

Nominum for Enterprise Networks

The Challenge

Large enterprises rely on networks that must deliver always-on connectivity while supporting mission-critical applications, multi-sites, an explosion in connected devices, and a large employee and customer base. Infrastructure complexity and increased demands are driven by:

- Always-on network availability: Guaranteed uptime nearing 100%.
- Operational resilience and disaster recovery strategies.
- Wireless (WiFi) and wired network access flexibility and security.
- VoIP and teleconferencing that impose higher network quality.
- Insidious threats, inside and outside the network, that are difficult to detect.
- More IP-enabled devices, more real-time applications, and more traffic.
- Right-sized solution set – with space and power resources at a premium, the need for a flexible software solution increases.

Although DNS and DHCP are at the heart of IP connectivity and access, IT/network groups have not invested in DNS/DHCP, relying instead on freeware software coupled with workarounds and various band-aid strategies to cope with the limitations of these solutions.

Large corporations who are looking to upgrade their critical DNS and DHCP services want the same stability and performance as large carriers, and total security.

Nominum's Unique Value Proposition

Nominum is a "big network" company and its products have been battle-tested in the largest network environments on the planet. In these environments, Nominum's customers enjoyed 99.999% reliability and impressive headroom for future growth. These factors have contributed to a lower TCO for every customer and have allowed Nominum's customers to escape the need to constantly re-architect networks to compensate for DNS/DHCP deficiencies.

Nominum's DNS and DHCP products are designed from the ground up with reliability, security and high availability in mind and share no code or architecture with open source solutions. This approach has been instrumental in delivering an always-available, secure, and high-performance solution that appeals to companies running large, mission-critical networks. Nominum software can be installed on existing servers and does not require any changes to network or hardware configurations.

Nominum is now offering its products as an alternative, the best alternative in the market, for DNS and DHCP with no dependency on freeware or an appliance. Nominum's software offers more flexibility, security, performance, and reliability than any other alternatives.

Nominum Products

Nominum's suite of products for enterprise networks include:

- **Authoritative Name Server (ANS):** A dedicated authoritative DNS server offering unmatched availability, scalability and security.
- **Caching Name Server (CNS):** A caching-only DNS name server that offers resiliency and security for high-performance, always-on networks.
- **Dynamic Configuration Server (DCS):** A highly configurable DHCP server that integrates easily into complex enterprise networks while guaranteeing DHCP service availability.
- **Engine Administration Console (EAC):** A simple-to-use web interface for configuring and administering Nominum servers.

Benefits

Upgrading your network with Nominum's DNS and DHCP solution delivers immediate benefits:

- Innovative security features, including protection from cache poisoning, denial of service and DNS-based attacks.
- Software for large mission-critical networks requiring no re-architecture.
- Unbeatable reliability: near 100% (telco-like) uptime.
- Superior performance and scalability giving headroom for emerging services.
- Rapid recovery after planned or unplanned downtime.
- Reduced management overhead.
- Flexible enterprise licensing model.
- Best TCO due to reliability and ease of operations.
- Support from dedicated industry specialists.

Case Studies

- A large retailer was facing DHCP outages in stores, causing issues with cash registers, RFID tracking devices, back office systems and other IP-enabled devices. As a result, they were incurring tens of millions of dollars in direct and indirect costs every year. They upgraded all their ISC-DHCP servers to DCS and achieved needed uptime for critical business applications with in-year ROI.
- A bank's network was attacked, taking down all their teller machines over a weekend. They upgraded from BIND (open source DNS) to Nominum CNS and secured their DNS infrastructure from vulnerabilities.
- A large enterprise DNS would crash following "DNS flood" requests generated by applications reconnecting following micro network outages. Additionally, their security group determined that their BIND servers would crash if a single compromised computer started attacking that server. They upgraded from BIND to CNS to fix both problems.
- A large enterprise was faced with a complex deployment of several DHCP servers in order to scale their network. By switching to DCS, they were able to keep the DHCP service in a few centralized servers, simplifying operations and management without compromising uptime and performance.

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