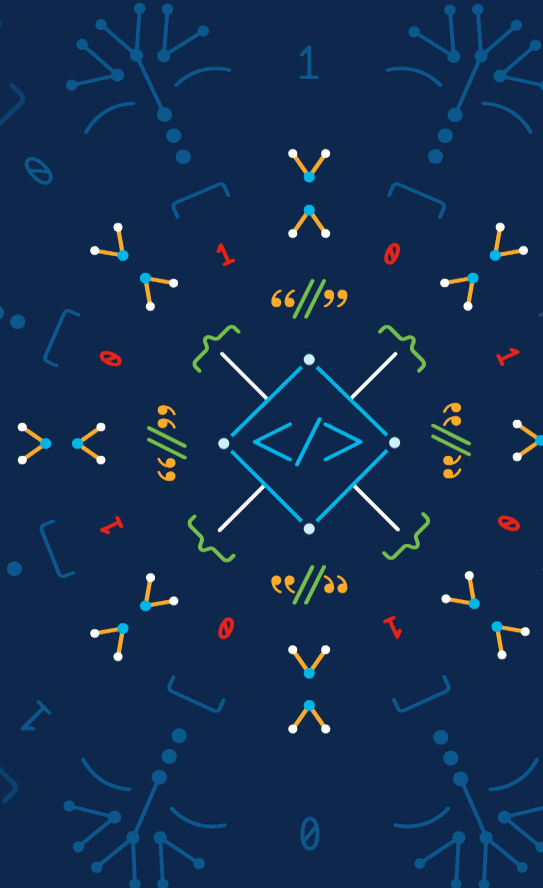


Auto Enabling Health Monitoring of NSO Services

NSO, Change Automation and Health Insights

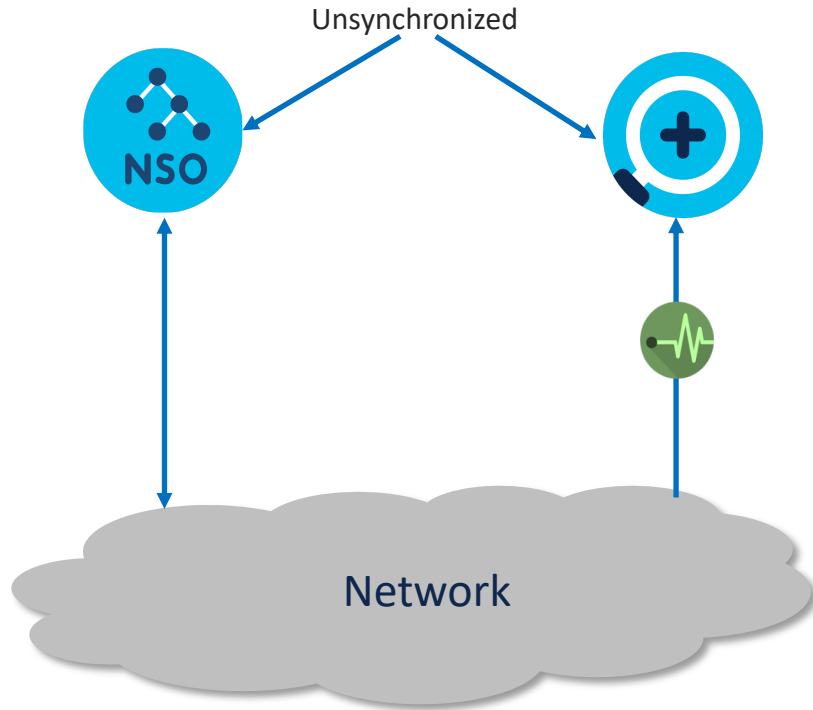
Farook Mohammad
Technical Marketing
May 10, 2022



Should Health Monitoring be part of Network Service Lifecycle



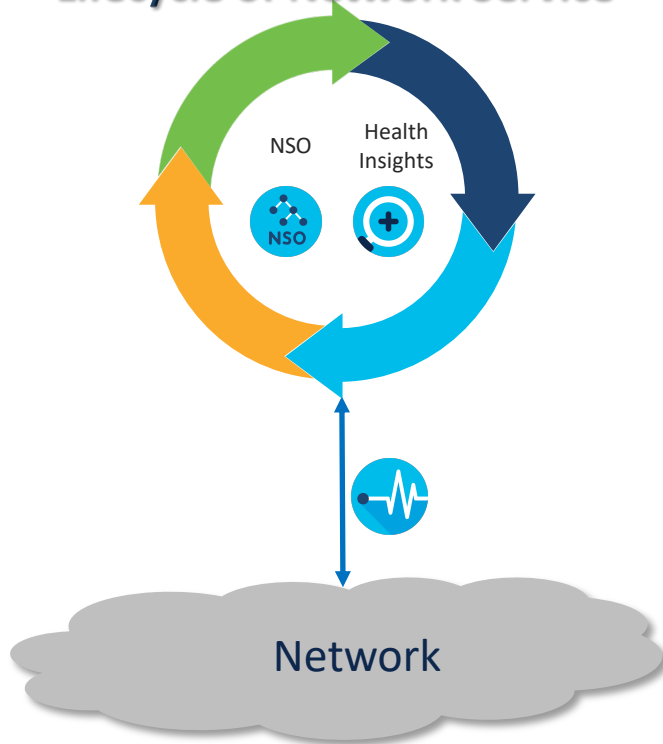
Network Health Monitoring Today



- Provisioning and Maintenance Overhead
- Increased complexity
- Increased operational expense

Integrated Network Health Monitoring

Lifecycle of Network Service



Integrated Network Life cycle: Service Provisioning + Health Monitoring

- Health monitoring integrated as part of service provisioning
- No additional configuration for Health Monitoring

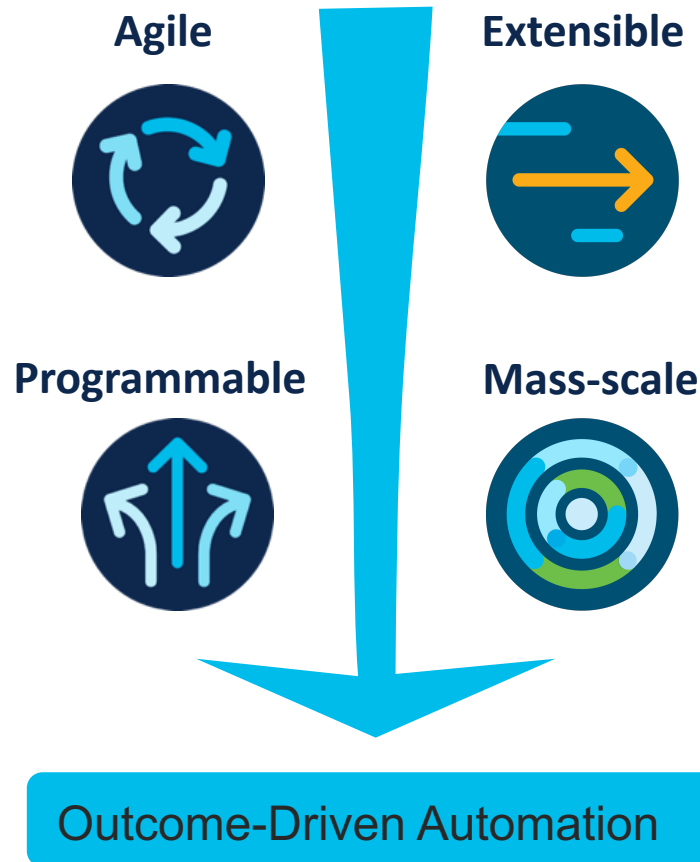
Auto Enabled Health Monitoring

- Auto generated KPI's for Network Service
- Auto provisioning of KPIs at the end points of the Network Service

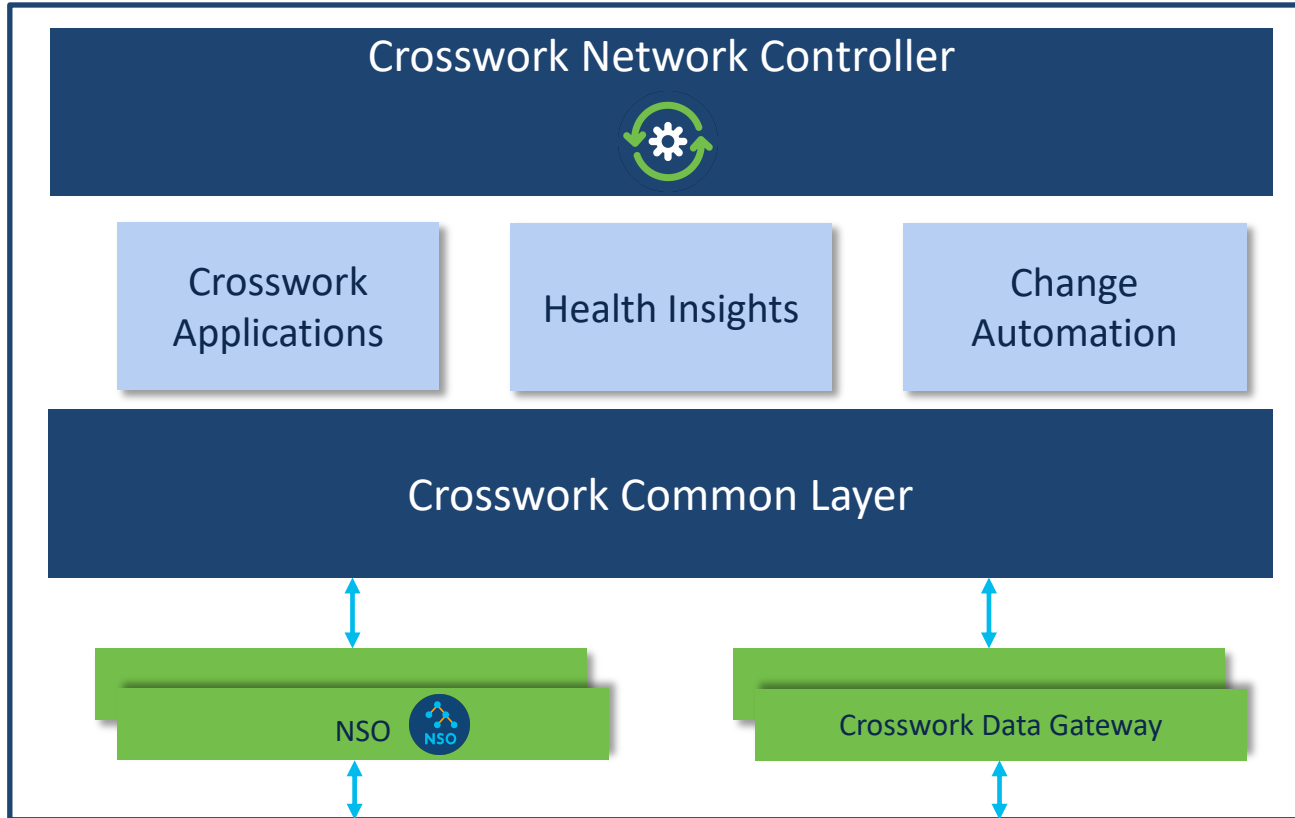
Optimal resource utilization

- No manual configuration of KPIs.
- Develop the “Enable KPI Service” once and use it across any NSO Service

Cisco Crosswork: Built on Architectural foundation to enable Modernized Operations



Crosswork Network Controller: Overview

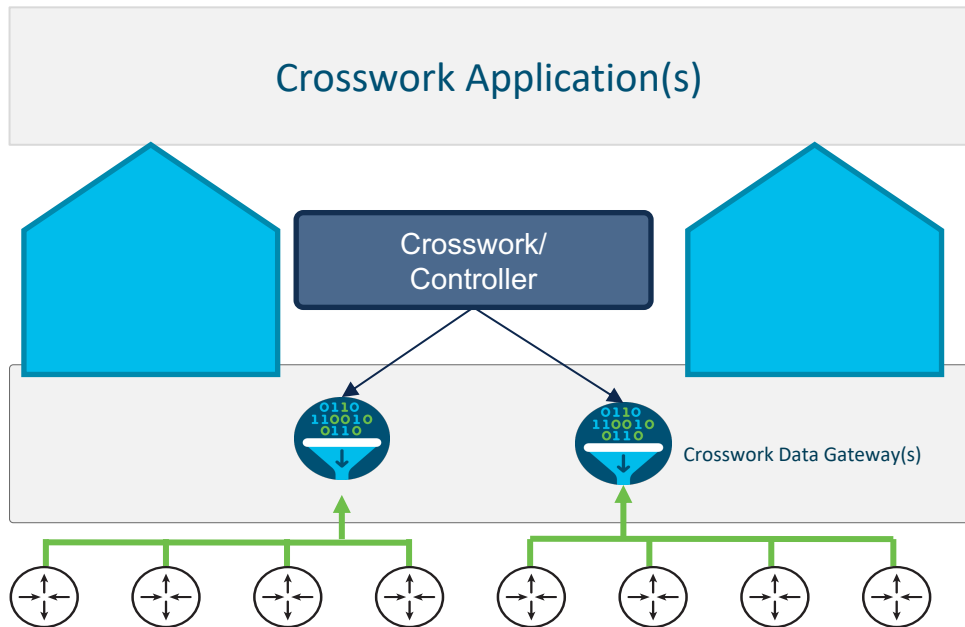


Crosswork Data Gateway



Crosswork Data Gateway

Crosswork Data Gateway is part of the Crosswork Automation platform



Secure gateway between the network and applications to collect data



It is designed to be multi-vendor, multi-protocol



Enables mass scale deployments

Health Insights

Make Your Data Actionable



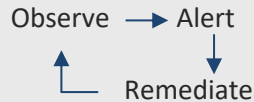
What are Health Insights and Change Automation?*

Programmable



Playbook for faster resolution

Closed-loop



Configurable



Create your own KPIs for faster turnaround of custom use-cases

Feedback driven



Orchestration augmented with telemetry

A programmable, closed-loop remediation system that drastically optimizes Network Performance and improves Service Stability.

Over

100%

ROI

Based on labor cost model for smart software upgrades and 3Y investment profile. Approx 36,000 labor hr savings

API driven ecosystem



<https://developer.cisco.com/docs/crosswork/>

Do more with



Services
+
KPIs

The right choice for



telemetry-driven
automation

Health Insights: Existing Functional View

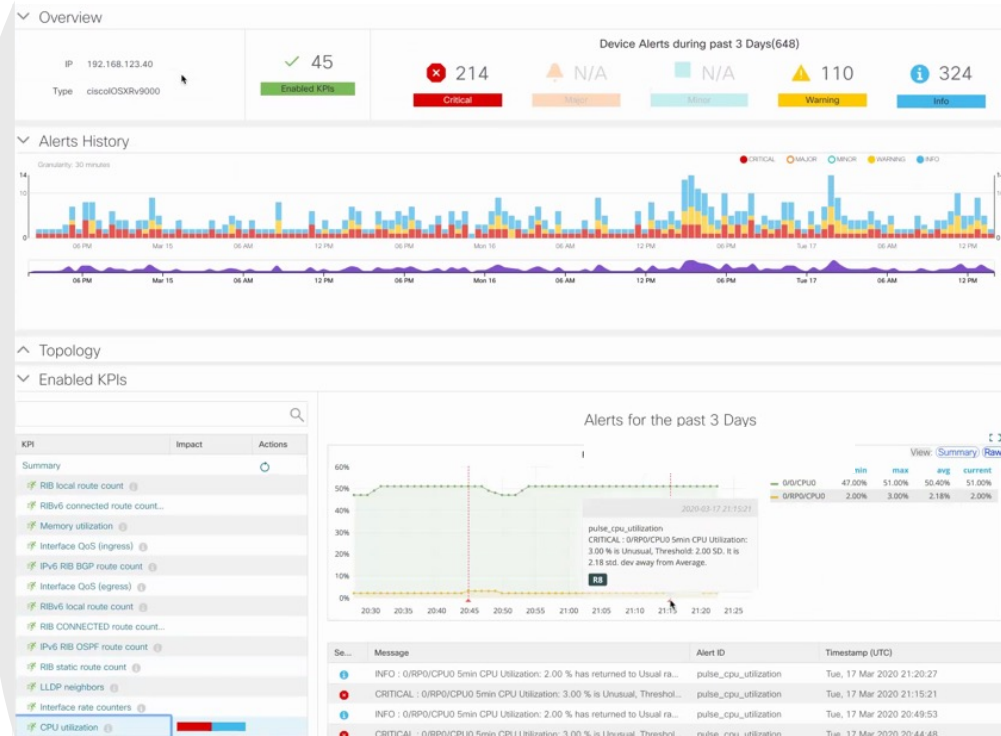


Health Insights: Alert Visualization and Analysis

KPI
Recommendation
Engine



Smart Monitoring &
Alerts



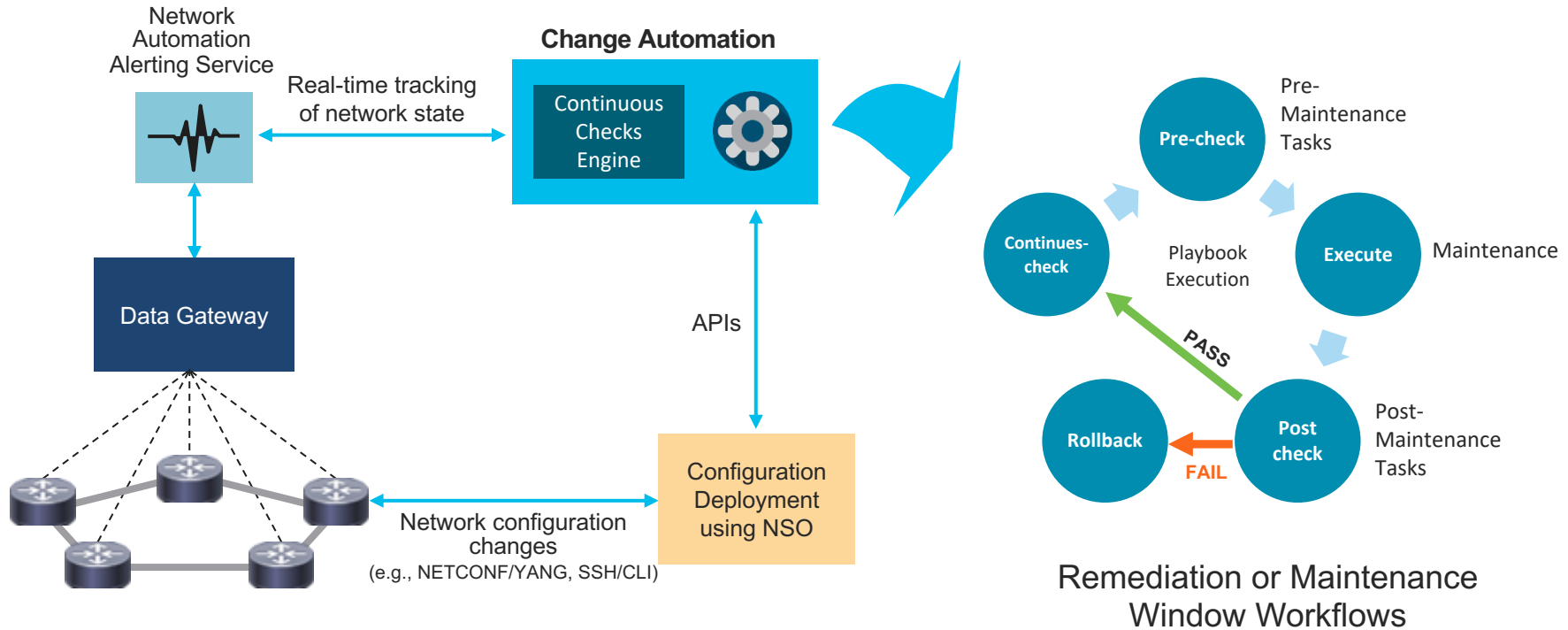
Change Automation

Codify Your Workflows



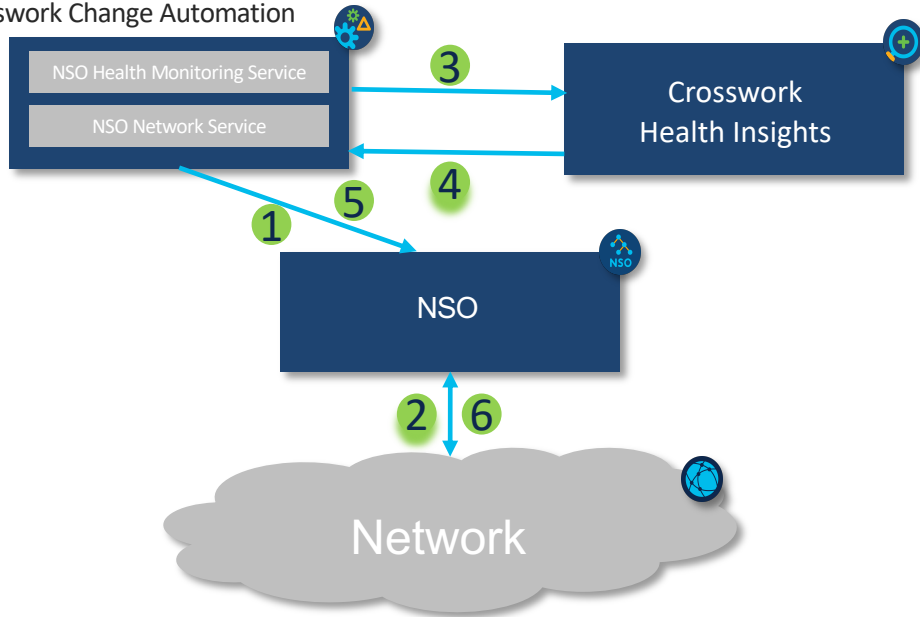
Change Automation

Codify and Execute Operational Tasks with Structured Workflows



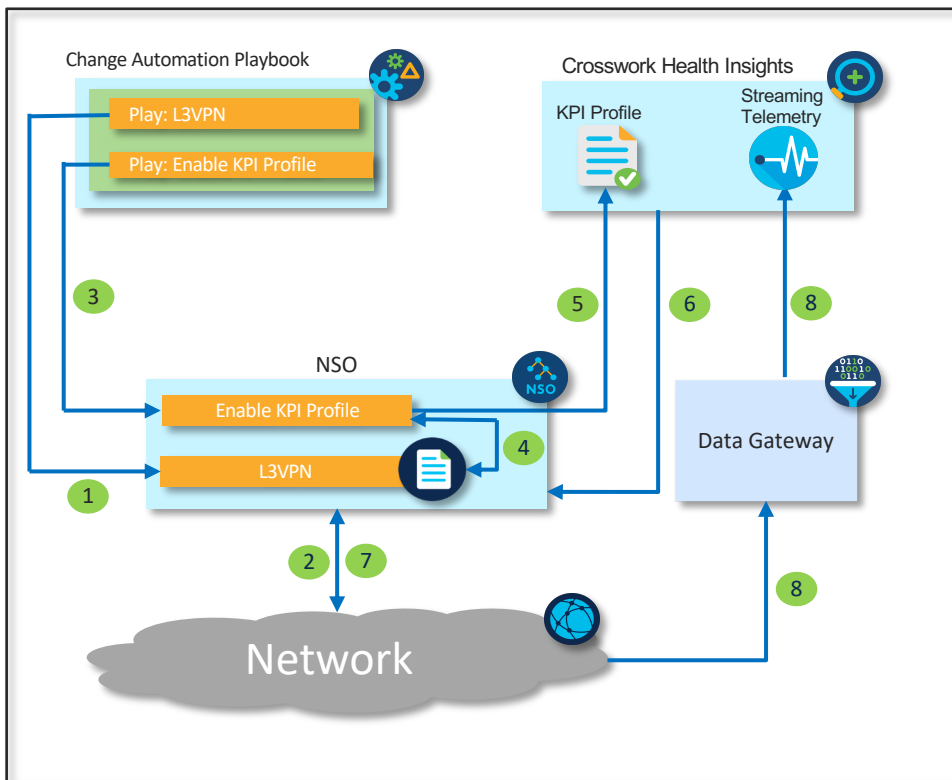
Auto Enabling Health Monitoring of NSO Services

Crosswork Change Automation



- 1 NSO Network Service play provisioned
- 2 NSO Network Service provisioned
- 3 Request to create the KPI's for NSO Service
- 4 Request to Change Automation play to provision KPI's
- 5 Request to NSO to provision KPI's for NSO Service
- 6 KPIs provisioned to endpoints of NSO Service

Auto Enabling Health Monitoring of NSO Services



1. L3VPN Play invocation
2. L3VPN NSO Service Configuration
3. Enable KPI Profile Play invocation
4. Generate KPI List for L3VPN
5. Initiate KPI Profile creation
6. KPI Profile Created
7. KPIs provisioned on endpoints of L3VPN
8. Streaming KPI telemetry to Health Insights

Resources

Dcloud Demo: [Auto Enabling Health Monitoring of NSO Services](#)

Devnet blog: [blog post](#)

Product Info: [Cisco Crosswork Network Automation](#)



The bridge to possible