# **EndaceVision**

### Powerful, application-aware investigation tools.

EndaceVision<sup>™</sup> is a powerful, browser-based investigation GUI built into all EndaceProbe<sup>™</sup> Analytics Platforms and into InvestigationManager<sup>™</sup>, the VM that enables rapid estate-wide search and data-mining.

EndaceVision lets network operations, security, or incident response teams navigate quickly through network history data, identify the causes of network performance and security issues and take appropriate action without guesswork. It also provides on-probe packet decoding using a hosted instance of Wireshark<sup>™</sup>, removing the need for analysts to download large packet trace files for analysis.

EndaceVision provides a view of the entire network being monitored with the ability to rapidly pivot down to specific segments or links as required. It acts both as a visualization tool for viewing and analyzing traffic, and as a search engine for accessing traffic streams and packets of interest from recorded Network History.

By making it quick and easy for analysts to find and analyze the exact packets they're interested in, from amongst potentially petabytes of recorded network history, EndaceVision puts critical evidence right at the fingertips of analysts, enabling them to make confident decisions quickly.

EndaceVision's intuitive user interface lets users quickly drill-down by time, user, server, protocol, application, or a variety of other attributes to locate the 'packets of interest' relevant to a particular investigation. EndaceVision closes the gaps between detecting a problem, establishing why it happened, and remediating the issue. This can reduce the time needed to investigate and resolve issues from days or weeks to hours or even minutes.

### **Network-wide visibility**

A monitoring and recording fabric of connected EndaceProbes guarantees a complete and actionable network traffic history for the fastest networks, up to and including 100 GbE links. Together, EndaceVision and InvestigationManager let you:

- Construct a highly accurate real-time picture of what's happening across a global network based on a range of network attributes such as bandwidth utilization and application usage
- Rapidly extract specific packets of interest from any EndaceProbe across the network as a single file or multiple files to decode and use with any tools that support PCAP or decode without downloading using hosted Wireshark.
- Perform retrospective forensic analysis of network events by mining and interrogating a 100% accurate source of Network History, with every packet carrying a highly accurate timestamp to enable accurate reconstructions
- Search and analyze packets from multiple EndaceProbes simultaneously as easily as from a single source.

### **ENDACE VISION AT A GLANCE**

Powerful application-aware, browser-based investigation tool that will run on any modern browser

Network-wide investigation of performance and security events with definitive, packet level Network History

100% packet visibility on network links from 10Mbps to 100Gb Ethernet (100GbE)

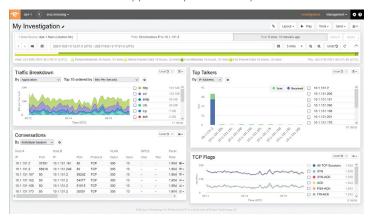
Expand range of visualizations including accurate microburst detection, bandwidth over time and top talkers

Support for role-based access control (RBAC) and Terminal Access Controller Acess-Control System (TACACS) security

### BENEFITS

- Quickly analyze network traffic before, during, and after a specific period of interest, such as a security alert, outage or microburst
- Reduced mean time-to-resolution (MTTR) for network or security events
- Definitive evidence for investigations
- No license costs

EndaceVision complements existing prevention and detection tools by bringing the definitive evidence of 100% accurate Network History and the forensic power of packet analysis to bear on investigating security threats and network or application performance problems.





# **Dynamic network visualizations**

EndaceVision presents a rich variety of data visualizations enabling real-time and retrospective analysis of network performance and security issues. Typical uses include drill-down diagnosis of network performance issues, locating unapproved application traffic, and pinpointing security infractions for fast remediation.



With fast toggling between views, users can rapidly zoom in to a particular time period or application to get a more granular view of behavior, or zoom out to get a macro view.

- Bandwidth utilization gives users the ability to visualize any time range with a resolution down to 10µs. Bandwidth shows both average and maximum values, so spikes are easy to identify and zoom in on.
- Protocol distribution and traffic-breakdown-over-time views give users visibility into the types of traffic on their network and how that distribution changes over time. An extensive variety of industry standard applications and protocols are recognized heuristically, regardless of port. Users can drill-down from application distribution to the specific internal and external IP addresses involved in the flow to identify unauthorized or unexpected applications.
- Top talkers allows users to find the busiest hosts on a network, both sending and receiving.
- Conversations view displays which hosts and users are exchanging data with each other at the MAC, IP, or Transport layers.
- TCP Flags visualizes the behavior of TCP sessions using the protocol's own built-in signaling. Since network forwarding devices are affected by both bandwidth and sessions, the TCP Flags visualization allows a user to track session activity by total count, creation, active data transfer, and tear-down, as well as detect network problems like SYN floods and server failures.
- Any number of network segments across one or more EndaceProbes can be aggregated with any of these views to provide visibility either for a single segment or across the entire network.

Each of the visualizations allows the analyst to progressively isolate related events by constructing hierarchical filters that refine the range of data being investigated. This ultimately leads to the packets of interest that can then be extracted for use in external tools, or investigated in situ using hosted Wireshark.

## **MicroVision**

Small events can have a big impact, even on 10Gbps or faster networks. EndaceVision's MicroVision<sup>™</sup> capability allows rapid investigation of timeframes down to 10µs to allow deep investigation with minimal effort. Those small events can be microbursts causing switch port queue drops and jitter, control channel traffic that's virtually invisible under high-bandwidth videoconference data, or even brief Distributed Denial of Service (DDoS) tests before the real attack. Endace MicroVision includes the full power of all EndaceVision views and filters to provide clarity quickly.



MicroVision also enables the use of PCAP analysis tools on 10Gbps networks. One second of 10Gbps is a full gigabyte, which causes problems for many tools. Endace MicroVision solves this problem with a combination of filters and sub-second resolution, enabling users to export PCAP files from EndaceProbes at much smaller sizes while still containing the relevant packets of interest.

# Decode packets directly without having to download pcaps

EndaceProbes and InvestigationManager provide hosted Wireshark, making it easy to decode packets directly without having to download large pcap files to the desktop. Users can quickly identify traffic sessions of interest, create a filter, and pivot directly to view the decoded data in hosted Wireshark.

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# **Easy File Extraction**

EndaceVision also enables analysts to perform easy file extraction from selected traffic. This feature uses a hosted version of the opensource Zeek™ engine to parse the selected traffic, produce Zeek logs, and reassemble files from any file transfers in the selected traffic. These files and logs can be downloaded allowing files to be submitted to file-scanners or sandbox environments and logs to be reviewed for additional context.

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## **Traffic categorization**

Together, EndaceVision and InvestigationManager leverage a powerful distributed database of information relating to traffic captured by multiple EndaceProbes. This database allows analysis and itemization of traffic present at both individual monitoring points or scaled up across the entire enterprise including: Time, Application, IP protocol and port, IP version, IP address, MAC address, VLAN, Multiprotocol Label Switching (MPLS) and data source.



### **Download acceleration**

EndaceProbes use a unique "download acceleration" technology that tracks all captured network traffic for ondisk storage. This ensures the EndaceProbe can easily identify the location of every packet on disk and retrieve any packet rapidly on-demand. Using download acceleration eliminates the search overhead of traditional packet capture solutions, dramatically reducing the time needed to extract a trace file for immediate investigation of security or network issues. All download types are accelerated, whether archiving traffic to the EndaceProbe, downloading from the web interface, or programmatically downloading via API.

### Easy to access, easy to integrate

EndaceVision runs on Endace OSm<sup>™</sup> software, a hardened network operating system based on the CentOS Linux distribution. With appropriate credentials, an operator can access EndaceVision using any modern web browser on desktop or tablet devices.

EndaceVision complements existing prevention and detection tools by bringing the definitive evidence of 100% accurate Network History and the forensic power of packet analysis to bear on investigating security threats and network or application performance problems.

#### Summary

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

EndaceVision delivers true 100% network visibility that speeds network threat and issue resolution and starts organizations on the road towards automating the resolution of network security and performance issues.



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