EndaceProbe 2144 G5 Series

EndaceProbe™ 2144 G5 Series Analytics Platforms provide 100% accurate Network History recording and Playback™ on four Ethernet links ranging from 10 Mb/s to 10 Gb/s.

Sustained write speeds up to 10 Gbps make the 2144 G5 Series ideal for continuous recording of high-speed links or deploying in remote locations where the 2144 G5's ultra-reliable SSD storage ensures low-touch maintenance.

Smart Truncation™ and compression enable even higher write speeds and effective storage depth of up to 20 Terabytes.

Application Dock™ allows your choice of security and performance monitoring or analytics applications to be hosted directly on the EndaceProbe. Hosted applications can access live traffic for real-time analysis or, using Playback, recorded traffic for back-in-time analysis.

Multiple EndaceProbes can be seamlessly connected to form a scalable, centrally managed recording fabric with a capacity of Petabytes of Network History storage.

PERFORMANCE[1]

Write to disk	10 Gbps sustained 10 Million packets per second >2 s microburst @ 40 Gbps
Maximum Flow Creation Rate	200K flows/sec
Maximum Concurrent Flows	2 Million
Number of Application Dock Instances	Up to 4
Storage depth	7.6 Terabytes SSD Packets [2] up to 20 Terabytes
Physical size	1U Compact Rack Mounted
Secure	FIPS 140-3 and NIAP NDcPP 2.2E Compliant

[1] For more information about real-world performance testing refer to our "Network Recorder Performance Measurement" whitepaper. Performance above was tested using OSm 7.1.5 and 20°C ambient temperature.

[2] Effective packet storage accounting for RAID and metadata overheads and assuming a 4.5:1 ratio for compression and Smart Truncation of packet data

100% Accurate Recording

Dedicated hardware provides lossless capture with nanosecond accurate timestamping.

- Definitive evidence for quickly and accurately resolving security threats and network or application performance problems
- Built-in compression optimizes storage capacity
- Smart Truncation can auto-truncate encrypted or non-compressible packets to maximize storage.

Built-In Investigation Tools

- Analyze Network History with EndaceVision™, a powerful, browser-based traffic analysis tool
- Decode packets without download using hosted Wireshark™
- Analyze to microsecond level with Microvision
- Application classification for 1200+ applications.

BENEFITS

100% Accurate

On demand access to 100% accurate, rich Network History provides conclusive evidence for investigations.

Powerful

Automation and streamlined workflow integration enables faster investigations. This improves security and reduces the impact of network and application performance issues.

Open

Bring clarity to every incident or issue with an open packet capture platform that integrates with all your commercial, open source or custom-built tools. Host third party or open source security and monitoring tools right on the EndaceProbe appliance.

Scalable and Reliable

EndaceProbes are engineered for ultra-high reliability, longevity and security. Centralized management enables scalability and reduces OPEX costs.

Secure

Sensitive Network History data is protected via Role Based Access Control and Endace's security-hardened operating system (OSm). Compliant with FIPS 140-3 and NIAP NDcPP 2.2E.

Freedom to Choose

Deploy your chosen security or performance monitoring tools on EndaceProbe without truck rolls or hardware upgrades.

- Central orchestration for fast, easy deployment
- Enable analytics functions on-demand to meet new requirements
- Analyze Network History without centralizing Petabytes of data.

Workflow Integration

Rich APIs provide integration with commercial, open source and custom applications.

- Pivot directly from alerts in third-party applications to view related packets of interest in EndaceVision™ with Pivot-to-Vision
- Automate archival of packet traces with Pivot-to-Packets.

Secure

- Only authorized users can view or download packet data. Role Based Access Control (RBAC) restricts who can access data.
- Compliant with FIPS 140-3 and NIAP NDcPP 2.2E.

Network History Playback

Playback Network History on-demand to hosted or external analytics tools.

- Playback quickly for targeted scans or slowly for deep investigation
- Playback to real-time analytics tools for historical analysis
- Mine Network History, extract and download packet capture files for manual analysis.

Provenance Enriched History

Provenance™ augments recorded Network History with rich contextual data.

- Self-describing packet traces support Big Data analysis, improve post-event problem resolution and simplify archiving
- Rich evidential trail for effective legal prosecution.

Fusion Partner Program

Our market-leading, cybersecurity and network monitoring partners use EndaceProbe's API integration and Application Dock™ VM hosting to connect their solutions directly to Network History.

- Streamline and automate detection and investigation
- Choose from industry-leading network security and performance solutions
- Shared access to a common, authoritative source of Network History for all applications.

EndaceProbe 2144 G5 Series – Technical Specifications

Minimum OSm release	OSm 7.1.5
Monitoring ports	Up to 4 x 10 MbE / 100 MbE / 1 GbE / 10 GbE
Management interfaces	4 x 100 MbE / 1 GbE, 4 x 10 GbE 1x IPMI
Timestamp synchronization source	1PPS, IRIG-B or PTP via timing port, and NTP via management port
Timestamp synchronization accuracy [3]	Within 100 ns of PTP, 1PPS or IRIG-B source, with 4 ns resolution
Size	1U 19-inch rack mount
Dimensions	Height: 42.8 mm (1.68") Width: 482.6 mm (19") Length: 471 mm (18.54") 408 mm (16.06") Ear to rear wall
Weight	11.2 kg (24.7 lbs)
Power supply	Dual redundant 1400 W AC PSU or Dual redundant 1100 W -48 V DC PSU
Maximum power consumption	500 W
Operating temperature	10-35°C (50-95°F)
Operating humidity	8-90% non-condensing
Maximum heat load	1365 BTU/hr
SSD lifetime	20 TB packet data written per day for 5 years

[3] Excluding offsets or error introduced by clock distribution network or reference clock inaccuracies.

Companion Products

A wide range of fiber optics and electrical transceivers is available. Contact sales@endace.com for details.

For more information on the Endace portfolio of products, visit: endace.com/products

For further information, email: sales@endace.com