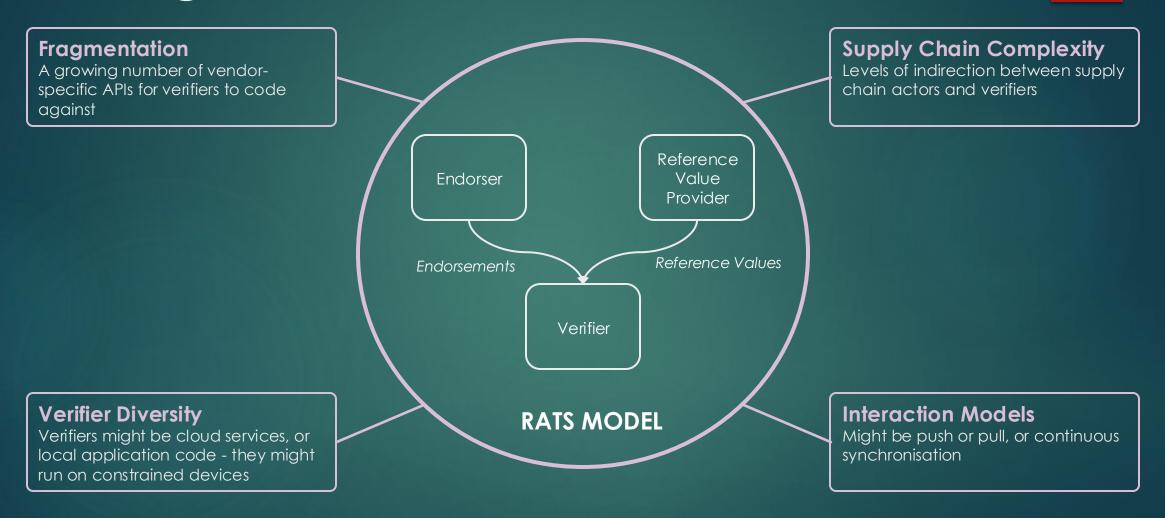
CoSERV Revisited

CONCISE SELECTOR FOR ENDORSEMENTS AND REFERENCE VALUES UPDATE AND DISCUSSION CCC ATTESTATION SIG MEETING 2025-07-15

Background



The idealized RATS model hides some real-world challenges. How can we address these and help the industry to harmonize?

CoSERV Overview

A common query language for RATS artifacts, based on CBOR and CoRIM





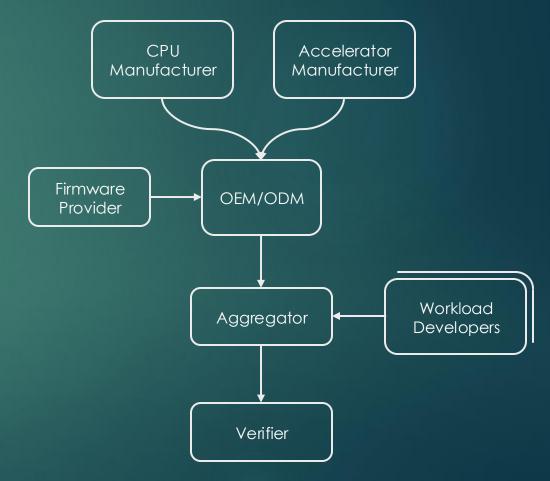
Reference Values Endorsed Values Supporting flexible interactions and transports







Supporting real-world supply chain complexity



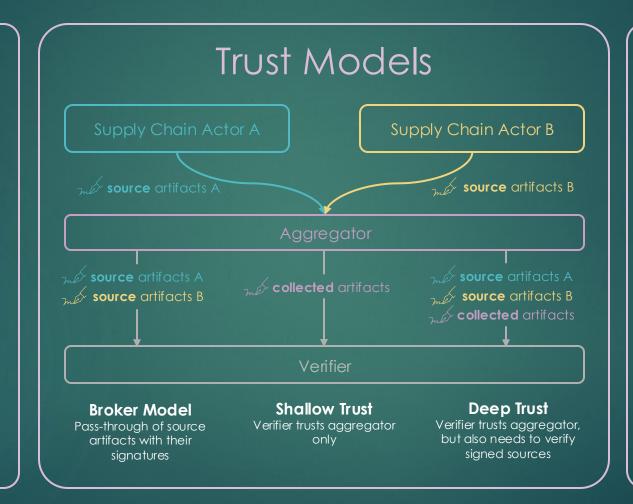
IETF Draft Updates

Welcome!

Shefali **Kamal** FUJITSU

Henk **Birkholz** Fraunhofer Sit

Joining as IETF draft co-authors



Stateful Environments

Aspects of attester state can now be captured as measurements in a CoSERV query

Allows the provider to produce the correct artifacts in respect of that state

e.g. TCB versions needed to obtain AMD SEV-SNP certificate

Implementation Updates (Veraison)

- CoSERV CBOR data model implemented to latest specification in mainline <u>corim</u> library
- Veraison <u>coserv</u> branch supports endorsement distribution HTTP endpoint:

GET https://<veraison-host>:11443/endorsement-distribution/v1/coserv/<base64-encoded-coserv-query>

- Trust Anchors and Reference Values can be queried from Veraison's internal data stores via existing plug-in mechanism
- ▶ New "proxy" plug-ins allow artifacts to be retrieved from external services
- Proxy plug-ins implemented for NVIDIA RIM service and AMD KDS
- ▶ This will be presented as a hackathon project at IETF-123 in Madrid

Resources

- ► CoSERV presentation at IETF RATS Interim Meeting 2025-05-02
- ► CoSERV presentation at CCC Attestation SIG Meeting 2025-05-17
- Detailed slides
- ▶ CoSERV IETF draft
- ► <u>IETF-123 hackathon project</u>
- Veraison CoSERV development branch

Questions/Discussion