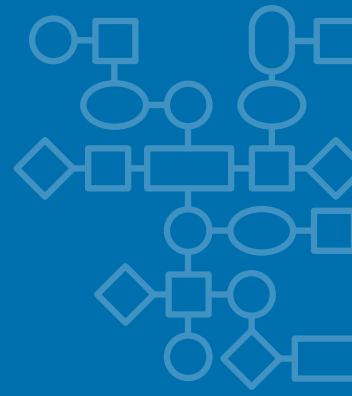


PRESIDIO®

THE NEW ERA OF ENTERPRISE NETWORKING:

How AI, Analytics, and Automation are Transforming IT Operations





Breaking Free from Legacy IT

You've inherited complexity. Your network is a tangled web of disparate systems that don't speak to each other, each with its own language and limitations. It's a relic of a different IT era, no longer able to keep up with your company's needs or the zooming speed of technological advancements.

Legacy systems are holding you back. They're slowing you down, hindering innovation, and increasing your operational costs. You have so much you want to accomplish, so much that your IT teams could do, if only you had the time or support, or a simplified, modernized network....

It doesn't have to be this way. Imagine a network that's not just a collection of devices, but a unified platform that seamlessly connects your entire enterprise. A network that's agile, scalable, and secure enough to support your most ambitious goals.

Modern networking solutions can help you break free from the constraints of the past and make the future possible.

Adapting to the Network Evolution: The Road to AIOps

What's happening and how can you stay ahead?

Today, IT teams are grappling with a perfect storm of challenges:



A lack of resources (time, talent, funding)



Escalating demands for new services, features, and capabilities



An increasingly complex technological landscape that's constantly changing

Simultaneously, the enterprise networking world is undergoing a seismic shift. **Advances in AI, assurance,** and **predictive analytics** are reshaping how networks are monitored, managed, and secured.



**ADVANCES
IN AI**



ASSURANCE



**PREDICTIVE
ANALYTICS**

Business leaders can no longer afford to rely on outdated network infrastructures and operational models.



What enterprise networks look like and what they need to do is changing. Business leaders can no longer afford to rely on outdated network infrastructures and operational models. To remain competitive and tackle the challenges in front of them, IT leaders must evolve their networks and practices to meet the demands of today's digital-first world and prepare for what lies ahead.

How can your network help you overcome challenges and innovate?

Emerging technology offers new opportunities and features that can help IT teams overcome hurdles. A modern, simplified, reliable network eliminates busy work and makes IT workers' lives easier, giving teams the time and space to innovate.

AIOps, or Artificial Intelligence for IT Operations, represents the next big thing in enterprise networking. IT leaders and CIOs are only beginning to scratch the surface of its potential.

AIOps is a transformative approach that leverages machine learning, big data analytics, and automation to streamline and optimize IT operations. Many see AIOps as the future, and are prioritizing fully adopting it in the years ahead.

But AIOps won't work if you don't have the right foundation. That foundation includes unified management, data visibility, network assurance, and integrated systems.

Step-by-step, you can prepare for AIOps and reshape your organization along the way. You may be wondering:

What exactly do those steps look like?

What are the best practices for modernizing your enterprise network?

How do you adopt new technologies?

How can you achieve unified management, overcome resource shortages, and leverage the power of AI and automation?

It takes a willingness to adapt, a clear understanding of trends and technologies, and expert guidance. **Your networking modernization journey — and the road to AIOps — begins here.**

Unified Management for Efficiency and Collaboration

If the AI tools can't see everything that's happening across your network, and can't access cross-departmental data, you lose out on all the benefits of AIOps. **Enter unified management, a key foundational piece of any network working towards AIOps adoption.**

Goodbye, departmental silos, unified management is here to improve networking performance and increase efficiency. Unified management is the centralized control and oversight of multiple IT systems and processes from a single platform. For many businesses, adopting a unified approach is a game-changer.

The Need and the Benefit

By consolidating management functions into a single platform, organizations can:

- ◆ Streamline operations
- ◆ Reduce errors
- ◆ Improve decision-making

The increasing complexity of IT environments means that networking and security teams need to work more closely together than ever before. Both departments require access to the same information to effectively identify, assess, and mitigate threats. Unified management makes this possible by providing a shared view of the network infrastructure.





69% of executives whose organizations practice workplace collaboration see stronger financial results.

How Can Businesses Achieve Unified Management?

Achieving unified management involves aligning teams, processes, and tools to operate as a cohesive unit.

Networking plays a pivotal role in unifying technology and teams through real-time visibility and shared tooling. By offering a comprehensive view of network performance, security posture, and application behavior, networking empowers teams to work together more efficiently. Shared tooling platforms provide a common ground for collaboration, enabling teams to share insights, automate tasks, and respond to incidents more effectively.

Components of a unified management network include:

-  Cloud-First delivered platform
-  Unified context: LAN, WAN, Wireless
-  Enriched with AI
-  Fabric integrated with Identity, Telemetry, and Cloud

Unified Management in Action

A global e-commerce company experiences a sudden spike in website traffic during a major sales event. With unified management, the network team can quickly identify network congestion, while the security team simultaneously detects unusual login attempts and potential security threats. By sharing this information through a unified platform, both teams can work together to optimize network performance, mitigate security risks, and ensure a seamless customer experience.

Boost Your Business

Ultimately, unified management and tooling are key to building a resilient, agile, and secure enterprise network. Plus, unified management improves collaboration, and collaboration boosts business performance. According to a study from IBM, 69% of executives whose organizations practice workplace collaboration see stronger financial results.

The Power of Network Assurance and Predictive Analytics

Network assurance goes hand in hand with unified management and is another fundamental building block in AIOps integration. Technology moves fast, data moves fast, cyber threats move fast, and customers move fast. Your business has to keep up, understand everything that's happening in real-time, and predict what might happen in the future.

Real-time visibility into network performance, coupled with the ability to predict and prevent issues, is no longer a luxury but a necessity. Network assurance, powered by advanced analytics and artificial intelligence, makes it all possible.

Network assurance requires the following key components to be effective:



Comprehensive Visibility: Gaining complete visibility into the network, from end-to-end, helps identify potential issues no matter their source. This includes visibility into devices, applications, users, and network traffic.



Proactive Probing: Continuously monitoring the network for anomalies and potential problems helps prevent outages. Proactive probing involves actively testing network components to identify performance bottlenecks, outages, or other issues.



Event Correlation: Event correlation helps identify patterns and dependencies between different network components, connecting related events to help IT teams understand the root cause of issues and troubleshoot effectively.



Integrated Identity: Understanding the identities of users and devices on the network is critical for security and troubleshooting. Integrated identity provides context for network behavior and helps identify unauthorized access.



IoT Visibility: As the number of IoT devices grows, ensuring visibility into these devices becomes more important to maintaining network performance and security. IoT visibility helps identify potential issues and threats related to IoT devices.



Validation of Intent/State: Comparing the desired network state (intent) with the actual network state ensures network performance and security. Validation of intent/state helps identify configuration errors and policy violations.

Networks enhanced with assurance offer unparalleled visibility and control.

By incorporating these components into a network assurance strategy, organizations can achieve real-time visibility, predict potential issues, and proactively address network challenges.

Real-time Visibility

Real-time visibility offers a comprehensive view of network health, enabling organizations to identify and address issues before they impact business operations. By collecting and analyzing data from various network components, businesses can gain insights into application performance, user experience, and potential bottlenecks.

Predictive Analytics

Predictive analytics takes real-time visibility a step further by leveraging historical data to forecast potential network issues. By identifying patterns and anomalies, organizations can proactively address problems before they escalate, minimizing downtime and improving service availability.

Benefits of Network Assurance

- ◆ **Improved decision-making:** Faster access to actionable data enables informed choices.
- ◆ **Enhanced operational efficiency:** Optimize network resources and reduce downtime.
- ◆ **Proactive issue resolution:** Identify and address potential problems before they occur.
- ◆ **Increased customer satisfaction:** Deliver a better user experience through reliable network performance.
- ◆ **Strengthened collaboration:** Break down silos between IT, operations, and business teams.
- ◆ **Cost reduction:** Optimize resource allocation and reduce operational expenses.
- ◆ **Risk mitigation:** Identify and address security threats more effectively.
- ◆ **Competitive advantage:** Gain a competitive edge through superior network performance and reliability.

Networks enhanced with assurance offer unparalleled visibility and control. After implementing them, businesses will see a tangible difference in performance, which will have a direct impact on the bottom line.

AIOps: The Next Must-have in Networking Operations

The complexity and scale of modern enterprise networks are pushing IT teams to their limits. Traditional network management tools are struggling to keep pace with the demands of today's digital business.

Once unified management, network assurance, and predictive analytics are in place, organizations can tackle these challenges through AIOps — the new era of network operations.

By harnessing the power of AI, AIOps tools can analyze vast amounts of data from network devices, applications, and infrastructure to identify patterns, anomalies, and potential issues. This enables IT teams to proactively address problems, reduce downtime, and improve overall network performance.

81% of enterprises using AIOps have reported a positive return on investment.

AIOps Use Cases

Here are just a few examples of what AIOps can do:

Predictive network optimization:

- ◆ Identify and mitigate potential network bottlenecks.
- ◆ Proactively allocate resources based on traffic patterns.

Incident prevention and resolution:

- ◆ Detect anomalies in network behavior to predict potential outages.
- ◆ Automatically initiate troubleshooting steps to resolve issues.

Root cause analysis:

- ◆ Correlate data from multiple sources to quickly identify the root cause of network problems.

Wireless network optimization:

- ◆ Identify and mitigate interference sources, such as microwaves.
- ◆ Optimize channel utilization for improved Wi-Fi performance.

Network performance monitoring:

- ◆ Continuously monitor network health and performance metrics.
- ◆ Identify performance degradation and take corrective actions.

IT support automation:

- ◆ Use chatbots to provide initial support and troubleshooting guidance.
- ◆ Automate routine IT tasks, such as password resets and software installations.

Cost optimization:

- ◆ Forecast future network capacity requirements based on historical data and trends.

Security incident detection and response:

- ◆ Identify suspicious network activity and trigger automated responses.

Are AIOps investments worth it?

Yes. A survey by Enterprise Management Associates revealed that 81% of enterprises using AIOps have reported a positive return on investment. 42% of these organizations assert that the benefits of AIOps “dramatically” exceed the costs.

AIOps is the future, and the path to adopting is filled with benefits that will radically enhance your business. **Why wait?**

10 Ways to Integrate New Technologies and Modernize Your Network

With an optimized network, everyone in the company — from the boots-on-the-ground IT engineer to CIOs — can be more responsive to the business's needs. This fuels growth. This helps you crush your goals.



Wondering where to start? **Integrating AIOps, network assurance, and unified management requires strategic planning and business-wide buy-in.** Once top executives and IT leaders are on board, here are key considerations that will help you modernize your network:

1. **Data Consolidation:** Gather and standardize data from various network and IT systems to create a single source of truth.
2. **Identify Key Use Cases:** Determine where to focus your initial efforts, such as incident management or performance optimization.
3. **Pilot Implementation:** Start with a small-scale project to test the technology and build internal expertise.
4. **Skill Development:** Invest in training your IT team in Automation, AI, machine learning, and network management.
5. **Vendor Selection:** Choose tools that integrate seamlessly and offer the desired functionalities.
6. **Change Management:** Implement effective change management strategies to ensure smooth adoption.
7. **Continuous Improvement:** Regularly evaluate the performance of your tools and make necessary adjustments.
8. **Collaboration:** Foster collaboration between IT teams to maximize the benefits of unified management.
9. **Security Integration:** Ensure that security is a core component of your integrated solution.
10. **Measurement and ROI:** Establish key performance indicators (KPIs) to measure the impact of your investment.

Want to Learn More About Modernizing Your Approach to Enterprise Networking?

Technology will continue to evolve rapidly. Demands on IT departments show no signs of slowing. You need an enterprise network that supports strapped teams while helping you stay ahead.

By implementing unified management, network assurance, and AIOps, businesses can streamline operations, enhance performance, and deliver exceptional customer experiences.

Break free from the complexity of your legacy systems today.

Ready to get started? [Connect with a member of our team.](#)

WHY PRESIDIO

At Presidio, speed and quality meet technology and innovation. Presidio is a trusted ally for organizations across industries with a decades-long history of building traditional IT foundations and deep expertise in automation, security, networking, digital transformation, and cloud computing. Presidio fills gaps, removes hurdles, optimizes costs, and reduces risk. Presidio's expert technical team develops custom applications, provides managed services, enables actionable data insights and builds forward-thinking solutions that drive strategic outcomes for customers globally.

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