

ESSENTIAL NETWORK SERVICES FOR VOICE OVER IP (VoIP) NETWORKS

THE ADVANTAGES OF APPLIANCES, DISTRIBUTED INFOBLOX GRID TECHNOLOGY, AND VoIP SUPPORT FEATURES



The Network Services for VoIP package is available on all Infoblox appliance platforms.

As organizations replace traditional telephony architectures with IP networks, they face new challenges to meet or exceed traditional telephony service levels while realizing cost savings from consolidating their voice and data networks. Network infrastructures are often upgraded with the latest technologies for quality of service (QoS), fault tolerance, and management as part of a VoIP deployment. However, several other considerations are often overlooked, such as ensuring the availability of IP addresses and managing the distribution of IP phone firmware and configuration files. The systems that deliver these critical services are often the responsibility of the end user, and deficiencies can cause significant deployment delays and increased operational overhead.

Critical Services For VoIP

The Infoblox Network Services for VoIP package, deployed on Infoblox appliances, provides a simple, manageable, and highly available solution that can help network and telephony administrators achieve the reliability and service levels experienced with legacy telephony environments—with dramatically less effort. Delivering critical IP telephony services such as DHCP, TFTP/HTTP, NTP, IP address management and troubleshooting tools on purpose-built network appliances linked into a unified Infoblox grid, the Infoblox solution increases the overall reliability and manageability of any VoIP implementation.

Infoblox Grid Technology Reduces Management Overhead

Infoblox's grid technology creates a centrally managed and highly available environment that reduces the total cost of ownership of any VoIP rollout. It links appliances at central and remote offices into a unified, distributed system that is resilient to network and equipment failures and assures continuous uptime. This provides a way to manage IP addresses and to distribute IP phone firmware and configuration files across distributed VoIP environments. The grid also provides a single integration point for linking to authentication stores in Active Directory or other LDAP user and policy stores.

Efficient Configuration File Management

Managing VoIP phone firmware and configuration files can be a challenge in large-scale distributed environments, especially across WAN links. Infoblox solves this problem by distributing VoIP IP phone files across the grid. IP phone software updates and configurations are automatically distributed among the grid member appliances for download to local phones via the local LAN, saving expensive WAN bandwidth. Each grid member supports FTP, TFTP and HTTP file download to support virtually all IP phones from all manufacturers. Regardless of your choice of IP telephony vendor, Infoblox provides a comprehensive and cost-saving solution.

High-availability Services and Local Survivability

The Network Services for VoIP package runs on the purpose-built Infoblox appliance platforms, which are designed for nonstop operation in high-performance networks, using industry-standard Virtual Router Redundancy Protocol (VRRP) for sub 5-second network failover. Further, Infoblox grid technology ensures uptime at remote offices, even when WAN connection is lost or central office networking devices are down for maintenance.

AVAYA

CISCO

SIEMENS

Easy-to-use GUI

Infoblox's GUI, the Infoblox Grid Manager, can be run from a PC running Windows XP, Vista or Linux OSes. The abstracted, data-centric interface streamlines complex and repetitive management operations and enables administrators to focus on data and services rather than boxes and protocols. This reduces management time and eliminates many common data entry errors.

Certified for Cisco And Avaya VoIP Systems

Infoblox Network Services for VoIP has been tested and independently certified compatible with IP phone systems from Cisco Systems, Avaya and Siemens. Infoblox is a Cisco Technology Development Partner.

Performance and Capacity Specifications

	Infoblox-250	Infoblox-550	Infoblox-1050	Infoblox-1550/2	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
Capacity (Database Objects)	12,500	25,000	150,000	400,000	1,200,000

DHCP Technical Specifications

RFCs supported	RFCs 3046, 2131 and 1531 BOOTP, RFCs 1534, 2132 and 4388
Protocol engine	DHCPD 3.1
Additional Capabilities	<ul style="list-style-type: none"> • VLSM (Variable Length Subnet Mask) support • CIDR (Classless Inter-Domain Routing) support • Multiple subnets per segment (supernetting) • "Static leases" based on MAC address (manual allocation) • MAC-address-based filtering • Address availability checking before assignment • DHCP relay agent/Option 82 support • DHCP Vendor Class Identifier Option 60 • Secure DHCP-DNS integration updates DNS when leases are issued • Advanced DHCP Options Editor • Windows, Unix, and Mac OS compatibility • External syslog server support

Part Numbers

Infoblox-250 with VoIP Package, 100 Leases	IB-250-100-VNS
Infoblox-250 with VoIP Package, 300 Leases	IB-250-300-VNS
Infoblox-550 with VoIP Package	IB-550-VNS
Infoblox-1050 with VoIP Package	IB-1050-VNS
Infoblox-1550 with VoIP Package	IB-1550-VNS
Infoblox-1552 with VoIP Package	IB-1552-VNS
Infoblox-2000 with VoIP Package	IB-2000-VNS

HTTP File Download Specifications

RFCs supported	RFC 2616
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TFTP and HTTP File Download Specifications

RFCs supported	RFCs 1350, 2347, 2348 and 2349
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Infoblox product warranty and services

The standard hardware warranty is for a period of one year. The system software has a 90-day warranty that will meet published specifications. Optional service products are also available that extend the hardware and software warranty. These products are recommended to ensure the appliance is kept updated with the latest software enhancements and to ensure the security and availability of the system. Professional services and training courses are also available from Infoblox. Information in this document is subject to change without notice. Infoblox Inc. assumes no responsibility for errors that appear in this document.