

# Keysight Vision Orchestrator

Self-healing intent-based visibility

## Centrally Manage Visibility in the Cloud, Edge and Data Center

Keysight Visibility solutions help our customers monitor their entire environment and deliver the data they need to their monitoring and analytics systems. Vision Orchestrator acts as the central point of management, automation, and orchestration of all Keysight Visibility solutions.

As networks evolve to support cloud and edge computing, the solutions required to monitor these environments become more complex. Vision Orchestrator allows you to define a clear intention for monitoring: Where, When, and How to deliver data. Vision Orchestrator's AI Expert System then performs the complex task of configuring the low-level systems to deliver your intention.

Vision Orchestrator can manage hundreds of visibility nodes in the Cloud, Data Center, or Edge. This enables organizations to scale and operate their visibility solutions across their entire environment with the ease of intent-based policies.

Vision Orchestrator is offered as a virtual appliance which can operate on most major hypervisors or cloud providers.



Figure 1. KVO

## Highlights

- Intent-based Monitoring Policies
- Self-healing Visibility Fabric
- Custom Dashboards and Reporting
- Cluster Management
- Policy Scheduler
- Event and Alarm Management
- Software Upgrade Automation
- Firmware Upgrade Automation
- Script Engine
- Configuration Backup and Restore
- Centralized License Management
- Single Sign On
- Global Change Management
- Granular Role and Resource Based Access Control

## Key Features

- Device Clustering - Group visibility nodes into groups of like devices to ease configuration/management tasks
- Offline Config (planning mode) – allows user to create complex visibility fabric and define monitoring policies based on simulated nodes
- Reporting and Dashboards - Validate configuration is meeting intention, troubleshooting with ease, Easily view events, End-to-end Statistics
- Software Update Management - Automatic Notification of Software Updates
- Configuration Backup/Restore – use script engine to upload a golden config and populate it to many devices of the same type
- Scheduled Automation of Device Updates, Set Maintenance Windows and Desired Upgrade Policy
- Role and Resource Based Access Control - Granularly set permissions for individual users or roles, Permissions based on Role, Resource, or both Support for SAML, OpenID, LDAP
- Dynamic Path Solver - AI Expert System solves for the best path from tap to tool
- Self-Healing Monitoring - Intent-Based Policies route around failures and degradation
- Inventory management – provide a full list of all managed devices including device type, software version, transceiver info, light level and more
- Audit and Logging - Change Management to track every committed change, Roll-back to previous known good configuration, Logging of events and actions via Syslog

# Intent-Based Visibility Orchestration

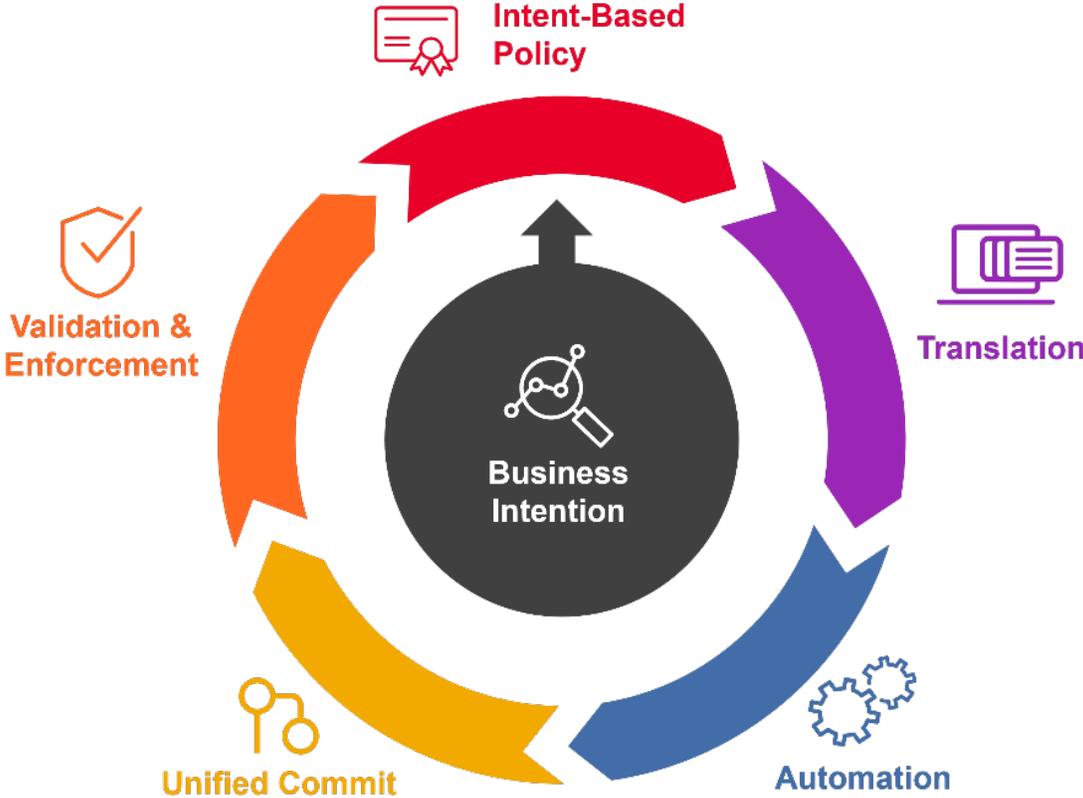


Figure 2. Intent-Based visibility workflow

With Intent-based Orchestration, you can focus on your business needs instead of product specifics. Rather than focusing on port numbers, product models, or complex filter specifications, you can focus on the data you need and the systems that need it. Vision Orchestrator’s AI Expert System takes your business intention and translates that to the necessary configuration for each device it manages.

Additionally, by expressing a high-level intention, Vision Orchestrator can self-heal the Visibility Solutions in the event of any failures or degradation of service. This ensures easy configuration and adaptable response for modern visibility needs. All of this is done with change control management to ensure the right configuration is deployed with a validation and enforcement engine to make sure your business intention is what the Visibility Solution delivers.

## Simplified orchestration and automation

Automating a visibility fabric can be complex since components have purpose-built APIs with different schemas. Vision Orchestrator acts as an API translator for all Keysight Visibility products abstracting that complexity away from the user. Vision Orchestrator presents one Unified API which exposes every function of the system. This enables northbound system to work with one central API to manage, automate, and orchestrate events globally.

## Role and resource based access control

Monitoring networks are managed by many different teams with specific roles and responsibilities. Some individuals administrate the production network, others manage security tool sets, and some are technicians trying to troubleshoot and resolve issues. Access control must be able to present these individuals what they need without introducing more risk. Therefore, fine granularity is needed and should be based not only on roles but the resources they manage.

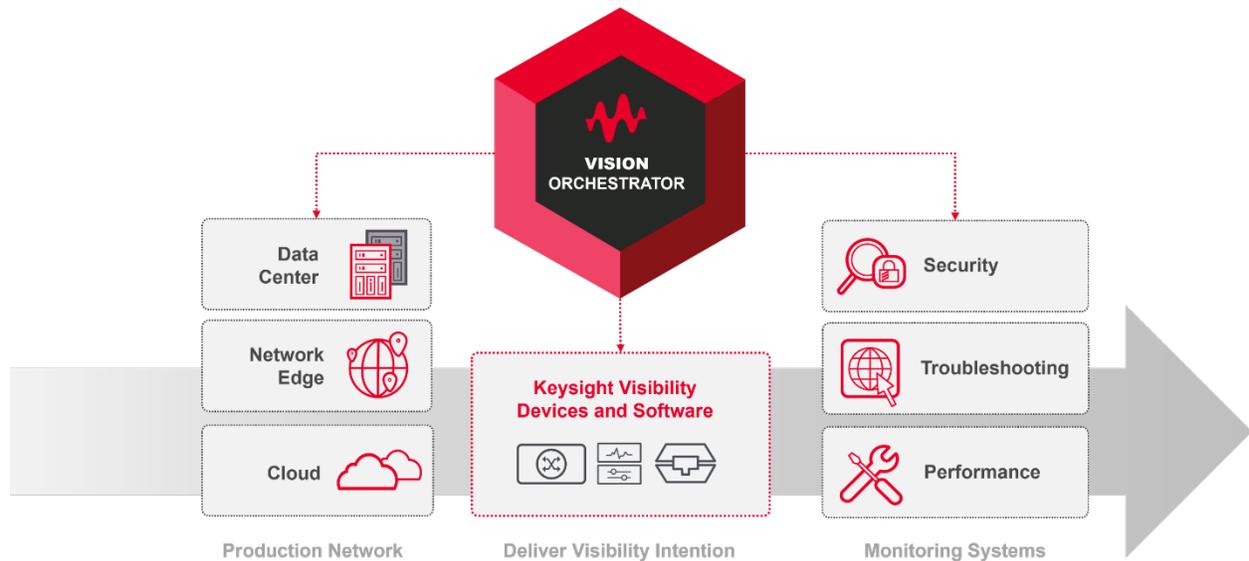


Figure 3. Vision orchestrator architecture

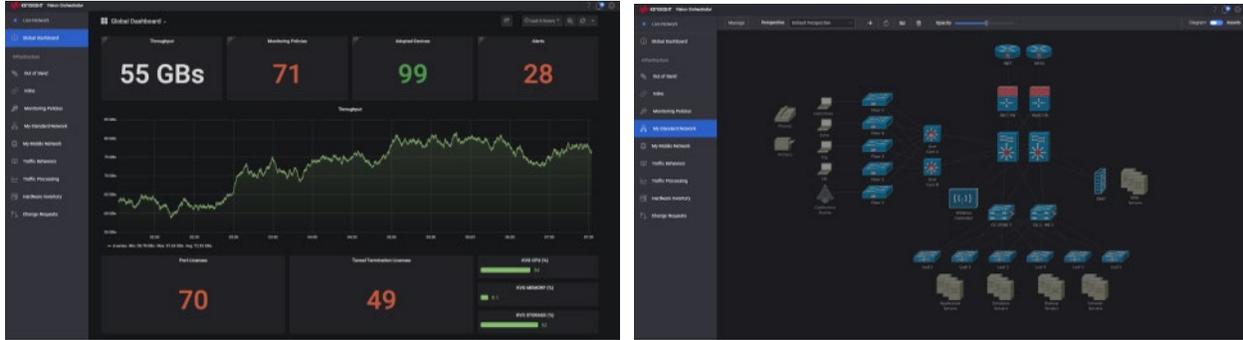


Figure 4. Observability dashboards and production network modeling

## System Requirements

| Specification | Minimum requirement  | Recommended requirement  |
|---------------|--|--|
| Hypervisor    | <ul style="list-style-type: none"> <li>VMware vSphere 6.5 or later</li> <li>KVM</li> </ul> | <ul style="list-style-type: none"> <li>VMware vSphere 6.5 or later</li> <li>KVM</li> </ul> |
| CPU           | 6 vCPUs  | 8 vCPUs  |
| RAM           | 20 GB  | 32 GB  |
| Storage       | 200 GB   | 200 GB   |

## Ordering Information

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

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