

# Cisco Network Services Orchestrator Enabled by Tail-f



## Benefits

- **Accelerate revenue-generating services** with automated, self-service, on-demand provisioning that reduces activation times from months to minutes.
- **Increase business agility** with the capability to create, reconfigure, and repurpose services in real time.
- **Simplify your network operations** by automating the end-to-end service lifecycle and reducing manual configuration steps by up to 90 percent, according to Cisco estimates.
- **Differentiate your services from the competition** with the capability to automate advanced device features, easily bundle multiple network services, and help assure them in real time.
- **Promote nonstop operations** with exceptional control over network changes and the capability to reconfigure devices and services during live production.

## Achieve True Agility with Lifecycle Service Automation

Your customers demand rapid service fulfillment and want personalized experiences. As competitive pressures increase, your ability to grow and stay in business depends on continuously differentiating yourself and keeping your customers happy. You also want to seek ways to reduce provisioning times so that you can be the first to market in launching new service innovations, and you want to do so at lower costs. Your virtualizing network, however, requires new a new approach to operations to address all these requirements—which are not easily met using commonly available operations management tools.

This is where orchestration comes into play. The right orchestration solution provides the required operational foundation and enables you to bring true agility to every phase of the services lifecycle to not only meet your customers' expectations, but also to grow more profitably.

Cisco® Network Services Orchestrator (NSO) enabled by Tail-f® is an industry-leading orchestration platform deployed in many service provider networks today. It provides end-to-end lifecycle service automation to design and deliver high-quality services faster and more easily. It lets you create and change services using standardized models without the need for time-consuming custom coding or service disruption. In addition, you can help ensure that your services are delivered in real time and meet even the most stringent service-level agreements (SLAs). The orchestrator automates the full range of multivendor devices across both physical and virtual environments and continually refines and repackages network services at the speed of your business.

## Beyond NFV MANO: Industry's Most Advanced Cross-Domain Service Orchestrator

Network Services Orchestrator provides end-to-end orchestration that spans multiple domains in your network. With this reach, it can help you fulfill every aspect of a service, end to end, across the entire services stack, to address network functions virtualization (NFV) management and organization (MANO) and software-defined networking (SDN), as well as your traditional physical network and all of its components.

The orchestrator enables you to become:

- **More agile:** Using strict, standardized YANG models for both services and devices and a highly efficient abstraction layer between your network services and the underlying infrastructure, the orchestrator lets you automate all the multivendor devices in your virtualized environment with 90 percent less coding. You can easily change and reconfigure models whenever you choose, without time-consuming and error-prone manual effort. Continually update, repackage, and reprovision network services to deliver new value to your customers.
- **More automated:** The orchestrator provides a single, standardized interface to the entire network infrastructure and fully integrates with back-end business and operations systems. It provides ready-made models from dozens of vendors, with more added every day, to automate even the most complex services. The active network view, always up-to-date, allows self-service on-demand ordering and DevOps service creation. Bring activation times down from months to minutes.
- **More reliable:** With Network Services Orchestrator, you have end-to-end atomic transaction control and the capability to change device and service models with exceptional precision. Add or reconfigure devices and services with greatly reduced effort and disruption, even in live production environments.

### Next Steps

To find out more about what Network Services Orchestrator enabled by Tail-f can do for your business, visit [www.cisco.com/go/nso](http://www.cisco.com/go/nso).