

INOC-DBA for the rest of the world

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INOC-DBA

- Central SIP proxy
- Endpoints all register or "static" routed
- Great for it's purpose!
- Scales well to expected environment
- Dialstrings like "11893*123"
- Info: http://www.pch.net/inocdba/

Problems with VoIP Peering

- INOC-DBA applies only to ASN holders
- E.164 numbering is tied to legacy problems
- E.164 is not easily distributed/delegated
- E.164 has significant trust issues with ownership and routing

freenum.org example

1234*256

Format is called "ISN" (ITAD Subscriber Number)

What is an ITAD?

- Provided by RFC3219 (TRIP)
- Allocated by IANA (no charge)
- 32 bits
- First-come, first serve (up to 852 as Feb 18)

DNS lookup, detail 1234*256

becomes

NAPTR 4.3.2.1.256.freenum.org.

becomes

1234@loligo.com

How does it work?

• DNS used for all data delivery

- Control can be delegated to the org. or wildcarded for ease of administration
- PBX/proxy/device does a DNS lookup on the number, SIP URI is returned, call is completed
- Bonus: TXT records for each org with relevant org. details (selectable privacy settings)

example: o.270.info.freenum.org.

Other comments

Isn't it like ENUM? Yes and no.

Does it scale? Yes, as far as DNS scales.

Does it solve SPIT? That's not the charter of freenum.org

Status

- ~600 ITAD participants
- 2+ years in testing (now out of testing)
- Self-administration web pages in Oct. '07
- Many higher edu., large networking, next-gen voice providers.
- Large non-NA interest.

How to get started

- Have a publicly-accessible SIP platform that can handle numeric URIs (1234@yourdomain.com)
- Get ITAD from IANA (free)
- Publish your NAPTRs in the freenum.org zone (free, self-administered)
- Add dialing methods to your PBX/proxy/etc (cookbooks available)

Compatibility



FreeSWITCH

...and many others.



Q&A