



Executive Summary: Komodo Eye

The Industry’s Only High-Fidelity, Air-Gapped NMS for Critical Infrastructure

As critical infrastructure faces an era of adaptive, AI-assisted cyber threats and increasing regulatory pressure, traditional IT-centric monitoring tools fall short by being "wide in coverage, but shallow in depth." **Komodo Eye** has 20 years’ experience as a Network Management System (NMS) specifically engineered for environments where downtime is a catastrophe.

Strategic Value Proposition

- **Operational Resilience:** Unlike cloud-first tools, Komodo Eye is 100% on-premises and air-gapped, meeting non-negotiable security requirements for NERC CIP and nuclear environments.
- **Deep Multi-Layer Visibility:** Spans from Layer 0 (Physical Power & Environment) to Layer 5 (Application Delivery), monitoring over 88,000 device models across 8,000 manufacturers.
- **Predictive Intelligence:** Shifting from reactive "firefighting" to predictive maintenance, the platform identifies subtle patterns—such as a fading fiber link or battery degradation—months before a failure occurs.

Core Differentiators

Feature	Business Impact
5-Year Data Lake	Maintains granular telemetry for 60 months (vs. the standard 30 days) for long-term trend analysis, asset encroachment (e.g., tree growth), and regulatory reporting.
Air-Gapped Gen-AI	Local, "on-box" LLM (Komodo AI™) provides expert-level troubleshooting and documentation synthesis without exposing sensitive data to the public cloud.
Needle-in-a-Haystack Search	Tools like Port Hunter and IP Navigator reduce Mean Time to Repair (MTTR) from hours to minutes by locating "silent" or rogue devices down to the physical port.
Unified IT/OT View	Bridges the gap between modern software-defined networks and legacy serial gear (Modbus/TL1), providing a "Single Pane of Glass" for the entire grid.

Risk Management & Compliance

- **Sync the Master Inventory:** Connect the automated "bookkeeper" to departmental databases to demonstrate the \$80K labor savings.
- **Activate Proactive Alerts:** Turn on the "early warning system" to catch and fix connection slowdowns before users call to complain.
- **Security Watchdog:** Continuously reconciles the live network state against the official inventory database to immediately flag unauthorized "uninvited" devices.
- **Regulatory Automation:** Automates the reporting of energy and resource consumption for global compliance and provides automated SAIDI/SAIFI tracking for utility reliability.
- **Audit Integrity:** Features immutable, tamper-resistant audit logs of every administrative action, configuration change, and login.

Current Deployments

- Large Midwest Electric utility monitors 4.3 million endpoints every 5 minutes across its power grid.
- Large East Coast Electric manages 10 million devices ranging from nuclear, wind, and solar sites.

Case Studies

- Baltimore Gas & Electric (BGE) salvaged a \$100M Field Area Network (FAN) upgrade by achieving 100% visibility across 80,000 endpoints operating on a constrained 900 MHz SCADA backhaul.
 - Commonwealth Edison (ComEd) used Komodo Eye to automate the configuration of over 260 new MPLS routers, eliminating a 10% manual error rate and accelerating a smart grid expansion for 3.8 million customers.
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Conclusion

Komodo Eye transforms raw telemetry into actionable intelligence, allowing executive leadership to make informed capital allocation decisions and improve overall network safety, security, and resilience.