

# ExtraHop Application Delivery Assurance System

Ensuring That Business-Critical Transactions Do Not Fail



## PROBLEM OVERVIEW

The ExtraHop network-based application performance management (APM) solution provides demonstrated results throughout the application lifecycle:

- **Advanced Triaging**—Quickly diagnose and pinpoint problems across the network, web, database, and storage tiers.
- **Service Improvement**—Understand trends and behaviors of your network and applications to find opportunities for service improvement and avoidance of SLA penalties.
- **Proactive Early Warning**—Locate small problems before they become major disasters.
- **Enhanced User Experience**—Provide deep visibility into end-user experience to ensure a more consistent customer experience.
- **Accelerated Troubleshooting**—Quickly pinpoint issues and rapidly repair anomalies without needing single-purpose tools or a siloed approach.
- **Application Mapping**—Reduce the risk of deployment delays or failure by examining application interdependencies and readiness prior to deployment.
- **Predictive Planning**—Avoid inefficient and costly infrastructure investments by understanding requirements for capacity planning.

## EXTRAHOP SYSTEM

- All-in-one network appliance (no per-server or per-seat costs)
- Passive deployment (network tap or port mirror)
- Network-level analysis (L2–L4) + real-time transaction analysis (L4–L7)
- Rich browser-based UI

The ExtraHop Application Delivery Assurance system is a passive network appliance built to ensure that business-critical transactions do not fail. The ExtraHop system quickly auto-discovers and auto-classifies applications and devices, delivering immediate value out of the box and providing application-level visibility with no agents, configuration, or overhead. Performing real-time analysis of application transactions across the network, web, database, and storage tiers, the ExtraHop system accelerates troubleshooting efforts and proactively warns of potential problems. As the performance leader in the network-based application performance management (APM) category, the ExtraHop system delivers the fastest and deepest analysis in the industry, monitoring at speeds up to 10Gbps in a single appliance.

## Features

### L7-Content Analysis

Protocol modules understand application wire protocols at the transaction level, extracting valuable health and performance information in real time. The ExtraHop system offers protocol modules for web applications, enterprise databases, network storage, directory services, and other industry-specific protocols.

### Advanced TCP Analysis

By simulating the TCP state machines of the endpoints, the ExtraHop system performs the most-advanced TCP analysis available in the industry.

### Enterprise Scalability

Using recent gains in processing power and storage capacity, the ExtraHop system processes traffic at network speed both in terms of throughput and transactions per second.

### Device Auto-Discovery

The ExtraHop system auto-discovers devices that are present on the monitored networks, inferring device names and roles through traffic analysis.

### Application Activity Maps

Application Activity Maps visually display dependencies based on device and application auto-discovery.

### Trouble Groups

Trouble groups use pre-built complex rules based on ExtraHop field expertise and expert knowledge base to highlight esoteric, but not uncommon, problems and failure modes.

### Flexible Deployment

With support for IPv4, IPv6, and VLAN awareness, the ExtraHop system can be seamlessly integrated into most network environments.

### Sophisticated Alerting Engine

The ExtraHop system includes a built-in alerting engine that supports both simple threshold-based alerts and sophisticated trend-based alerts derived from historical context.

### Rich Web User Interface

The ExtraHop system includes a rich web UI that enables users to start at a high-level overview and zoom down to transaction-level details.

### One-Click Reporting

Each page of the full-featured web UI includes a PDF button to generate instant reports with a single click. Additionally, multiple devices, views, and metrics can be consolidated into a single report that can be triggered at fixed time intervals.

## EXTRAHOP DATACENTER DEPLOYMENT

### How It Works

#### Passive Deployment

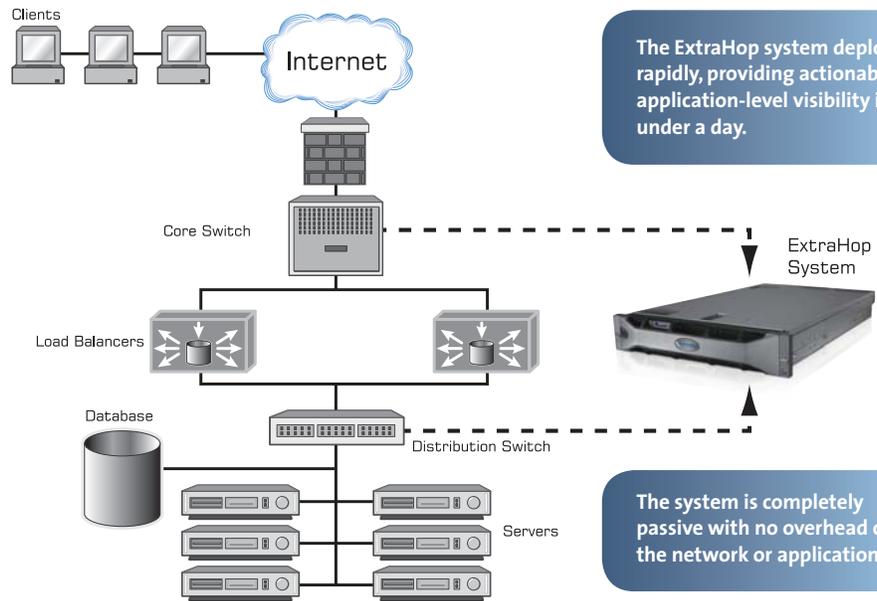
The ExtraHop Application Delivery Assurance system is a completely passive network appliance deployed using a network tap, port mirror, VACL capture, or other data-access technology.

#### Full-Stream Reassembly

While other products only inspect L4 headers, the ExtraHop system reconstructs all traffic flows to analyze the payload.

#### Real-Time Datastore

The ExtraHop system includes a self-contained, streaming datastore for storing and retrieving performance and health metrics in real time.



The ExtraHop system deploys rapidly, providing actionable application-level visibility in under a day.

The system is completely passive with no overhead on the network or applications.

### Platform Specifications

#### EH2000 (1U Appliance)

- Up to 3Gbps of analysis
- Support for 300 devices
- 30+ days of look-back



#### EH5000 (2U Appliance)

- Up to 10Gbps of analysis
- Support for 1,000 devices
- 30+ days of look-back



#### ExtraHop Central Manager (Virtual Appliance)

- Unified visibility across multiple ExtraHop appliances
- Centralized administration of groups and alerts
- Integrated reporting across large, distributed environments

#### EH1000v (Virtual Appliance)

- Up to 1Gbps of analysis
- Small-footprint deployment for distributed environments
- Real-time analysis of traffic that is confined to virtual environments and private clouds

### About ExtraHop Networks

ExtraHop Networks is a leading provider of network-based application performance management (APM) solutions. The privately held company was founded in early 2007 by Jesse Rothstein and Raja Mukerji, engineering veterans from F5 Networks and architects of the BIG-IP v9 product. ExtraHop Networks provides award-winning solutions to companies across a wide range of industries, including ecommerce, communications, and financial services.

“ExtraHop provides the one solution that allows us to get an ‘EKG’ and listen to our network as it operates. I can hear how the heart is beating, how the blood is flowing, and isolate exactly what happened when a problem occurs.”

—Steven Carlson, Network Support Engineer, Applied Discovery, Inc., a division of LexisNexis

