

# Carrier ENUM mini-bof

(Infrastructure/Operator/Enterprise ENUM)

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# Agenda

- 1400 Agenda bashing
- 1405 Setting the stage - Richard Shockey & Patrik Fältström
- 1410 ESTI perspective - Richard Stantsy
- 1415 NEXT - Richard Stansty (on the behalf of Thilo)
- 1425 E2C - Penn Lind
- 1435 Requirements - James Seng
- 1440 Open Discussion

# Ideas & Proposals

- E2C - Steve & Lind
  - <http://www.ietf.org/internet-drafts/draft-pfautz-lind-enum-carrier-00.txt>
- NEXT - Thilo Salmon
  - <http://www.el64.info/documents/proposal-next.txt>
- Split DNS - Andy Gallant & Bob Bownes
  - [http://www.enumf.org/documents/gen/2004/GEN0105R0\\_GallantBownes\\_Split\\_DNS\\_Carrier\\_ENUM.doc](http://www.enumf.org/documents/gen/2004/GEN0105R0_GallantBownes_Split_DNS_Carrier_ENUM.doc)

# First thing first

- What is it?
  - What's the problem “users” trying to solve?
- What's are the requirements?

# What is it?

- Users are typically carriers, service providers, network operators (loosely ITSP)
  - wireless & cable & broadband companies
- Map numbers to network resources for “voice routing”

# Use cases

- Route calls between users on the same “carrier”
- Route calls between users on different “carriers”
- Route calls for “carriers” for roaming users

It is easily confused with User/Public ENUM where we use it to route calls between users regardless of “carriers”.

# Requirements

- No opt-in or opt-out (it is just there!)? 95% support
- Private (not globally visible on the Internet)? 60% support
- Authentication, Authorisation needed? 90% support
- Accounting needed? 10% support
- Should this be in e164.arpa? 50% support
  - Is this pure DNS? 40%
  - Not DNS at all? 10%
  - Hybrid of DNS and something else? 20%
- Should we have a break? 78%

# Open discussion

- What *\*IS\** the problem?
- Is “ENUM” the right solution for the “problem”?
- Can it be done with User/Public ENUM?
  - Can it even be done with DNS?
- Can this be done by RFC 3219 (TRIP)? Why not?



# Questions..

- Network operator
  - What is the entity which is assigned the E.164 number in question?
- Find other things which have nothing to do with the operator which has the E.164 assigned (choice of the end-user)
  - VoIP-operator serving the same person as the E.164 number want to provision SIP URI