TPM-based Network Device Remote Integrity Verification (RIV)
draft-ietf-rats-tpm-based-network-device-attest-04

Guy C. Fedorkow {gfedorkow@juniper.de},
Jessica Fitzgerald McKay {jmfitz2@cyber.nsa.gov},
Eric Voit {evoit@cisco.com}

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Purpose & Scope (recap)

• Context
  • Remote Attestation of network equipment devices can assure administrators of the integrity of software and configuration of their devices.
  • Adding Remote Attestation as standardized procedures significantly reduces the threshold of adoption.

• Contribution
  • The RIV draft specifies those procedures

WG Last Call closed Oct 12, 2020
with comments from seven reviewers
Relationship to other RATS drafts

**RATS Language**
- draft-ietf-rats-architecture
  - Terminology
  - Topological models
  - Timing definitions

**Routers / Switches**

**Profile**
- draft-ietf-rats-tpm-based-network-device-attest
  - Use case
  - Operational prerequisites
  - Call flow
  - Evidence evaluation

**Interface Specification**

**Definition operational pre-requisites for**
- draft-ietf-rats-yang-tpm-charra
  - YANG definitions & RPCs for Attester

**Attestation Evidence via Telemetry**
- draft-birkholz-rats-network-device-subscription
  - Provably fresh events
  - RFC-8639 based YANG subscriptions

**Improved reaction speed (Optional)**
- draft-voit-rats-trustworthy-path-routing
  - Trustworthiness Vector
  - Stamped Passport definition

Enables WG discussion via shared context

Peer Router Appraisal

**draft-ietf-rats-reference-interaction-models**
- Interaction models
Issues Addressed

Overall document:
• Addressed about 700 lines of comments from WGLC from seven reviewers
• Mostly clarifications and adjustments to infelicitous wording
• Expect -05 version soon
• New Definitions! (aligned with RATS Arch)

- Endorser – signs identity and attestation certificates
- Reference Value Provider – signs Reference Values

Reference Integrity Measurements
Golden Values
Golden Measurements
Known Good Values

Reference Values
Next

• Finish Editing

• Any other questions / concerns ?