



# Superior AI, Superior NetOps, it all starts with Superior Data

Without full fidelity curated observability data, AI can't deliver the speed, insight or scale that modern NetOps teams require.



By **Brendan O'Flaherty**, Chief Executive Officer

Today's enterprise networks are exponentially more complex. Hybrid architectures, distributed workloads, and AI-driven data centers have redefined what "performance" looks like. The volume, velocity, and variety of traffic have exploded—yet network operations and security teams are expected to maintain flawless uptime with lean staffing and legacy tools. That's a formula for failure.

At **cPacket**, we believe this is exactly where **AI** delivers real, immediate value—a layer of intelligence that empowers NetOps teams, protects uptime, boosts productivity, enhances security, and links network health directly to business performance. But AI doesn't work without a strong foundation. It starts with the data.

## Step 1: Start with the Most Accurate Data

cPacket has pioneered **AI-ready network observability data** by inspecting and capturing the most granular and accurate information available: **network packets**. Packets aren't summaries or interpretations, rather they are the immutable truth of the network, captured completely and accurately. cPacket then curates the billions of network packets and transforms that raw traffic into intelligent, trusted observability data which is the foundation for smart AI. Years ago, we recognized where the industry was heading and built for the future—not for the status quo. Our architecture was purpose-built: non-proprietary, performance-optimized, and focused on packet-level insight.

This foundation now enables **clean, complete, and context-rich data**—exactly what AI models need to produce accurate outcomes. As Salesforce CIO Juan Perez put it, "If you want quality, trusted AI, you need quality, trusted data." That's what cPacket delivers. Our commitment to packet-level truth ensures AI outputs you can really trust.

## Step 2: Train the Right Algorithms

Great data isn't enough. At cPacket, we've spent four years developing algorithms capable of scaling across **complex, globally distributed networks**—data centers, cloud, and colocation facilities. These models are built based on cPacket's practical experience with these large-scale network environments to ensure accuracy, speed, and resilience.

### Step 3: Enable the Human Experts

AI doesn't replace engineering – it empowers them. By filtering the noise and surfacing what matters, AI allows NOC engineers to spend their time as strategic problem solvers. It preserves senior-level expertise, captures tribal knowledge, and makes it accessible across the organization—turning AI into an intelligent **co-pilot** for every engineer.

### The Promise

The true power of AI lies in **amplifying human expertise**. Instead of sifting through trillions of packets with legacy tools, engineers focus on anomalies, predict problems before they happen, and continuously optimize systems. Organizations that adopt AI-enhanced NetOps first will gain a **clear business advantage**: better uptime, faster MTTR, more efficient teams, and better user experiences.

This post is part of a content series from cPacket on **AI and network observability**. We'll explore the tech, the use cases, and how customers are turning this into action. If you're looking to boost agility, lower costs, and give your team a real force multiplier—follow along.

Let cPacket show you the way. The AI-Enhanced NetOps era has arrived. Are you ready?



### About cPacket

cPacket delivers AI-enhanced, intelligent observability for the world's most demanding networks. As a pioneer in high-performance network analytics, cPacket provides real-time visibility and deep insights that empower IT and security teams to detect, diagnose, and resolve issues before they impact operations. Trusted in environments where performance is critical—from AI/ML clusters and financial trading platforms to hybrid and multi-cloud data centers—cPacket's integrated hardware and software solutions enable complete network transparency. Its portfolio includes AI-driven network insights, packet-based analytics, encrypted traffic visibility, scalable packet capture, and high-performance packet brokering—all managed through a unified, intuitive platform. By turning complex network data into actionable intelligence, cPacket helps organizations ensure reliability, reduce risk, and maximize digital performance at scale. Learn more at [cpacket.com](https://cpacket.com).