

Alcatel-Lucent VitalQIP ENUM Manager

IP MANAGEMENT SOFTWARE

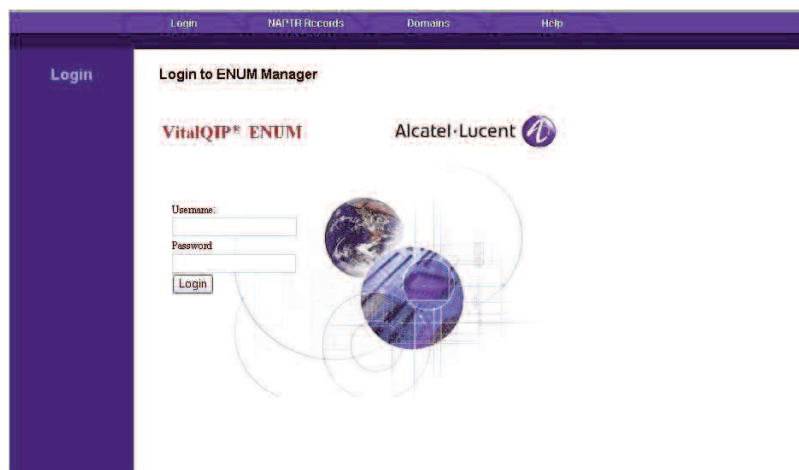
Alcatel-Lucent® VitalQIP™ DNS/DHCP and IP Management software efficiently configures, automates, integrates and administers IP services across the entire network — locally or globally. This powerful management software centralizes IP services planning and administration enabling rapid provisioning of address space and reliable delivery of critical IP name and services throughout the network. VitalQIP ENUM Manager is an optional module of Alcatel-Lucent VitalQIP. VitalQIP ENUM Manager eases the administration of telephone number mapping, also known as electronic numbering (ENUM) and the Naming Authority Pointer (NAPTR) records in Vital QIP and the Alcatel-Lucent DNS server.

Key features

- Centralized ENUM management solution
- Initial load and bulk loading of ENUM information to DNS
- Interface to provisioning systems
- Open standards interface
- Comprehensive GUI for administration

Key benefits

- Provides a critical and necessary solution to maintaining the ENUM DNS name space
- Ensures consistency of the various NAPTR records
- Enables end-to-end flow-through provisioning of subscribers and services
- Seamlessly integrates with VitalQIP IP address management software
- Simplifies administration of ENUM domains



VitalQIP ENUM Manager provides an electronic interface for upstream provisioning systems to create, update, delete and search NAPTR records in ENUM Manager. Additionally, in the ENUM Manager GUI, an administrator can split and merge ENUM domains in order to manage the size of ENUM zone files used in DNS servers. The GUI also allows an administrator to create, update, delete and search the NAPTR records. The NAPTR records are stored in the ENUM database, which is shared with VitalQIP. VitalQIP accesses this database, and uses the data in it to update DNS servers, either by sending dynamic DNS update messages or pushing zone files.

Integrates with VitalQIP IP address management software

VitalQIP software provides the foundation to extend the system's capabilities and increase the return on network investment. Modules such as VitalQIP ENUM Manager are available to augment the value and versatility of a VitalQIP software solution.

Enables end-to-end flow-through provisioning of subscribers and services

NAPTR records can be loaded from a variety of sources into VitalQIP through the XML/SOAP interface (both synchronous and asynchronous) provided by the ENUM Manager. The open standards interface supports dynamic loading of new records from provisioning systems, and bulk loading records from databases for initial population of NAPTR records. The ENUM Manager stores data in the VitalQIP

ENUM database, which in turn is used to update Alcatel-Lucent DNS servers, either through dynamic DNS updates or zone file pushes.

Ensures consistency of the various NAPTR records

ENUM Manager simplifies the implementation of many of the more "user-hostile" elements, by allowing an administrator to manually create, update, delete and search the NAPTR records through a user-friendly GUI. The GUI provides the capability to automatically create the regular expressions as required and provides a level of error checking/validation during the process. In order to create a NAPTR record, the administrator simply populates a few fields and, once executed, the record is saved to the VitalQIP database and pushed to the Alcatel-Lucent DNS server.

The screenshot displays the 'NAPTR Records' form within the VitalQIP ENUM Manager GUI. The interface has a dark purple header with navigation tabs for 'Login', 'NAPTR Records', 'Domains', and 'Help'. A left sidebar contains 'NAPTR' and sub-options 'Add' and 'Query'. The main content area is titled 'NAPTR Records' and includes the instruction: 'To create a new NAPTR Record, fill in the form and click Add'. The form fields are as follows:

- NAPTR Record Information**
- *Domain Name:** A text input field.
- Suffix:** A dropdown menu currently showing 'e164.arpa' and a 'Format Number' button.
- Subscriber Id:** A text input field.
- *Order:** A text input field with the value '100'.
- *Preference:** A text input field with the value '100'.
- Flags:** A text input field with the value 'u'.
- Services:** A text input field with the value 'E2U+sip'.
- Regular Expression:** A text input field.
- Replacement:** A text input field.
- TTL:** A text input field with the value '0' and '(seconds)' next to it.

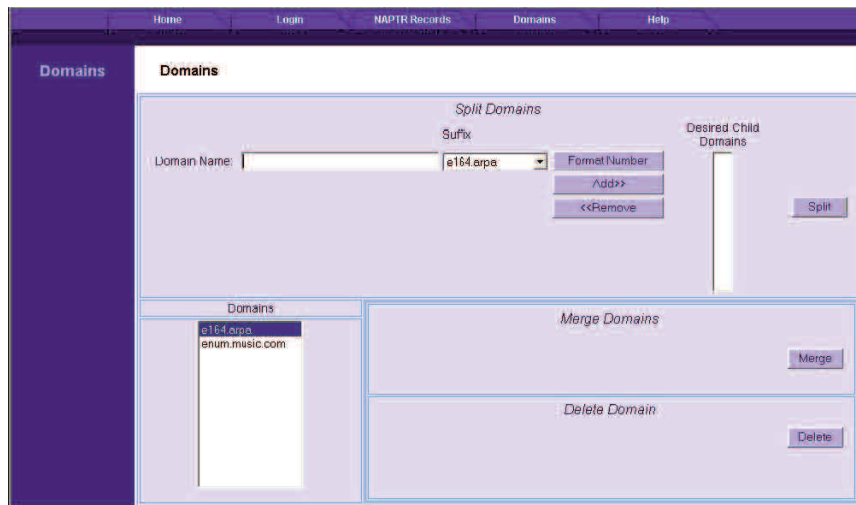
At the bottom of the form are 'Add' and 'Cancel' buttons. A '*Required Field' note is located in the bottom right corner.

Simplifies administration of ENUM domains

Simplifies administration of ENUM domains
To handle the growth of an ENUM domain, the ENUM Manager provides broad

domain management capabilities to the administrator through a user-friendly GUI. VitalQIP ENUM Manager provides the capability to quickly split, merge and delete domains. An administrator simply highlights the appropriate domains, performs the

desired action, and the appropriate zone files are saved in the VitalQIP ENUM Manager database and pushed to the Alcatel-Lucent DNS servers. Over time, as zone file sizes and numbering plans change, the administrator can rearrange the ENUM domains to improve performance.



Features

- Centralized management solution enabling administration of ENUM domains (e.g., e164.arpa.)
- Interface to provisioning systems
- Secure, open standards interface
- Initial load and bulk loading of ENUM info to DNS
- Batch updates
- Online updates
- Comprehensive GUI for administering NAPTR records and domains
- Support for Alcatel-Lucent DNS 4.0 (compliant with BIND 9)
- Proven performance and management

Platform support

- Sun Solaris™ 9 and 10 operating systems on UltraSPARC® microprocessor
- Microsoft Windows Server® 2003 Enterprise and Standard editions (32 bit)

Software requirements

- VitalQIP R7.1
- Alcatel-Lucent DNS 4.0
- Perl 5.6x or higher
- Sybase® 15.0.1
- Oracle® database 10g R2
- Apache Axis 1.2.1

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