

Use cases for RATS WG for October 8, 2019 – Virtual Interim draft-richardson-rats-usecases-05

DIFF:

<https://www.ietf.org/rfcdiff?url2=draft-richardson-rats-usecases-05>

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Where are we

- side meeting morning of 2019-07-25
 - much difficulty turning the discussion into concrete changes to the document.
 - seems like more heat than light in discussion
 - still struggling with impact to use case document
 - would like to consider a “do-over”
- have included TEEP use case
- have anticipated Architecture Document will add
 - passport category
 - background-check category

Template for use cases

- Each Use case now includes template
 - Use case name: Twelve Monkeys
 - Who will use it: Army of the Twelve Monkeys SDO
 - Attesting Party: James Cole
 - Relying Party: Dr. Kathryn Reilly
 - Attestation Type: {passport, background-check}
 - Description: James Cole must convince Dr. Reilly he is from the future, and not insane.
 - Claims used:
 - OEM Identity
 - Age Claim
 - Location Claim
 - Uptime Claim

Observations so far:

Attestation Type (passport/background-check)

- 5.1. Device Capabilities/Firmware Attestation (4 subcases passport, 2 subcases, background)
 - 5.2. Hardware resiliency / watchdogs
 - 5.3. IETF TEEP WG use case
 - 5.4. Confidential Machine Learning (ML) model
 - 5.5. Critical infrastructure (one subcase)
 - 5.6. Virtualized multi-tenant hosts
 - 5.7. Cryptographic Key Attestation (3 subcases)
 - 5.8. Geographic attestation
 - 5.9. Connectivity attestation
 - 5.10. Component connectivity attestation
 - 5.11. Device provenance attestation
 - 5.12. DNS privacy policy (new)
- 4 are background check
 - 7 are passport
 - 8 are TBD
 - might be hard to define without more details
 - **observed that some supposed “duplicates” differ in type!**

Suggested Next steps

- 1) Detail passport/background situation in... Architecture Draft?!?
 - convince ourselves that there isn't a third case
- 2) Argue over passport/background check for each case.
 - I. start considering what might be standard claims, start putting them somewhere.
 - II. Argue which use cases invoke which claims, and whether the uses of the claims are sufficiently compatible that they are the same claim.