

# Nominee: EndaceVision™ Network Visibility Software by Emulex

---

## Nomination title: EndaceVision™ Network Visibility Software

Network engineers in organisations of all size are frequently inundated with a wide range of network issues and alerts to investigate and resolve. Many of today's network management tools are built around the premise of fire fighting –diagnosing and tackling issues after they actually happen and after they become big enough to disrupt the network, usually without the depth of data to fully visualise what happened.

Emulex EndaceVision Network Visibility Software takes a different approach, providing a wide variety of visualisation options that enable IT professionals to identify network trends and issues in real-time, as well as retrospectively, as well as proactively monitor and address future issues using detailed visualisations to highlight issues before they have a chance to fully manifest as major problems. EndaceVision also helps admins identify the root cause of critical network and security operations issues so that causative factors can be easily pinpointed and addressed quickly to eliminate the threat or performance bottleneck from the network.

EndaceVision is a powerful, purpose-built, web-based network history visualization application for high-speed networks that comes bundled with all EndaceProbe™ Intelligent Network Recorders (INRs) and Central Management Servers. Using EndaceVision, a team of network operations, security or incident-response professionals can navigate quickly through network history data – both packets and metadata – to identify the cause of network issues and take appropriate action – without guesswork. Using metadata generated from network traffic recorded by EndaceProbe INRs deployed throughout the network to create traffic visualisations, EndaceVision builds up a historical visual and data-centric view of network activity by graphing network activity based on the key areas of bandwidth use, traffic breakdown over time and top talkers.

EndaceVision connects IT admins to the exact packets that they need to respond correctly and establish the true root cause of network problems. It is an invaluable solution that delivers immediate value for IT professionals and network administrators in all organisations, by delivering a previously unachievable level of visibility into network activity, coupled with an unrivalled visual approach to analysis and monitoring.

Typical uses include drill-down diagnosis of network performance issues, tracking Voice over IP (VoIP) and unified communications quality of experience (QoE), locating unapproved application traffic, monitoring and enforcing Service Level Agreements (SLAs), along with data retention compliance monitoring and IT security policy enforcement.

EndaceVision visually presents a variety of data metrics including:

- Bandwidth over time – In most cases, this will be the first point of analysis in the event of an issue or proactive network investigation. This view shows bandwidth use in terms of days or months, right down to microseconds, allowing microbursts to be captured and visualised. The bandwidth view quickly highlights unusual traffic spikes that are often one of the main reasons for application and network performance issues.
- Traffic over time – Alongside the consumption of bandwidth, being able to view the volume of network traffic over time, encompassing IP protocol, VLAN, MPLS, Port IP or MAC traffic, can provide useful insight into finding the underlying cause of many network issues. Breaking this off from a pure bandwidth-based network analysis can uncover additional indicators as to the cause of bandwidth bottlenecks that would not necessarily be obvious from a bandwidth view, such as VLAN misconfigurations that can create latency without a corresponding increase in bandwidth consumption.
- Traffic analysis – The EndaceVision traffic analysis capability is a visual representation of what applications are present in a particular traffic segment, allowing admins to see what is being used to generate traffic across the network globally, or to drill down and see the application traffic flow at a particular host point.
- TCP/IP conversations – A particularly powerful visual tool that allows admins to pinpoint and isolate specific IP conversations for analysis – particularly useful when investigating security issues such as possible malware infections within the network, gateway security holes being exploited externally.
- Signal to noise – Using the ‘Top Talkers’ view, admins can see the hosts that are the biggest consumers of bandwidth, allowing for a quick drilldown to see if that traffic is signal (useful, productive data traffic) or noise (non-work-related traffic or data noise being generated by a system problem such as a misconfigured application, security issue or an overburdened node). Users can move between views seamlessly, add new filters and zoom in/zoom out to help find the cause of a problem.

The application complements existing prevention and detection tools that are in use by adding fully accountable and 100 percent accurate intelligent network recording and response, along with root-cause visual analysis tools to the IT admin toolkit when dealing with service-affecting network events, regardless of source. Furthermore, the ability to concurrently query all of the EndaceProbe INRs deployed across a given network means that admins experience a dramatic reduction in the time to visibility on critical issues and avoiding the need to do repetitive sequential searches of different systems.

EndaceVision also enables IT departments to pull together dynamic visualisations of network traffic and activity in order to perform on-the-fly assessments of network activity in a collaborative, shared web-based environment in order to problem solve and analyse bandwidth use and congestion. Users can share visualisation with each other, and shared views can be worked on and manipulated without compromising the data or another user's view of the issue. This, coupled with the ability to access EndaceVision and review data from a variety of devices including Android and iOS tablets and smartphones means that admins can have anywhere access, be they desk side with a user or in another part of the world.

EndaceVision is an essential monitoring and forensic investigation tool for any organisation running high-speed 1Gb, 10Gb or 40/100GbE networks. With the unique attribute of having a 100 percent accurate packet metadata capture, EndaceVision is the only monitoring solution that is built to meet the exacting demands of today's and tomorrow's ultra-high speed networks.

## Why nominee should win

### **Visibility:**

Using a variety of approaches, EndaceVision helps network engineers drill down into traffic flows to see how and where problems occur.

### **Innovation:**

EndaceVision allows organisations to visualise network traffic in new ways, and integrates with leading analytics tools.

### **Workflow:**

Using a logical approach to workflow based on tried-and-tested fault detection, EndaceVision fits into engineer's way of working, rather than needed them to adapt to it.

### **Customer adoption:**

EndaceVision has been deployed in a wide variety of organisations worldwide, including national stock exchanges, broadcasters, financial services companies and government departments to name just a few.