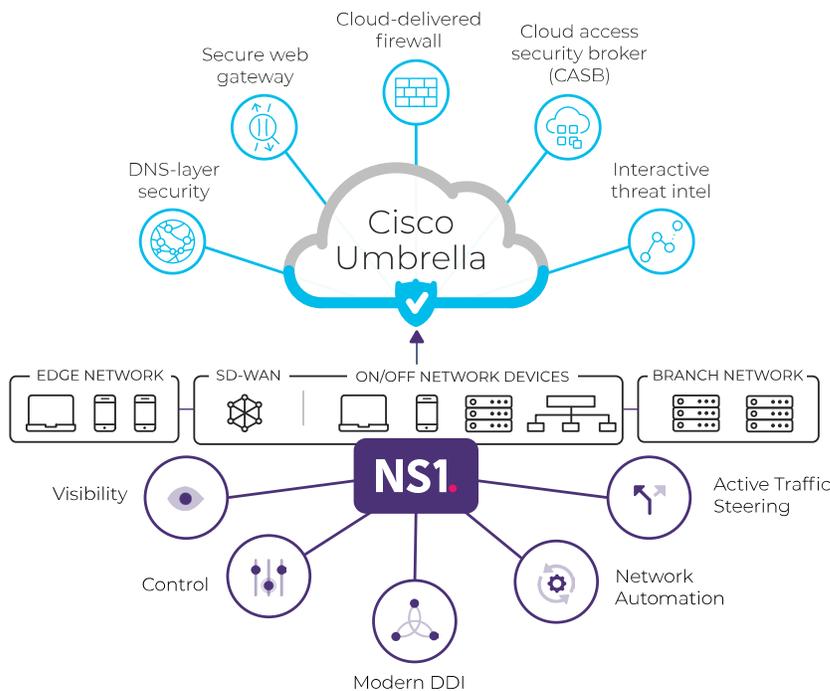


Solution Brief

Enhance Visibility and Control of your Network with NS1 Enterprise DDI and Cisco Umbrella

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. Protecting networks, devices and users is essential as web-based threats become more potent and pervasive.

To realize these outcomes, NS1 and Cisco Umbrella have partnered to offer a unified solution. NS1's solutions for application access combined with Cisco Umbrella's protection against web-based threats provide security administrators with in-depth visibility into malicious web traffic enabling rapid response and containment. NS1 has integrated its authoritative Domain Name System (DNS) and application traffic steering solution with Cisco Umbrella's recursive DNS service for an optimized and secure network both inside and outside the firewall. This combined solution provides network, security and application teams with a modern and secure DNS that is optimized for complex networks that leverage multi-cloud and DevOps environments.



Visibility

NS1 gives Umbrella users enhanced threat visibility down to the end user/IP address level for rapid identification

Control

NS1 provides Umbrella users with threat intelligence of all east - west traffic to reduce mean time to resolution (MTTR)

Modern DDI

NS1 provides an API first, software based and containerized DNS, DHCP and IP Address management for network modernization

Network Automation

NS1 automatically discovers, connects and registers services as they are dynamically provisioned to enable rapid application delivery

Active Traffic Steering

NS1 leverages real-time infrastructure data and configurable logic for intelligent traffic steering for increased performance and reduced risk

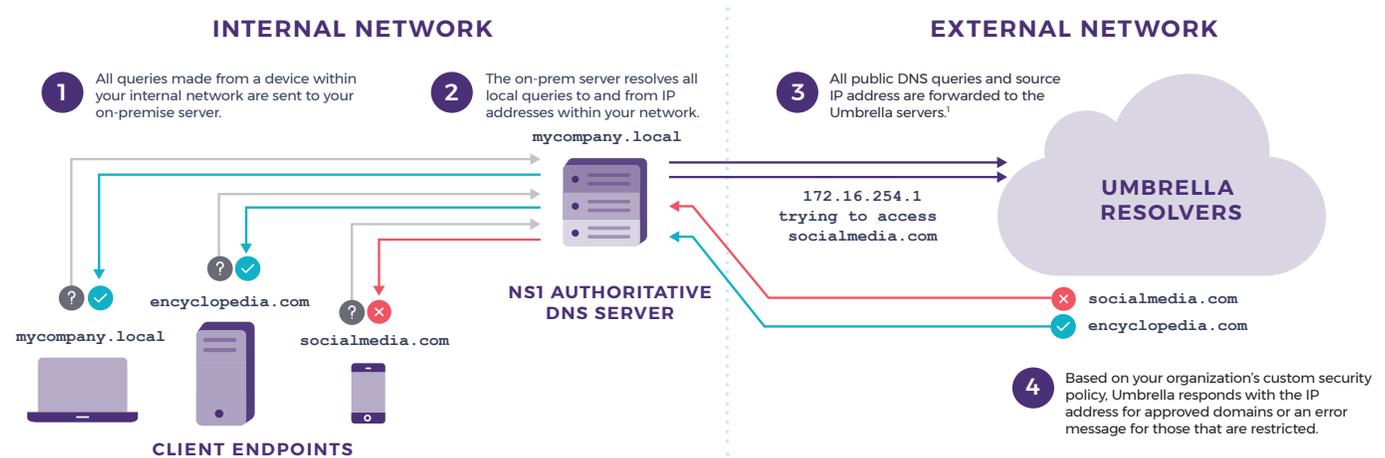
NS1 + Umbrella: Stronger Together

Comprehensive traffic management and security across internal and external DNS traffic

Deploy NS1 as the next-gen authoritative DNS for resolving all queries inside the corporate network. Resolve public DNS queries with Umbrella's recursive resolvers to protect against DNS based security attacks. Gain complete visibility into network traffic and apply Cisco Umbrella's advanced policies to guard the network.

Detect and remediate threats instantly

Cisco Umbrella is a cloud 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.



NS1 + Umbrella: How it Works



Deploy NS1's platform-agnostic, containerized DDI solution in seconds. NS1 DDI serves as the authoritative DNS (also provides DHCP and IPAM functionality) enabling enterprises to reliably connect users and devices to internal applications.



Configure NS1 DDI to forward public internet requests to Umbrella. Since NS1 is deployed behind the corporate firewall, get instant visibility into the source IP address of the endpoint device as well as every outbound public DNS query.



Apply Cisco Umbrella's policies to protect the network from command and control attacks, malware, bad domains, and other threats.

NS1: Modernize Enterprise DNS/DHCP/IP Address Management

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: Cloud Delivered Enterprise-Grade Network Security

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