

Deliver Core Network Services to the Distributed Edge with Cloud-Managed DDI

Build resilience and accelerate digital transformation with cloud-delivered DNS, DHCP, and IPAM for distributed enterprises

SOLUTION BRIEF

NS1.

Enterprise employees, customers, and applications are becoming increasingly dispersed. They now connect to the network from distributed locations through a growing footprint of connected devices, such as mobile devices, kiosks, POS systems, IOT/OT, smart medical devices, and more. They demand network services close to the source, at the edge.

To meet these needs, application architectures have grown increasingly complex, and deployment surfaces have changed. At the same time, IT management paradigms are shifting from being largely dependent on centralized expertise to models that balance central authority with local autonomy.

The complexity of modern network and application infrastructures, coupled with the need for scale, agility and growth that today's business requires, are driving the need for automation and improving operational efficiency.

Why You Need a Cloud-First Approach to DDI

On-premises core network services haven't and can't keep up with new technology paradigms like cloud computing, microservices architectures, IOT/OT, new operating models like DevOps, NetOps, and new cloud-centric commercial models.

77% of executives state that their technology architecture is becoming critical to the overall success of their organization

- Accenture [\(source\)](#)

They're unable to provide the flexibility for local compute and autonomy, with centralized control at the distributed edge, that modern network configurations require.

Legacy network service infrastructures pose barriers to innovation:

- Infrastructure barriers posed by rigid deployment requirements, maintenance overhead, lack of centralized visibility and lack of scalability and programmability.
- Data barriers posed by lack of integrations, decisioning and visibility.
- Connectivity barriers posed by lack of global intelligence, automation and extensibility

Modern networks need cloud managed core network services to overcome the barriers that legacy systems can't. Modern core network services should:

- Be deployed, managed and dynamically scaled wherever the services are needed, from the edge to the cloud
- Provide fast, secure, resilient and automated connectivity across multiple deployment surfaces, locations and devices
- Be data-driven, intelligent and adaptive to reliably and optimally deliver applications anytime, anywhere
- Be centrally managed across dispersed, heterogeneous environments

NS1 Cloud-Managed DDI Builds Network Resilience and Accelerates Digital Transformation

We provide the only internet-scale, cloud-native DDI solution that delivers modern DNS and DHCP anywhere, with centralized IPAM in the cloud; from the edge to the core.

Cloud-Managed DDI reduces the complexity of delivering core network services for highly distributed enterprises while providing secure, reliable services at the enterprise or cloud edge, all managed from a cloud-based portal.

Key Features and Benefits

Securely and reliably deliver network services and applications across distributed enterprise environments with:



Software-First
Approach



Zero Touch
Provisioning



Fleet
Management



Automated
Workflows



Local
Survivability

What Can You Achieve with Cloud-Managed DDI?

Deploy Core Network Services in Seconds - From the Edge to the Cloud

Connect devices and deliver applications at any number of locations across distributed, hybrid network environments through our unified platform, NS1 Connect.

Minimize Downtime and Improve Network Resilience

Distributed locations can operate independently even if connectivity to central service hubs is disrupted.

Simplify NetOps and DevOps with Flexible Deployments and Automation

DevOps and NetOps teams gain the automation and integrations they need to operate in an agile manner and incorporate "infrastructure as code" into their CI/CD pipelines.

Connect and Protect Enterprise Networks with Cisco and NS1

The combination of NS1 and Cisco provides a modern platform for high performance application delivery across the enterprise, with security that seals off the communication pathways that attackers rely on.



Cisco Umbrella

Enhance network visibility and control with Cloud-Managed DDI and Cisco Umbrella by enabling effective DNS security inside and outside the firewall.

Catalyst 9300 and 9400 Edge Networking Solutions

Deploy DNS, DHCP, and IPAM (DDI) at the distributed edge atop existing network equipment.



Manage Internal and External Network Services in One Unified Platform

NS1 Connect provides a single portal for deploying, configuring, and monitoring NS1 solutions across your entire network footprint. You can also integrate your own data sources and control points to maximize the effectiveness of our intelligence, response, and visibility capabilities. NS1 Connect includes a secure, single-sign-on portal with granular access controls to provide a centralized control plane for DNS and network services;

About NS1

The internet and applications powering our world depend on NS1. Billions of people connect to work, school, entertainment, healthcare and stay informed because of the company's innovative technology. As an ally for innovators, NS1 helps our customers turbocharge their ideas in pursuit of building the better future through connecting applications and audiences at the distributed edge. NS1's application traffic intelligence and automation portfolio makes applications faster, reliable and secure everywhere. With technologies for cloud-native network services, edge to cloud networking, and application traffic optimization, NS1 helps eliminate the barriers between applications, users, infrastructure and data. NS1 has more than 725 customers across the globe such as Dropbox, Fox, Salesforce.com, LinkedIn, and Ebay.