stir-cnam

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Twofold STIR extensibility model

• First, “ppt”
  – For adding claims beyond the bare minimum
    • Any new claims signed in addition to the baseline
  – Requires normal JWS IANA registration procedures for claims

• Second, defining new MIME types
  – For eliminating/replacing the bare minimum JWS claims
    • Say, if you wanted a PASSporT app that used neither otn/dtn nor ouri/duri
      • We have heard some interest in this
  – Requires MIME IANA registration procedures
Testing extensibility

• Before we ship rfc4474bis/PASSporT
  – Be nice to know if the extensibility model works
• In this case, the “ppt” extensibility mechanism
  – We could do a separate dry run for a new MIME type
• Added a single new claim for display-name
  – “cna” – short for CNAM
  – Basically captures display-name in SIP
  – This is a first-party attestation: originating auth service supplies the data
• Yes, we know display-name is not in STIR’s scope
  – Although... CNIT? Anyone?
The “cna” extension

Header:

```json
{
    "typ":"passport",
    "alg":"RS256",
    "ppt":"cna",
    "x5u":"https://www.example.com/cert.pkx"
}
```

Claims:

```json
{
    "otn":"12155551212",
    "dtn":"12155551213",
    "cna":"12155551213",
    "iat": "1443208345"
}
```
Elaborating on “cna”

• Adding more claims that optionally appear with “cna” is signaled in “ppt”
  – Could include information about organizations
  – Location, potentially
    • Likely be reference rather than by value
  – Other rich data associated with the originating persona

• If there’s interest, we could go there
  – Maybe in STIR after a recharter, or a new WG
Should we test MIME as well?

• One potential MIIME development would be third-party “cna”
  – Attestation is independent of the bare minimum, is solely about the originating number/name
    • Possibly date too
• This Identity header could be added by an intermediary auth service
  – Even an intermediary associating with the terminating administrative domain of the call
• Some CNAM functions work this way today
  – We could specify this to show another use of the extensibility mechanisms in PASSporT
Sanity checking

• Mostly, though, we want to make sure people understand extensibility for STIR
  – If we’re getting it wrong, this is the time to say
• Not immediately seeking WG status for this doc
  – Let’s finish the key work on our plate first