# The 3 P's of AI Network Observability and Security Monitoring: Why High-Quality Data Matters

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As the enterprise data center market continues to expand, driven by the adoption of AI-based applications and the transition to faster speeds from 100G to 400G, the need for robust network observability and security monitoring has never been more critical. With this increased complexity of modern networks, continuous analysis of Terabytes of network data culminating in specific, actionable insights requires trained AI-driven Network Observability and Security Monitoring solutions. But what's the key to unlocking the full potential of AI-driven network observability and security monitoring? **The answer lies in the quality of the data.**

## The Importance of Data

AI for observability and security is only as good as the data you feed it. While great data scientists are essential for developing AI algorithms, the quality of the data is what sets apart the winners from the losers. Without high-fidelity data, AI algorithms will spit out inaccurate insights, leading to misdiagnoses and longer mean time to resolve (MTTR). In the world of AI, the one with the best data wins.

## The 3 P's: Packets, Precision, and Performance

At cPacket, we believe that the foundation of any observability or security solution is reliable and accurate packet data. That's why we focus on delivering the best data possible, with:

**Packets:** Every packet counts. We inspect every single packet, ensuring that no data is lost.

**Precision:** Our time-stamping is accurate to the nanosecond, our burst monitoring has metric resolution to the millisecond, and our TCP analysis resolution is to the second. Delivering unparalleled precision.

**Performance:** Our solutions can handle even the most demanding networks, with speeds of up to 400 Gbps and highest density of storage of over 2 Petabytes within 8 RU. And when we say our Packet delivery systems have 1.6Tbps of capacity it is 1.6Tbps, it doesn't fall to 14% performance when using the "smart features", as other products do.

## The Benefits of cPacket's 3 P's in AI-driven Network Observability and Security Monitoring

With high-fidelity packet data, we can produce actionable insights, reducing MTTR and improving overall network efficiency. By leveraging AI-driven network observability and security monitoring, we can:

- Identify and remediate issues before they become critical (predictive maintenance)
- Improve network performance and availability
- Enhance security and reduce the risk of attacks
- Optimize enhance NetOps and SecOps team efficiency, network resources and reduce costs

## Conclusion

In the world of AI network observability and security monitoring, the one with the best data wins. At cPacket, we're committed to delivering the best data possible, with our 3 P's – Packets, Precision, and Performance. By leveraging our expertise in packet-driven network observability and security monitoring, we can help you achieve better insights, faster MTTR, and improved network efficiency.

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cPacket™

## About cPacket Networks

**cPacket Networks** de-risks IT I&O through network-aware service and security assurance across hybrid and multi-cloud environments. Our AIOps-ready Intelligent Observability Platform provides single-pane-of-glass analytics and deep network visibility required for complex IT environments enabling Fortune 500 organizations around the world to keep their business running. cPacket solutions are fully reliable, tightly integrated, and consistently simple. Our cutting-edge technology enables network, application, and security teams to proactively identify issues before negatively impacting the business. The result: increased service agility, enhanced experience assurance, and faster transactional velocity. Learn more at **cpacket.com**.

BL-053124