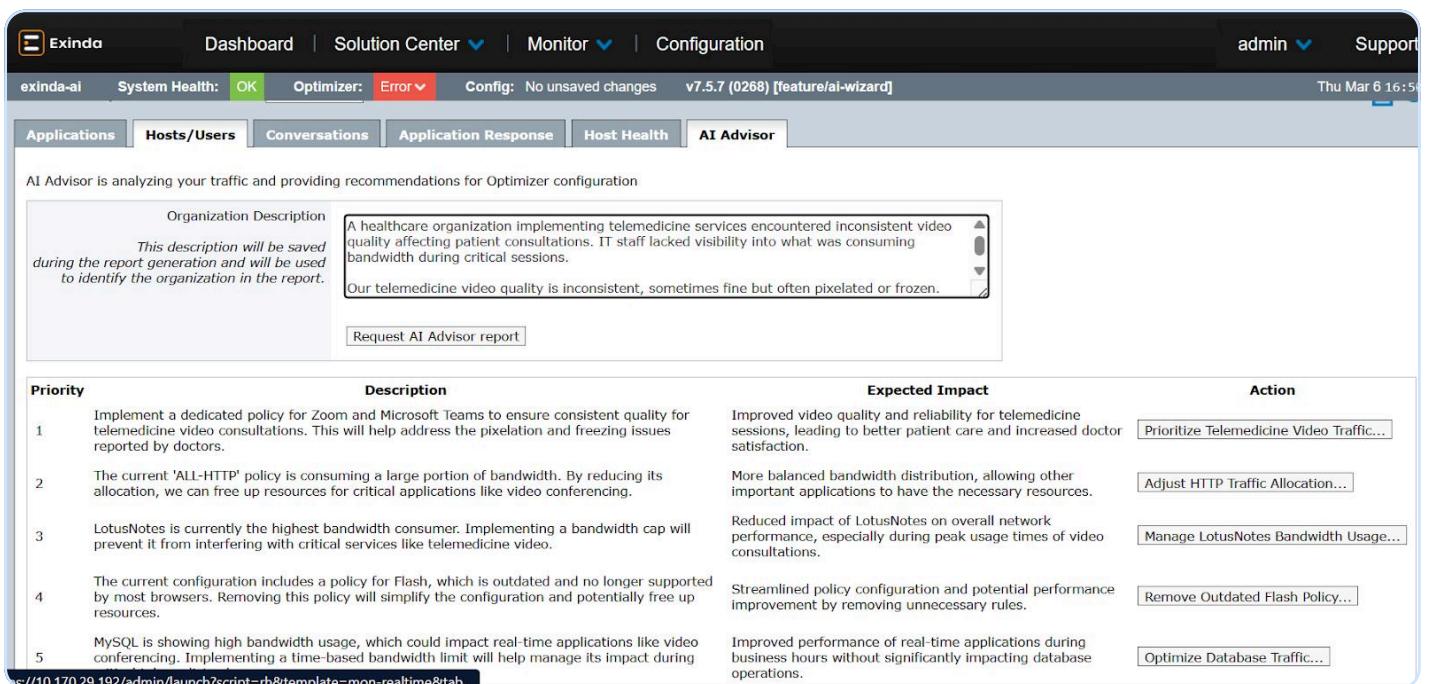


Practical Applications

GFI Exinda AI goes beyond theoretical benefits to deliver tangible results in everyday network management scenarios. This document explores practical applications that demonstrate how organizations can leverage GFI Exinda AI to solve common network challenges.



exinda-ai | System Health: OK | Optimizer: Error | Config: No unsaved changes | v7.5.7 (0268) [feature/ai-wizard] | Thu Mar 6 16:5...

Applications | Hosts/Users | Conversations | Application Response | Host Health | **AI Advisor**

AI Advisor is analyzing your traffic and providing recommendations for Optimizer configuration

Organization Description
This description will be saved during the report generation and will be used to identify the organization in the report.

A healthcare organization implementing telemedicine services encountered inconsistent video quality affecting patient consultations. IT staff lacked visibility into what was consuming bandwidth during critical sessions.
Our telemedicine video quality is inconsistent, sometimes fine but often pixelated or frozen.

[Request AI Advisor report](#)

| Priority | Description | Expected Impact | Action |
|----------|---|---|--|
| 1 | Implement a dedicated policy for Zoom and Microsoft Teams to ensure consistent quality for telemedicine video consultations. This will help address the pixelation and freezing issues reported by doctors. | Improved video quality and reliability for telemedicine sessions, leading to better patient care and increased doctor satisfaction. | Prioritize Telemedicine Video Traffic... |
| 2 | The current 'ALL-HTTP' policy is consuming a large portion of bandwidth. By reducing its allocation, we can free up resources for critical applications like video conferencing. | More balanced bandwidth distribution, allowing other important applications to have the necessary resources. | Adjust HTTP Traffic Allocation... |
| 3 | LotusNotes is currently the highest bandwidth consumer. Implementing a bandwidth cap will prevent it from interfering with critical services like telemedicine video. | Reduced impact of LotusNotes on overall network performance, especially during peak usage times of video consultations. | Manage LotusNotes Bandwidth Usage... |
| 4 | The current configuration includes a policy for Flash, which is outdated and no longer supported by most browsers. Removing this policy will simplify the configuration and potentially free up resources. | Streamlined policy configuration and potential performance improvement by removing unnecessary rules. | Remove Outdated Flash Policy... |
| 5 | MySQL is showing high bandwidth usage, which could impact real-time applications like video conferencing. Implementing a time-based bandwidth limit will help manage its impact during | Improved performance of real-time applications during business hours without significantly impacting database operations. | Optimize Database Traffic... |

Optimizer

Optimizer | Policies | Wizard | **AI Wizard**

Ask AI what you want to do with optimizer and apply configuration automatically

Example: **Set a 10% bandwidth restriction for "YouTube Go" traffic and apply it to all virtual circuits**

Note: Make sure that application exists before requesting

What do you want to do?

AI prompt: Create a new policy for 'Zoom' and 'Microsoft Teams' traffic, setting a guaranteed bandwidth of 30% and maximum bandwidth of 50% for these applications

[Request](#)

Scenario 1: Educational Institution During Online Testing

The Challenge:

Westminster Public Schools faced critical network congestion during standardized testing periods. When hundreds of students simultaneously accessed online testing platforms, the network prioritized first-come, first-served traffic, allowing bandwidth-intensive applications like social media and streaming to compete with essential testing traffic.

Admin Input to AI Adviser:

We're having problems with our online testing system. Performance drops when many students take tests at the same time, especially around 9-11 AM. Can you help me understand what's happening and improve test application performance?

AI Adviser Output:

| Priority | Description | Expected Impact | Action |
|----------|--|---|--|
| 1 | MySQL traffic shows high throughput, likely related to the online testing system. By creating a dedicated policy for MySQL, we can ensure the database has sufficient resources during peak testing times. | Improved responsiveness and stability of the online testing system, especially during high-traffic periods from 9-11 AM. | Optimize MySQL Performance for Online Testing... |
| 2 | HTTP traffic is consuming a significant portion of bandwidth. By slightly reducing its allocation, we can free up resources for other critical applications like the online testing system. | Better balance of network resources, allowing more bandwidth for essential services during peak testing times. | Adjust HTTP Traffic Allocation... |
| 3 | LotusNotes is consuming a large amount of bandwidth, which may be impacting the performance of other applications. By implementing a specific policy, we can control its resource usage. | Reduced impact of LotusNotes on overall network performance, potentially improving the online testing system's responsiveness. | Manage LotusNotes Bandwidth Usage... |
| 4 | To address the specific performance issues during peak testing times (9-11 AM), we'll create a time-based policy that gives higher priority and more bandwidth to MySQL and HTTP traffic during these hours. | Significantly improved performance of the online testing system during the critical 9-11 AM timeframe. | Implement Time-Based Prioritization for Testing Hours... |
| 5 | The current configuration includes a restrictive policy for Flash traffic, which is no longer a significant bandwidth consumer. Removing this policy will simplify the configuration and potentially free up resources for more critical applications. | Simplified network configuration and potential performance improvement for other applications by removing an unnecessary restriction. | Remove Outdated Flash Restriction... |

Actions Taken:

The administrator approves the recommendations with a single click, and GFI Exinda AI automatically created and applied the policies.

Result:

Testing experienced zero disruptions, even with hundreds of simultaneous sessions. While still allowing students limited social media access during non-testing periods.

Scenario 2: Financial Services Firm with VoIP Quality Issues

The Challenge:

FinancialForce experienced degraded call quality in their VoIP system despite having substantial bandwidth. Traditional monitoring showed adequate overall bandwidth, but users reported choppy audio and disconnections during peak hours.

Admin Input to AI Adviser:

"Our VoIP calls have poor quality even though our bandwidth monitoring shows we're only using 65% of capacity. Users complain about choppy audio and dropped calls, especially around 2-3 PM daily. What's causing this and how can we fix it?"

AI Adviser Output:

| Priority | Description | Expected Impact | Action |
|----------|---|---|---|
| 1 | The current configuration lacks a specific policy for VoIP traffic, which is likely causing the poor call quality. By creating a dedicated policy with guaranteed bandwidth and high priority, we can ensure that VoIP packets are given precedence over other traffic types. | Improved VoIP call quality, reduced choppy audio and dropped calls, especially during peak hours (2-3 PM). | Prioritize VoIP Traffic... |
| 2 | The current 'ALL-HTTP' policy allows up to 70% of bandwidth, which may be excessive and potentially interfering with other critical applications like VoIP. By reducing the maximum bandwidth and lowering its priority, we can better balance network resources. | More balanced network utilization, potentially freeing up resources for VoIP and other critical applications. | Optimize HTTP Traffic Management... |
| 3 | LotusNotes is currently the highest bandwidth consumer but lacks a specific policy. By creating a dedicated policy with guaranteed bandwidth, we can ensure smooth operation of this critical application while preventing it from overwhelming the network. | Improved performance of LotusNotes while preventing it from negatively impacting other applications, including VoIP. | Manage LotusNotes Traffic... |
| 4 | MySQL traffic is significant but currently unmanaged. Adding a specific policy will help ensure database operations have sufficient resources without impacting more critical applications like VoIP and LotusNotes. | Stable database performance while maintaining balanced network utilization for other applications. | Optimize Database Traffic... |
| 5 | The current configuration includes a policy for Flash traffic, which is no longer a significant bandwidth consumer. Removing this policy will simplify the configuration and potentially free up resources for more critical applications. | Simplified network configuration and potential performance improvement for other applications by removing an unnecessary restriction. | Remove Outdated Flash Policy... |

Actions Taken:

The administrator selected implementation for VoIP prioritization. GFI Exinda AI created the necessary configurations and validated their effectiveness.

Result:

Within 15 minutes of setting up Exinda, we started seeing the benefits. It was like turning on a light bulb. We suddenly had visibility into everything that was running on our network," reported Richard Hall from FinancialForce. VoIP Mean Opinion Score (MOS) improved from 3.2 to 4.5, and helpdesk tickets for call quality issues dropped by 95%.

Scenario 3: Manufacturing Company with Multi-Site Connectivity

The Challenge:

A manufacturing company with headquarters and multiple production facilities struggled with ERP system performance across locations. Engineers couldn't determine if issues stemmed from the application, network, or end-user devices.

Admin Input to AI Wizard:

"We need to understand why our ERP system is slow at our branch locations but works fine at headquarters. Create a report showing ERP performance by location and recommend ways to improve it."

AI Adviser Output:

| Priority | Description | Expected Impact | Action |
|----------|--|--|---|
| 1 | MySQL, likely used by your ERP system, is the third-highest consumer of inbound bandwidth. To improve ERP performance at branch locations, we recommend prioritizing MySQL traffic. | Improved ERP system responsiveness and consistency across all locations | Optimize ERP System Performance... |
| 2 | HTTP is the second-highest consumer of bandwidth. By slightly reducing its allocation, we can free up resources for other critical applications like your ERP system. | Better balance between web traffic and other essential services | Adjust HTTP Traffic Allocation... |
| 3 | LotusNotes is the highest consumer of inbound bandwidth. By creating a specific policy, we can ensure it doesn't overwhelm the network while still allowing sufficient resources for critical operations. | Improved overall network performance and resource allocation | Manage LotusNotes Traffic... |
| 4 | To understand why the ERP system is slower at branch locations, we need to compare MySQL traffic patterns between headquarters and branches. | Insights into potential causes of ERP performance discrepancies between locations | Analyze ERP Performance by Location... |
| 5 | The current configuration includes a policy for Flash traffic, which is no longer widely used. Removing this policy will simplify your configuration and potentially free up resources for more critical applications. | Streamlined configuration and potential performance improvement for other applications | Eliminate Outdated Flash Restriction... |

Actions Taken:

The administrator approved both the monitoring report and policy creation. The AI Wizard executed the commands.

Result:

Administrators gained a unified view of application performance across all locations, identifying a specific WAN link requiring upgrade while optimizing existing connections. ERP transaction times improved by 68% at branch locations, and the AI-driven approach reduced troubleshooting time from days to hours.

Scenario 4: Retail Shopping Mall with Tenant Bandwidth Management

The Challenge:

A shopping mall providing shared internet connectivity needed to fairly allocate bandwidth among multiple tenants while ensuring mall operations (security cameras, point-of-sale systems) maintained priority access.

Admin Input to AI Adviser:

We provide internet to 45 stores in our mall, but some tenants complain they don't get fair bandwidth. We also need to make sure our security cameras and payment systems always work.

AI Adviser Output:

| Priority | Description | Expected Impact | Action |
|----------|--|--|---|
| 1 | Implement a dedicated policy for security camera traffic to ensure consistent performance. This will help maintain mall security and prevent disruptions in surveillance. | Improved reliability of security systems and reduced risk of camera downtime | Prioritize Security Camera Traffic... |
| 2 | Establish a separate policy for payment system traffic to guarantee smooth transactions. This will help maintain consistent performance for all stores' payment processing. | Increased reliability of payment systems and improved customer satisfaction | Ensure Payment System Reliability... |
| 3 | Reduce the bandwidth allocation for HTTP traffic to allow for fairer distribution among other applications and tenants. This will help address complaints about unfair bandwidth distribution. | More equitable bandwidth distribution and improved overall tenant satisfaction | Adjust HTTP Traffic Allocation... |
| 4 | Implement a specific policy for LotusNotes, which is currently the highest bandwidth consumer. This will help manage its impact on overall network performance while ensuring adequate resources for this important application. | Improved LotusNotes performance and more balanced network utilization | Optimize LotusNotes Performance... |
| 5 | Set up individual virtual circuits for each store to ensure fair bandwidth distribution. This granular approach will allow for more precise control and monitoring of each tenant's network usage. | Fairer bandwidth distribution among stores and reduced tenant complaints | Implement Per-Store Bandwidth Allocation... |

Actions Taken:

The administrator reviewed and approved the implementation with minor adjustments to the tier percentages. GFI Exinda AI created the necessary virtual circuits and policies.

Result:

The mall maintained consistent service levels for all tenants while reducing overall bandwidth costs by 22%. Security system packet loss was eliminated, and point-of-sale transaction times decreased by 34%. Tenant satisfaction surveys showed a 45% improvement in internet service ratings.

Scenario 5: Maritime Vessel with Limited Satellite Connectivity

The Challenge:

Commercial vessels with expensive, limited satellite bandwidth struggled to balance crew welfare (personal communication, entertainment) with operational requirements (navigation updates, weather, cargo management).

Admin Input to AI Adviser:

"Our ships have very expensive satellite internet (2 Mbps) that needs to be shared between operations and crew. Operations must work, but crew morale needs the internet. How can we balance these needs with satellite costs?"

AI Adviser Output:

| Priority | Description | Expected Impact | Action |
|----------|---|---|--|
| 1 | LotusNotes is currently the highest bandwidth consumer. Implementing a 40% bandwidth restriction will ensure operational efficiency while freeing up bandwidth for other critical applications and crew internet usage. | Reduced LotusNotes bandwidth consumption, improved overall network performance, and better balance between operational and crew internet needs. | Optimize LotusNotes Bandwidth Usage... |
| 2 | HTTPS traffic is significant in both inbound and outbound directions. Creating a dedicated policy will ensure smooth operation of secure web applications, which are crucial for both operations and crew morale. | Improved performance of secure web applications, better user experience for both operational and recreational internet use. | Prioritize Secure Web Traffic... |
| 3 | HTTP is the second-highest bandwidth consumer. Reducing its allocation from 50-70% to 30-50% will help balance the network load while still ensuring adequate performance for web-based applications. | More equitable distribution of bandwidth, reduced impact of non-critical HTTP traffic on overall network performance. | Adjust HTTP Traffic Management... |
| 4 | SMTP is a significant bandwidth consumer. Creating a dedicated policy will ensure reliable email communication for operations while preventing it from overwhelming the limited satellite connection. | Consistent email performance without compromising other critical services or crew internet access. | Optimize Email Traffic... |
| 5 | The current configuration includes a policy for Flash traffic, which is no longer widely used. Removing this policy will simplify the configuration and potentially free up bandwidth for more relevant applications. | Streamlined configuration, potential improvement in overall network efficiency by reallocating bandwidth from an outdated application. | Eliminate Outdated Flash Policy... |

Actions Taken:

The fleet IT manager approved the recommendations and GFI Exinda AI implemented the policies across all vessels through central management. The simplified dashboard was deployed to ship officers with role-based permissions.

Result:

Vessels maintained 100% operational efficiency while improving crew satisfaction through fair allocation of limited connectivity resources. The AI system adapted to changing conditions (port vs. sea operations) without manual reconfiguration, and satellite costs decreased by 15% through more efficient bandwidth utilization.