# EndaceProbe 4000 G4 Series

EndaceProbe™ 4000 G4 Series Analytics Platforms provide 100% accurate Network History recording and Playback™ on four 1/10GbE links or one 40GbE link.

The mid-level 4000 G4 series offers sustained write speeds up to 3 Gbps and 48 TB of native storage, making it ideal for recording traffic on heavily loaded 1GbE or moderately loaded 10GbE links such as those commonly found at branch offices or WAN gateways.

Smart Truncation™ and compression enable even higher write speeds and effective packet storage depth of more than 120 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 capacity for Petabytes of network history storage.

## PERFORMANCE[1]

| | |
|---|---|
| **Write to disk** | 3 Gbps sustained<br>> 3Gbps compressed<br>4 million packets per second<br>> 2s microburst @ 40 Gbps |
| **Maximum Flow Creation Rate** | 200K flows/sec |
| **Maximum Concurrent Flows** | 4 Million |
| **Number of Application Dock Instances** | Up to 12 |
| **Storage depth** | Native 48 Terabytes<br>Packets[2] > 120 Terabytes |
| **Physical size** | 1U Rack Mounted |

[1] For more information about real-world performance testing refer to our "Network Recorder Performance Measurement" whitepaper. Performance above tested using OSm 7.0 with EndaceProbe set to performance mode and 20degC 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 auto-truncates 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

Integrating commercial, open source and custom applications provides unified access to a single authoritative source of network history.

Host open source and third-party analytics applications to reduce CAPEX and OPEX, improve efficiency and increase agility.

### 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).





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## 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 3rd -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.

## 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 networksecurity and performance solutions
- Shared access to a common, authoritative source of network history for all applications.

## EndaceProbe 4000 G4 Series – Technical Specifications

| | |
|---|---|
| Minimum OSm release | OSm 6.5.7 |
| Monitoring ports | Up to 4 x 1GbE/10GbE or 1 x 40GbE |
| Management interfaces | 2x 1GbE/10GbE, 1x IPMI |
| Time synchronization | 1 configurable as either 1PPS, IRIG-B or PTP |
| Size | 1U 19-inch rack mount |
| Dimensions | Height: 43.2 mm (1.7")<br>Width: 439 mm (17.28")<br>Length: 712 mm (28.03") |
| Weight | 16.2 kg (35.7 lbs) |
| Power supply | Dual redundant 1100 W AC PSU or<br>Dual redundant 750 W 48 V DC PSU |
| Maximum power consumption | 600 W |
| Operating temperature | 10-35°C (50-95°F ) |
| Operating humidity | 8-90% non-condensing |
| Maximum heat load | 2047 BTU/hr |

## 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







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