



Overview

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Audience

This guide is for experienced network administrators who want to use Cisco Crosswork Change Automation and Health Insights in their network. This guide assumes that you are familiar with the following topics:

- Networking technologies and protocols (IS-IS, BGP, and so on)
- Network monitoring and troubleshooting
- Familiarity with the Cisco Crosswork Infrastructure 4.0 and how the applications are installed. For more information, see [Cisco Crosswork Infrastructure 4.0 and Applications Installation Guide](#).

Overview of Cisco Crosswork Change Automation and Health Insights

Cisco Crosswork Change Automation and Health Insights is part of the Cisco Crosswork Network Automation suite of products. Cisco Crosswork Change Automation and Health Insights retrieves real-time information from the network, analyzes the data, and uses APIs to apply network changes. The Cisco Crosswork Change Automation and Health Insights platform brings together streaming telemetry and model-driven application programming interfaces (APIs) to redefine service provider network operations.

Cisco Crosswork Change Automation and Health Insights enables service providers to quickly deploy intent-driven, closed-loop operations. The platform provides a ready-to-use solution supporting the following use cases:

- Monitor Key Performance Indicators (KPIs) and notify of any anomalies.
- Prepare network changes triggered by changes in KPIs and roll out these changes.

- Automate change-impact and remediation.

This guide explains how to use Cisco Crosswork Change Automation and Health Insights.

For more information about the Cisco Crosswork Network Automation platform, see the [Cisco Crosswork Network Automation Product page on Cisco.com](#).

Integration with other Cisco and non-Cisco products

Crosswork API: Cisco Crosswork Change Automation and Health Insights provides a robust set of APIs that allow it to be integrated with other tools you use to manage and configure your network. For more details on the product APIs, see the [Cisco Crosswork Network Automation API Documentation on Cisco DevNet](#).

Cisco WAE: Cisco WAN Automation Engine (Cisco WAE) providers supply traffic and topology analysis to Cisco Crosswork Change Automation and Health Insights. The foundation software is Cisco WAE Planning, which provides a cross-sectional view of traffic, topology, and equipment state.

Cisco NSO: Cisco Crosswork Change Automation and Health Insights uses Cisco Network Services Orchestrator (Cisco NSO) as the default provider to configure the devices according to their expected functions, including configuring any required model-driven telemetry (MDT) sensor paths for data collection. Cisco NSO is vital in supplying device management and configuration-maintenance services.

Crosswork Active Topology: Cisco Crosswork Active Topology enables visualization of topology and services on logical and geographical maps.

Crosswork Optimization Engine: Cisco Crosswork Change Automation and Health Insights uses instances of Cisco Crosswork Optimization Engine to provide real-time network optimization allowing operators to effectively maximize network utilization as well as increase service velocity.

Crosswork Zero Touch Provisioning: Cisco Crosswork Change Automation and Health Insights works with Crosswork Zero Touch Provisioning (ZTP) to allow users to bring up devices quickly and easily using a Cisco-certified software image and a day-zero software configuration of the customer's choice. Once provisioned in this way, the new device is onboarded to the Crosswork device inventory (and, if it is configured as a Crosswork Provider, to Cisco NSO), where it can be monitored and managed like other devices.

Syslog Server: Cisco Crosswork Change Automation and Health Insights interacts with syslog server to parse the syslog events from devices in recognized formats (RFC5424 and RFC3164).

Licensing

Change Automation and Health Insights are separately licensed applications. The Change Automation license count increments for each new playbook. Health Insights license is based on the number of KPIs you have enabled (via a KPI Profile), and the license count increments for each enabled KPI.

To purchase a Cisco Crosswork Change Automation and Health Insights license, contact your Cisco account representative.

For more about licensing, see the [Cisco Crosswork Network Automation Product Data Sheet on Cisco.com](#).



Note For demonstrations and field trials, Cisco Crosswork Change Automation and Health Insights can be used without a license for up to 90 days.
