IETF 77
radext   22 mar 2010

NAI-based peer discovery

Document Status

- draft-ietf-radext-dynamic-discovery-02

- Several open issues :
  - Now uses S-NAPTR... this has limitations (3)
  - Scope: include Diameter ? (4)
  - Reference RFC4282 ? (5)
  - Guidance on connection attempts IPv4 vs IPv6

S-NAPTR

- Format:
  ' nai-roaming:radius.tls '

- Lacks consortium identifier (+application?)

- Ways out:

  - ' nai-roaming.eduroam:radius.tls '
    (needs wildcard subspace @IANA)

  - ' x-eduroam:radius.tls '
    (lame)

- No way to cram in application.

" R-NAPTR "

- Own DDDS application
- ' nai-roaming:DNS-name:prot.trans:appl '

- Example:
  - nai-roaming:eduroam.org:radius.tls:acct
  - nai-roaming:3gpp.org:diam.sctp:1,3,666

- Unifies AAA protocols+transports and provides space for application IDs

RFC4282

- Document speaks of NAIs all the time
- Thus should reference RFC4282
- But RFC4282 is broken i18n-wise!

- Re-write interesting parts of it?

IPv6

- NAPTR resolution leads to any combination of A / AAAA records
  - Some stacks give IPv6 preference
  - Some stacks give IPv4 preference
  - Some stacks try both and take the winner

- Proposal: not our business, stay out of this