LiveAction
A BlueCat Company

Capture and analyze packet data

Extend monitoring and troubleshooting to your most essential
network segments with scalable, real-time packet analysis

## Network visibility challenges in modern distributed environments

As networks expand from the data center to the WAN edge, remote sites, and the cloud, it becomes increasingly difficult
to maintain visibility across the entire network and quickly troubleshoot networked applications. Most enterprises use
a host of network monitoring tools to analyze operational data. But using multiple tools makes solving issues time-
consuming, impacting mean time to resolution (MTTR).

The solution: BlueCat LiveWire

BlueCat LiveWire is a high-performance packet analysis solution that captures
and stores detailed packet data for enhanced network and application
performance, as well as forensic insights. By deploying LiveWire physical or
virtual appliances in your most critical network segments—including data
centers, SD-WAN edges, the cloud, and remote sites—your network and
security operations teams have the data they need to ensure the performance
and security of your network.

LiveWire captures real-time packet data. When you need to examine packets
for deep forensic analysis, LiveWire offers an intuitive interface, advanced
visualizations, built-in workflows, a built-in expert system, and various types
of analysis and correlations. LiveWire is built to accelerate troubleshooting and
deliver the packet data and packet analysis you need for advanced network
forensics.

In addition, LiveWire delivers enriched packet data to BlueCat's LiveNX network performance management platform. This
approach makes it easy to transition from flow-level to forensic-level analysis and back—all on a single platform. LiveWire
converts packet data into rich flow data and automatically exports the data into LiveNX. With LiveNX and LiveWire, it's
easy to quickly identify and resolve application issues, such as VoIP and video performance problems, without the need for
deep forensic analysis.
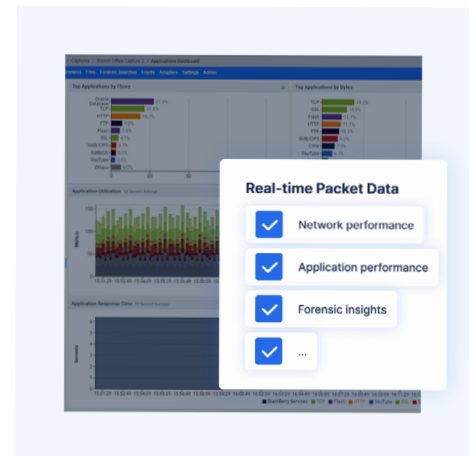
Key capabilities

✓ **Digital transformation**

An increase in machine-to-machine (east-west) traffic within data centers creates costly blind spots. LiveWire delivers:

- Granular insights to quickly detect and resolve issues across physical and virtual networks.
- Fast packet capture to identify issues from Layer 2-7 for apps, VoIP, and Wi-Fi.
- Intelligent capture that saves disk space by detecting encrypted traffic and slicing payloads.
- LiveFlow web analytics with key metrics (URL/URI, response times, and error response codes) for visibility—
  even in encrypted traffic.

✓ **Ongoing, end-to-end monitoring**

Application performance monitoring is critical for keeping your enterprise running smoothly; however, applications
are being virtualized and migrated to the cloud at an unprecedented rate. This creates blind spots, leaving IT
organizations dependent on flow logs and APIs for monitoring application performance. LiveWire helps you:

- Gain a holistic view of network and application events by converting packet data into rich flow-based data using telemetry. The data is automatically exported into LiveNX to quickly identify and resolve issues without the need for packet-level analysis.
- Eliminate the time wasted reproducing a problem: packets record exactly what happened.
- Go directly to packet data to see application and network errors in packet payloads.

✅ Enterprise-grade management

IT organizations struggle to find a cost-effective solution that provides visibility across large numbers of branches and remote locations. A solution is needed that can be widely distributed and easily managed, providing true end-to-end visibility. LiveWire offers:

- Centralized management of LiveWire devices via LiveWire Grid's web console.
- Scalable software that extends monitoring from data centers to branches and WAN edges.
- Unifed flow and packet capture at any network speed for fast issue resolution.
- Expandable packet storage: PowerCore supports 2+ PB raw and 6 + PB effective capacity.

✅ Security incident response

When it comes to security incident response, there's nothing more valuable than the packets themselves. You may have the finest intrusion prevention and detection and/or security event management solution available, but once you find the intrusion, what's next? You need a recording of the activity—the network packets—to determine both the fingerprint and extent of the breach. With LiveWire, you get:

- Network packets that reveal both the fingerprint and extent of breaches.
- Lossless, line-rate cpature with scalable hardware/software.
- Forensic searches on terabytes of data without disrupting storage.
- Long-term, scalable retention to meet compliance and protect integrity.

LiveWire Grid

LiveWire Grid is a software as a service (SaaS) solution that simplifies and scales the management and administration of LiveWire devices, no matter how many are deployed. With LiveWire Grid, you get:

- Centralized management for physical, virutal, or cloud devices.
- Simple installation and low total cost of ownership
- Single console for configuration and mass updates
- Single sign-on and improved user experience

Features

Network-wide visibility

Make the highest quality flow data available from anywhere on your network—especially your most critical segments—to increase visibility and decrease MTTR. Scalable packet flow data delivers detailed visibility from anywhere across the network, including data centers, the WAN edge, cloud, and remote sites.

Accelerate troubleshooting

Detailed troubleshooting requires detailed data. For network and application troubleshooting, the most detailed data available are the network packets themselves. Workflows and automation drive users to the root cause of network and application issues. The result is increased productivity and a reduced number of solutions (or screens) needed to solve problems.

Security and compliance

Standard security and compliance investigations require the most comprehensive data available—the network packets—to effectively investigate and report on issues, whether for routine reporting, a detailed investigation, or unequivocal proof.

Tuned for your specific needs

LiveWire offers physical, virtual, and cloud solutions, which IT teams can deploy to meet their network's specific needs. LiveWire physical appliances provide massive scalability and performance to support network operations for the most extensive networks, from branch offices to large data centers to the WAN edge. LiveWire virtual and cloud offerings scale with your needs and deliver the flexibility required in these networking environments.

For organizations with many branch locations, such as banking and retail, LiveAction offers the LiveWire Edge. The LiveWire Edge is a small form factor appliance with no moving parts that is simple to install and manage. It is perfect for organizations with an IT department that is already stretched thin.

LiveWire device	Edge	Core	PowerCore	StorageCore
Use cases	Remote offices, retail outlets, warehouses, bank branches, and more	Large branch or WAN edge	Data center	Data center
Network ports	4×1G and 1x pass-through	4×1G 2×10G 4×10G	4×10G 4×25G 2×40G 2×100G	4×10G 2×40G 2×100G
Raw storage	1 TB SSD	24 TB	240 TB	1.44 PB
Effective storage*	N/A	72 TB	720 TB	4.32 PB
Storage expansion - RAW	N/A	N/A	1 PB+; 240 TB increments	N/A
Dimensions and weight	8.5×5.7×1.7 in 2.6 lbs	1 U 48 lbs	2 U 80 lbs	4 RU 200 lbs

*Assumes a 3:1 data reduction through compression and/or intelligent slicing

BlueCat's Intelligent Network Operations (NetOps) solutions provide the analytics and intelligence needed to enable, optimize, and secure the network to achieve business goals. With an Intelligent NetOps suite, organizations can more easily change and modernize the network as business requirements demand.

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Next steps
Discover how LiveWire's packet analysis can help ensure the performance and security of your network.

Get in touch

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