PRODUCT BRIEF

DX NetOps

Streamline NOC Operations with Faster Troubleshooting and Lower Costs

KEY BENEFITS

- **Optimize Costs**

  From a single management portal, gain visibility and control over complex, traditional, software-defined, and multi-vendor infrastructures.

- **Reduce Downtime**

  Automate triage and root cause identification on both managed and unmanaged networks to expedite problem resolution.

- **Minimize Risks**

  Make early decisions based on anomalies, patterns, and trends before they impact network delivery.

- **Accelerate Innovation**

  Tame the complexity of modern environments and capitalize on transformative technologies like SDN, SDDC, WIFI, and SD-WAN.

Challenge

Today's network operations (NOC) teams must manage an increasingly complex infrastructure that spans hybrid clouds, software-defined networks (SD-WAN, SDDC), and enterprise WIFI. This environment introduces significant visibility gaps, particularly across networks managed by third-party entities such as ISPs and cloud providers.

This complexity is compounded by a reliance on multiple, disconnected monitoring tools, which create silos and increase the risk of human errors. Traditional tools cannot effectively scale to process the massive volume of data, overwhelming teams with metrics and alarm noise instead of actionable insights. This problem is exacerbated by a persistent shortage of skilled networking professionals, resulting in increased pressure on operations teams.

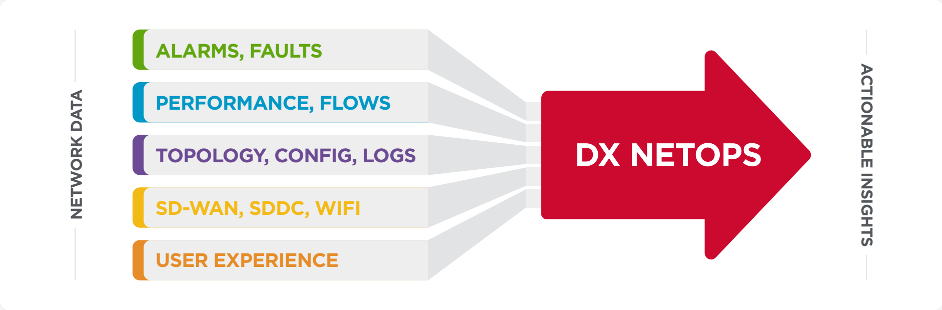
As a result, NOC teams are forced into a reactive cycle, troubleshooting problems only after end-users are impacted. This leads to lengthy outages, reduced productivity, and poor service levels, all of which negatively impact business performance.

Product Overview

DX NetOps by Broadcom provides unified network monitoring engineered to manage the complexities of modern, multi-vendor, and hybrid network infrastructures. The platform offers consolidated views that transform disparate data—including topology, configuration, logs, performance metrics, faults, flows, and user experience—into actionable insights for network operations teams.

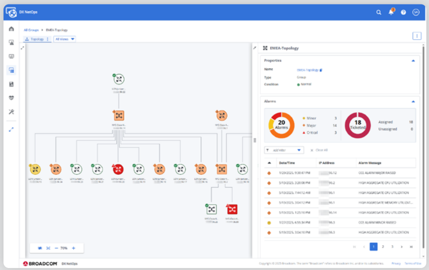
A key differentiator of DX NetOps is its integration of end-user experience monitoring into the standard workflows that network specialists rely on. Supported by powerful, AI-driven analytics, the product enables NOC teams to efficiently triage issues, rapidly determine the root cause, and proactively resolve network delivery problems before they impact end-users.

DX NetOps empowers organizations to move beyond reactive troubleshooting to a more predictive and automated operational model, ensuring reliable end-to-end service delivery across traditional, cloud, and software-defined environments.

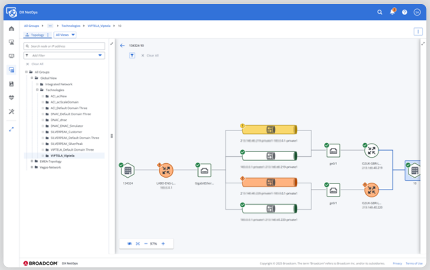


DX NetOps unifies network data from all domains into actionable insights.

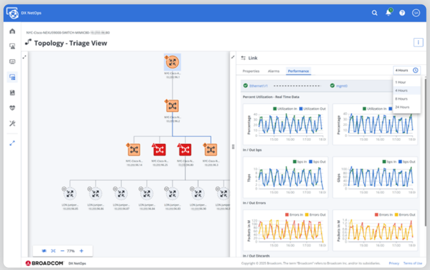
A UNIFIED PLATFORM



DX NetOps offers powerful, contextual troubleshooting within a single, unified interface.



DX NetOps provides a unified, end-to-end view across complex hybrid networks.



DX NetOps features drill-down capabilities to view real-time and historical metrics.

DX NetOps delivers visibility into end-to-end network paths, including ISP and CSP networks.

Fault Management

DX NetOps facilitates fault management by helping to identify the root cause of network delivery problems. The product uses automated event correlation to suppress symptomatic alarms, which helps isolate the component responsible for an issue. This is supplemented by contextual troubleshooting features. Fault and performance data are overlaid directly onto the network topology map, allowing operators to view a problem's location and its relationship to other network components from a single interface. Using multi-hop triage views, operators can trace a problematic path to assess the upstream and downstream impact of a fault. Additionally, the platform can correlate outages with recent configuration changes by providing a device audit trail, which aids in the investigation process.

Performance Monitoring

DX NetOps provides comprehensive performance monitoring for complex, multi-vendor network infrastructures, covering both traditional, software-defined, and wireless technologies. A key aspect of its approach is the integration of performance data directly with the network topology. This allows operators to view real-time and historical metrics—such as bandwidth utilization, latency, and errors—for any device or link directly on the map. Alongside this contextual view, the platform offers flexible dashboards and detailed reporting for proactive capacity planning, anomaly detection, and in-depth analysis. This combination of high-level and granular data helps teams optimize network operations and make informed decisions about resource allocation.

Flow Analytics

DX NetOps ingests and analyzes data from various flow protocols (such as NetFlow, sFlow, and J-Flow) to provide deep visibility into network traffic. This function allows operators to identify exactly which applications, conversations, and users are consuming bandwidth across the network. When performance monitoring indicates a bottleneck on an interface, flow analytics provides the necessary detail to diagnose the cause by showing the specific traffic responsible for the congestion. Through dedicated dashboards and reports, network specialists can interpret this complex data to manage resources effectively, investigate anomalous traffic, and perform long-term capacity planning based on historical usage patterns.

Configuration Management

DX NetOps offers robust tools for managing network device configurations, reducing risk, and simplifying compliance. A key function is the ability to establish and maintain reference configurations for devices or groups of devices. The system then continuously monitors for any deviations from these approved baselines and can automatically generate alarms when a misconfiguration is detected. For managing planned work, the platform includes features for change scheduling, automation, and role-based approval workflows, ensuring that updates are implemented in a controlled manner. Detailed reporting provides a full audit trail of all configuration changes, which is essential for troubleshooting and verifying policy compliance.

KEY FEATURES

- Unified management portal and data model for fault, performance, flow, configuration, and user experience.
- Proven operational workflows that integrate with ITSM tools and simplify network management.
- AI-driven analytics to support proactive alerting and root cause analysis.
- Network fault suppression, topology-based isolation, and correlation of configuration changes to outages.
- Alerts based on dynamic thresholds, deviation from baseline, and anomaly detection.
- Configuration management of single devices and device families.
- Network traffic analysis with application identification.
- Visibility into the overlay and underlay of software-defined networks.
- Wide scope of protocols supported (SNMP, non-SNMP, Flows, gNMI, Telemetry…).
- Multi-vendor device and topology discovery, including SDN, SDDC, SD-WAN, NFV, and WIFI.
- High-scale monitoring of up to 5M items and 500K metrics per second.
- APIs and Kafka bus for real-time data streaming, extraction, and integration.

Active Experience

DX NetOps Active Experience provides visibility into network paths that are outside of direct operational control, such as the internet and cloud provider networks. The capability integrates AppNeta technology to perform active, synthetic monitoring, where lightweight test traffic is sent across these unmanaged networks to measure end-to-end performance and pinpoint issues. A key aspect of this integration is the ability to leverage existing DX NetOps Data Collectors as AppNeta monitoring points. This simplifies deployment and allows NOC teams to quickly gain performance insights from locations where they already have an established presence, without needing to deploy new hardware or agents.

Network Observability by Broadcom

Ultimately, DX NetOps is a cornerstone of the broader Network Observability by Broadcom solution. It enables NOC teams to move beyond siloed monitoring by unifying the rich, contextual data from its diverse capabilities—including fault, performance, flow, configuration, and active experience monitoring. This holistic approach enables network teams not only to recognize that a problem exists, but also to gain a deep understanding of why it is happening and its full impact across the enterprise. As a central pillar of Network Observability, DX NetOps empowers organizations to ensure reliable service delivery, align with business demands, and manage the complexities of modern hybrid networks with confidence.

For more information, please visit the following URL: networkobservability.broadcom.com

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