

Diameter Extended NAPTR

Tuesday, July 27, 2010

draft-ietf-dime-extended-naptr

Mark Jones

Jouni Korhonen

IETF 78

Maastricht, Netherlands



I-D in a nutshell



- The I-D specifies an extended RFC3403 NAPTR service field format that permits discovery of Diameter peers that support a specific Diameter application or applications:
 - "AAA+AP" <appn-id>:<app-protocol>
- Example:
 - 'AAA+AP5:diameter.sctp'
 - Means that the Diameter node in the SRV record supports the Diameter EAP Application ('5') and SCTP as the transport protocol.
- Builds on S-NAPTR usage defined in RFC3588bis-21.
- NAPTR query procedure remains backwards compatible with RFC3588.

3588bis S-NAPTR Cleanup



- 3588bis-21 is now aligned to S-NAPTR (RFC3958).
- Defines Application Service / Application Protocol mappings for Diameter and RADIUS:
 - Application Service Tag:
 - aaa
 - Application Protocol Tags:
 - diameter.[tcp|sctp|tls.tcp]
- For example, the S-NAPTR Service field entry for Diameter over SCTP would be:
 - aaa:diameter.sctp

I-D Changes Since IETF#77



- Rev -01 was published on May 4th.
- Aligned with 3588bis and S-NAPTR (RFC3958).
- Extends the Application Service tag to include the Diameter Application ID, i.e.
 - “aaa+ap” + ApplicationID
- Created entries in S-NAPTR Application Service Tag registry for the existing IETF Diameter Applications:

| Tag | Diameter Application |
|-----------|-----------------------|
| aaa+ap1 | NASREQ [RFC4005] |
| aaa+ap2 | Mobile IPv4 [RFC4004] |
| ...etc... | |

- New IETF Diameter Applications MUST specify their service tag entries in their RFCs (if required).
- Vendor-specific applications also require an RFC (of any category).

Open Issue



- No plans to extend the S-NAPTR entry further to identify Diameter peer role (client/server).
 - Add guidance on usage of S-NAPTR entries, e.g. Diameter clients use S-NAPTR to discover servers (or vice versa) but not both.
 - Define in new I-D to add peer role to S-NAPTR if required.
- Document is complete and ready for WGLC.
- No peer review ☹️

Feedback?

