RESTENA

Draft-winter-radext-populating-eapidentity

-01

Draft Status

- -01 posted before the cut-off

- Softer wording on proxy problem (discard of packet is not happening in reality ; different interpretations of User-Name may still lead to routing problems)

- Q : is a separate RFC the right place to tackle this ?

Problem in a nutshell

- Core of the issue :
  - EAP methods have one EAP Identity each
  - Not necessarily in UTF-8
  - Multiple EAP methods can be configured client-side, and their configured identities can differ
  - One of them needs to be chosen as AAA Access-Request User-Name
  - The chosen one needs to be converted to UTF-8 before being sent as EAP-Response/Identity because it will be copy&pasted into a AAA User-Name with *no conversion possible at that stage*.
- Two things are underspecified
  - Where multiple EAP Identities are configured, need to iterate through all in separate EAP conversations (rejection on previous try might be because Identity is unacceptable in current auth situation)
  - Conversion between method-specific (arbitrary) encoding of EAP Identity and (UTF-8) encoding of EAP-Response/Identity MUST happen.

Where to fix ?

- Converting an EAP Identity to a AAA User-Name is
  - not a core EAP problem
  - Bigger than « just » RADIUS
  - Bigger than « just » Diameter
  - Rather a generic AAA problem
- Instead of RFC on its own, issue could be discussed in every AAA protocol's EAP section
  - RFC3579 : EAP over RADIUS (currently FYI)
  - RFC4072 : Diameter EAP Application
- With rechartering, moving RFC3579 from FYI to STD Track is in reach ; issue could be fixed with the move
- Diameter would need its own clarification/update

AAA Doctors Verdict

- AAA doctors met for AAA lunch earlier today (Tuesday 1145)

- Opinion : have a separate document, in RADEXT, BCP track, which « updates » (or informally references) the EAP spec (RFC3748), explaining that

  - EAP-Response/Identity really should be UTF-8 *if there is a change that the EAP conversation will go over AAA later*, or else face the consequences.

  - Normalise in same way as NAI document suggests.

  - Iterate through all identities.

Steps forward ?

- Feeling in the room
  - Course as suggested by AAA doctors acceptable ?
  - If not, what else to do ?