

The Security Evaluation Standard for IoT Platforms (SESIP): Quantifying the Benefits of Re-Use and Mapping to ETSI EN 303 645

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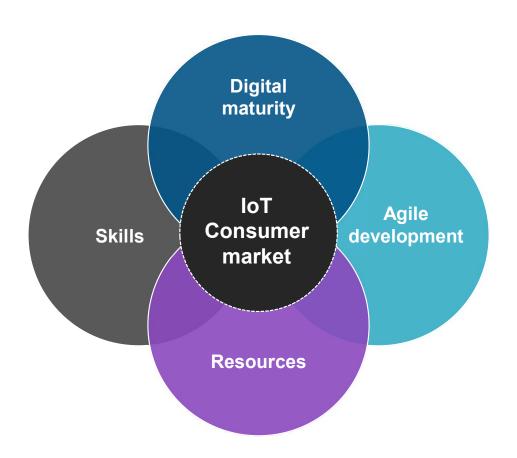


14/10/2022

Agenda Slide

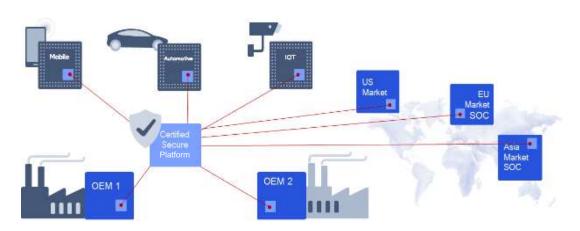
- 1 The consumer IoT market
- 2 SESIP
- 3 EN303645 uses cases
- 4 Profiles and mappings
- 5 Additional works
- 6 Beyond 303645

The IoT consumer market: the coffee making machine

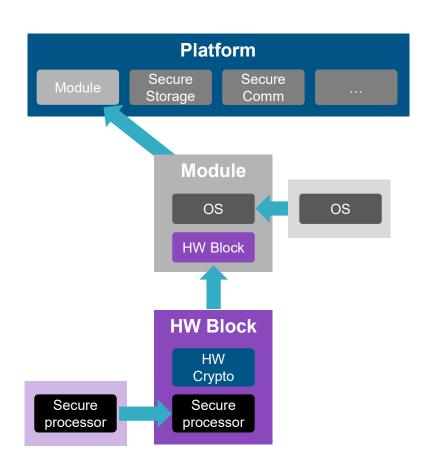


Security Evaluation Standard for IoT Platforms

- Re-integration of component in several products: highly scalable
- Addressing geographical and vertical fragmentation of devices security requirements



Inherence, composition and reusability





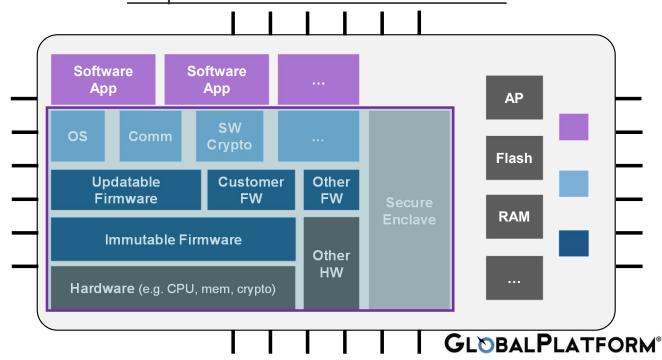
SESIP approach

Security Evaluation Standard for IoT Platforms

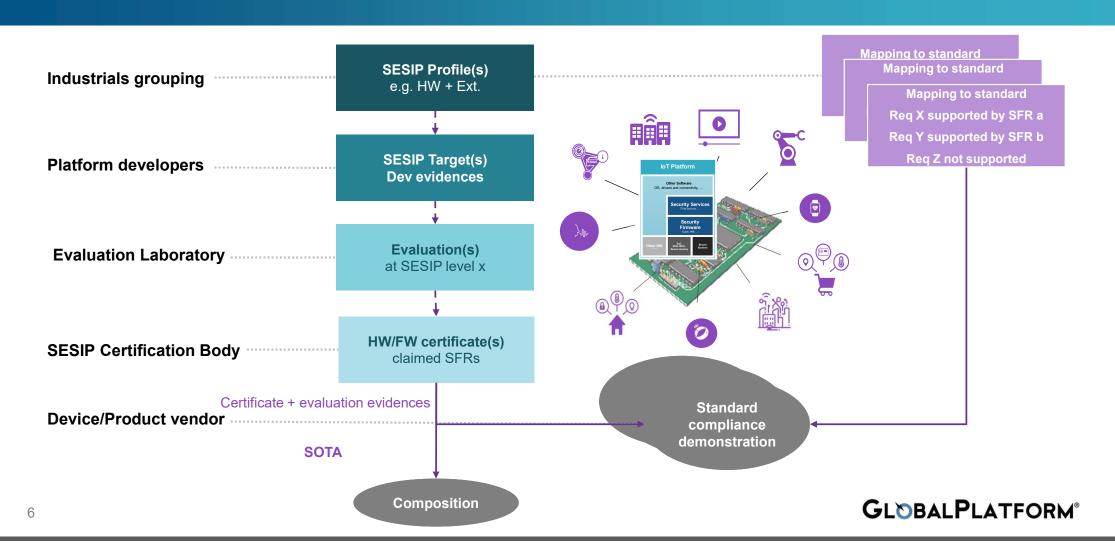
- Evaluation of <u>subcomponents</u> & any type of <u>compositions</u> of subcomponents
- Reuse of evaluation results for composition evaluations
- Reuse of evaluation results as support evidence for compliance demonstration IoT standards

Step by step, building of a complete security analysis

- What is there?
- How good it's?
- How should it be implemented?



SESIP Certification process based on Profiles / Mappings





Consumer IoT Security Document Set: Overview

EN 303 645

- Covers all consumer IoT
- Baseline requirements, outcome-focused provisions

TS 103 701

- Conformance assessment against the EN
- For 1st to 3rd party evaluators

TR 103 621

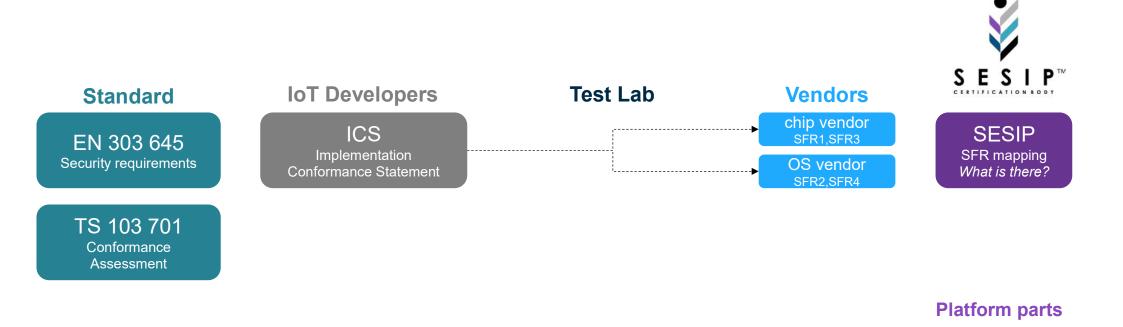
Implementation guidance to help stakeholders meet the provisions of the EN. Contains Use Cases.

Vertical standards / domain-specific extensions

- E.g. smart locks, home routers. Builds on EN.
- Opp. for more prescriptive, testable and stringent specs

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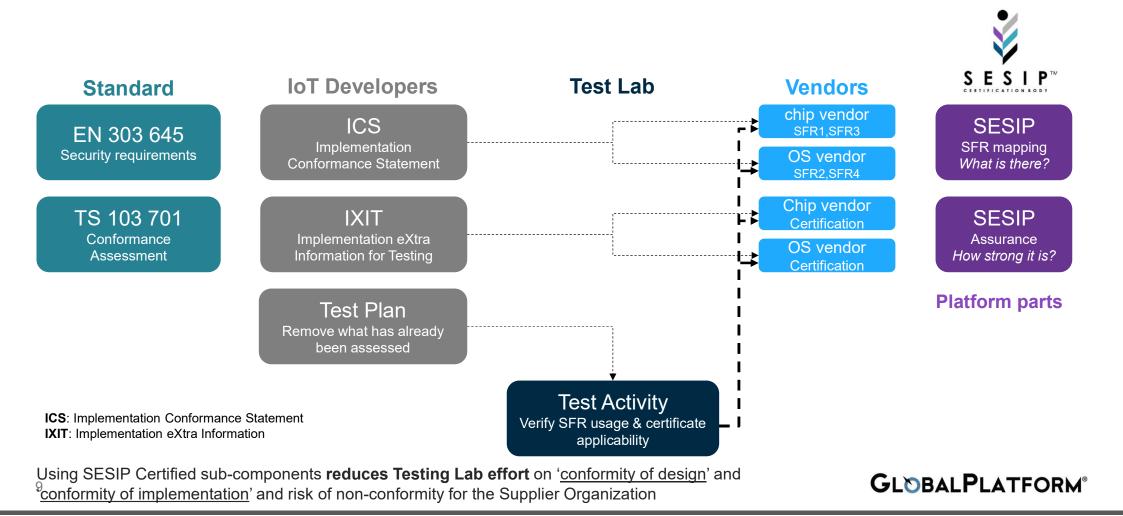
Overview of 303 645 and SESIP complementarity nature



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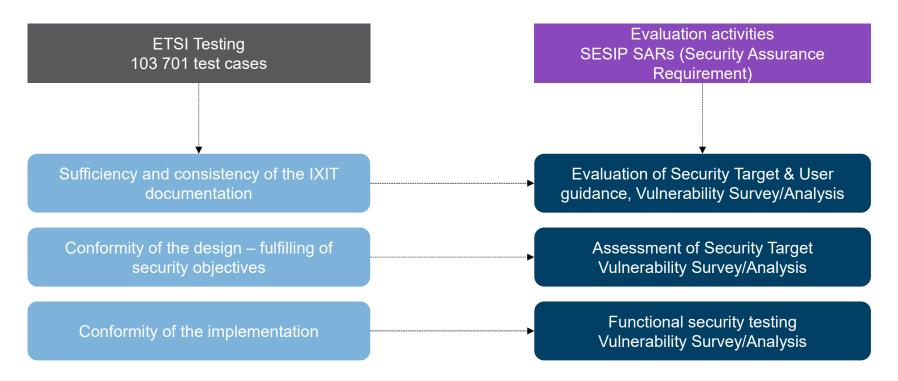
ICS: Implementation Conformance Statement

Overview of 303 645 and SESIP complementarity nature



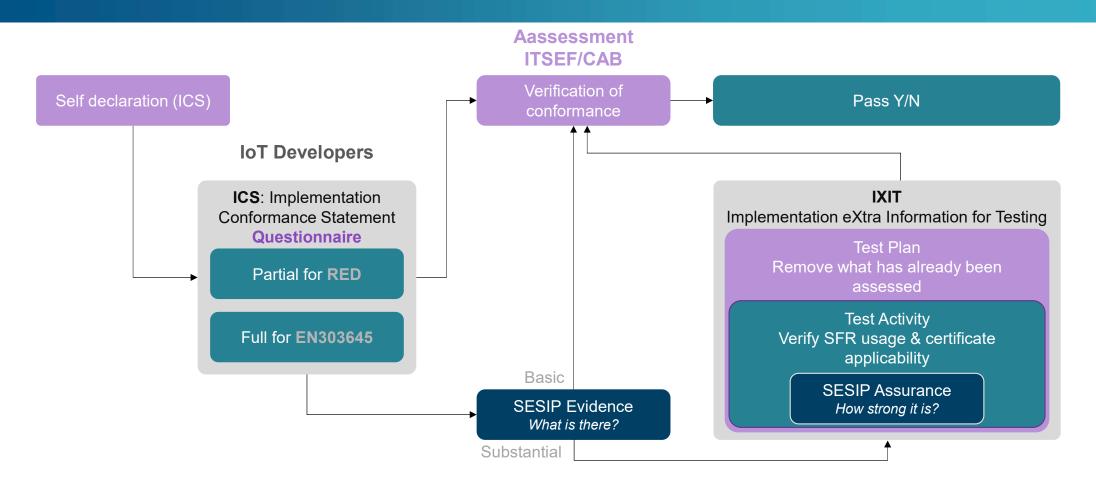
Focus on TS 103 701 requirements support

TS 103 701 requirements





EN303645 conformance assessment using SESIP





SESIP publications: Profiles

Profiles

- Core MCU/MPU SESIP Profile
- Secure Memory SESIP Profile

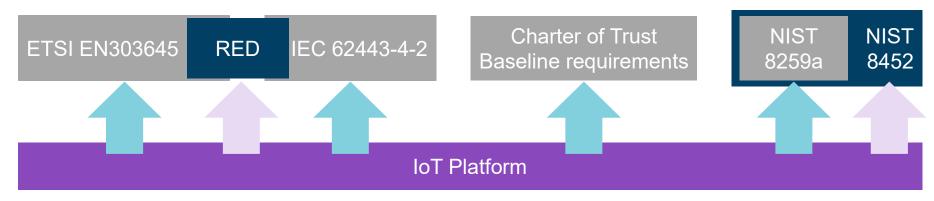
Whitepapers

- White Paper on SESIP composition: possibilities and benefits
- White Paper on SESIP applicability to EN 303 645
- Quantifying Benefits of SESIP Reuse



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SESIP: One evaluation, multiple users and use cases



SESIP PP Secure Consumer IoT



Join our SESIP Seminar - 19 October



In person or virtual

Wednesday 19 October

REGISTER ON THE GLOBALPLAFORM WEBSITE HERE.

Insights and real-word case studies exploring how SESIP:

- Reduces complexity, cost and time-to-market for IoT stakeholders.
- Facilitates device certification, by composition of certified parts, and reuse of certification across different evaluations.
- Aligns with other standards like ETSI EN 303 645, IEC 62443 or NIST8259, to support IoT product manufacturers to comply with specific security requirements and regulations.
- Can be adopted by labs to help build consistency across IoT certification schemes and maximise the value of SESIP.



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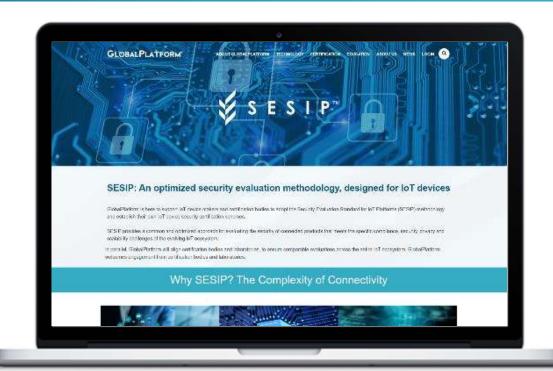
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