

SOLUTION BRIEF

NETWORK OBSERVABILITY BY BROADCOM

Gain End-to-End Visibility
to Ensure High Performance
Network Operations

KEY BENEFITS

Optimize Network Operations

Establish optimized network operations that fuel intelligent and fast triage. Leverage proven, scalable, multi-vendor data collection and correlation. Harness advanced alarm noise reduction and analytics.

Accelerate Network Transformation

Accelerate network transformation and new service delivery. Gain unified, end-to-end visibility into LAN, WAN, Wi-Fi, ISP, and cloud networks. Manage performance across traditional and software-defined architectures.

Enhance Connected Experiences

Enhance connected experiences with active monitoring that spans from client to cloud. Speed validation of network operations innocence and root cause isolation across external, third-party managed networks.

Business Challenges

In recent years, digital transformation initiatives have grown increasingly critical for businesses around the globe. In the process, network connectivity has come to underpin virtually every aspect of a business' services and operations. Now, it's not an overstatement to say business performance is integrally bound to network performance.

Due to this digital transformation, many organizations' network connectivity and infrastructure underwent radical changes. For today's businesses, the user experience doesn't just rely on traditional networks managed by the internal IT operations group. Now, digital services rely extensively upon a dynamic mix of local Wi-Fi, internet service provider (ISP), SaaS, and public cloud networks.

The problem is that too many IT operations teams are relying on tools that aren't equipped for the realities of the modern network—which leaves them with significant blind spots. Fundamentally, these teams lack the end-to-end visibility they need into their internal networks, external, third-party networks, and cloud-based services. Consequently, when issues arise, teams struggle with slow, time consuming, and inefficient workflows as they seek to identify and address the root cause of the problem.

To address these challenges, IT operations teams can't continue to rely on tools that only monitor the health of the corporate LAN and WAN. Today, these teams need a solution that can provide full visibility into the health, performance, and availability of all network devices and services. To ensure optimized, highly responsive digital services, teams need to establish coverage that extends beyond the data-center edge, and spans those networks managed by third parties, including ISPs and cloud service providers. Further, they need application-level insights that reflect the network experience delivered to end users. By leveraging a unified solution that provides the complete coverage required, teams can identify, troubleshoot, and resolve issues more quickly and efficiently.

Solution Overview

Network Observability by Broadcom offers a robust set of network observability and management capabilities. With these capabilities, teams can optimize network operations, accelerate network transformation, and enhance connected experiences. The solution equips users with a unified view of traditional networks as well as modern, software-defined and multi-cloud environments. The solution delivers the rapid scalability needed to support the network transformation initiatives of the largest global enterprises.

Network Observability by Broadcom provides the unified, end-to-end network visibility that teams need to ensure networking services are continuously delivering optimized availability and performance. The solution extends the NOC's monitoring reach beyond enterprise borders into edge services, multi-cloud environments, and ISP networks. The solution has a decades-long track record of enabling teams to ensure optimized network availability, and continually representing the state of the art in the industry.

With the solution, teams can track every hop across the entire network delivery path and spot any degradation point—from the client to the cloud. With advanced, patented analytics capabilities, Network Observability by Broadcom delivers actionable insights that fuel proactive network management. The solution enables teams to more rapidly isolate issues and address emerging requirements for next-generation network technologies. Via a single console, the solution gives teams end-to-end awareness across multiple domains, vendors, and technologies. As a result, the solution enables teams to establish standardized, automated triage workflows, accelerate problem resolution, and tame the complexity of today's SDN, Wi-Fi, and cloud environments.

KEY CAPABILITIES

Optimize Network Operations

- Centralize the management of data, including alarms, faults, performance metrics, flow intelligence, configurations, and logs
- Bring user experience insights into the NOC
- Use advanced analytics to reduce alarm noise and expedite triage
- Leverage actionable insights driven by robust data collection and intelligent analysis

Accelerate Network Transformation

- Monitor high-scale, multi-vendor networks and technologies, including software-defined data centers, SD-WAN, and Wi-Fi
- Simplify triage across multi-vendor SD-WAN and secure access service edge (SASE) networks
- Perform health diagnostics of both the overlay and underlay in SD-WAN environments
- Enforce device compliance with policy-driven configuration

Enhance Connected Experiences

- Actively monitor network delivery experience over paths to cloud, SaaS, and other external sites
- Track SaaS and cloud application traffic over any network
- Isolate the root cause of performance issues, even if they arise in ISP or cloud provider networks
- Monitor wireless networks using standard workflows



FIS Extends Visibility Beyond Network Edge, Speeds Triage by 95%

FIS is one of the leading companies in the financial technology (FinTech) market. Since 1968, they've been delivering solutions that lead the way in innovation, and they now offer more than 750 products. As in many organizations, the IT operations team at FIS faced the challenge of ensuring optimized network service delivery, including when user traffic is reliant upon networks that reside outside the traditional borders of the enterprise.

To address these challenges, the IT operations team started to leverage the advanced and extensive capabilities of Network Observability by Broadcom. With this solution, the team at FIS can correlate individual device performance and end-to-end network delivery path health. Now they can pinpoint the root cause of any degradation that affects the user experience, whether it arises in internal networks or those managed by third parties, such as ISPs and cloud providers. This enables the IT operations team to identify and resolve any network issue much faster. In fact, with the solution, the team was able to speed triage by 95%. To learn more, view the [FIS case study](#).

About Us

Broadcom Inc. (NASDAQ: AVGO), a Delaware corporation headquartered in San Jose, CA, is a global technology leader that designs, develops and supplies a broad range of semiconductor and infrastructure software solutions. Broadcom's category-leading product portfolio serves critical markets including data center, networking, enterprise software, broadband, wireless, storage and industrial. Our solutions include data center networking and storage, enterprise, mainframe and cybersecurity software focused on automation, monitoring and security, smartphone components, telecoms and factory automation. For more information, go to www.broadcom.com.