As enterprises embrace digital transformation, an ever increasing number of traditional as well as modern, distributed applications need to be supported across a hybrid cloud platform. Enterprises have to deliver always-on connectivity and robust performance for thousands of end users connecting via a multitude of devices. Enterprise networks will also have to take into account billions of IoT devices that will become operational over the next few years.

Yet with change comes risk and a new set of security challenges. Securing networks and applications is essential as threats become more potent and pervasive.

To realize these outcomes, NS1 and Cisco Umbrella have joined hands to offer a unified solution that supports application deployment and delivery while protecting critical assets. Traditional DDI solutions are typically encumbered by complex UI and workflows, expensive hardware and poorly performing APIs. Built on a cloud-native, API-first architecture, NS1 Enterprise DDI helps teams achieve agility, reduces costs and improves IT efficiency.

Cisco Umbrella is a cloud-native platform that delivers the most secure, reliable, and fastest internet experience to more than 100 million users daily. Umbrella unifies firewall, secure web gateway, DNS-layer security, cloud access security broker (CASB), and threat intelligence solutions into a single platform to help enterprises secure their network. Umbrella makes it easy to extend protection to roaming users and branch offices.
NSI Enterprise DDI

DNS
Deploy next-generation DNS servers to your network with comprehensive record type support including unknown types (RFC 3597).

DHCP
Create scopes, automate DNS updates and manage leases. Support for DHCPv4/DHCPv6 common options and custom DHCP options.

IPAM
View and manage the address space, including networks, subnets and hosts. Manually and/or dynamically assign IPs.

Advanced Traffic Steering
Leverage NSI’s Filter Chain Technology to control application workloads to meet your internal performance and uptime SLAs.

REST APIs, SDKs and Integrations
Automate tasks and orchestrate using Infrastructure as Code (IaC) tools such as Ansible, Terraform, Mesos, Go, PHP, Python. Integrate with ServiceNow and Consul.

API Performance
Fast DNS Change Propagation and modern API-first architecture supports high scale network service automation.

Active Directory Integration
Implement granular, zone-level permissions for read or write access for Active Directory users and groups.

High Availability
Protect your single source of truth with automated failover of DDI database services.

Distribution Media
Rapidly deploy and upgrade with NSI’s containerized solution.

Subscription Licensing
Avoid CapEx-heavy expenditures, hardware maintenance fees, and “rip and replace” every 3-5 years.

Support & Maintenance
24x7x365. Migration, training, and professional services available.

Cisco Umbrella

DNS-layer Security
Block requests to malicious and unwanted destinations before a connection is even established — stopping threats over any port or protocol before they reach your network or endpoints.

Secure web gateway
Log and inspect all web traffic for greater transparency, control, and protection.

Cloud access security broker (CASB) functionality
Detect and report on the cloud applications that are in use.

Cloud-delivered firewall
Block unwanted traffic using IP, port, and protocol rules. Gain visibility with automated logging.

Interactive threat intelligence
Gain rich intelligence about domains, IPs, and malware across the internet based on analysis of 180 billion DNS requests daily for comprehensive visibility and improved incident response.
Deploy NS1 as the next-gen authoritative server for resolving all queries within the corporate firewall. Resolve public DNS queries with Umbrella’s recursive resolvers to protect against DNS based security attacks. Reduce MTTR by quickly detecting the source IP of every outbound DNS query and building granular policies using the source IP attribution.

Together, NS1 Enterprise DDI and Cisco Umbrella provide a unified solution that helps you modernize and scale your networks without compromising security.

**Benefits**

**Drive Agility**
Accelerate delivery of network services by automating routine and cumbersome network administration tasks using powerful and comprehensive APIs.

**Optimize traffic**
Improve performance and drive efficiency by routing based on a variety of factors such as location, weights, availability, stickiness and load.

**Built for DevOps**
Eliminate DNS change control bottlenecks that can delay deployments by days or even weeks. NS1 Enterprise DDI makes it easy to safely and securely give your DevOps teams the autonomy to manage their own updates.

**Comprehensive security**
Secure applications and end-point devices both within as well as beyond the corporate firewall using NS1 Enterprise DDI and Cisco Umbrella.

**Stronger Together**
Deploy NS1 as the next-gen authoritative server for resolving all queries within the corporate firewall. Resolve public DNS queries with Umbrella’s recursive resolvers to protect against DNS based security attacks. Reduce MTTR by quickly detecting the source IP of every outbound DNS query and building granular policies using the source IP attribution.

Together, NS1 Enterprise DDI and Cisco Umbrella provide a unified solution that helps you modernize and scale your networks without compromising security.