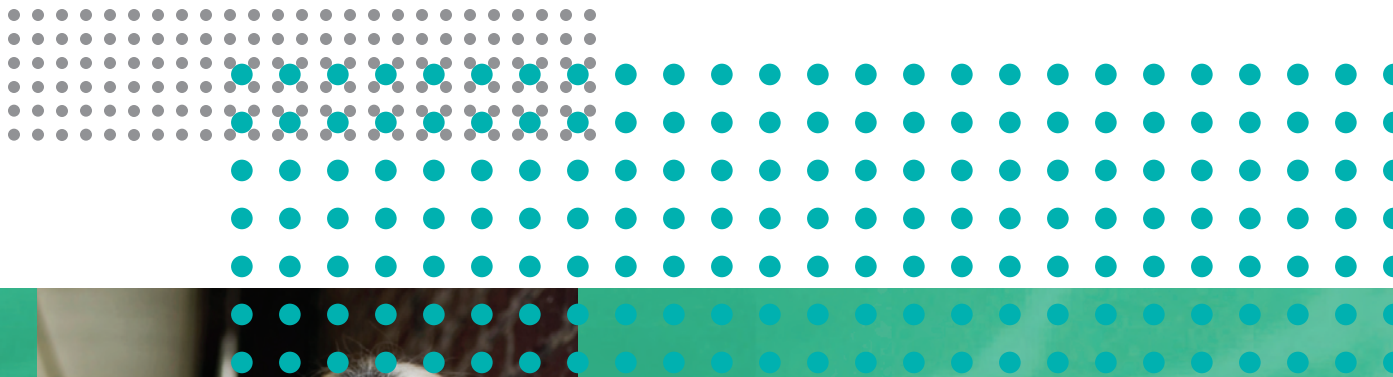# Alcatel-Lucent VitalQIP Appliance Manager

End-to-end, feature rich, appliance-based DNS/DHCP
and IP address management

Streamline management and cut
administrative costs with Alcatel-Lucent's
VitalQIP Appliance Manager

VitalQIP is a next generation solution for automating address management services across IPv4 and IPv6 networks.

In today's complex networking world, it is critical to have reliable, secure low cost address allocation and management software that keeps an enterprise network running smoothly every day.
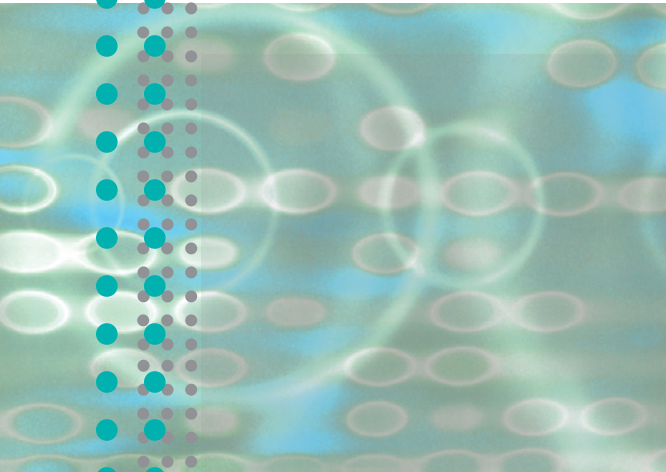
The VitalQIP Appliance Manager provides a seamless, cost effective way to deploy and maintain VitalQIP DNS/DHCP and IP Address Management software on an integrated appliance platform that includes customized remotes and automated software upgrade and monitoring

BENEFITS

Fully integrated with the market leading VitalQIP software:

- Everything that's needed for a fully-integrated, end-to-end appliance solution for VitalQIP software
- Automated deployment of critical IP name and address services
- Simplified software upgrades and centralized deployment and monitoring of IPAM, DNS, DHCP, and other services
- Secure services with hardened OS (RedHat Linux) preloaded onto the appliances
- Streamlined management which cuts administrative costs

Alcatel-Lucent is a proven global provider of market leading IT management solutions. Our solutions can maximize profitability and productivity and help you leverage IT investment for a competitive advantage. Alcatel-Lucent's award-winning VitalQIP software is used today by more than 850 customers worldwide, including over 50% of the Fortune 100 companies.
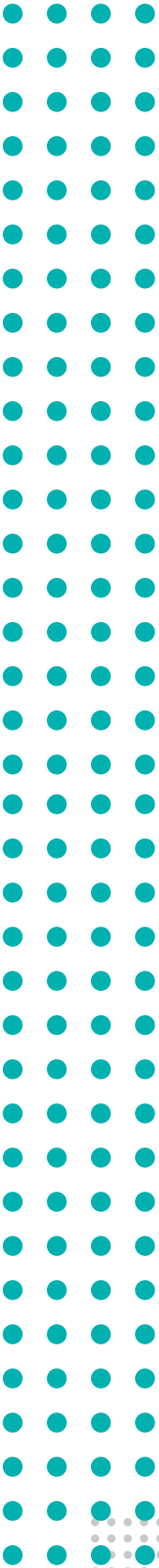
AUTOMATES DEPLOYMENT OF SERVICES

IP name and address services are essential to service availability and end user performance capabilities. If end users are unable to obtain an IP address, they can't communicate or complete tasks essential to your business success. If application host names are not quickly resolved by programs in end users' PCs, connecting to these applications and other services is difficult if not impossible.

Consolidating all IP address information in a single location ensures that your geographically dispersed network administrators can access the same IP database. This eliminates duplication of administrative effort and allows you to maintain a consistent IP inventory network-wide. Administrative efficiency is also increased from hosting IP address management services such as DNS and DHCP on specialized hardware appliance platforms while improving security and uptime.

The VitalQIP Appliance Manager offers the latest multi-core Intel-based architecture combined with the hardened Red Hat Linux® operating system as well as a web-based graphical user interface (GUI) that is used to seamlessly manage deployment, apply patches and upgrades, and monitor IPAM, DNS, DHCP and other services.
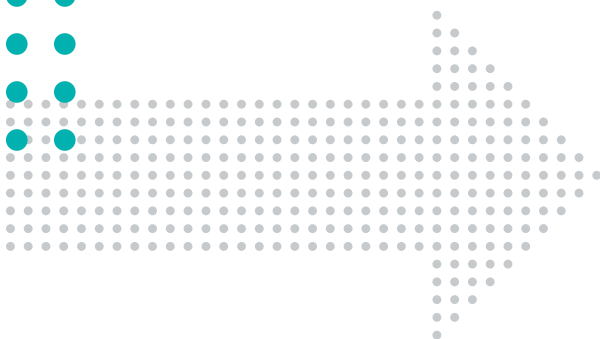
VITALQIP APPLIANCE MANAGEMENT SOFTWARE

The centralized VitalQIP Appliance Management Software (AMS) maintains an inventory of software packages and appliances and is easily launched from the VitalQIP web-based GUI. Also included for security is a token-based appliance authentication process.

Deployment, upgrades and maintenance is simplified by configuring services on the AMS GUI before deployment and by logically grouping the appliances. Remote services, such as DNS and DHCP, can also be upgraded to the latest software version across many appliances with a few simple clicks. If there are issues with an upgrade, an administrator can roll back to a previous version of the service since a record of upgrades is maintained in the AMS for each appliance.

Administrators have centralized access and a view of the entire appliance network via the monitoring section of AMS. This centralized control gives administrators quick and easy access to all log and configuration files, remote start and stop of services on appliances, and the ability to quickly take any appliance offline for suspicious behavior as well as reboot appliances from a central location, saving travel costs and time.

ENHANCES ADMINISTRATOR EFFECTIVENESS

The Alcatel-Lucent VitalQIP Appliance Manager:

- Centralizes the definition of IP addresses and distributed network services such as DNS and DHCP via a single system. This is key to effectively managing network-wide IP information.
- Configures remote DNS and DHCP appliances using centralized data, improving administrator productivity while reducing errors.
- Prevents administrators from having to individually access each and every remote machine.
- Performs appliance management using the central console that includes the Appliance Management Software (AMS).

HARDWARE/SOFTWARE OPTIONS

The VitalQIP Appliance Manager is offered on both standard and high-performance/ redundant hardware configurations to meet the specific requirements of your network. The VitalQIP Appliance Manager 1000 Platform is designed for typical enterprise remote applications while the VitalQIP Appliance Manager 5000 Platform is targeted for demanding environments and provides NEBS compliance.
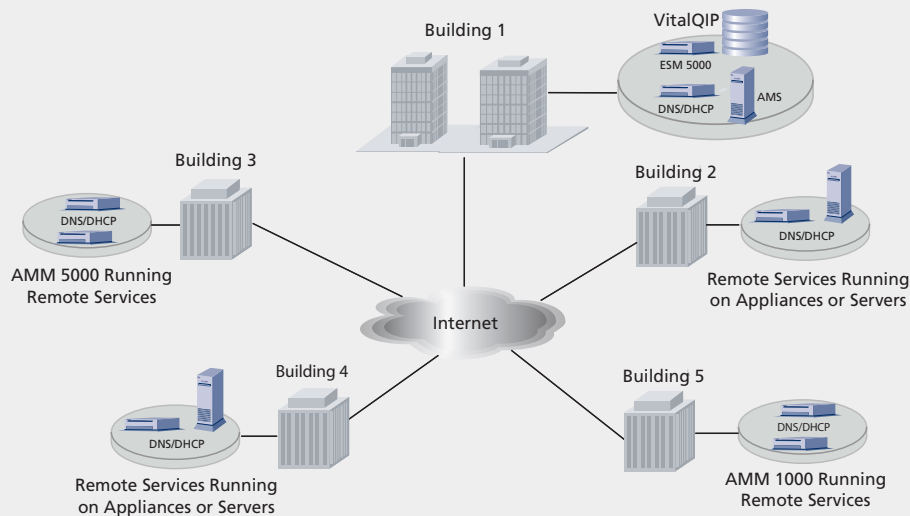
1000 Platform
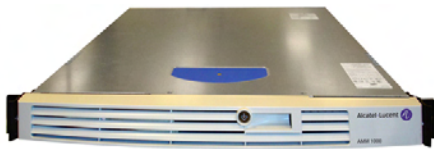
Powered by a high performance Intel® Core™2 Duo processor on a 1U form factor platform.

5000 Platform

Powered by two 64-bit dual core Intel® Xeon® processors in a NEBS-3 compliant 1U form factor platform with mirrored RAID 1 and dual power supplies.

Example VitalQIP Appliance Configuration

Summary of Features and Benefits

PLATFORM

- Integration with the market leading VitalQIP software
- Centralized appliance management data store to keep track of services and status of remote appliances
- Automated software upgrade capability with rollback options
- Highly secure communication between AMS and appliances with unique appliance key generation
- Logical grouping of appliances for ease of upgrades
- Software version history maintained per appliance in AMS
- Remote start/stop/initialize of services
- High availability using heartbeat and virtual address mechanism
- Retrieval of log/config files from appliances
- Connect, configure and go model for appliance activation

SERVICES

- Industry's highest performance DHCP server – enabling rapid IP address assignment for the delivery of robust IP services
- VitalQIP DNS server (BIND 9 based) – enabling rapid address resolution
- VitalQIP SNMP Service
- NTP Service for time synchronization among appliances

SECURITY

- Security hardened version of Red Hat Linux OS
- Limited port access
- Unique secret key exchanged between centralized software and each appliance for authentication
- Authorized appliance access is granted by centralized AMS administrator

VitalQIP Appliance Performance – **A Price Performance Leading Solution**

	AMM 5000: NEBS compliant with RAID 1 and dual power supplies	AMM 1000: Standard appliance
Leases per second	6,455	5,100
Queries per second	93,850	75,800
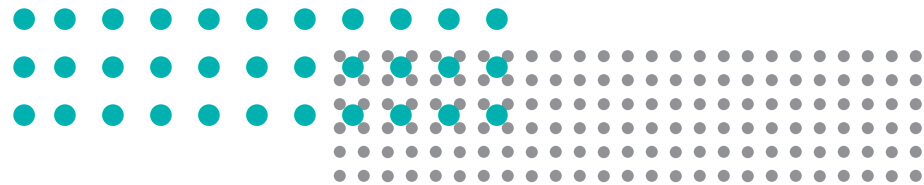
The VitalQIP Appliance Manager includes the Appliance Management Software (AMS), the Enterprise Server Module (ESM) and the Appliance Management Module (AMM). The AMS is used to manage the appliances in the network. The ESM provides the VitalQIP Enterprise Services, such as the IP Address Management functions, user interface and centralized database support. The AMM provides VitalQIP Remote Services, including DNS, DHCP, SNMP and other services. The AMS is available on an appliance and can also be downloaded and installed on existing hardware.
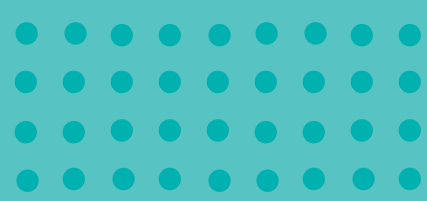
The hardware/software configuration options are summarized in the table below:

Name	Full Name	Function	Appliance	Hardware Platform
AMS	VitalQIP Appliance Management Software	Management Station Software	N/A – see below for appliance-based AMS	Linux-based, provided by customer
AMS 1000	VitalQIP Appliance Management Software 1000	Management Station		Model 1000
ESM 1000	VitalQIP Enterprise Server Module 1000	Standard Enterprise Server		Model 1000
ESM 5000	VitalQIP Enterprise Server Module 5000	NEBS compliant Enterprise Server (AC or DC power)		Model 5000
AMM 1000	VitalQIP Appliance Management Module 1000	Standard remotes		Model 1000
AMM 5000	VitalQIP Appliance Management Module 5000	NEBS compliant remotes (AC or DC power)		Model 5000

Alcatel-Lucent leverages innovations from Bell Labs and experience and expertise from Worldwide Services to provide high performing and highly scalable solutions that increase IT staff productivity by enabling user technology, and ensure network and applications performance for improved service availability.

To learn more about these and other management solutions, contact your Alcatel-Lucent sales representative, authorized reseller or sales agent. You can also visit our web site at http://www.alcatel-lucent.com/vital.

Alcatel-Lucent VitalQIP Appliance Manager

www.alcatel-lucent.com

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