

Services as Code

Available through Cisco Lifecycle Services

Automation, DevOps consulting, and support

Traditionally, the configuration and provisioning of services and infrastructure are executed manually and require a series of steps and interactions with various tools and platforms. This approach can be error-prone, time-consuming, and difficult to reproduce consistently.

Cisco® Services as Code allows enterprises to define their network infrastructure state and treat all network elements as software that can be versioned and managed at scale. Automation and DevSecOps methodologies expedite the provisioning, configuration, testing, and deployment process that enables you to seamlessly operate and optimize your network, backed by 24x7 technical support.

- More than two-thirds of enterprise network operations organizations lack sufficient standardization on processes, and teams are not sufficiently aligned with common ITSM framework.¹
- Operators can reduce network operations cost by up to 65 percent by using automation at the IP layer.²
- By 2025, 70% of organizations will implement structured infrastructure automation to deliver flexibility and efficiency, up from 20% in 2021.²

Benefits

- **Version control:** Enable IT teams to track changes, collaborate, and roll back to previous versions if needed.
- **Automation:** Manage complex and dynamic environments easily by creating or modifying infrastructure programmatically using code-based configuration for automated provisioning, deployment, and scaling.
- **Testing and validation:** Improve change reliability and quality with configuration code that can be tested, validated, and integrated into continuous integration and continuous deployment (CI/CD) pipelines.

¹Gartner, 4 Steps to Scale Network Automation, 2023

²FutureNet World, IP network automation: Realizing the benefits and overcoming challenges, 2023

³Gartner, How to Evolve Your Physical Data Center to a Modern Operating Model, 2022

Service overview

Services as Code includes the following:

- **Readiness assessment** that provides insight into functional specifications to get from current state to the desired state of CI/CD with seamless automation.
- **People, process, and solution enablement** to accelerate the adoption and operation of your networks for improved efficiency, accuracy, and scalability.
- **Solution setup and continuous integration** that allows your network teams to rapidly and reliably build, deploy, and manage network infrastructure as code.
- **Continuous deployment** that automates the process of deploying changes.
- **Release management** for planning, coordinating, and deploying software releases to production environments.
- **24x7 support** throughout the lifecycle.

Next steps

Cisco Services as Code is available through Cisco Lifecycle Services as an annual subscription service. By combining Cisco Customer Experience (CX) expertise with open-source communities, we can align Services as Code with your change management cycle to improve efficiency, accuracy, and scalability.

To get started, contact your account representative or authorized Cisco partner today.

Applicable technologies

We strive to transform NetOps to DevOps with these technologies:

- **Cisco Application Centric Infrastructure (ACI®)** simplifies data center network management and enhances security by providing a centralized application-centric approach.
- **Cisco SD-WAN connects** any user to any application with integrated capabilities for multicloud, security, predictive automation, and enhanced network visibility – all on a Secure Access Service Edge (SASE)-enabled architecture.

Why Cisco?

Leverage the unrivaled expertise and network optimization experience of Cisco Lifecycle Services to drive your business forward.

- **Extensive expertise** with thousands of engineers and decades of experience in network transformations.
- **Proprietary IP** with intelligent and actionable insights amassed from millions of devices in production and Cisco AI and machine learning.
- **Knowledge transfer** to upskill your organization and help you maximize the customer experience with hands-on training.