On the Different Kinds of Rodents in the IETF Ecosystem

Gathering at the RATS Bar BoF

July 2018

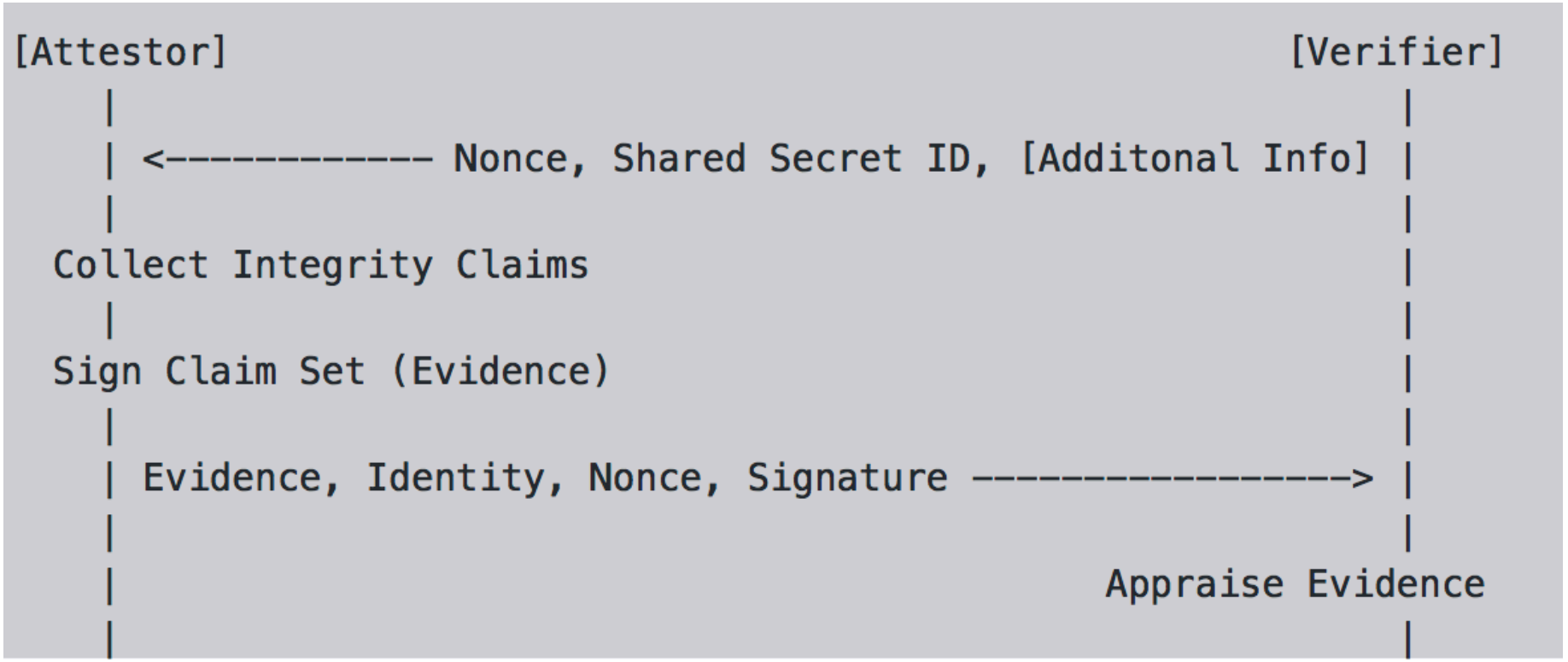
TIME & PLACE:

Thursday, **July 19th**
7pm (after Afternoon Session III)
Room: **Square Dorchester**

On Remote Attestation (RA)

- **Remote** Attestation is providing cryptographic evidence (proof) that a system entity is a trusted and trustworthy system (RFC4949) to other entities via an interconnect.
- A set of basic, related activity definitions:
  - Attestation: An object integrity authentication facilitated via the creation of a claim about the properties of an Attestor, such that the claim can be used as evidence
  - Conveyance: The transfer of evidence from the Attestor to the Verifier via an Interconnect.
  - Verification: The appraisal of evidence by evaluating it against declarative guidance
  - Remote Attestation: A procedure composed of the activities attestation, conveyance and verification
- Though we are starting to think about a better, more accurate and less (ab)used term
  - Related with a measurement of system health and trustworthiness

A General Model for Remote Attestation



Here We Stand

- IETF Reference Terminology for Remote Attestation Procedures (RATS)
  - https://datatracker.ietf.org/doc/draft-birkholz-attestation-terminology/
- Current Topics that are work in progress:
  - Different flavors of Root of Trust
  - Procedures to proof freshness
  - How to include terms as Claim and Claimant that will be in sync with Concise Identities
  - Binding of differentiations wrt to Principal/Issuer, and "Possessor“
  - More flexible binding of Roles and Actions/Acitivities
- Platforms for discussing and progressing general RA matters
  - https://www.ietf.org/mailman/listinfo/rats
  - https://github.com/ietf-rats
- We believe this is a relevant matter for IETF
- If you are interested, join us on **Thu** 19th **7:15pm** in **Square Dorchester**