Keysight Vision Orchestrator

Centrally Manage, Automate, and Get Actionable Insight from your Visibility Fabric in the Cloud, Edge and Data Center

Overview

Keysight Vision Orchestrator (KVO) is the central management, automation, and orchestration platform for the Keysight visibility fabric. As networks scale across cloud, edge, and data center environments, operations teams need a single control plane instead of a growing set of disconnected, manually managed devices.

KVO delivers value across five areas that matter most to visibility operations teams:

- **Operational savings** – automating repetitive day-to-day tasks – upgrades, backups, troubleshooting, and configuration – to reduce manual effort and lower the total cost of running the visibility layer.
- **Automation of configuration** – standardized, repeatable workflows for provisioning, backup/restore, and scripted changes across the fleet.
- **Advanced packet broker clustering** – a single pane of glass to manage large-scale, multi-site visibility fabrics, with automated path resolution and resilient forwarding across clustered nodes.
- **Ease of use** – simplified navigation and workflows that bring the on-box experience to a centralized platform, reducing the learning curve and time to configure.
- **Alerting and alarm management** – centralized, actionable alerts and alarm history across the entire visibility fabric, with integration into third-party monitoring and ticketing systems.

KVO is offered as a virtual appliance that can operate on most major hypervisors or cloud providers, and can manage hundreds of visibility nodes across Cloud, Data Center, and Edge deployments.

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Key Features

Operational Savings Through Automation

KVO reduces the day-to-day operational burden of running a visibility fabric by automating the tasks that consume the most engineering time.

- **Software & Firmware Upgrade Automation** – automatic notification of available updates, scheduled maintenance windows, and configurable upgrade policies.
- **Configuration Backup & Restore** – use the script engine to push a golden configuration to many devices of the same type, or roll back to a last known good state.
- **Script Engine** – build custom automation workflows for repeatable, use-case specific tasks (e.g., IMSI list management, bulk filter updates).
- **Offline / Planning Mode** – design and validate complex visibility fabric changes against simulated nodes before deploying to production.
- **Change Management** – simplified change request and acknowledgment workflow, with full audit trail and one-click rollback.

Advanced Packet Broker Clustering

KVO gives operations teams a single control plane to manage complex, multi-site packet broker clusters at scale.

- **Device Clustering** – group visibility nodes into logical clusters of like devices to simplify configuration and management tasks.
- **Automated Path Resolution** – KVO automatically calculates and sets up the resilient path for packet forwarding and processing across the cluster.
- **Path Optimization & Resiliency** – forwarding paths are continuously monitored and automatically adjusted to route around failures or degradation.
- **Dynamic Resource Allocation** – resources are allocated across the fabric to maximize efficiency as traffic and topology change.
- **Scale** – manage hundreds of visibility nodes across Cloud, Data Center, and Edge from a single interface.

Ease of Use

KVO offers a very intuitive user experience to reduce the learning curve for teams moving from on-box management to a centralized platform.

- **Guided Onboarding** – step-by-step, intuitive process for adopting new devices into KVO.
- **One-Click Configuration** – easily switch, test, and roll back configurations for day-to-day operations.
- **Three-Stage Filtering** – allows for setting up complex filtering and packet selection and transformation management
- **Access Control** – Single Sign-On and granular Role and Resource Based Access Control (SAML, OpenID, LDAP).

Alerting & Alarm Management

KVO centralizes fault and event visibility so issues are detected and acted on faster, across the entire fabric.

- **Event & Alarm Management** – centralized alert acknowledgment workflow and alarm history across all managed devices.
- **Configurable Thresholds** – set alert thresholds tailored to the environment and operational priorities.
- **Syslog & Logging** – syslog integration and audit logging of every committed change and action.
- **Granular Alarm Sourcing** – alarm granularity down to the individual packet broker for precise troubleshooting.

Actionable Insight & Reporting

- **Custom Dashboards & Reporting** – Intuitive dashboards validate that configuration is operating as expected, ease troubleshooting, and provide end-to-end statistics.
- **Inventory Management** – a full list of all managed devices, including device type, software version, transceiver info, and light levels.
- **Centralized License Management** – manage licensing for the entire visibility fabric from one place.
- **Open API** – northbound API exposing fabric management functions for integration with third-party systems.

Vision Assist – Conversational Knowledge Assistant

- **What it is** – Keysight Network Visibility product knowledge at your fingertips – grounded in official documentation for KVO, NPBs, MobileStack, AppStack, SecureStack, and CloudLens.
- **Instant Answers Inside KVO –** instant answers without digging through lengthy documentation.
- **Faster Time to Resolution –** eliminates wait times for basic troubleshooting questions**.**
- **Accelerated Onboarding** – new team members get up to speed through conversational guidance directly in KVO.
- **Knowledge-Only by Design – reads and explains –** it never executes changes and never accesses customer environments.

Ordering Information

Part Number	Description
LIC-KVO-10D	Keysight Vision Orchestrator (KVO) perpetual license enabling management of 10 devices, with clustering. One device = one Vision Network Packet Broker (NPB), one Virtual Packet Broker, or one Bypass switch. TAA Compliant.
SUB-KVO-10D	Keysight Vision Orchestrator (KVO) subscription license enabling management of 10 devices for one (1) year, with clustering. TAA Compliant.
LIC-KVO-100D	Keysight Vision Orchestrator (KVO) perpetual license enabling management of 100 devices, with clustering. TAA Compliant.
SUB-KVO-100D	Keysight Vision Orchestrator (KVO) subscription license enabling management of 100 devices for one (1) year, with clustering. TAA Compliant.

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