Remote ATtestation ProcedureS (RATS) WG

IET 104, Thursday, March 28, 2019

Chairs:

Kathleen Moriarty, Nancy Cam-Winget, Ned Smith

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:
• BCP 9 (Internet Standards Process)
• BCP 25 (Working Group processes)
• BCP 25 (Anti-Harassment Procedures)
• BCP 54 (Code of Conduct)
• BCP 78 (Copyright)
• BCP 79 (Patents, Participation)
• https://www.ietf.org/privacy-policy/ (Privacy Policy)

RATS agenda

- Agenda bash
- RATS Charter overview/milestones – Chairs (15min)
- Use Cases (draft-richardson-rats-usecases) – Michael Richardson (10min)
- Architecture (draft-birkholz-rats-architecture) – Henk Birkholz (15min)
- Reference Interaction Model (draft-birkholz-rats-reference-interaction-model) – Henk Birkholz (5 min)
- YANG model (draft-birkholz-rats-basic-yang-module) – Henk Birkholz (5 min)
- TUDA (draft-birkholz-rats-tuda) – Henk Birkholz (10 min)
- Token Bind Attestation (draft-mandyam-tokbind-attest) – Giri Mandyam (10min)
- EAT (draft-mandyam-rats-eat) – Laurence Lundblade (15min)
- Claims Definition/Information Model – Laurence Lundblade (25min)
- AOB (5min)

Administrative Tasks

- Bluesheets
- We need volunteers:
  - Two note takers
  - One jabber scribe

- Jabber: xmpp:rats@jabber.ietf.org?join
- MeetEcho: https://www.meetecho.com/ietf104/rats
- Etherpad: https://etherpad.tools.ietf.org/p/notes-ietf-104-rats

Charter Overview

- To improve the confidence in a system component's trustworthiness, a relying party may require evidence about:
  - System component identity, integrity or configuration,
  - Composition of system components, nested components and Roots-of-trust,
  - Manufacturing and assertion/claim origination or provenance,
  - Operational state and measurements of steps leading to operational state, or
  - Factors that could influence trust decisions.
- Goals
  - Focus on interoperable attestation evidence formats and conveyance
  - Cooperate with other IETF WGs: SACM, SUIT, TEEP
  - Evaluate prior work: IETF NEA, TCG, FIDO Alliance, Android Keystore …
- Out-of-scope
  - Definition, use and conveyance of expected values, thresholds and procedures for evaluation of attestation evidence.

Program of Work

- Specify use cases for remote attestation
- Specify terminology and architecture that enables attestation
  - May include: system security model for signing keys, system components, component providers and relying authorities
- Standardize an information model for assertions/claims about trustworthiness
- Standardize data models that implement and secure the information model (e.g. CBOR Web Token [RFC8392], JSON Web Token [RFC7519])
- Standardize interoperable protocols to securely convey assertions/claims

Milestones

March 2019

    Begin work on use case documentation (may not be published as an RFC)
    Call for adoption on EAT draft.
    Call for adoption on Tokkbind draft
    Call for adoption on Interaction Model draft
    Call for adoption on Yang Module draft
    Call for adoption on TUDA draft

July 2019

    Call for adoption on Architecture draft. (Note: architecture draft will contain relationship between RATS documents.)

November 2019

    Call for adoption on Claim format draft.

March 2020

    Submit EAT draft to IESG for publication.
    Submit Tokkbind draft to IESG for publication.
    Submit Interaction Models draft to IESG for publication.
    Submit Yang Module draft to IESG for publication.
    Submit TUDA draft to IESG for publication.

November 2020   Submit Claim format draft to IESG for publication.

July 2021   Submit Architecture draft to IESG for publication.