PASSporT divert

IETF 104 (Praha) STIR WG
Mar 2019
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 -05?

• Split into “div” and “div-o”
  – “div” for in-band, non-nested
    • Note that there can be multiple Identity headers for in-band “opt” remains independent of “div”
  – “div-o” for nested, probably for out-of-band

• Also really beefed up the AS and VS text
  – There are now detailed descriptions of how you process these objects (thanks ATIS!)

• Pretty extensive overhaul, eyes needed
An Aside: quoted PPTs

• Getting “div” through has raised consistency issues about quoting of PASSporT types
  – Should the Identity header parameter be
    • ;div=ppt       or
    • ;div="ppt"

• RFC8224 not clear about this, as it says it needs to be quoted, but the ABNF has ”token” with no DQUOTE
  – Probably need to errata this in RFC8224
  – Also, clarify that the info parameter value is not quoted
Issues

• Second WGLC surely necessary

• Advance!
draft-ietf-stir-oob
Out of Band

STIR WG IETF 103 Praha
Mar 2019
Basic STIR Out of Band

Authentication and Verification Services are not just end-user devices
What’s new in -04

• Fixed bugs left over from previous revision
  – Also remedied editorial errors, thanks Robert!
• Added enterprise use case
• Aligned with new version of “div” (“div-o”)
• Slight reorganization
  – Hopefully better separates solution sketch from architecture and framework
Next Steps

• Maybe a second WGLC?
  – Changes are not too drastic, cleaned up a lot of the review comments

• Declare victory