



Efficient, portable And Secure orchesTration for reliable servICes

T3.3

Remote Attestation.

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T3.3: Remote Attestation

Lead: THD; Participants: ERF, UVC, AAL, LUN

Objective:

Develop and enhance **remote attestation mechanisms** for **TEEs** to establish trust between remote entities and ensure **a secure, uncompromised environment**.

Key Focus Areas:

- **Leverage standardisation efforts** (e.g., RATS) for compatibility and interoperability
- **Strengthen security & robustness** using hardware root of trust and cryptographic mechanisms
- **Explore lightweight, efficient protocols** for distributed and heterogeneous systems

This work will enhance the reliability and scalability of **Confidential Computing (CC)** in modern infrastructures.

T3.3: Remote Attestation

State of the Art Analysis: Remote Attestation



- **Explored Implementations in:**
 - **TEEs** (e.g., AMD SEV-SNP, Intel SGX & TDX, Keystone, COVE)
 - **Cloud Platforms** (e.g., Microsoft Azure, AWS, Google Cloud Platform)
 - **Open-Source Projects** (e.g., OpenTitan, Enarx, Confidential Computing Consortium)



Enhancement Exploration (Post-SOTA Analysis)

- **Strengthening security & robustness** of attestation mechanisms
- **Developing efficient & lightweight** attestation protocols
- **Defining a Hardware Abstraction Layer** for WASM runtime
 - Ensures **interoperability** across confidential computing environments
 - Supports **large-scale deployment** of secure attestation processes



Thank you for your attention!

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