

# 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:

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

## Claims:

```
{ "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