464XLAT, NAT64 & DNS64 to STD

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Goal

- 464XLAT, NAT64 and DNS64 are the most successful transition mechanisms, in terms of “users”
- Other transition mechanisms (specially IPv6-only) are all standard docs, 464XLAT not
- Is time for one more step: STD

RFC6410 (1)

- An Internet Standard is characterized by a high degree of technical maturity and by a generally held belief that the specified protocol or service provides significant benefit to the Internet community.

RFC6410 (2)

1) There are at least two independent interoperating implementations with widespread deployment and successful operational experience.
2) There are no errata against the specification that would cause a new implementation to fail to interoperate with deployed ones.
3) There are no unused features in the specification that greatly increase implementation complexity.
4) If the technology required to implement the specification requires patented or otherwise controlled technology, then the set of implementations must demonstrate at least two independent, separate and successful uses of the licensing process.

Documents to STD

- Standards Track
  - RFC6146 (NAT64)
  - RFC6147 (DNS64)
- Informational
  - RFC6877 (464XLAT)

Other Documents to STD?

- Standards Track
  - RFC6052 (IPv6 Addressing of IPv4/IPv6 Translators)
  - RFC7915 (IP/ICMP Translation Algorithm)

Next steps

- My goal:
  - version-00 (of each doc) by December/January
  - Already got some other folks interested in joining the effort
- Questions ?
- Inputs ?