Remote Attestation with Multiple Verifiers

draft-deshpande-rats-multi-verifier-02 - Remote Attestation with Multiple Verifiers

IETF 123
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Recap of RFC9334: **Remote ATtestation procedureS (RATS) Architecture**

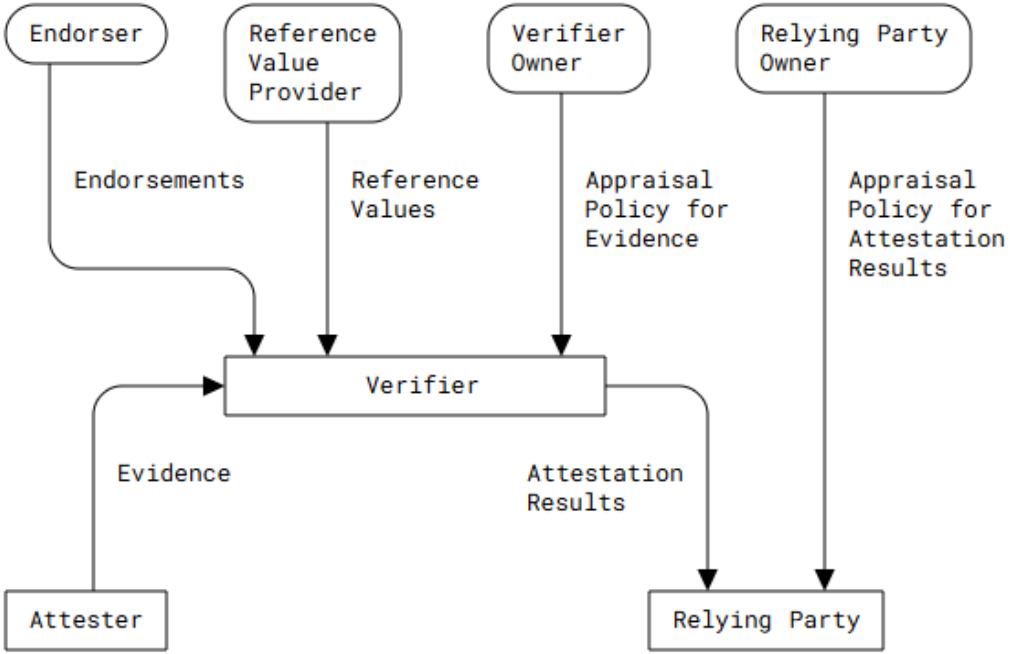

Fig. 1 RATS architecture in RFC9334

Conceptually only one Verifier

In Remote ATtestation procedureS (RATS), one peer (the **"Attester")** produces believable information about itself ("Evidence") to enable a remote peer (the **"Relying Party")** to decide whether or not to consider that Attester a trustworthy peer. Remote attestation procedures are facilitated by an additional vital party (the **"Verifier**").
[RFC9334]

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What happens if Attester is Composite?

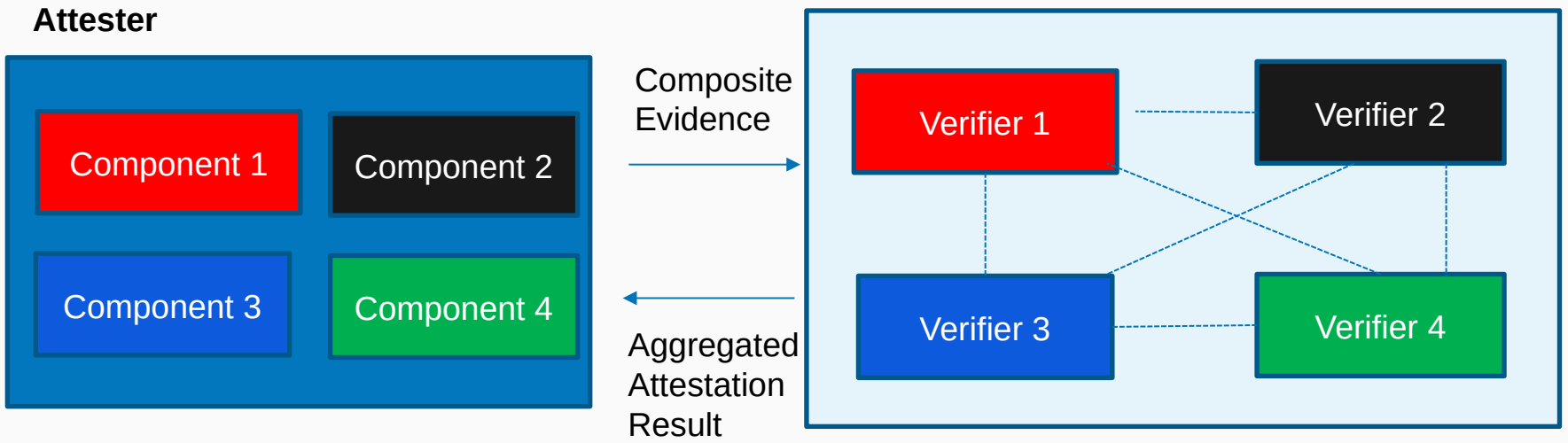

Fig. 2: Attestation for Attester with multi components: OS, CPU, GPU, sw, etc

Need for multiple Verifiers?

- Verifiers from different vendors
- Verifiers with different trust model and capability
- ...

Topologies to connect Verifiers

- Hierarchical model
- Cascade model
- Hybrid model

Please join us for more discussion

- Draft:
  draft-deshpande-rats-multi-verifier-02 - Remote Attestation with Multiple Verifiers
- Github: ietf-rats/draft-deshpande-multi-verifier
- Side meeting: Remote Attestation Challenges in Complex Scenarios (Room: Segovia, Day/Time: 2025-07-22 (Tuesday) 16:00-17:00,
  16:00-17:00: Remote Attestation Challenges in Complex Scenarios on IETF 123 Side Meeting Scheduling | Trello
)
- RATS WG session 2 (Room: Patio 2, Day/Time: 2025-07-25 12:30-14:30 Remote Attestation with Multiple Verifiers, Agenda IETF123: rats,
  draft-deshpande-rats-multi-verifier-02 - Remote Attestation with Multiple Verifiers)
- Topics: Use cases, architectural design, security and privacy considerations,

Thank you