

# VitalQIP ENUM Manager

IP Management Software

Alcatel-Lucent



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

**Authority Pointer (NAPTR) records in Vital QIP and the Alcatel-Lucent DNS server.**

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

## 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

The screenshot shows the 'NAPTR Records' form in the VitalQIP ENUM Manager GUI. The form is titled 'NAPTR Records' and includes a navigation bar with 'Login', 'NAPTR Records', 'Domains', and 'Help'. The main content area has a dark blue sidebar with 'NAPTR' and 'Add' buttons. The form itself is light blue and contains the following fields:

- NAPTR Record Information**: To create a new NAPTR Record, fill in the form and click **Add**.
- \*Domain Name**: enum.lucent.com
- Suffix**: e164.arpa (with a dropdown arrow and a 'Format Number' button)
- Subscriber Id**: cpyne
- \*Order**: 100
- \*Preference**: 100
- Flags**: u
- Services**: E2U+sip
- Regular Expression**: ^\*\$!cpyne@lucent.com
- Replacement**: (empty field)
- TTL**: 0 (seconds)

At the bottom of the form are 'Add' and 'Cancel' buttons.

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

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.

n3k Informatik GmbH  
Ferdinand-Braun-Str. 3  
74074 Heilbronn  
Tel: +49 7131 59495 0  
www.n3k.de

## Netzwerke für das dritte Jahrtausend

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### 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.



### 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.

### About n3k Informatik

n3k Informatik is established since more than ten years as the leading independent provider of IP Management solutions in Europe. n3k Informatik is working with all of the most important suppliers in this field.

Customers of n3k Informatik are more than 50% of the DAX 30 companies and more than 100 companies in all economies and branches.


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### Features

- Open standards interface
- Initial load and bulk loading of ENUM information to DNS
- Centralized management solution enabling administration of ENUM domains (e.g., e164.arpa.)
- Interface to provisioning systems
- Batch updates
- Online updates
- Comprehensive GUI for administering of NAPTR records and domains
- Support for Lucent DNS 4.0 (compliant with BIND 9)
- Proven performance and management
- Platform support
  - Sun Solaris 9 and 10 operating systems on UltraSPARC microprocessor
  - Windows 2003 Server 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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