CYGNA LABS

Data Sheet



VitalQIP DDI Software

Powerful DNS, DHCP, IPAM (DDI) Solutions

Where it all started…and going strong

VitalQIP pioneered the DDI industry nearly thirty years ago, and it remains an industry force with customers relying on its robust, scalable technology as the foundation of their IP services and networks.

DDI begins with IPAM

Managing DNS domains and DHCP pools outside of the scope of a consolidated IP address plan is time-consuming and error prone. VitalQIP facilitates IP address allocation and planning to lay the groundwork for consistent, accurate DHCP and DNS configurations, not to mention a robust IPv4 and IPv6 address plan. This solid foundation also enables dynamic incremental updating of network data for efficient accurate tracking which reduces duplicate assignments and network downtime, creating a more stable and robust IP infrastructure capable of supporting LAN/WAN/SDWAN, SASE, IPv6, IoT, and multiple private/public clouds.

VitalQIP provides a holistic perspective of your IP address space across these diverse network domains and enables full-cycle DDI with hierarchical IP addressing planning, including integrated Internet Registry updates, overlapping address spaces, subnet allocation and IP and pool assignments so you have a rigorous source of truth for your entire IP address space.

Scalable high-performance DNS/DHCP

The VitalQIP portfolio has included home-grown DHCP and DNS services from the beginning. These servers provide an alternative deployment option beyond supported reference implementations from Microsoft or the Internet Systems Consortium (ISC). The VitalQIP DHCP server in particular has an industry-proven track record of unmatched DHCP transaction processing performance and outstanding resiliency with DHCP failover. VitalQIP DNS is largely based on ISC BIND though it offers additional features such as high availability DNS feature primary DNS clusters.

DDI automation features

VitalQIP offers a robust REST API, facilitating DDI automation through integration with third-party IT or cloud automation systems, including Cygna Labs' Cloud Automation Appliance (CAA). The CAA provides a NodeRed drag-and-drop graphical interface to build workflow processes that meet your requirements. Including IT and cloud DDI integration and automation.

Extensive auditing and reporting

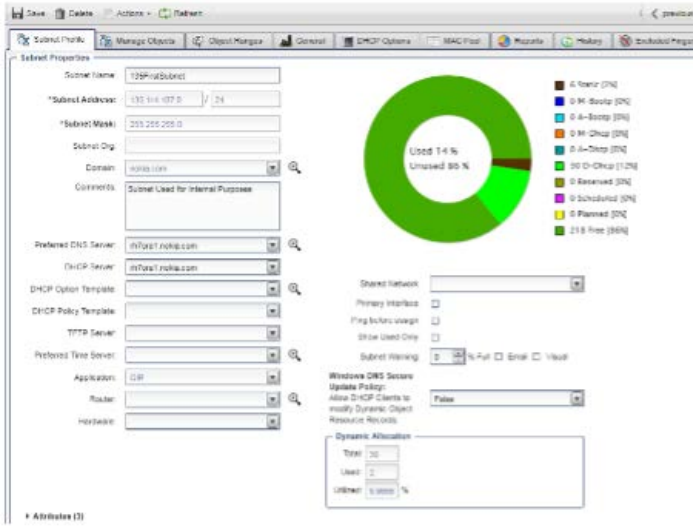
VitalQIP provides visibility to administrator activity from logins, logouts, and changes made to DDI related elements including domains, zones, networks, subnets, and IPv4 and IPv6 addresses.

Features

VitalQIP enables network engineers to manage our high performance DHCP and DNS services via a single holistic web interface. VitalQIP is a reliable, powerful DDI platform that enables you to manage modern IP networks spanning multi-clouds, LAN/WAN/SDWAN/SASE, IoT, BYOD initiatives, and more. Our intuitive web user interface simplifies and automates integrated DDI capabilities.

Address Planning

- Hierarchical allocations of IPv4 and IPv6 networks and subnets to any CIDR size or prefix length with the ability to configure individual IP addresses, ranges, and address pools within subnets.
- Streamline IPv6 hierarchical allocations with optional approvals to optimize your address allocations.
- Automated Internet Registry reporting and configuration facilitates address capacity elasticity.
- User-defined policies determine which block and device types are permitted within the hierarchy and who can administer them.
- Address utilization trending and forecasting enables proactive address capacity management.
- Simplified address renumbering allows movement of address space to where it's needed.



DDI Configuration and Security

- Manage DNS zones and resource records for premises-based DNS servers and appliances and native cloud DNS services from Amazon Route 53 and Azure DNS.
- Server templates streamline the server configuration process.
- Manage DNSSEC signing, rollover, key generations, emergency rollovers, and more.
- GUI configuration of critical DNS security features including our RPZ wizard, DNS firewall settings, rate limiting, ACLs, TSIG, update policies, and more.
- Support for critical network services resiliency with DHCP failover, multiple DNS server deployments, multi-tiered addressing, DHCP client classes, secure dynamic DNS, and more.
- Advanced features configuration via the GUI for views, DNS and zone options, auto-rolling TSIG keys, logging, address match lists, DNSSEC, and more.

Automation and Control

- Robust REST API and user exits facilitate automation.
- Unsurpassed CLI set for simple scripting and integration
- Instant search streamlines the location of IPAM information.
- Adaptable MyView enables administrators to quacking find and focus on core DDI elements within their scope of responsibility.
- Advanced IPv6 address management enables automated block allocation, ip6.arpa domain creation, AAAA/PTR resource record automation, and DNS64 configuration.
- Granular administrator policies and administrative roles dictate access to functions, organizations, domains, subnets and blocks.
- Extensive audit reporting on each system element promotes accountability and history tracking for administrators, subnets, devices, IP addresses and servers.

About Cygna Labs

Cygna Labs is a software developer and one of the top three global DDI vendors. Many Fortune 100 customers rely on Cygna Labs' DDI products and services, in addition to its industry-leading security and compliance solutions to detect and proactively mitigate data security threats, affordably pass compliance audits, and increase the productivity of their IT departments.

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