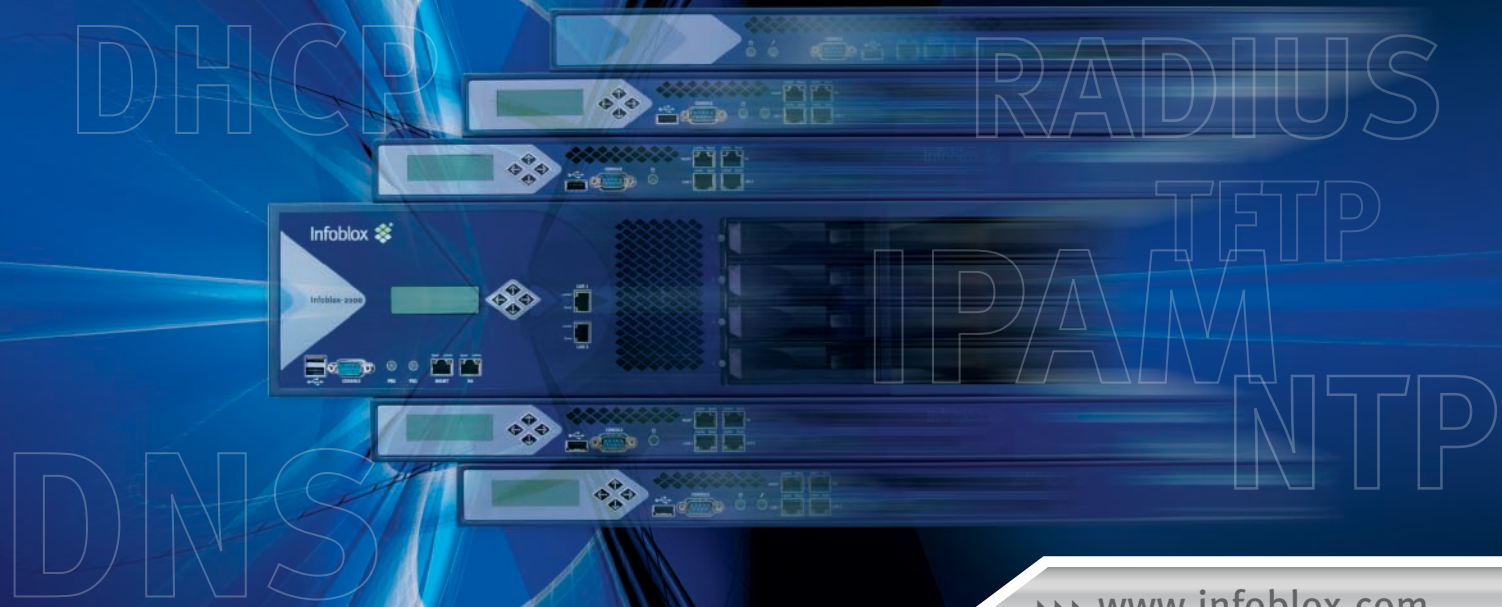




Automation and Control for Your Core Network Services



Take Back Your Network

Core Network Services: The “Glue” Between Networks and Applications

Core Network Services Defined

Core network services—which include IP address assignment and management (DHCP/IPAM), name resolution (DNS), authentication and authorization (RADIUS), configuration (FTP/TFTP/HTTP), and network time (NTP)—provide the foundation for all networks and applications. Put simply: without core network services, IP-based networks and applications grind to a halt. They provide the “glue” that binds networks, users, devices, applications, and policies.

Core Network Services are Critical

On par with “mission-critical” infrastructure components such as routers, switches, and firewalls, the availability, performance, and security of core network services directly affects the availability, performance, security, and scalability of all applications throughout the enterprise. Further, the manageability of core network services supports or hinders the ability of IT groups to meet compliance requirements and to make the most effective use of their limited personnel.

IP networks and applications are increasingly dependent on core network services and the services themselves are becoming more inter-dependent. For example, Microsoft’s Active Directory makes extensive use of DNS to function correctly. Voice over IP (VoIP) depends upon DHCP and TFTP in order to function. Secure wireless access requires RADIUS for 802.1X authentication. Network access control (NAC) requires tight integration between RADIUS and DHCP. And most modern applications—including ERP, CRM, and all web-based applications—are heavily dependent upon DNS. The importance of core network services is poised to increase even further due to the growth in IP-enabled devices—such as RFID readers, VoIP handsets, wireless devices, etc.—and the advent of new requirements to support mobility, convergence, security, and compliance.

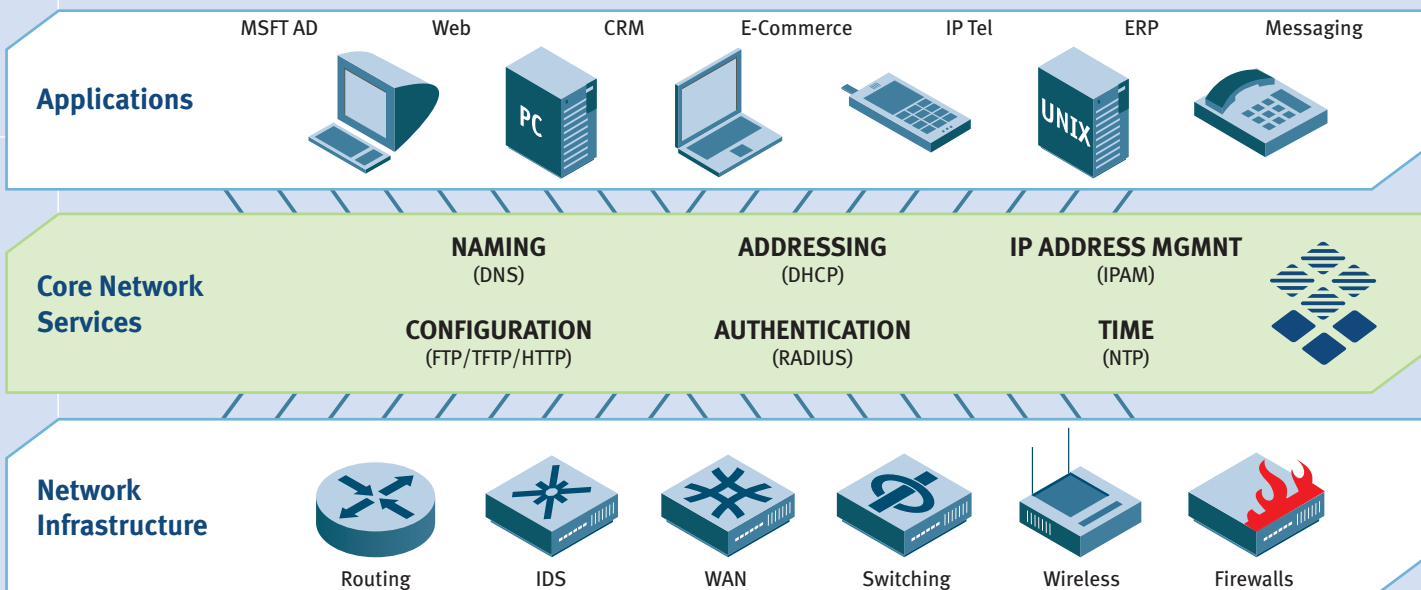
Organizations that depend on their networks increasingly recognize the risks and costs associated with legacy core network services infrastructure and are looking for solutions that can support current and emerging applications.

The Problems with Current Approaches

Legacy core network services solutions (software on servers) do not support the demands of today’s applications and networks and the people who run them. Key concerns with legacy solutions include:

- **Hard to Manage:** Inefficient, expensive, error prone, unauditable
- **Unclear Accountability:** Servers and systems are not consolidated or integrated, administration is fragmented across multiple groups (network, server, etc.) with no overall architecture, overlapping responsibilities, and inefficient operations
- **Insecure:** Underlying servers are not secure and require frequent patching, and the services themselves are often out-of-date and vulnerable to attacks
- **Vulnerable to downtime:** Providing local redundancy, service failover, and disaster recovery requires special systems and expertise, is costly, and often causes data errors
- **Costly:** Systems are often managed with the help of custom scripts, driving up management costs and making organizations vulnerable to loss of specialized personnel

PROTOCOLS	SERVICES
DNS (Domain Name System)	Naming
DHCP (Dynamic Host Configuration Protocol)	Addressing
IPAM (IP Address Management)	Management
RADIUS (Remote Access Dial-In User Service)	Authentication
FTP (File Transfer Protocol)	Configuration
TFTP (Trivial File Transfer Protocol)	
HTTP (Hypertext Transfer Protocol)	
NTP (Network Time Protocol)	Time Sync



The Industry's Most Powerful and Widely Deployed Platform for Core Network Services

The Infoblox platform controls and automates the core data and services that drive networks and applications.

Security-hardened Infoblox appliances can be deployed standalone or linked together in an Infoblox grid, a patented technology that allows a group of distributed appliances to perform as and be managed as a unified system.

In addition to providing better services, Infoblox solutions deliver quick payback by reducing total cost of ownership.

What is unique about Infoblox grid technology?

Infoblox grids provide an array of system management, data distribution, and system availability functions:

Resilient Architecture:

Infoblox grids are resilient against the failure of individual appliances or network outages.

Centralized Management: Devices and data in an Infoblox grid can be managed as a single entity, without regard for where data resides.

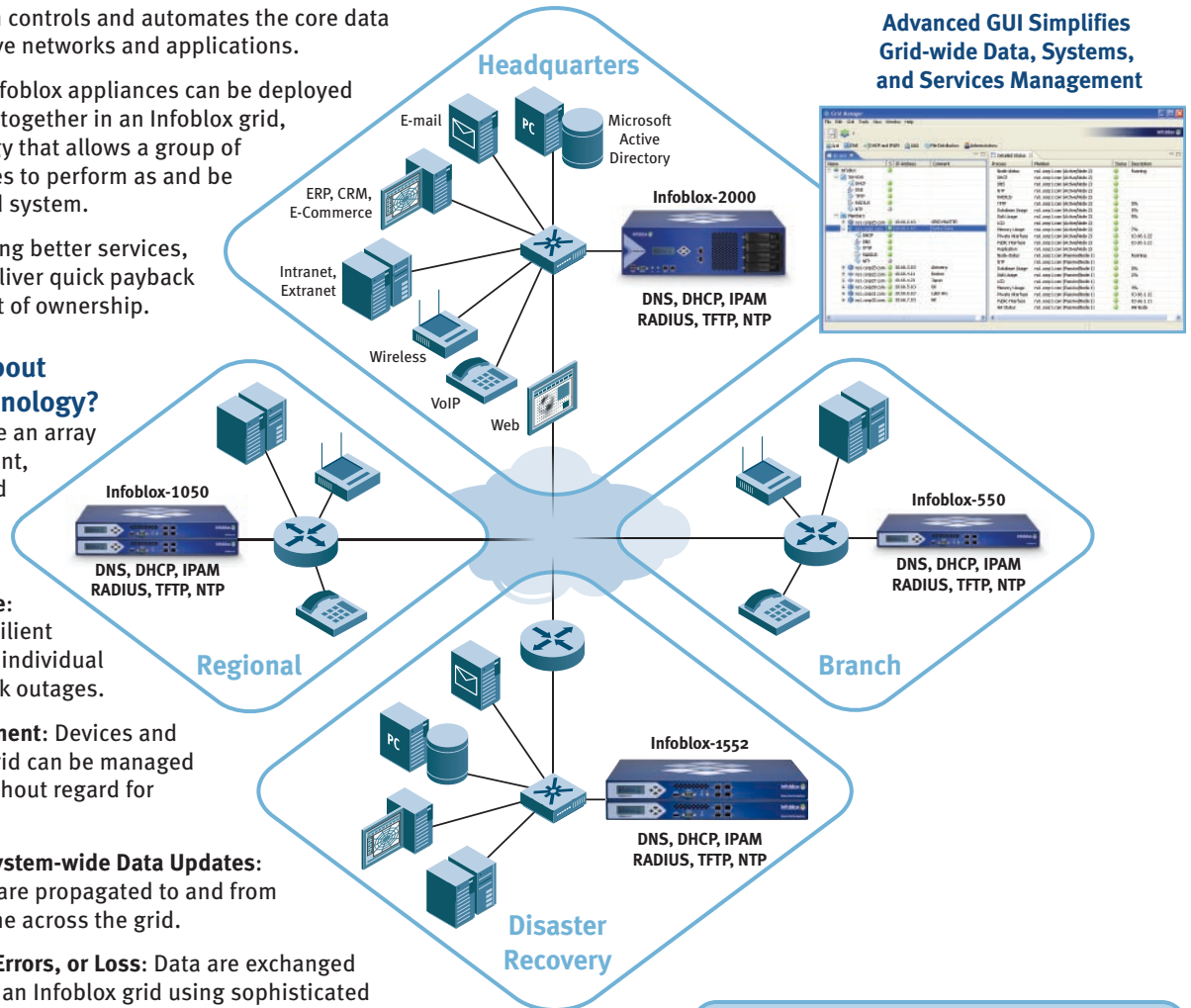
Real-time, Secure, System-wide Data Updates: Changes to key data are propagated to and from appliances in real time across the grid.

No Data Corruption, Errors, or Loss: Data are exchanged among appliances in an Infoblox grid using sophisticated distributed database technology with full transactional integrity.

Simplified, Role-based Management of Core Network Services, Devices, and Data: With configuration and data entry for a collection of appliances from a single user interface, operations are streamlined.

One-click Disaster Recovery: If a disaster occurs and the grid master is not available, a grid master candidate at the DR site can be promoted to be the grid master, resuming normal operations in minutes.

Advanced GUI Simplifies Grid-wide Data, Systems, and Services Management



Infoblox's core network services solutions help you:

- **Simplify** operations with advanced automation that saves time and eliminates errors.
- **Fortify** services with hardened security and unsurpassed resiliency.
- **Save** time and money by driving up efficiency and productivity and reducing downtime.

The Foundation for Your Key Applications

Internal DNS and DHCP

Infoblox solutions are certified by Microsoft for supporting Active Directory, and enhance DNS & DHCP in Windows environments to increase security and availability, simplify management, and reduce operating costs.

External DNS

Appliance-based external DNS is an industry best practice. Infoblox makes setting up secure, high-capacity, and reliable external name servers straightforward and easy to manage out of the box.

IP Address Management (IPAM)

IP addresses are one of the most critical resources in any network. Infoblox appliances deliver a complete DNS and DHCP solution with integrated IPAM capabilities for any size environment.

Voice over IP (VoIP)

Infoblox DNS and DHCP provide "IP dial tone" for your IP telephony systems. Reliable, distributed TFTP/TFTP/HTTP file delivery services take the load off your IP PBX and WAN links.

Enhance the Security, Reliability, and Manageability of Microsoft Environments

Whether your organization is seeking a way to better manage your current Microsoft DNS and DHCP servers by adding IP address management (IPAM) capabilities or looking to extend your Active Directory environment with appliance-based DNS and/or DHCP services, Infoblox delivers the solutions you need.

Infoblox is a Gold Certified Microsoft Partner with a competency in Advanced Infrastructure Solutions. Infoblox has been recognized by Microsoft for "...proven expertise in designing and/or implementing complex infrastructure solutions such as Active Directory-based solutions."

Microsoft®
GOLD CERTIFIED
Partner

IP Address Management for Microsoft

The Infoblox IPAM WinConnect system delivers a purpose-built, appliance-based solution that complements Microsoft DNS/DHCP systems, allowing enterprise customers that rely on Microsoft for DNS and DHCP services to preserve their current investment while realizing improved IP address space control and operational efficiency.

IPAM WinConnect provides:

- Centralized visibility & control
- Delegated, secure administration
- Reporting & auditing
- A reliable platform

DNS/DHCP Appliances for Microsoft Active Directory

Essentially all IP applications—web browsing, e-mail, VoIP, wireless, and many more—rely on the availability of robust DNS and DHCP services. With Microsoft Active Directory's dependence on DNS as a core service, this reliance is further increased. Offloading DNS and DHCP services from domain controllers onto Infoblox appliances is easy and improves security, reliability, and availability—while simplifying and enhancing manageability and reducing operating costs.



The Infoblox IPAM WinConnect solution delivers a powerful web-based GUI and simplified, appliance-based delivery.

Network Access Control (NAC)

Infoblox's built-in NAC Foundation solution provides secure guest access out-of-the-box and deploys in any existing network environment. It also delivers support for third-party systems, including DHCP-based enforcement for Microsoft NAP.

Compliance

Comprehensive administrative change logs and reports make it easy to pass compliance audits, and user/device/IP reports let you track who gets on your network.

Disaster Recovery

With an Infoblox grid, you can recover administration for all core network services at backup data centers in minutes, with a single command, and with no loss of data. No other system comes close.

Wireless Authentication

The Infoblox solution for 802.1X using RADIUS allows hundreds of appliances to provide simplified authentication services throughout an enterprise with maximum resiliency, simplified management, and local survivability.

Infoblox Products and Solutions

The Infoblox family of network services appliances are purpose-built, high-performance hardware devices that serve as the foundation of Infoblox solutions. Infoblox appliances ship standard with the security-hardened Infoblox NIOS™ software, a high-performance operating system that supports a series of service delivery modules and an API for easy integration with third-party systems. Software packages, which can be loaded on any Infoblox appliance, combine service modules to meet a range of requirements in standalone and distributed grid deployments.



NETWORK SERVICES APPLIANCES SPECIFICATIONS

Appliance models in the Infoblox appliance family are “right-sized” for small, medium, and large applications, and can be deployed individually or in high-availability (HA) pairs for optimal service resiliency.

	Infoblox-250	Infoblox-550	Infoblox-1050	Infoblox-1550/1552	Infoblox-2000
DNS Queries Per Second	3,000	12,000	24,000	36,000	75,000
DHCP Leases Per Second	25	75	150	225	750

SOFTWARE PACKAGES

NIOS SOFTWARE MODULES

Infoblox software packages run on Infoblox network services appliances.

	DNS	DHCP/NAC	IPAM	IPAM for Microsoft	RADIUS	Base Services*	Grid	AD Agent	VitalQIP Integration
DNSone	◆	◆	◆	—	—	◆	—	—	—
DNSone with Grid	◆	◆	◆	—	—	◆	◆	—	—
IPAM WinConnect	—	—	—	◆	—	—	—	—	—
Network Services for Authentication (NSA)	—	—	—	—	◆	◆	◆	◆	—
Network Services for VitalQIP (NSQ)	—	—	—	—	—	◆	◆	—	◆
Network Services for VoIP (NSV)	—	◆	◆	—	—	◆	◆	—	—
Network Services Suite (NSS)**	◆	◆	◆	—	◆	◆	◆	◆	—

* Includes FTP, TFTP, HTTP, NTP, Syslog NG Proxy, and RADIUS Proxy
 ** Also available as the NIOS Virtual Appliance for Riverbed

DNSone® Package

The DNSone package delivers fully integrated DNS and DHCP services, FTP/TFTP/HTTP file download services, RADIUS proxy, and IPAM functions. It is fully BIND-compliant and operates seamlessly in Microsoft Active Directory environments. It also provides a DHCP-based foundation for network access control and authenticated guest access applications.

DNSone with Grid™ Package

The Grid upgrade for the DNSone package enables the Infoblox grid module to unify a collection of Infoblox appliances into a grid that provides unprecedented, system-wide, real-time management and nonstop availability.

IPAM WinConnect™ Package

The IPAM WinConnect package provides powerful IP address management capabilities for Microsoft DNS and DHCP services, enabling IT administrators to replace spreadsheets, manual processes, and home-grown tools with a powerful, cost-effective, dedicated solution.

Network Services for Authentication Package

The Infoblox Network Services for Authentication package provides reliable and highly available authentication services for networks using 802.1X to control device access.

Network Services for Alcatel-Lucent VitalQIP® Package

The Infoblox appliance solution for VitalQIP software combines Infoblox’s network appliance and distributed grid management technologies with Alcatel-Lucent’s VitalQIP IP address management software including VitalQIP DNS/DHCP.

Network Services for VoIP Package

The Infoblox Network Services for VoIP package provides a simple, manageable, and highly available solution that can help network and telephony administrators achieve the reliability and service levels for IP telephony that are equivalent to that of legacy voice technologies— with dramatically less effort and cost.

Network Services Suite

The Network Services Suite is a software package available for Infoblox appliances that provides a full complement of core network services, delivering support for a comprehensive range of applications.

Over 100 of the Fortune 500 Use Infoblox Products



“Infoblox talks a lot about the robustness of its system, and we have to admit we didn’t run into a single management problem during our tests. Failover worked seamlessly...We tested three DNS/DHCP appliances designed to simplify configuration in remote offices through high availability and seamless failover. We gave out our Editor’s Choice award to the product with the most outstanding management capabilities.”

Mike Fratto, “Review: DNS/DHCP Appliances,” Network Computing



“Infoblox’s DNSone replaces quirky DNS/Unix servers with hardened appliances that help companies improve DNS/DHCP security, availability, and administration, making sure that the network remains open for business.”

Jon Oltsik, CNet/Enterprise Strategy Group



“Since deploying Infoblox, I just don’t have to worry about these services, which is a huge relief and gives me the confidence to deploy our application[s].”

Randall Williams, Global IT Operations Manager, Pelco



“The Infoblox devices provide the necessary resiliency and features that allow us to ensure nonstop delivery of the network services essential to providing access to the critical applications that help us better serve our patients.”

Bill Lazarus, Area Vice President of Information Systems, St. Joseph Health System



“Infoblox is working to eliminate the number of unknown devices on the network. We’ve been able to see that number drop. We think we’re going to see end user experiences improve because of the better latency.”

David Giamb Bruno, Pitney Bowes



“With its purpose-built appliance approach, including a hardened operating system, intuitive user interface, and one-button upgrades, Infoblox is more reliable, secure, and easier overall for the IT staff to maintain. Since deploying the initial Infoblox solution, we have already seen a noticeable improvement on DNS service availability.”

Gilles Poisson, Network Director, DANONE



Corporate Headquarters:
4750 Patrick Henry Drive
Santa Clara, CA 95054
+1.408.625.4200
1.866.463.6256
(toll-free, U.S. and Canada)
info@infoblox.com
www.infoblox.com

**Infoblox Europe, Middle East,
and Africa:**
Emiel Banningsstraat 41-47
2000 Antwerp
Belgium
+32.3.259.04.30
info-emea@infoblox.com

Infoblox UK & Ireland:
+44.1483.243.532
sales-emeawest@infoblox.com

Infoblox Asia Pacific:
+1.408.625.4334
sales-apac@infoblox.com

Infoblox Latin America:
+1.408.625.4337
sales-latinamerica@infoblox.com

Infoblox Japan:
+81.3.3560.8134
sales-japan@infoblox.com

Technology Partners:

