

# AppLogic NETWORKS

## Enterprise Insights AI AppAnalyst



### KEY FEATURES

- Easy to use, natural language question and answer for your network data
- AI-powered insights with detailed GenAI explanatory responses
- Automated outlier detection investigation and explanation
- Inline instantiation from dashboard dimensions and values with full contextual analysis

### KEY BENEFITS

- Faster identification, investigation and resolution of network issues
- Increased NetOps team productivity
- Reduced trouble-tickets
- Ensures SLAs are maintained

### KEY CAPABILITIES

- Comprehensive AI-powered analysis of network metrics and conditions
- Easy to use natural language question and answer UI and user experience
- Generative AI "why" explanations based on analysis results
- Provides data results in table and graphical form, automatically choosing the best graphs and dimensions based on the results
- Background audit trails of the model's reasoning process so users understand the process and path taken
- Automated further analysis of data outliers to identify and further investigate potential issues
- Prompt suggestions for further user exploration based on results
- Maintains full context of the analysis within a Q&A session
- Easy inline instantiation of AI-powered contextual analysis from most Enterprise Insights dashboards and data objects

### AI-POWERED NETWORK ANALYSIS WITH AUTOMATED PROBLEM IDENTIFICATION, INVESTIGATION AND GENAI EXPLANATIONS

Modern, highly complex networks, network traffic, applications, and content are straining network resources and making it difficult to identify network issues, isolate sources and resolve problems. AI-powered network observability cuts through this complexity by automatically identifying issues and pinpointing why they are happening to allow NetOps teams to run their networks more effectively and efficiently to maximize application and user Quality of Experience (QoE).

#### KEY CAPABILITIES

AppLogic Network's AI AppAnalyst provides the industry's deepest and most automated introspection of network traffic and flow data to provide immediate, detailed analysis of and explanation for network issues. Powered by the most detailed set of network traffic and performance data, supplied by AppLogic, AI AppAnalyst take the data to an entirely new level by using AI models to identify and investigate potential network issues to separate the noise and pinpoint issues impacting performance. AI AppAnalyst with Enterprise Insights provides:

- AI-powered identification of network performance and QoE issues for faster problem isolation and resolution,
- Identification of outliers in the network metrics, analysis into these and detailed "why" explanations,
- Comprehensive AI-driven analysis and investigation across the many contextual dimensions supported by AppLogic Networks network observability solution, and
- Contextual instantiation of AI-driven analysis directly inline from Enterprise Insights dashboards for faster analysis.

AI AppAnalyst gives NetOps teams an AI partner to more effectively and efficiently operate their networks and deliver the highest network and applications QoE to their business teams.

#### HOW IT WORKS

AI AppAnalyst uses a sophisticated cloud-based LLM model and service to:

- Translate natural language questions to network metric queries on AppLogic Network's multidimensional network observability data model,
- Analyze resulting network metrics across the contextual dimensions to look for patterns and outliers in the data,
- Offer suggestive drill-downs to initiate deeper analysis and introspection into specific outliers that may represent network issues, and
- Use generative AI to provide detailed "why" explanations into the network performance and specific issues at hand.

AI AppAnalyst has its' own dashboard where users can ask questions ranging from the simple to highly complex via an easy to use question and answer UI. AI AppAnalyst also provides a detailed explanation of its' reasoning process so users can understand how it came to the conclusions it did and learn from this.

Users can also automatically instantiate a contextual AI AppAnalyst "session" directly from specific dashboards. Users simply click on any dimension or dimension value they want to investigate, an AI window pops up, an automated AI-powered investigation into that dimension and metric is performed, and a generative AI "why" answer is delivered.

This agile and automated detection and analysis can allow NetOps teams to identify, investigate and resolve problems faster than ever without having to move around between multiple dashboards and interpret various metrics.

AI AppAnalyst is highly complementary to AppLogic Network's deep set of data generated by AppLogic and the AppQoE scoring models and methodology, taking a similar approach to simplify visibility into an enterprise network.

Figure 1

AI AppAnalyst Flow Diagram

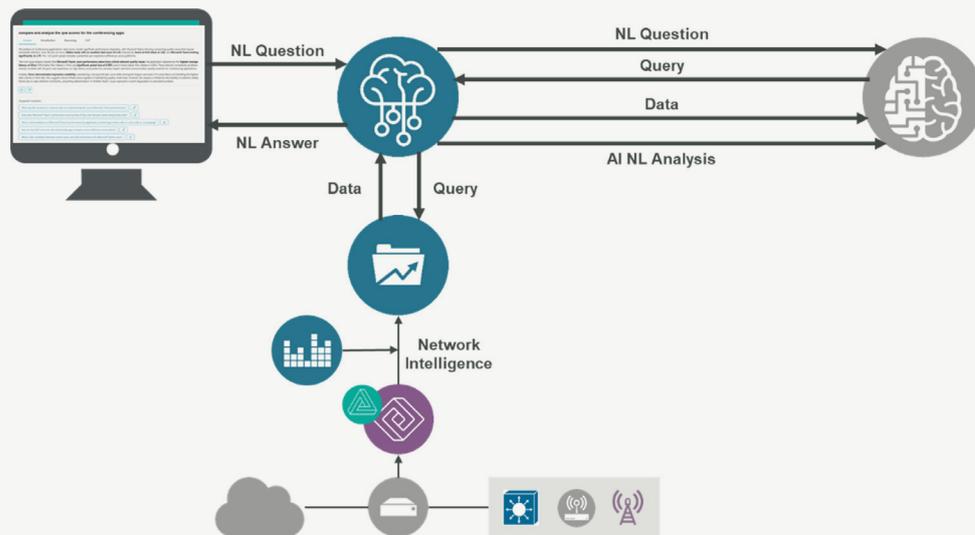


Figure 2

AI AppAnalyst Q&A

compare and analyze the qoe scores for the conferencing apps

Answer Visualization Reasoning CoT

The analysis of conferencing applications' QoE scores reveals significant performance disparities, with Microsoft Teams showing concerning quality issues that require immediate attention. Over the last 24 hours, **Webex leads with an excellent QoE score of 4.34**, followed by **Zoom at 4.04**, **Slack at 3.62**, and **Microsoft Teams trailing significantly at 2.79**. This 1.55-point spread indicates substantial user experience differences across platforms.

The root cause analysis reveals that **Microsoft Teams' poor performance stems from critical network quality issues**: the application experiences the **highest average latency at 63ms** (70% higher than Webex's 37ms) and **significant packet loss at 2.08%** (over 6 times higher than Webex's 0.34%). These network connectivity problems directly correlate with the poor user experience, as high latency and packet loss severely impact real-time communication quality essential for conferencing applications.

Notably, **Zoom demonstrates impressive scalability**, maintaining a strong 4.04 QoE score while serving the largest user base (170 subscribers) and handling the highest data volume (170.65 GB). This suggests robust infrastructure capable of maintaining quality under load. However, the analysis is limited by the inability to examine weekly trends due to data retention constraints, preventing determination of whether Teams' issues represent a recent degradation or persistent problem.



Suggested Questions:

What specific locations or network sites are experiencing the worst Microsoft Teams performance? [↗](#)

How does Microsoft Teams' performance vary by time of day over the past week using hourly data? [↗](#)

What is the breakdown of Microsoft Teams' performance by application content type (video calls vs. voice calls vs. messaging)? [↗](#)

How do the QoE scores for all conferencing apps compare across different service plans? [↗](#)

What is the correlation between device types and QoE performance for Microsoft Teams users? [↗](#)

Figure 3

AI AppAnalyst Q&amp;A

## What is the application usage pattern comparison between these suffering locations and high-performing locations?

Answer Visualization Reasoning CoT

The application usage pattern comparison reveals **dramatic disparities** between suffering and high-performing locations, exposing both critical infrastructure failures and distinct user behavior adaptations. The suffering locations (SV2-Quality and SV2-Finance) demonstrate a **business-focused usage pattern severely hampered by infrastructure limitations**, while high-performing locations support diverse entertainment and productivity applications with excellent quality.

### Key Performance Contrasts:

- **Volume disparity:** High-performing locations handle up to 163GB for single applications (BitTorrent) versus maximum 20GB in suffering locations
- **Latency crisis:** Suffering locations experience 3-10x higher latency (66-127ms vs. 7-37ms in high-performing areas)
- **Quality degradation:** Consistent poor QoE scores (0.42-2.0) in suffering locations versus excellent performance (4.0-4.76) elsewhere

### Application Category Patterns: Suffering locations show heavy reliance on:

- **Business applications:** Microsoft suite dominates with 19.97GB usage despite poor performance
- **Conferencing tools:** Microsoft Teams suffers severely (120.9ms latency, 6.07% packet loss)
- **Cloud services:** Amazon AWS shows critical connectivity issues (111ms latency, 3.4% packet loss)
- **Basic web browsing:** Users forced to rely on simpler services due to infrastructure limitations

### High-performing locations successfully support:

- **Gaming:** PlayStation delivers exceptional performance (118-122GB, 4.0+ QoE)
- **Entertainment:** Video streaming and social media operate smoothly
- **File sharing:** BitTorrent achieves 163GB volume with 4.2 QoE score

The temporal analysis confirms these are **persistent infrastructure problems, not capacity issues**, as performance doesn't correlate with usage intensity or peak hours.



### Suggested Questions:

How do service plans and subscriber types correlate with the poor performance in these suffering locations?

What specific network infrastructure components (gateways, access nodes, interfaces) serve the SV2-Quality and SV2-Finance locations?

How does device type and connectivity method impact application performance in these suffering locations?

What is the historical trend of application performance degradation at these locations over the past month?

## ABOUT APPLIC NETWORKS

AppLogic Networks' cloud-based App QoE portfolio helps customers deliver high quality, optimized experiences to consumers and enterprises. Customers use our solutions to analyze, optimize, and monetize application experiences using contextual machine learning-based insights and real-time actions. Market-leading classification of more than 95% of traffic across mobile and fixed networks by user, application, device, and location creates uniquely rich, real-time data that significantly enhances interactions between users and applications and drives revenues. For more information visit <https://www.applogicnetworks.com> or follow AppLogic Networks on X @AppLogic Networks.



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