

PASSporT divert

- IETF 103 (กรุงเทพฯ) STIR WG
- Nov 2018

draft-ietf-stir-passport-divert-04

- A feature many people have asked about
 - How do we handle **retargeting**?
 - To header field of SIP is signed by PASSporT
 - Original SIP header value may be altered with retargeting
 - Looks like a cut-and-paste attack to the destination
- We define a special PASSporT to track retargets
 - With its own “ppt” – “**div**” for “divert”
- Different from History-Info and Diversion?
 - Yes, as it is signed by the original destination domain
 - Moreover, it only captures “major” changes
 - Thanks to our canonicalization procedures

What's New in -04?

- Now nesting is a MUST
 - For in-bound and OOB
 - Note that there still can be multiple Identity headers for in-band, but “div” no longer will lead a new one
 - Just a longer one...
- Made “opt” independent of “div”
 - Just in case we want to nest PASSporTs for some other extension
- One more thing...

Pre-div in SHAKEN

- Signing the R-URI instead of the To
 - Why? To capture retargeting, as in the freephone case, where the original called number is in the To but the geographical number is in the R-URI
 - Would this change STIR? Yes, STIR expects you to sign the To
 - A gap opens where an attack could choose any original called number, effectively, and the destination would trust that redirection had occurred
- Is this a fix we should make? Alternatives?

Issues

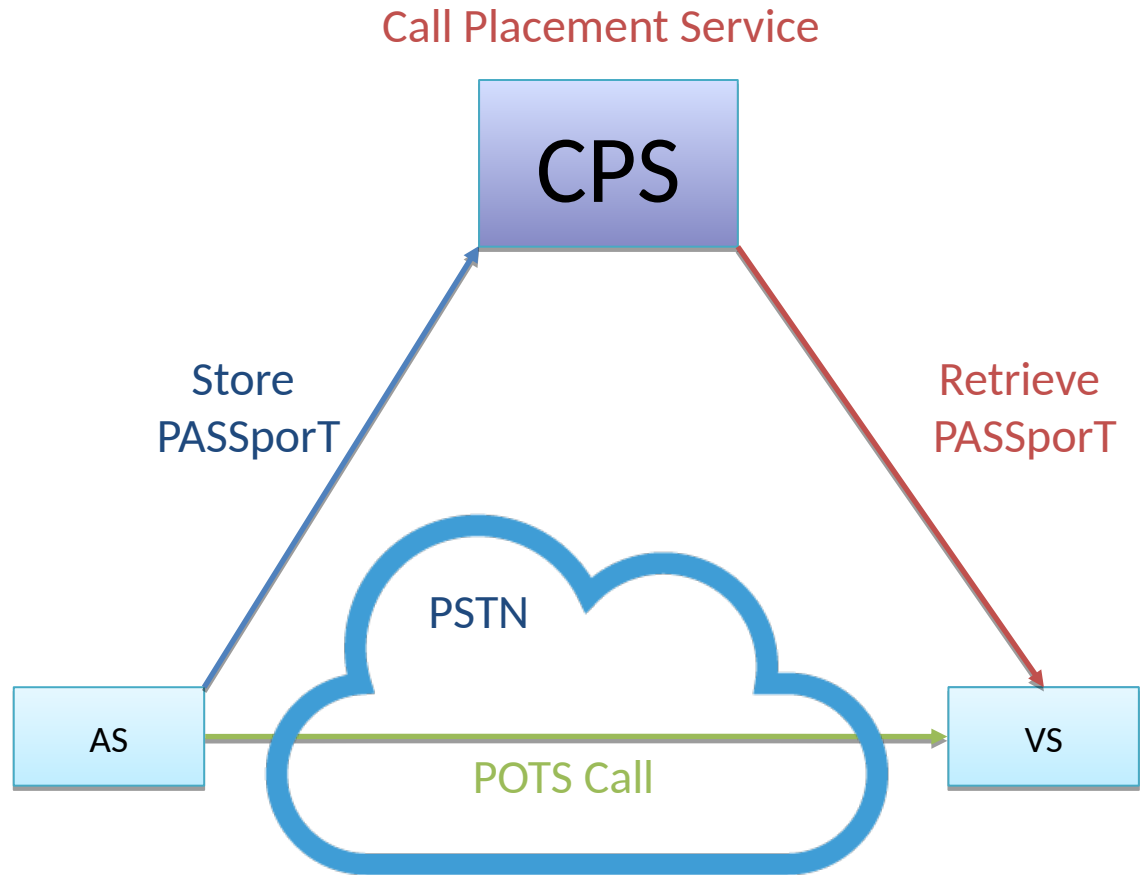
- This is pretty close
 - ATIS has kicked the tires on this one, hard
 - Also see Mary's H-I call flows doc
- Need some more editorial reviews?
 - Thanks Eric
- Last call time, methinks

draft-ietf-stir-oob

Out of Band

- STIR WG IETF 103 (กรุงเทพฯ)
- July 2018

Basic STIR Out of Band



Authentication and Verification Services are not just end-user devices

Next Steps

- In WGLC
- Need some editorial/content review, though
- Someone read it?