

5 Game-Changing Benefits of Network Infrastructure as-a-Service

for Modern Enterprises



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Executive Summary

Traditional networking approaches are struggling to meet the speed, scale, and agility demands driven by AI workloads, cloud applications, and remote work. As enterprises increasingly adopt multi-cloud strategies and distributed work models, the complexity of managing disparate networking solutions across multiple environments has become a significant operational burden.

Network Infrastructure-as-a-Service (NlaaS) represents a transformative approach that delivers on-demand, globally interconnected network infrastructure without the traditional overhead of managing physical hardware, complex configurations, or platform-specific expertise. Based on comprehensive research with enterprise customers, **five compelling benefits** emerge for why organizations should prioritize NlaaS adoption.

Networking Shouldn't Be the Bottleneck in your Digital Transformation



The Alkira Platform delivers Network Infrastructure On-Demand through a global backbone of Cloud Exchange Points that connect any enterprise resource to any destination (remote sites, users, data centers, business partners, and public cloud environments). This unified architecture provides a single network fabric, eliminating the complexity of managing multiple point solutions.



BENEFIT
#1

Substantial Cost Savings

The Challenge

Traditional networking requires significant upfront capital investments in hardware, lengthy procurement cycles, and over-provisioning to accommodate uncertain future growth. Organizations often spend millions before a single packet flows through their network, with typical cloud connectivity stacks costing \$1.5-2M worth of routers, switches, and firewalls.

The NlaaS Solution

Network Infrastructure-as-a-Service eliminates capital expenditures through a cloud consumption model. Research shows that enterprises achieve:

- **40% lower total cost** compared to traditional approaches
- **73% fewer firewalls** required for cloud connectivity
- **44% fewer network and security devices** overall
- **Zero CAPEX** hardware investments with pay-as-you-go flexibility

Organizations can scale networking resources up or down based on actual demand rather than purchasing excess capacity for peak scenarios. This shift from capital expense to operational expense allows enterprises to invest saved resources in core business initiatives while paying only for the network capacity they actually use.

Data source: [Nemertes Alkira Real Economic Value report, 2024](#)



BENEFIT
#2

Dramatically Improved Efficiency

The Challenge

Managing multi-cloud networking traditionally requires specialized expertise for each platform—AWS, Azure, Google Cloud, and Oracle Cloud each have different networking constructs and management approaches. This forces organizations to either hire multiple specialists or accept operational inefficiencies and increased downtime risks.

The NlaaS Solution

NlaaS abstracts away platform-specific complexities, providing a unified interface across all environments. Enterprise customers report remarkable efficiency gains:

- **84% less staff time** required to add new cloud environments
- **47% fewer FTEs** needed to manage cloud networks
- **63% avoided new hires** specifically for cloud networking (average of 4.8 positions)
- **80% less staff time** needed to deploy security services

By eliminating the need for deep cloud-specific expertise, existing network teams can manage the entire infrastructure through a single, consistent interface. This allows organizations to redeploy technical talent to higher-value initiatives rather than managing configuration minutiae across multiple platforms.

Data source: [Nemertes Alkira Real Economic Value report, 2024](#)



BENEFIT
#3

Unprecedented Agility

The Challenge

Traditional network provisioning involves lengthy hardware procurement cycles, manual configurations, and extensive testing—often taking weeks or months to establish connectivity to new environments. In the cloud era, where compute and storage can be deployed in minutes, networking has become the bottleneck for digital transformation initiatives.

The NlaaS Solution

NlaaS enables network-at-the-speed-of-cloud provisioning. Organizations experience transformative improvements in deployment speed:

- **96% less time** to add new cloud environments (from 26 days to less than 1 day)
- **93% less time** to deploy new security services
- **91% less time** to add new extranet partners
- **98% less time** to connect partners

This agility transformation means that networking no longer constrains business initiatives. New cloud regions, applications, security services, and partner connections can be established in hours rather than months, enabling organizations to respond rapidly to market opportunities and business requirements.

Data source: [Nemertes Alkira Real Economic Value report, 2024](#)



BENEFIT #4

Enhanced Operational Control

The Challenge

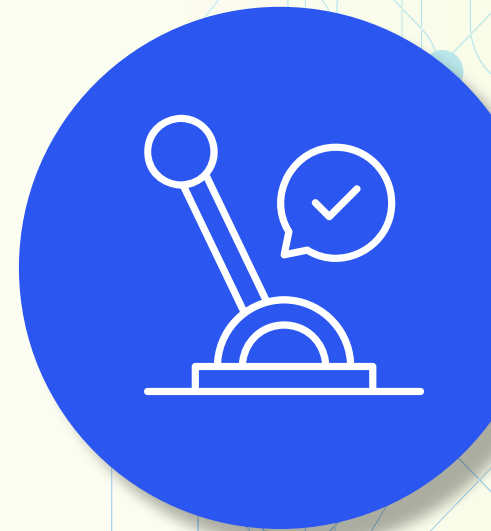
Multi-cloud environments create operational silos where each platform requires different management approaches, making it difficult to enforce consistent security policies and maintain unified governance. Organizations struggle with overlapping IP ranges, inconsistent configurations, and the inability to apply uniform security controls across all environments.

The NlaaS Solution

NlaaS provides centralized control and governance across all network environments while maintaining the flexibility of distributed cloud resources. Key control benefits include:

- **Uniform security policy enforcement** across all cloud and on-premises environments
- **End-to-end network segmentation** with micro-segmentation capabilities
- **Intent-based policies** that automatically configure underlying infrastructure
- **Automated governance** that prevents common misconfigurations like overlapping IP range

Organizations gain the ability to “own and operate their networks” while leaving infrastructure management to the NlaaS provider. This separation allows IT teams to focus on business-aligned network policies and service delivery rather than low-level configuration management.



BENEFIT #5

Comprehensive Visibility and Governance

The Challenge

Traditional multi-cloud networking creates visibility blind spots where each platform provides different monitoring capabilities, making it nearly impossible to gain holistic insights into network performance, costs, and security posture. Organizations often discover hidden costs and inefficiencies only after they've compounded over time.

The NlaaS Solution

NlaaS provides unprecedented visibility across the entire network ecosystem through a single dashboard. Organizations achieve:

- **Complete day-2 operational visibility** including top talkers, applications, network utilization, and health metrics
- **Unified cost transparency** with detailed spending visibility across all network services and regions
- **Chargeback and showback capabilities** to allocate costs to internal consumers and business lines
- **Historical and real-time analytics** for traffic patterns, anomaly detection, and capacity planning

This comprehensive visibility enables data-driven decision making for network optimization, cost management, and capacity planning. IT leaders can finally answer questions about true network costs and performance across their entire multi-cloud environment.





Conclusion

Network Infrastructure-as-a-Service represents more than an operational improvement—it's a strategic enabler for digital transformation. Organizations that embrace NlaaS position themselves to:

- **Reduce operational overhead** while improving network capabilities
- **Accelerate time-to-market** for new initiatives and services
- **Scale efficiently** without traditional infrastructure constraints
- **Maintain security and governance** across complex multi-cloud environments
- **Make data-driven decisions** with comprehensive network visibility

As enterprises continue to embrace cloud-first strategies and distributed work models, the question isn't whether to adopt Network Infrastructure-as-a-Service, but rather how quickly organizations can realize these transformative benefits.

The evidence is clear: NlaaS delivers measurable improvements in cost, efficiency, agility, control, and visibility—making it an essential component of modern enterprise IT strategy.

For more information about how Network Infrastructure-as-a-Service can transform your organization's networking approach, consider evaluating solutions that provide true end-to-end network infrastructure delivered as a service.

