Diameter Extended NAPTR

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draft-ietf-dime-extended-naptr

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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:

<table>
<thead>
<tr>
<th>Tag</th>
<th>Diameter Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa+ap1</td>
<td>NASREQ [RFC4005]</td>
</tr>
<tr>
<td>aaa+ap2</td>
<td>Mobile IPv4 [RFC4004]</td>
</tr>
<tr>
<td>…etc…</td>
<td></td>
</tr>
</tbody>
</table>

- 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?

RFCs for dummies