



# Komodo Eye: OSI Model Support

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In terms of OSI Model Support, Komodo Eye monitors the "Deep Stack," spanning from the foundational physical layer up through complex application and grid logic. The following indicates how the supported devices are categorized across OSI Layers 0 through 5:

## Layer 0 (Physical Power, Environment, and Industrial Plant)

Unlike traditional IT tools, Komodo Eye monitors the physical power and environmental elements necessary to keep the network running, as well as heavy industrial assets.

- **Power and Environment:** Battery plants, UPS systems, capacitor banks, circuit breakers, rectifiers, cybrid dehydrators, QKD links, and environmental sensors (including dry contacts and door alarms).
- **Heavy Industrial Plant:** Boilers (including drums and tubes), steam turbines, condensers, generators, unit/station transformers, critical motors, industrial pumps, large industrial fans, coal mills/pulverizers, soot blowers, conveyors, feeders, and bunkers.

## Layer 1 (Physical Transport and Optical Layer)

At the physical connectivity layer, the platform supports fiber, optical, and legacy transport equipment:

- **Optical Transport:** DWDM and SDH optical transport nodes, Fiber Drivers, Passive Optical Network (PON) hardware, Optical Line Terminals (OLTs), and Optical Network Terminals (ONTs).
- **Legacy Transport:** Legacy SONET plants (managed via TL1) and legacy Serial (1200 baud) connections.

## Layer 2 (Data Link and Switching)

This layer focuses on local network delivery, switching, and wireless backhaul connectivity:

- **Wired/Switching:** Ethernet switches, Carrier-grade leaf switches, and hubs.
- **Wireless/Radio:** Microwave radios, RF radios, Wi-Fi access points, LTE field area networks, and Customer Premises Equipment (CPEs).

## Layer 3 (Network and Routing)

Komodo Eye monitors IP routing, secure pathways, and network security perimeters:

- **Routing & Virtual Networks:** Enterprise and carrier-grade routers, SD-WAN infrastructure, massive-scale IPsec tunnels, and VPNs.
- **Security Perimeters:** Next-Generation Firewalls (NGFW) and Intrusion Detection/Prevention Systems (IDS/IPS).

## Layers 4 & 5 (Transport, Session, Application, and Grid Logic)

Komodo Eye combines the upper layers to track end-to-end business logic, cloud instances, and operational process control.

- **Enterprise IT & Cloud:** Web and application servers (such as Microsoft IIS, Apache, and Tomcat), email servers (Exchange, Zimbra), public cloud environments (AWS, Azure), microservices, containers (Kubernetes, OpenShift), Hypervisors, and Virtual Machines (VMs).
- **OT & Process Logic:** Distributed Control System (DCS) servers, SCADA servers, OPC (DA/UA) servers, Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), protection relays, and industrial controllers.
- **Edge Sensors & Analyzers:** Continuous Emission Monitoring System (CEMS) analyzers, Steam and Water Analysis System (SWAS) panels, vibration/condition monitoring systems, flame scanners, and edge-level process sensors (e.g., flow, temperature, and pressure transmitters).