



RFC6761bis Problem Space: Input to the Design Team

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What is new since Prague?

- Core group of people got together:
 - Peter, Joe, Alain
- Draft problem statement published:
 - draft-adpkja-dnsop-special-names-problem-00
starting point for discussion
- Design team lead:
 - Ralph Droms
- Other team members
 - ???

draft-adpkja-dnsop-special-names-problem-00

- Published just before the cut-off date
- Personal submission from 3 authors
- Based on slides presented in Prague
- Attempt to frame problem by providing a taxonomy to analyze the problem space:
 - Architectural
 - Technical
 - Organizational

Architectural

- Name space is not just DNS
- 3 ways to “signal” alternate name space and name resolution mechanism
 - Left selector: http-onion://foo
 - Right selector: <http://foo.onion>
 - Middle selector: http:/onion/foo
- There are precedents to use the right selector
 - localhost, local, onion

Technical

- Are application suppose to check a “registry” of name space selector?
 - Should that check be dynamic or done at compile time?
 - What to do if selector is unknown?
 - Is this an application issue or a library issue?
- Same questions for name resolvers

Inter-Organizational

- “Running the code” has revealed a lack of clarity in the relationship between RFC6761 and RFC2860 (ICANN/IETF MoU)
- Note:
 - Current round of gTLD application at ICANN is closed. It did not include a possibility to “reserve” names.
 - ICANN looking at the possibility of another round with rules tbd.

IETF Process (Intra-Organizational)

- “Running the code” has shown there is a lack of clarity on the IETF process to evaluate proposals:
 - Answer to 7 questions of RFC6761
 - Technical evaluation of the alternate name resolution protocol
 - Evaluation of the proposed “string”
 - Is there a need to reserve any string, as long as it is unique, or is there any technical reason to reserve a particular string?
 - Are non-technical reasons to reserve a "specific" string acceptable?
 - Is demonstrated prior-usage of a specific string a valid rationale?
- ICANN has a process to review gTLD application to check if a name is potentially offensive, has political ramifications, etc... IETF does not have a similar process.

Way forward

(current thinking of the authors)

- 5 possible directions:
 - a) Close the 6761 registry
 - b) Constraint reserve names to mitigate cross-organizational & IETF process issues
e.g.: .ALT or xx--...
 - c) Create new full fledged IETF and/or ICANN process to reserve name
 - d) Develop a URI-based name space selector
 - http://[selector]/....
 - e) Something else entirely...