Technical Advisory Council (TAC) Meeting

Sep 18, 2025

CONFIDENTIAL COMPUTING CONSORTIUM

This meeting is being recorded.

The Confidential Computing Consortium

A community focused on open source licensed projects securing DATA IN USE & accelerating the adoption of Confidential Computing through open collaboration

Every member is welcome; every project meeting our criteria is welcome.
We are a transparent, collaborative community.

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone.

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Agenda

1. Welcome, roll call, introduce any first-time attendees
2. Old Business - last 2 meetings canceled
3. Announcements
4. New Business
    a. Annual Project review
        - Veraison by Thomas & Simon
    b. Paul's OKR update
    c. TikTok's proposed Research Fund
5. Future Business
    a. Next meeting agenda
        - Dan's rotating (co-)chair proposal
    b. GRC SIG attendance

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Roll Call

Quorum requires **5** or more voting reps:

* *TAC co-chair*

Member	Representative / Alternate	Email
AMD	Nathaniel McCallum / David Kaplan	Nathaniel.McCallum@amd.com
Arm	Paul Howard	Paul.Howard@arm.com
Google	Catherine Zhang	cxzhang@google.com
Huawei	Wu Yongzheng	Wu.Yongzheng@huawei.com
Intel	Raynor Scott , Alternate -Simon Johnson	scott.raynor@intel.com, simon.p.johnson@intel.com
Meta Platforms	Henry Wang / Kevin Hui	kevinhui@meta.com
Microsoft	Alec Fernandez	alfernandez@microsoft.com
Nvidia	Fritz Alder / Dan Middleton	falder@nvidia.com
Red Hat	Yash Mankad* / Ram Pai	ymankad@redhat.com
TikTok	Mingshen Sun	mingshen.sun@tiktok.com
Shielded Technologies	Bob Blessing-Hartley	bob.blessing-hartley@shielded.io

Welcome New Community Members

New to the community?

Haven’t introduced yourself at least twice?

Let us know

- your name, pronouns
- where you are joining from
- your main Confidential Computing interest

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Old Business

1. Meeting after ~6 weeks (8/21 and 9/4 meetings were canceled)
2. Dstack project proposal - approved!
3. Glossary - Deferred

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Announcements

- Veraison mentorship is now live:
  - https://mentorship.lfx.linuxfoundation.org/project/a779bae4-dc15-402b-ba2d-3fda6523c3ce

- Compliance page is now live: https://confidentialcomputing.io/resources/compliance/

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Annual Project Review: **Veraison** by Simon Frost

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2025 TAC Objective Review:

Arm's Ecosystem OKR by Paul Howard

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Ecosystem OKR 2025

Objective: We have helped to educate developer communities on confidential computing concepts

Key Results:

- Reusable software components are available in open-source, enabling developers to gain **hands-on** familiarity with core concepts **such as attestation**, in a digestible and approachable way
- Presentation materials are available (documents, videos, tutorials) to provide guided walk-throughs of how to build/run demonstrations

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Focus on Attestation Because…

- It's a defining characteristic of confidential computing, therefore both ubiquitous and critical - an essential thing to understand
- It's complicated!
- Spans multiple components with different roles and interactions
- Happens at different times
  - Boot, workload deployment, data delivery, secure channel establishment
- Is fragmented, but with standards emerging
- Conceptual overviews exist, but then there's a big jump up to coding in production systems
- We have Veraison! 🩷

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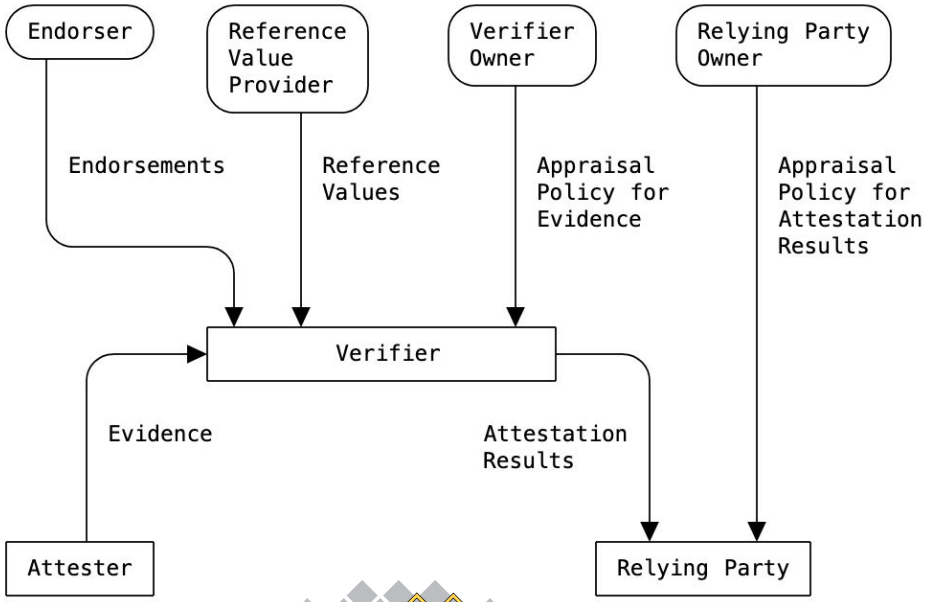
RATS Architecture as an Educational Model



- Generic and agnostic model based on abstract roles and interactions
- Establishes a common language and thought model
- Nurtured by the RATS Working Group within IETF, hence also the basis for standards
- Looks uniform at all scales and for all use cases
- But… it's only a model, it's not an implementation

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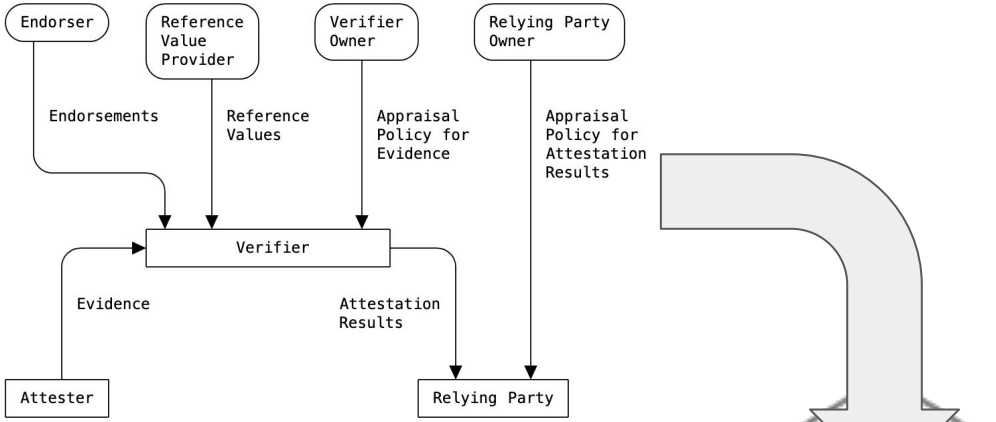
“RATS in a Box” Developer Experiences



VERAISON

- Guided, end-to-end demonstrations
- Reusable open-source components, optimized for learning
- Uniform verifier back-end based on Veraison
- Convenient packaging and minimal dependencies
- No special hardware needed - supports software emulation
- Architecture neutral

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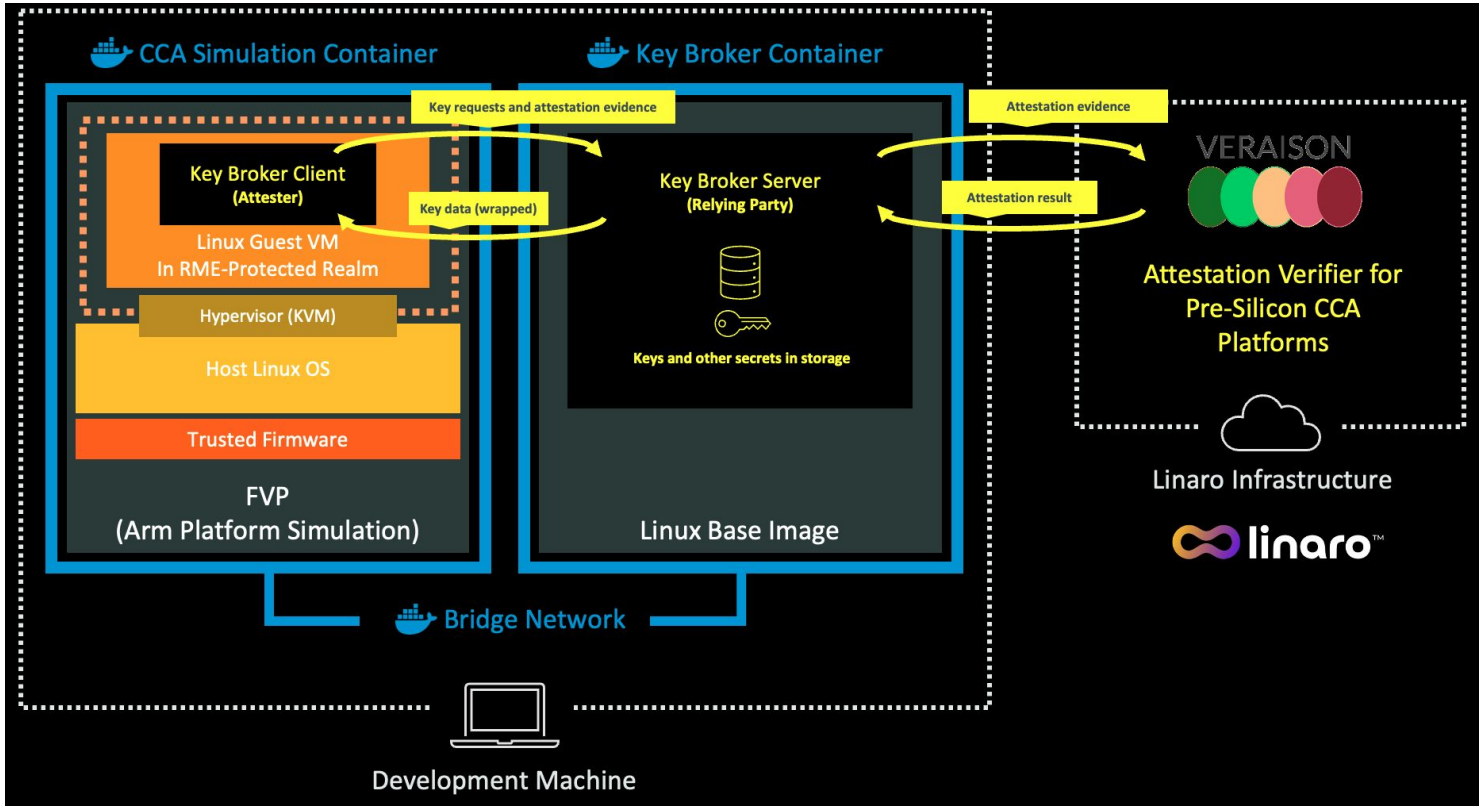
Key Broker Example



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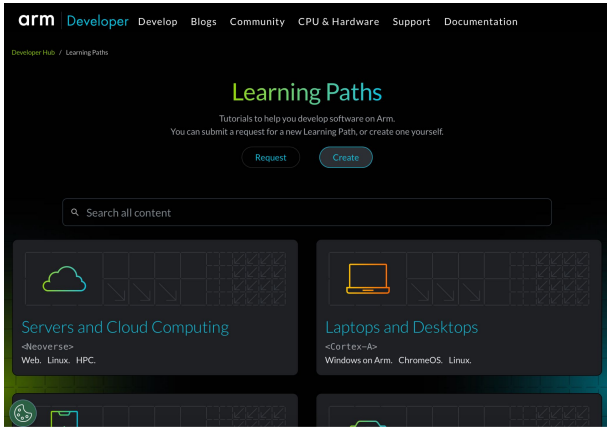
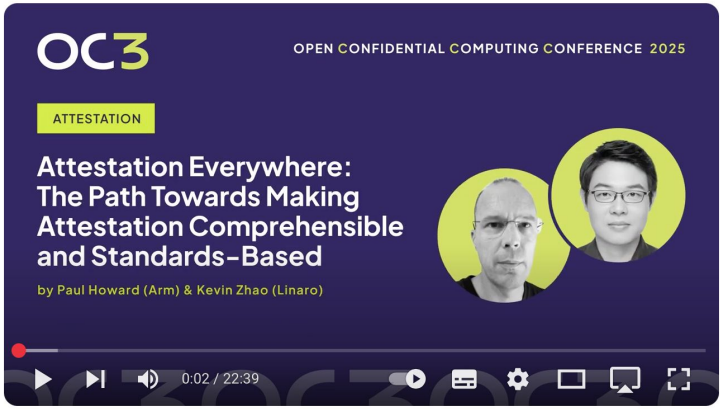
Spreading the Word



https://learn.arm.com/



https://www.youtube.com/watch?v=c4IyaG-lTug

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Onwards

- More attestation patterns
  - Secure channel establishment (attested TLS)
  - Encrypted disk boot
  - Virtual TPMs
- Non-attestation concepts
- Contribute, contribute, contribute!!

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Bonus Content: Endorsement Distribution Standard (Proposed)

Objective: We evolved understanding of attestation and aligned on protocols and formats (e.g., **standardize the protocols in IETF RATS** and TLS WGs and coordinate with IRTF UFMRG for formal analysis)

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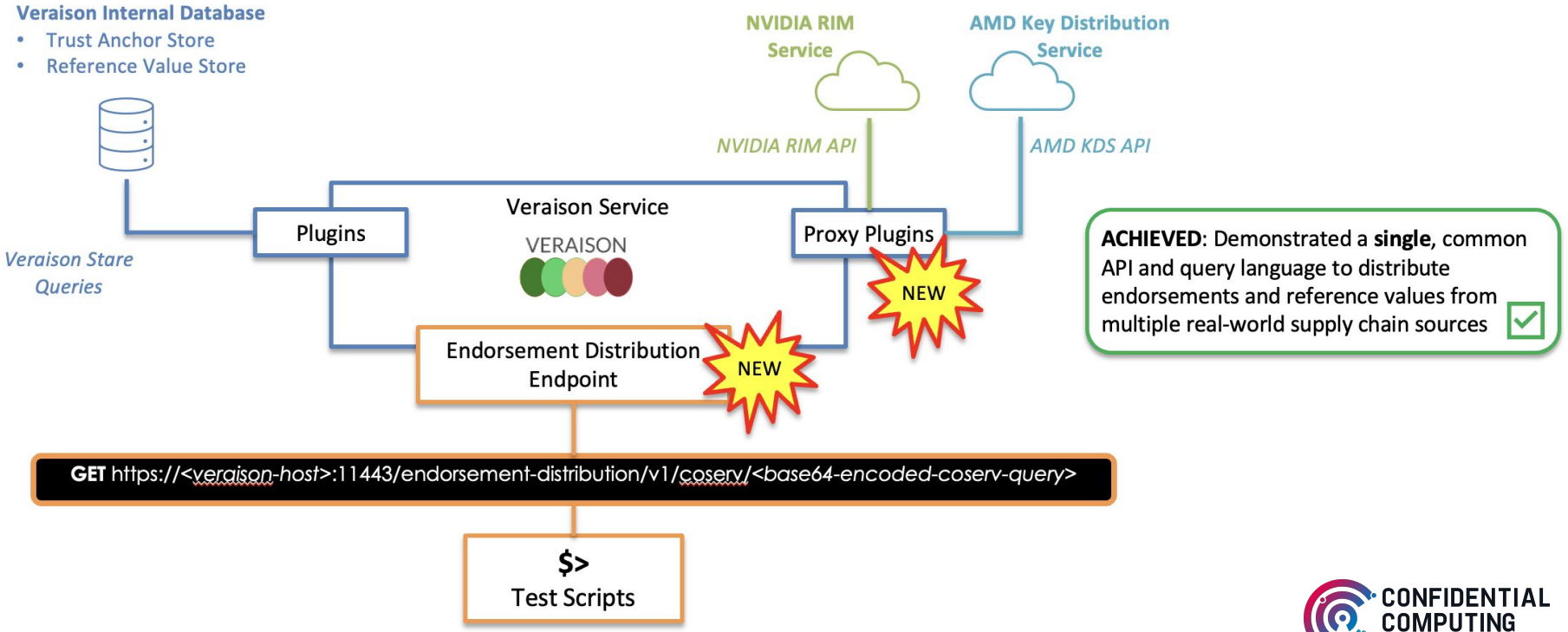
IETF-123 Hackathon in Madrid - with Veraison!



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Learn More

- CoSERV IETF draft: https://datatracker.ietf.org/doc/draft-howard-rats-coserv/
- Attestation SIG Presentation: https://youtu.be/MGRzP722EFg?si=UwXCuepVvmTnvrHs&t=942
- Veraison Dev Branch: https://github.com/veraison/services/tree/coserv

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TAC discussion:

Research Fund Proposal for Academic projects

Confidential Computing Consortium Research Fund

Topic Schedule 2025

Date	Rotating Chair	CCC Project Topic	TAC Goal Topic
2025-09-18	~~AMD~~ Yash	Veraison	~~AMD~~ Arm
2025-10-02	Dan / Yash		AMD / Google

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Future Business

1. Rotating co-leads for TAC meetings & OKR reviews
    a. Light agenda for rest of the year; we should do OKR reviews and CY26 planning

Date	Rotating Chair	CCC Project Topic	TAC Goal Topic
2025-09-18	Arm	Veraison	Arm OKR
2025-10-02	AMD	Conf AI SIG discussion / TWI + attestation discussion	AMD OKR
2025-10-16	Google	Attestation SIG update ?	Google OKR
2025-10-30	Huawei	Islet	Huawei OKR
2025-11-13	Intel		Intel OKR
2025-11-27	Microsoft		Microsoft OKR
2025-12-11	Nvidia		Nvidia OKR

2. GRC SIG Attendance
    a. Dedicated GRC topic at the TAC meeting
3. Confidential AI SIG discussion at next TAC call

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Projects

Project	Last Annual Review	Next Annual Review	Next Annual Review Date
Certifier Framework	2024-01-17	Q1	2025-03-06
Coconut-SVSM	2024-04-17	Q2	2025-06-12
Enarx	2024-04-04	Q2	2025-04-03
Gramine	2023-02-09	Q1	2025-04-17
Islet	2024-11-14	Q4	2025-10-30
Keystone	2024-03-07	Q1	2025-05-29
ManaTEE	2024-07-25	Q3	2025-07-10
Occlum	2024-03-21	Q1	2025-3-20
OE SDK	2024-04-18	Q2	2025-06-26
SPDM-RS	2024-01-17	Q1	2025-05-15
Veracruz	2023-01-12	Q1	2025-05-01
Veraison	2024-08-08	Q3	2025-09-04
VirTEE	2024-01-17	Q1	2025-3-20

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SIGs

SIG / WG	Last Annual Review	Next Annual Review	Liaison
CCC-Attestation SIG	2022-04-21		Dan Middleton
GRC SIG	Quarterly 2023-10-08		Mark Novak
Kernel SIG	Launched Q1'24		Catherine Zhang - tentative

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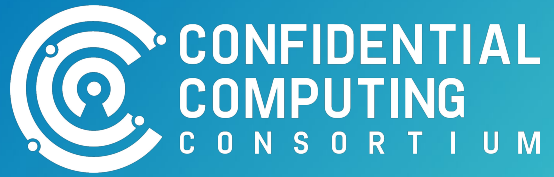
Thank You



TAC Maintenance

Glossary

https://github.com/confidential-computing/glossary

Minutes

https://github.com/confidential-computing/governance/pulls

TAC 2025 Objectives

- Projects
  - All - Project Liaisons
  - Mingshen
  - Catherine
- Ecosystem
  - Alec
  - Nathaniel
  - Paul
- Community
  - Yash
  - Fritz
  - Mingshen

TBD:

- Howard
- Henry / Kevin

https://docs.google.com/document/d/1pa6XrOUhkIEFIP1MlLtn_84OjxV12L5hogch0shJkaA/edit?tab=t.0

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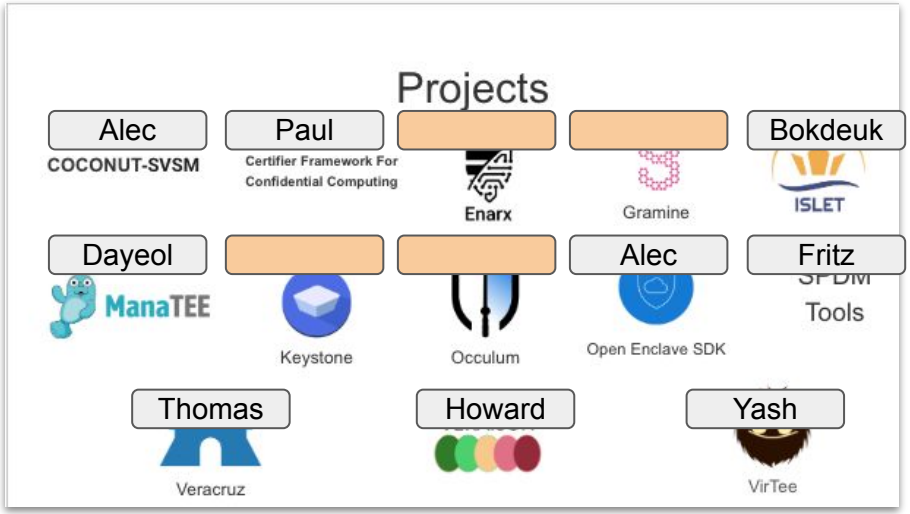
Project Liaisons

Nathaniel
Henry
Bob



Dan	Catherine	Mark	Mark
Attestation	Kernel	GRC	TWI