Exinda AI
NetworkOrchestrator

Admin Guide

This document provides comprehensive administrative guidance for GFI Exinda AI, explaining how to leverage AI-powered network traffic analysis, implement natural language configuration commands, and optimize network performance through intelligent recommendations and one-click policy implementations.

Introduction to GFI Exinda AI

GFI Exinda AI is an integrated suite of intelligent features built into the GFI Exinda NetworkOrchestrator that transforms how you manage and optimize your network. Available from ExOS version 7.6 onwards, GFI Exinda AI simplifies complex network management tasks through natural language processing and intelligent analysis.

What GFI Exinda AI Provides:

Intelligent Traffic Analysis

of your network to identify optimization opportunities at a click.

Natural Language Configuration

Eliminates the need to memorize CLI syntax.

One-Click Optimization

Implements complex configurations with a single click.

Proactive Recommendations

Anticipates issues before they impact users.

Key Benefits

Benefit	Description
Simplified Management	Complex tasks become accessible to administrators of all skill levels.
Time Savings	Reduces configuration time from hours to minutes.
Reduced Errors	Natural language processing minimizes syntax errors.
Proactive Optimization	AI identifies issues before users notice them.
Data-Driven Decisions	Recommendations based on actual traffic patterns.

How GFI Exinda AI Works

GFI Exinda AI consists of two main components that work together:

→ **AI Advisor:** Analyzes your network traffic and provides prioritized recommendations.

→ **AI Wizard:** Converts natural language requests into precise CLI commands.

Important: GFI Exinda AI analyzes network traffic patterns and metadata without inspecting payload content, ensuring complete privacy and security compliance.

System Requirements and Installation

Prerequisites:

Before using GFI Exinda AI, ensure you have:

→ **Software:** Exinda OS (ExOS) version 7.6 or higher.

→ **License:** Valid Exinda license (AI features included at no extra cost), in case you don't have a valid license contact your trusted GFI partner.

Upgrading to ExOS 7.6

If your GFI Exinda appliance is running an older version, follow these steps:

1 Create a Backup

```
Dashboard > System > Backup
```

- Click "Create Backup" and save the configuration file

2 Download Latest Firmware

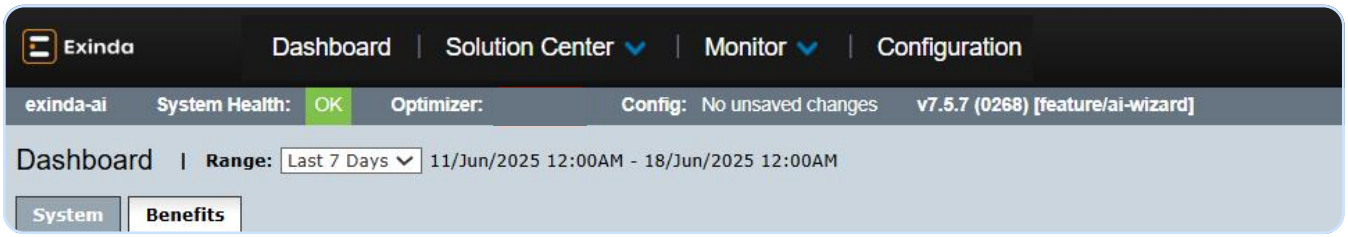
- Visit the GFI Exinda product releases page.
- Download ExOS 7.6 or newer for your appliance model.

3 Perform the Upgrade

```
Dashboard > System > Firmware
```

- Click "Choose File" and select the downloaded firmware.
- Click "Upload and Install".

4 Verify Installation



- After reboot, check the version in the top bar.
- Should display "v7.6.0" or higher.

> **Note:** Once upgraded to ExOS 7.6, Exinda AI features are automatically available. No additional configuration or activation is required.

Understanding GFI Exinda AI Components

AI Advisor

The AI Advisor is your intelligent network consultant that:

- Analyzes traffic patterns
- Identifies optimization opportunities
- Provides prioritized recommendations
- Offers simple-clicks implementation

AI Wizard

The AI Wizard is your natural language translator that:

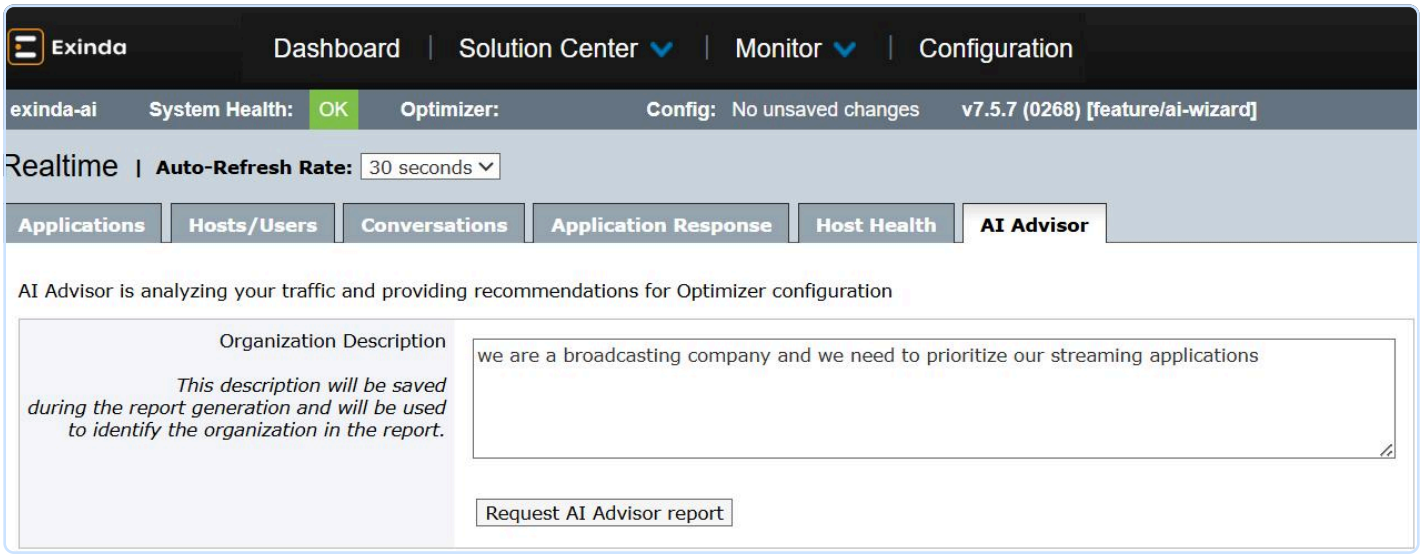
- Accepts configuration requests in plain English
- Converts requests into precise CLI commands
- Validates syntax before execution
- Allows editing before applying changes

How They Work Together

```
[Network Traffic] → [AI Advisor Analysis] → [Recommendations]
                                ↓
                    [Click Action] → [AI Wizard with Pre-filled Request]
                                ↓
                          [CLI Commands Generated]
                                ↓
                          [Apply Configuration]
```

Using AI Advisor - Step-by-Step Guide

The AI Advisor analyzes your network traffic and provides actionable recommendations for optimization.



1 Accessing AI Advisor

1. **Login** to your GFI Exinda web interface.
2. **Navigate** to the monitoring section:

```
Click "Monitor" dropdown → Click "Realtime"
```

3. **Select** the "AI Advisor" tab.
4. **Enable AI** by clicking the checkbox to enable the feature.

Navigation Path Visual Aid: Shows Monitor > Realtime > AI Advisor tab selection.

2 Providing Organization Context

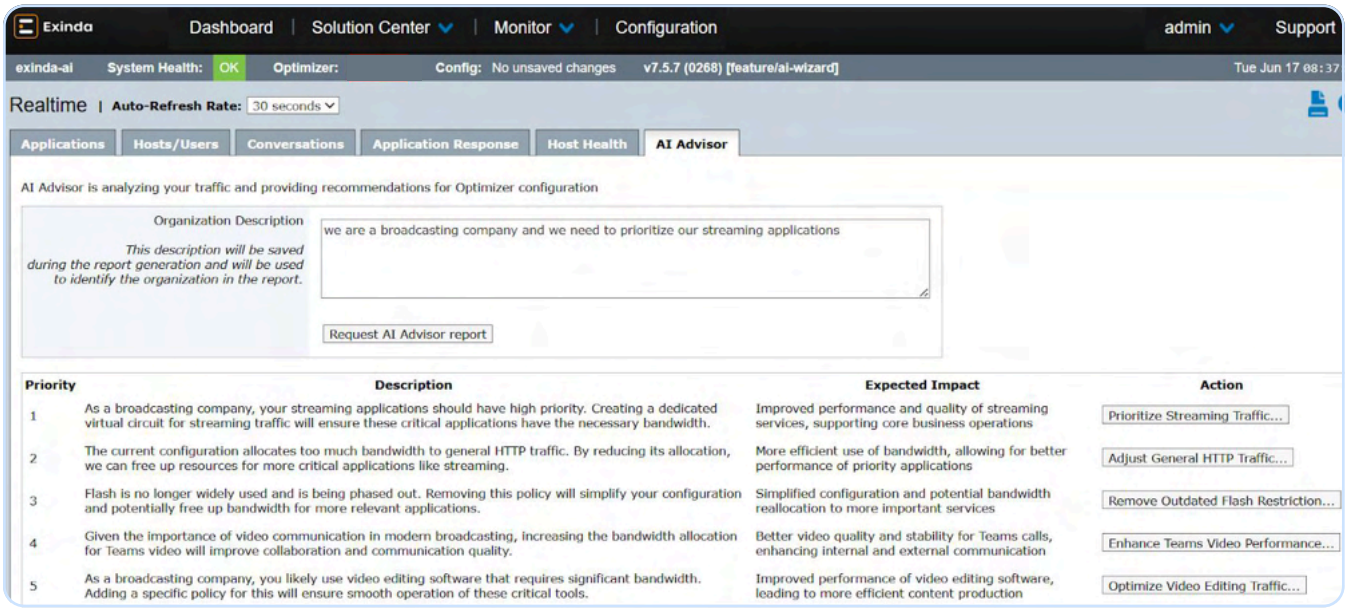
1. Enter your organization context in natural language. for example Organization type (e.g., "broadcasting company", "educational institution"), Key priorities (e.g., "prioritize streaming applications", "optimize video conferencing"), Current issues (e.g., "experiencing slowdowns during peak hours").

> **Example Input:**
>
> We are a broadcasting company and we need to prioritize our streaming applications.

2. Click "Request AI Advisor report".

> **Tip:** The more specific your description, the more targeted the recommendations will be.

3 Understanding AI Advisor Recommendations



After analysis (typically 10-30 seconds), you'll see a prioritized list with these columns:

Column	Description
Priority	1-5, with 1 being most critical
Description	Clear explanation of the issue or opportunity
Expected Impact	Anticipated benefits of implementing the recommendation
Action	Clickable button to implement the recommendation

Example Output:

Priority	Description	Expected Impact	Action
01	As a broadcasting company, your streaming applications should have dedicated resources. Creating a new virtual circuit for streaming will ensure these critical applications have guaranteed bandwidth.	Improved quality and reliability of streaming services, supporting core business operations.	Prioritize Streaming Traffic...

4 Implementing Recommendations

To implement a recommendation:

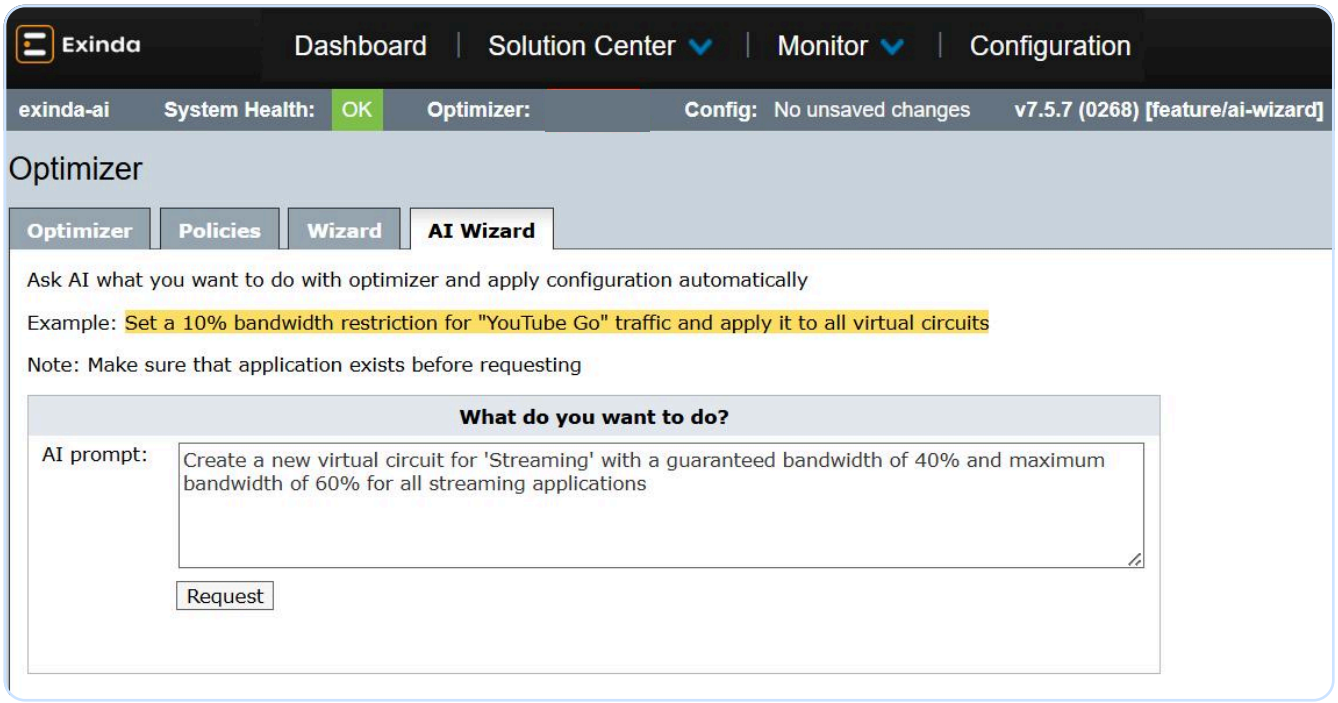
1. **Review** the description and expected impact.
2. **Click** the action button (e.g., "Prioritize Streaming Traffic...").
3. You'll be **automatically redirected** to the AI Wizard with the action pre-populated.
4. **Continue** with the AI Wizard process (see Section 6).

Using AI Wizard - Step-by-Step Guide

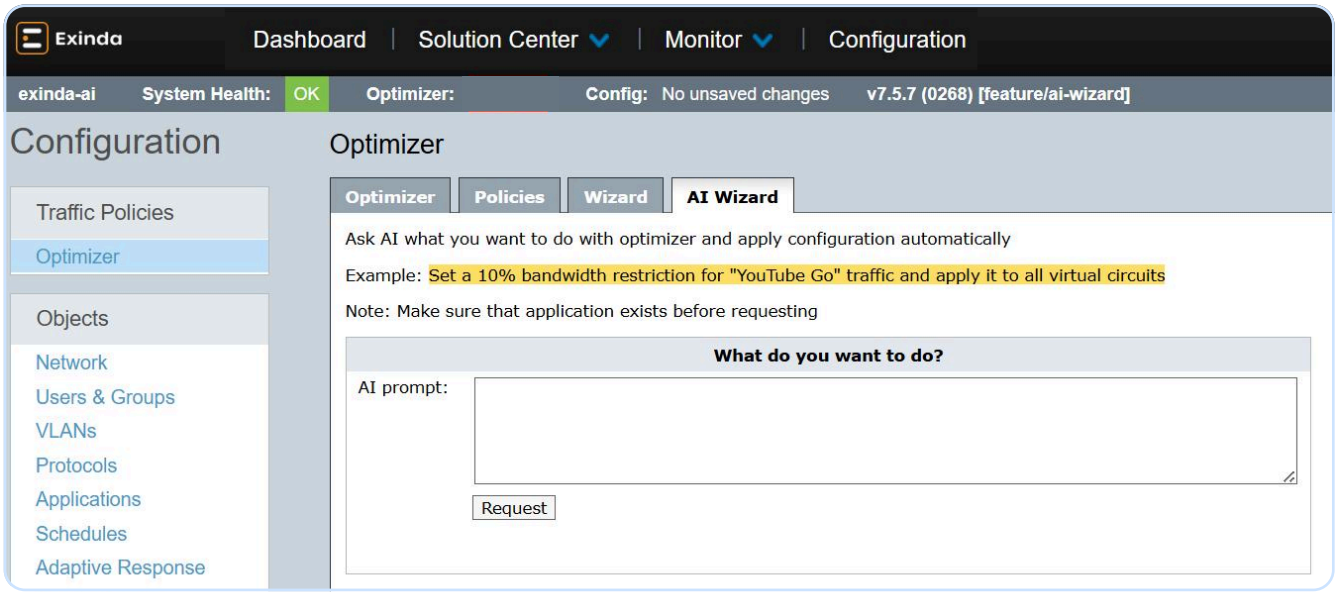
The AI Wizard converts your natural language requests into Exinda CLI commands. You can access it in two ways:

1 Method 1: From AI Advisor Recommendations

When you click an action button in AI Advisor, you'll be redirected to AI Wizard with the request pre-filled.



2 Method 2: Direct Access



1. Navigate to Configuration:

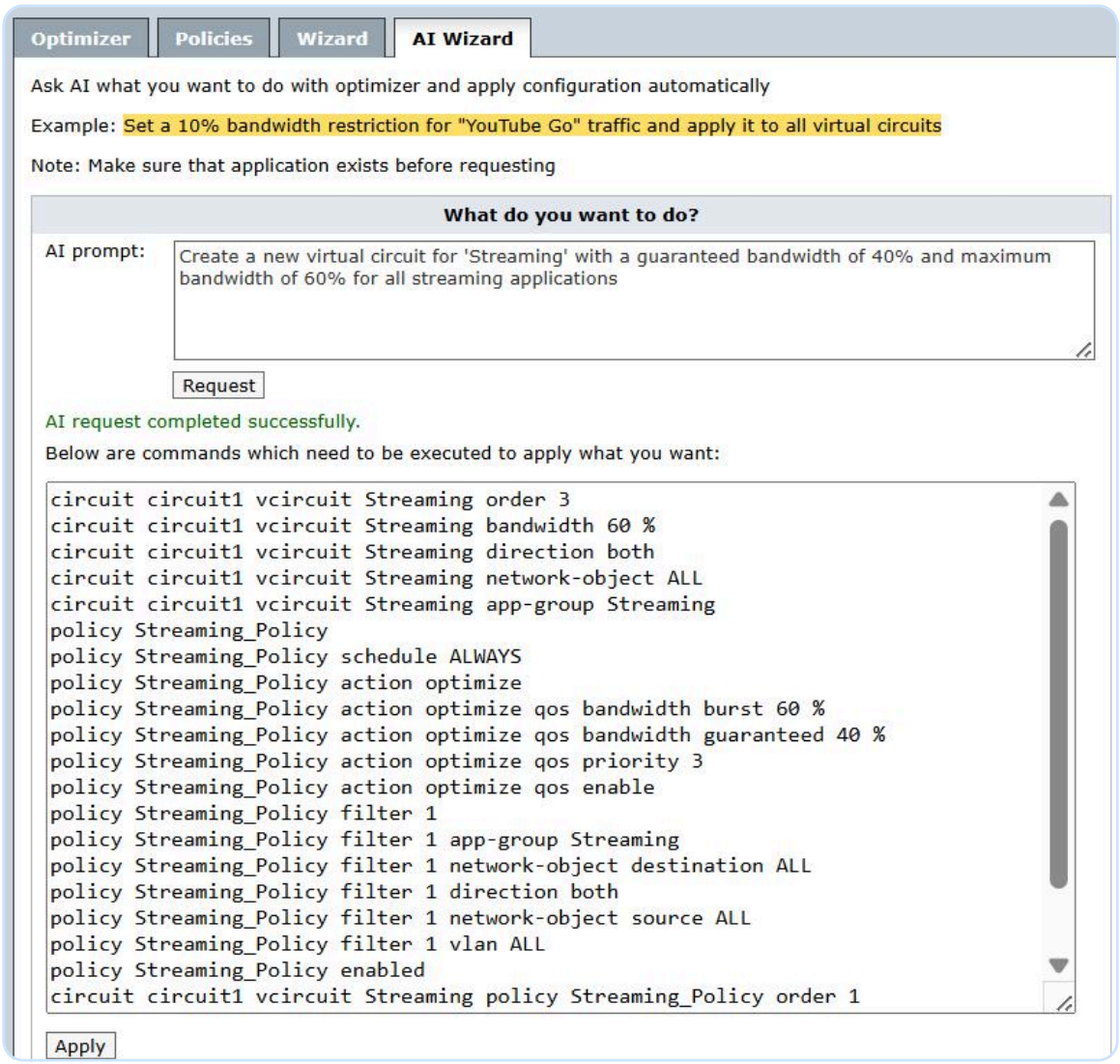
```
Click "Configuration" → Click "AI Wizard" tab
```

2. You'll see an **empty text box** for your request.

AI Wizard Access Visual Aid: Shows Configuration > AI Wizard tab.

3 Using AI Wizard

Whether accessed from AI Advisor or directly:



1. **Review or Enter** your request in the text box:
   - **If from AI Advisor:** The request is pre-filled but can be edited.
   - **If direct access:** Type your request in natural language.
2. Example Requests:

   Create a new virtual circuit named 'Streaming' and set a 40% guaranteed bandwidth allocation for streaming applications.

   Limit YouTube traffic to 10% of total bandwidth during business hours.

   Prioritize Microsoft Teams with minimum 5 Mbps per call.

3. Click “Request” button.

4 Reviewing Generated CLI Commands

After clicking Request:

1. **Success Message:** "AI request completed successfully"
2. **CLI Commands Display:** Shows all commands that will be executed

Example Generated Commands:

```
circuit circuit1 vcircuit Streaming order 3
circuit circuit1 vcircuit Streaming bandwidth 40 %
circuit circuit1 vcircuit Streaming direction both
circuit circuit1 vcircuit Streaming app-group Streaming
policy Streaming_Policy
policy Streaming_Policy schedule ALWAYS
policy Streaming_Policy action optimize
policy Streaming_Policy action optimize qos bandwidth guaranteed 40 %
…
write memory
```

5 Applying Configuration

1. Review the generated commands carefully.
2. Verify they match your intended configuration.
3. Click "**Apply**" button to execute the commands.

Caution: Always review commands before applying, especially in production environments. The AI is highly accurate but verification ensures the configuration matches your exact requirements.

6 Post-Application

After clicking Apply:

- Commands are executed on the GFI Exinda appliance.
- Virtual circuits and policies are created/modified.
- Optimizer restarts to apply changes.
- Configuration is saved to memory.

Practical Application Examples

Example 1 Optimizing Video Conferencing

Scenario:

Users complain about poor Microsoft Teams quality during peak hours.

Using AI Advisor:

1. Enter in Organization Description: We are a 500-person company heavily using Microsoft Teams for daily operations. Users report poor call quality between 9-11 AM and 2-4 PM.
2. AI Advisor recommends: "Microsoft Teams requires dedicated bandwidth during peak hours"
3. Click the action button.

In AI Wizard (pre-filled):

> Create a virtual circuit for Microsoft Teams with 25% guaranteed bandwidth and Priority 1 optimization during business hours (8 AM - 6 PM, Monday-Friday).

Result:

Team calls maintain quality even during network congestion.

Example 2 Managing Bandwidth Abuse

Scenario:

Recreational streaming consuming excessive bandwidth.

Direct AI Wizard Request:

> Limit all video streaming applications including YouTube, Netflix, and Twitch to maximum 15% bandwidth during work hours (9 AM - 5 PM, Monday-Friday) but allow up to 50% after hours and weekends.

Generated Policy:

Creates time-based policies with different limits for business and non-business hours.

Example 3 Multi-Site Branch Optimization

Scenario:

Branch offices need reliable access to cloud applications.

AI Advisor Context:

> We have 5 branch offices connecting to our main data center. Critical applications include Office 365, Salesforce, and our ERP system. Branch users complain about slow application response times.

AI Wizard Implementation:

Creates dedicated virtual circuits for each critical application with appropriate bandwidth guarantees and TCP acceleration.

Best Practices

Organization Description Best Practices

✓ Do's	⊘ Don'ts
Be specific about your business type	Use vague descriptions
Mention critical applications	Assume AI knows your priorities
Include user count and locations	Leave out network scale
Describe specific problems	Say "optimize everything"

AI Wizard Request Guidelines

Be Specific:

❌ "Make Teams better"

✅ "Guarantee 5 Mbps per Microsoft Teams video call with Priority 1"

Include Constraints:

❌ "Limit YouTube"

✅ "Limit YouTube to 10% bandwidth during business hours (9 AM - 5 PM)"

Use Recognizable Application Names:

❌ "Our video app"

✅ "Zoom" or "Microsoft Teams"

Implementation Strategy

1. Start with AI Advisor recommendations for data-driven decisions.
2. Test in non-production hours when possible.
3. Monitor impact after applying changes.
4. Document changes for future reference.
5. Regular reviews - Run AI Advisor regularly to catch new optimization opportunities.

Troubleshooting Common Issues

AI Advisor Issues

Problem	Possible Cause	Solution
No recommendations appear	Insufficient traffic data	Wait 24-48 hours for AI to collect baseline data
Generic recommendations	Vague organization description	Provide specific business context and priorities
Recommendations don't match needs	Outdated context	Update organization description with current priorities

AI Wizard Issues

Problem	Possible Cause	Solution
Application not found error	Application name not recognized	Use exact application name from GFI Exinda's library
Commands fail to apply	Conflicting existing policies	Review existing policies; remove conflicts
Request not understood	Complex or ambiguous phrasing	Simplify request; break into smaller steps

Conclusion

This guide provides comprehensive instructions for effectively using GFI Exinda AI to optimize your network performance. Remember that GFI Exinda AI is designed to simplify complex tasks - don't hesitate to experiment with natural language requests to discover its full capabilities.