IOS XR, supports the cloud-scale features and technologies you'll need to build a dynamic service environment on top of a network fabric comprised of WAN and data center resources.

