



Network Performance Monitoring & Diagnostics (NPMD)

Packet capture, packet analysis, and packet-level visibility that help IT teams quickly uncover the true source of network and application performance issues.



Teneo's Network Performance Monitoring & Diagnostics (NPMD) solution helps IT teams quickly uncover the true root cause of network and application performance issues through packet capture, packet analysis, and packet-level visibility.

Powered by Allegro Packets, Teneo's NPMD solution provides the operational evidence needed to move beyond alerts and assumptions, helping organizations reduce downtime, accelerate troubleshooting, and improve visibility across modern enterprise environments.

What is NPMD?

Network Performance Monitoring & Diagnostics (NPMD) is a packet-based approach to troubleshooting network and application performance.

Rather than relying solely on metrics, logs, and flow data, NPMD analyzes the actual traffic moving across the network to provide visibility into application behavior, user experience, VoIP quality, cloud communications, and network performance.

This allows IT teams to quickly understand what happened, where it happened, and why.

Why It Matters

Most organizations already have monitoring tools in place, but identifying the true source of performance issues remains a challenge.

As environments become more distributed and complex, IT teams often struggle with:



Slow Root Cause Analysis

Traditional network performance monitoring tools often show alerts without explaining exactly why performance issues are happening.



Lack of Packet-Level Visibility

Metrics, logs and flow data alone cannot always reveal the true source of latency, packet loss, jitter, or application degradation.



Intermittent Issues Disappear Before Investigation

Without historical packet analysis and packet replay capabilities, IT teams lose the evidence needed to troubleshoot past events.



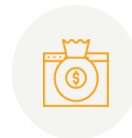
Limited Visibility Across Hybrid Environments

Many cloud-based network monitoring tools struggle to provide consistent visibility across cloud, on-premises, SaaS, and remote environments.



Finger-Pointing Between Teams

Networking, security, cloud, desktop, and application teams often rely on different tools and conflicting data sources.



Rising Downtime Costs

Application slowdowns, VoIP issues, and network outages impact productivity, customer experience, and revenue.

Without packet-level evidence, troubleshooting often becomes a process of elimination instead of direct validation.

How Teneo's NPMD Helps

Teneo's Network Performance Monitoring & Diagnostics (NPMD) solution helps organizations move from reactive troubleshooting to evidence-based operational visibility.

By analyzing live and historical network traffic, teams can:

- Accelerate root cause analysis
- Reduce mean time to resolution (MTTR)
- Improve application visibility
- Troubleshoot Microsoft Teams and VoIP issues faster
- Investigate intermittent performance problems
- Improve cloud and hybrid visibility
- Reduce operational guesswork
- Strengthen operational resilience

Instead of asking where the problem might be, teams can quickly identify where it actually is.

What NPMD Delivers



Full Packet Capture

Capture and retain network traffic for troubleshooting, compliance, and forensic investigations.



Real-Time Packet Analysis & AI-Assisted Troubleshooting

Monitor live traffic and application behavior with immediate operational visibility while leveraging built-in AI guidance to accelerate analysis and remediation recommendations.



Historical Packet Analysis & Packet Replay

Go back in time to investigate intermittent issues and replay historical traffic faster.



Deep Packet Inspection

Analyze Layer 2-7 traffic to uncover application, VoIP, TLS, and network performance issues.



Packet-Level Visibility

Unlike metrics or flow data, packets expose what other tools simply cannot see.



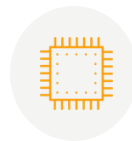
Rapid Root Cause Analysis

Quickly identify latency, packet loss, jitter, retransmissions, and performance bottlenecks across complex environments.



VoIP & Unified Communications Troubleshooting

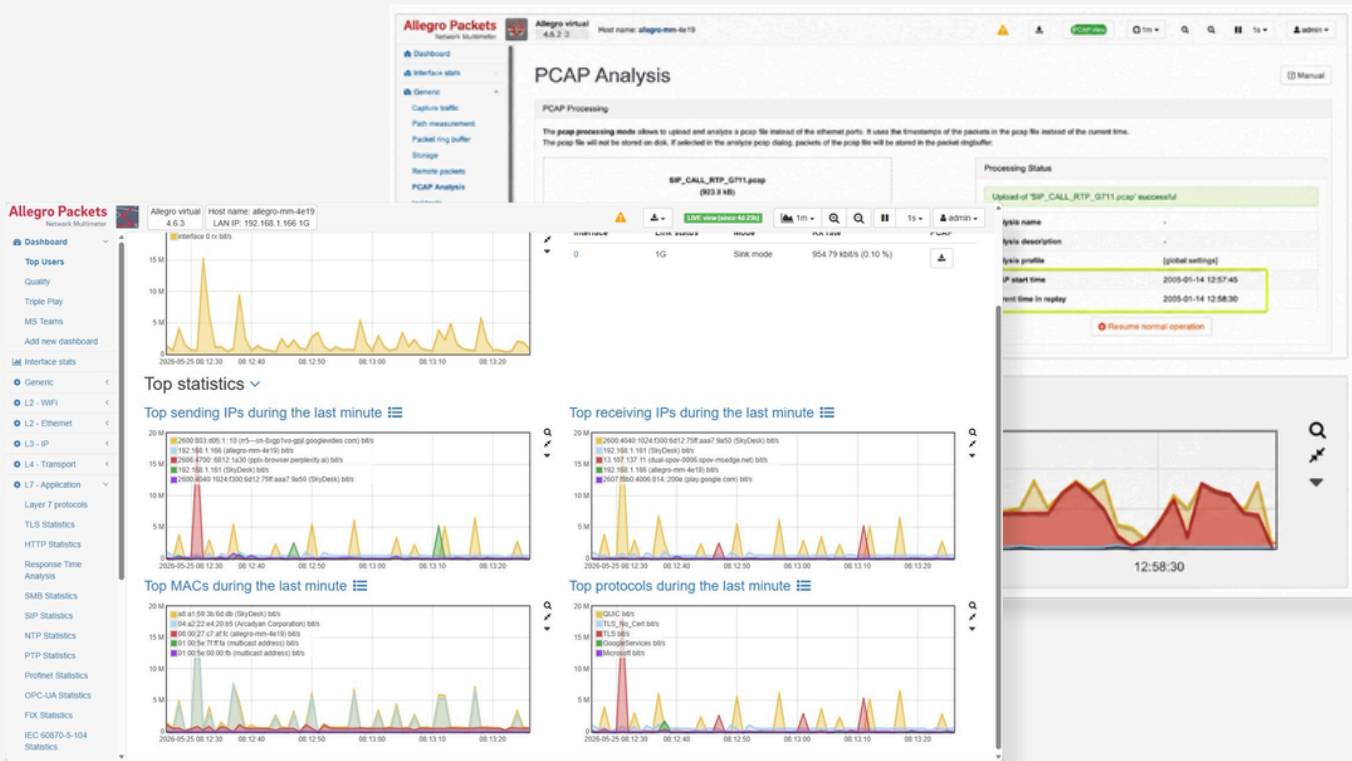
Troubleshoot Microsoft Teams, Zoom, Webex, SIP, and RTP performance issues faster.



Packet-Based Observability for AiOps

Provide the reliable packet-based analysis and operational insight needed to support AI-driven network operations, automation, and remediation workflows.

How It Works



Powered by Allegro Packets, Teneo's Network Performance Monitoring & Diagnostics solution continuously captures and analyzes network traffic across critical points in the environment, providing the packet-level evidence needed to accelerate troubleshooting and validate root cause.

By combining full packet capture, real-time packet analysis, historical packet analysis, and packet replay, IT teams gain visibility into how users, applications, cloud services, and devices communicate across the network.

This enables teams to:

- Detect performance issues faster
- Analyze live and historical traffic
- Investigate intermittent problems
- Validate root cause with confidence
- Accelerate remediation and resolution

Built on Allegro's high-speed in-memory architecture, the platform delivers rapid search, analysis, and investigation workflows, helping organizations reduce downtime and move from reactive troubleshooting to proactive operational visibility.

The Difference You'll See

Organizations that implement NPMD gain the packet-level visibility needed to troubleshoot faster and with greater confidence.

As a result, teams can:



Accelerate root cause analysis across complex network environments



Investigate intermittent issues with historical packet analysis and packet replay



Reduce downtime and improve operational resilience



Improve visibility across cloud, hybrid, and distributed environments



Gain packet-level visibility into application and network traffic



Eliminate troubleshooting guesswork with real-time packet analysis



Troubleshoot VoIP, Microsoft Teams, Zoom, and Webex performance issues faster

This is how modern IT teams move from reactive troubleshooting to proactive operational visibility.

Why Teneo? More Than Packet Visibility.

Teneo's Network Performance Monitoring & Diagnostics (NPMD) solution combines packet-based visibility technology with deep expertise across networking, observability, and operational transformation.

Our team helps organizations not only deploy Network Performance Monitoring & Diagnostics solutions, but operationalize them to improve troubleshooting, reduce downtime, and strengthen visibility across complex enterprise environments.

NPMD is also a foundational component of Teneo's broader StreamlineX framework, helping organizations strengthen network observability, improve operational resilience, and support future AiOps initiatives.

Ready to Get Started?

See what packet-level visibility can uncover across your environment. Teneo's NPMD solution helps IT teams move beyond alerts and assumptions to quickly identify the true source of network and application performance issues. To get started with Teneo NPMD, contact us to schedule a meeting today at info@teneo.net.



Purpose Beyond Profit

In working with Teneo, you are helping to improve the lives of a million children around the world. [Learn more](#)

About Teneo

Most Network and Security teams are overworked so making progress is a challenge. We securely connect users to their applications by combining leading technology with expert guidance. You stay in control, simplify your operations and keep ahead of the game.

Find out more at www.teneo.net.

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