



Service description

ENUM is one of the key ingredients of the convergence between PSTN and Internet into the Next Generation Networks.

With ENUM, number portability and routing between PSTN numbers and Internet addresses like SIP, H323, IM, MMS and e-mail become reality. The routing of classic telephone numbers to IP addressing schemes like SIP can be managed outside of the switching equipment and subscribers may decide upon their own routing.

Established industry standards like RFC 3761, SOAP/XML, BIND and Power DNS server software have been chosen to ensure compatibility and scalability.

AG Projects provides a mature implementation of ENUM. The requirements for interoperability and best practices that resulted from multiple ENUM trials and standardized by the European Telecommunications Standards Institute (ETSI) have been fully addresses.

Features

- NAPTR syntax and logic checks
- Wizard mode and advanced mode
- Both DNS and E.164 formats supported
- Delegation of records to end-users
- Version control with rollback
- Numbering plan generators
- Real-time updates

Deployment scenarios

ENUM management system is provided standard with AG Projects Multimedia service platform or available as managed service on Managed DNS hosted IP service platform. Managed DNS is a high-availability carrier-class infrastructure with presence in multiple geographical locations, redundant components, a version control system and a disaster recovery plan.

Is ENUM for you?

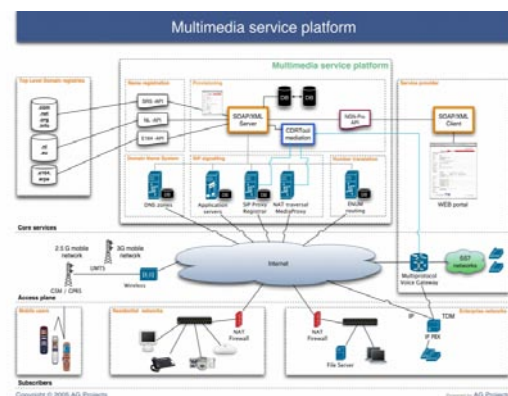
Telecoms and mobile operators

If you are starting a Voice over IP business, ENUM is the ideal tool to manage the translation between PSTN numbers and IP telephony addresses.

The numbering plans can be managed in one place and outside switching equipment. You may delegate the management of the translation database on a number basis to the end-users saving money in operational and support costs.

Vendors

With ENUM, routing phone calls or other messages between networks based on different technologies like GSM, CDMA or UMTS may be achieved without the hassle of building new functionality into switching equipment. Standards and protocols used by ENUM are open and supported by most of the equipment vendors today.





Technical specifications

Environment

24/7 monitored facility
Dual power and always-on UPS
Same network hosting H-GTLD.SERVERS.NET

Software & hardware

COMPAQ and SUPERMICRO
High Availability setup
Power DNS and BIND
SIP Express Router
SSL encryption and certificate
MySQL backend with replication
Off-site data backup every 24h

DNS

Zone parameters: TTL, SOA, Expire Date, Admin E-mail, Refresh, Expiry, Retry transfer, Negative TTL, Allow transfer, Allow update, query, notify
Record types
A, A6, AAAA, NS, CNAME, MX, PTR, NAPTR, SRV

Account management

Multilevel accounts
Zone delegation to end-users
Record delegation to end-users
System auditing and logging

Provisioning interfaces

Transport over the HTTPS protocol
Zone transfers from other name servers
Batch/bulk imports from CSV files
SOAP/XML using NGN-Pro

Security

Username/password
Temporary passwords sent via SMS

ENUM standards

Multiple TLD support (e.g e164.arpa or others)
Syntax checks and logic checks based on:

- RFC3761
- RFC3762
- RFC3764
- RFC3401
- RFC3402

NAPTR fields

- Name
- Order
- Preference
- Flags
- Service
- Regexp
- Replacement

NAPTR services

- SIP (RFC 3764)
- H323 (RFC 3762)
- WEB and FTP (RFC 4002)
- Unallocated (Void)
- IAX, IAX2
- MMS, SMS, EMS
- IM
- EMAIL
- PRESENCE
- VOICE
- TEL
- iFAX