VIPR: Verification Involving PSTN Reachability

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Why Phone Numbers?
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Why Route Via Internet
Communication innovation is landlocked by the PSTN
Why not the obvious solution

- Phones numbers are allocated using a hierarchal delegation model. Build a global database aligned with these allocations.

- IETF designed such a system in the form of Public ENUM

- RFC 2916 done since 2000
One possible way to skin this cat
Back to the problem
Properties

- Decentralized incremental deployment
- Bootstrap using PSTN forward routing
- Gradual discovery of phone to domain mapping
- Use validation to build up mappings instead of delegated trust
Proposal for New Working Group

The IETF should create a WG to develop standard track protocols to:

Allow call controller (PBX, Phones, Call Agents, Proxies) to organically build up a validated mapping of phone numbers to target domains.
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