

Infoblox for Telecom DNS operations

Simplify and streamline DNS and related core network services to support 5G, edge, and advanced broadband

THE CHALLENGE

The role of the domain name system (DNS) is critical to communications service providers (CSPs). Its function is so important, that its failure is considered catastrophic. CSP networks are evolving, and for operations teams, DNS must evolve with it. Modern DNS solutions need to deliver maximum value, with minimal effort, friction or risk. Your team needs streamlined DNS operations for evolving CSP networks. You can gain greater simplicity, visibility and security while supporting the high performance and massive scale that subscribers demand.

Despite its importance, DNS remains one of the least appreciated application services in existence. Yet, the prominent role of DNS in telecom is no surprise since business and consumer subscribers rely both directly and indirectly on service providers for their DNS services. The dynamic and virtualized nature of telco clouds that will support 5G and advanced broadband workloads mean that performance, visibility and automation are not only desirable, but are becoming essential attributes. Virtual machine (VM) and containerized microservice instances that inhabit and enable the ecosystem must be able to grow on demand from thousands to millions and even billions. The responsibility of your company's vital DNS infrastructure rests on your shoulders—making the work of DNS operations more important than ever. These teams need to respond to changes faster, to scale quickly and make planning decisions based on the most current data.

THE SOLUTION

Infoblox solutions for service providers enable the crucial IP connections between your subscribers and their digital world. Our cloud-first networking technology provides carrier-grade security, reliability, automation and ultra-low latency—all the capabilities you need to create a better first-connection impression for subscribers and, ultimately, smooth your transition to the 5G future.

Infoblox solutions unite DNS, DHCP and IPAM (DDI) to automate network visibility, scalability and management. Operations teams can centrally manage and automate all aspects of authoritative and recursive DNS—and achieve the high availability, efficiency, security and application response times that subscribers expect in a digitally connected world.

With Infoblox, DNS operations teams can centrally manage and automate all aspects of authoritative and recursive DNS, and achieve the high availability, efficiency, security and application response times that subscribers expect in a digitally connected world.

KEY CAPABILITIES

Simplify Operations

Replace inefficient and outdated core network services devices with a scalable and secure platform.

Increase Visibility

Access rich, integrated reporting and analytics capabilities for capacity planning, asset management, compliance control and auditing.

Enhance Subscriber Experiences

Deploy the industry's fastest authoritative and recursive DNS to support 5G and edge services.

Automate and Integrate

Automatically detect physical and virtual instances and track resources and relationships with cloud orchestration technology integration.

Scale Massively and Easily

Deploy carrier-grade core networking services with auto-scaling capabilities, with service provider licensing that optimizes existing investments without replacing infrastructure.

Reduce Security Overhead

Leverage threat intelligence and AI/ML-based analytics on DNS for scalable protection against modern malware, DNS threats and more.

KEY BENEFITS

Deploy Secure, High-Performance DNS

Provides the industry’s fastest authoritative and recursive DNS. Sub-millisecond response and advanced threat protection maintain a low latency and a secure subscriber experience—ensuring fast network response while shielding subscribers from growing malware threats and service disruption.

Increase DNS Scalability and Resiliency

Reduce the number of physical and virtualized network functions. Scale to millions of devices with built-in high availability and improved reliability with automated HA/DR. Reduce downtime by eliminating slow, manual, error-prone upgrade processes.

Bolster Management Efficiency, Visibility and Control

Ensures IP address integrity and seamless record management to enable more efficient and cost-effective radio deployments, 5G automation and automated discovery and management. Leverage better capacity planning through robust reporting and predictive analytics.

Simplify Operations and Reduce Costs

Eliminate the complexity of legacy BIND implementations. Replace inefficient and outdated core network services devices with a scalable and secure platform. Centralize and automate DNS activities from edge to data center through a single, unified platform. Save time and reduce errors using automated workflows and templates. Streamline and orchestrate distributed network services from a single pane of glass, with extensive integrations to take full advantage of cloud applications and services.

Improve Network Security

Utilize DDI as a security control, helping to identify and remediate cyberthreats and protect your subscribers and the network they rely on more quickly. Maintain critical DNS service availability in rapidly evolving networks with growing traffic.

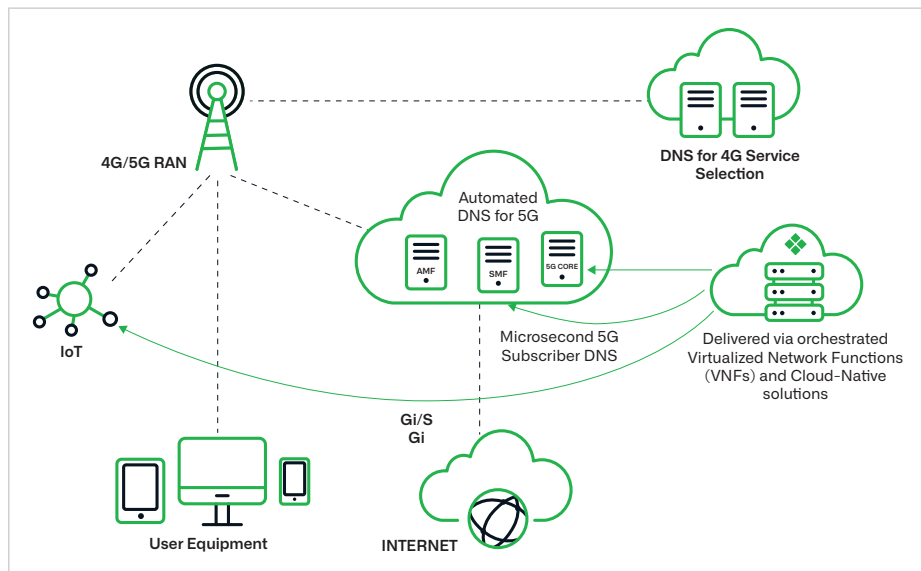


Figure 1: Infoblox helps simplify and streamline DNS and related core network services for service providers



Infoblox unites networking and security to deliver unmatched performance and protection. Trusted by Fortune 100 companies and emerging innovators, we provide real-time visibility and control over who and what connects to your network, so your organization runs faster and stops threats earlier.

Corporate Headquarters
2390 Mission College Blvd, Ste. 501
Santa Clara, CA 95054

+1.408.986.4000
www.infoblox.com