

SOLUTION NOTE

High Availability DHCP Appliances for Mission-Critical Avaya VoIP Deployments

Companies demand dial-tone reliability out of their voice over IP (VoIP) deployments. To deliver this, VoIP solutions depend on a Dynamic Host Configuration Protocol (DHCP) server for IP address assignment to handset equipment.

The NS1® appliance-based solution from Infoblox delivers the only true high availability (HA) solution on the market, with the software and hardware redundancy necessary to maximize VoIP availability and deliver dial-tone service. And, the hardened appliance design heightens security while the intuitive GUI makes configuration and management a snap.



NS1 Runs on the Entire Family of Infoblox Network Identity Appliances

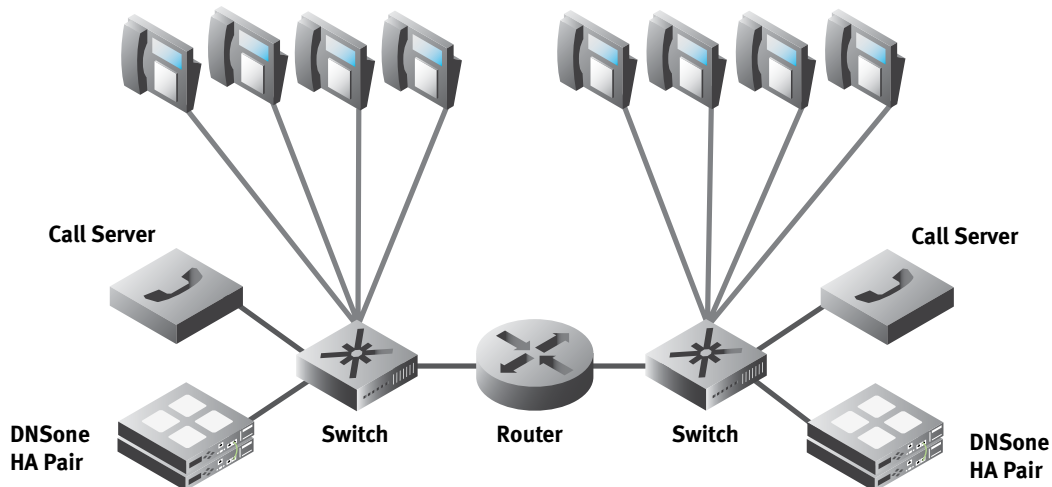


Figure 1: An Avaya VoIP Subnet with NS1 Appliance-based Solution for DHCP Servers.

Above is a network diagram showing two distinct locations for an Avaya VoIP configuration. DHCP messages are relayed by the switch and router from every phone to both pairs of DNSone appliances in HA mode. The appliances maintain a synchronized database of DHCP leases and automatically fail-over in the event of a network failure that renders one of the NS1 pairs unreachable. This set-up delivers maximum DHCP availability for VoIP.

Infoblox Key Capabilities

DNSone provides mechanisms to ensure non-stop availability of VoIP service:

- Automatic failover between two units in HA mode
- DHCP service-level failover, with optional load balancing between two units
- Simplified, GUI-based DHCP administration
- Secure, dynamic updates to internal name server
- Supports DDNS updates for external name servers

SOLUTION NOTE

Seamless Avaya Interoperability

DNSOne supports special options needed by Avaya VoIP equipment:

- 2-stage booting supported to ensure continual uptime
- Maintains service through cable pulls and server and telephone resets
- Better visibility into read-only SNMP MIB
- Secure DDNS updates
- DDNS name, extension, and IP address mapping
- Permit/Deny based on vendor class
- Full support for Custom Option 176

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.