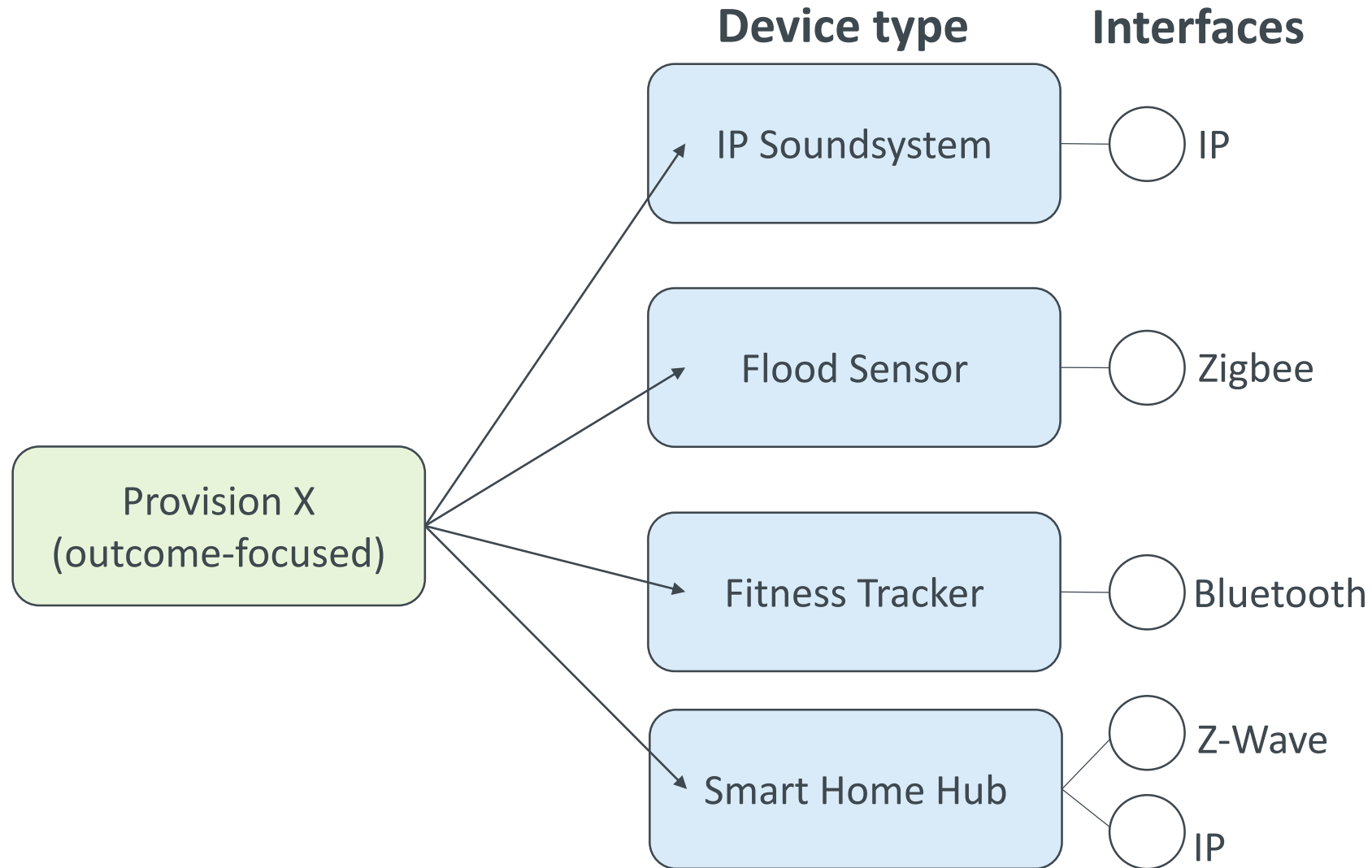


ETSI Draft Standard on Cybersecurity Assessment for consumer IoT security – Impact on future IoT Schemes

Presented by: **Gisela Meister, Eurosmart** For: **ENISA Cybersecurity Standardization
Conference Panel 4: Future schemes:
Consumer IoT**
Rapporteur TS 103 701

Challenge: Implementation can vary according to product and use case



How to implement EN 303 645

Review concepts:

- Review informative Annex A on device / network architectures and device states
- Review defined terms



Implement provisions:

- Must implement all 33 requirements
- Should really make best attempt to implement all 35 recommendations
- Must record rationale if a recommendation is not implemented
- Refer to TR 103 621 (Q2 2021) for further guidance



Conformance statement

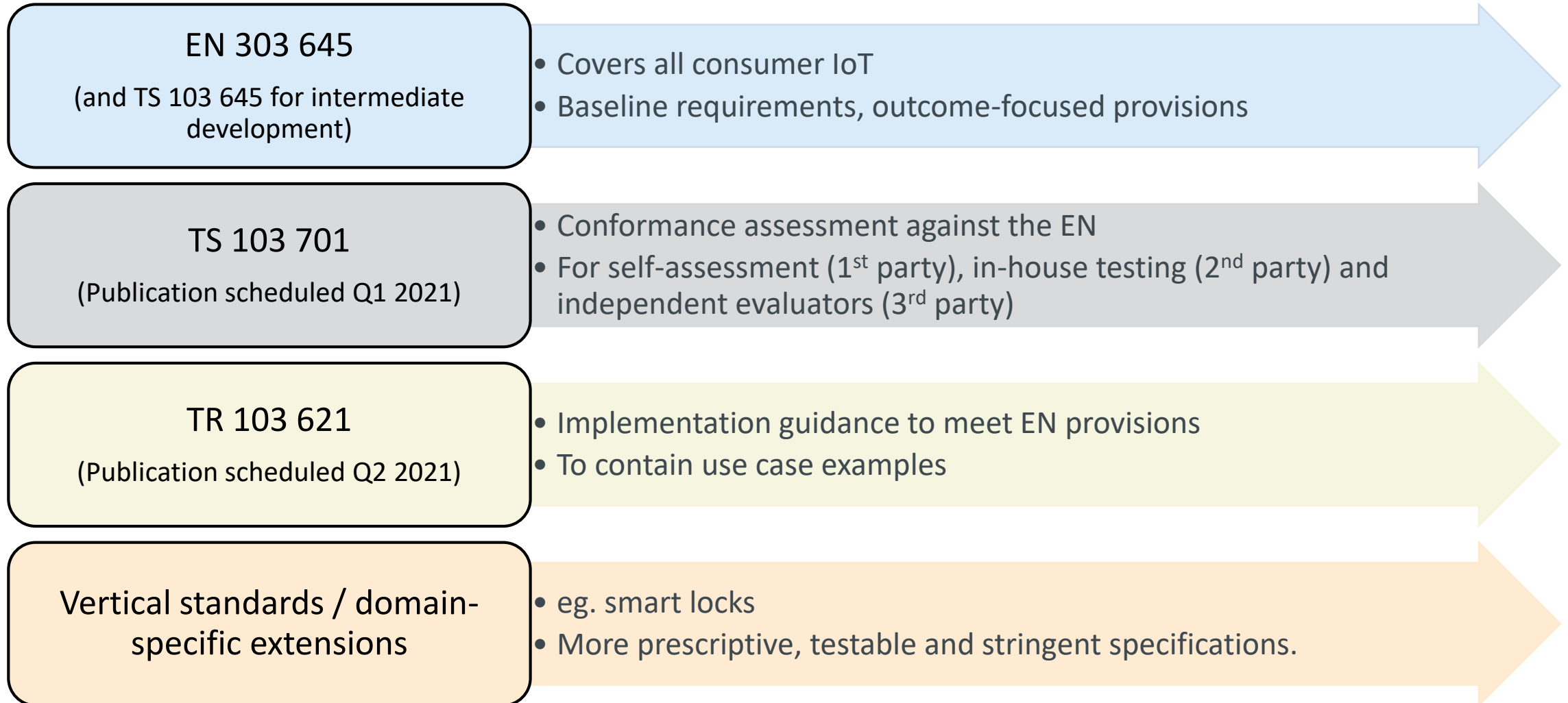
- Complete Annex B: implementation conformance pro forma



Assessment

- Prepare for assessment (in-house or external) using TS 103 701 (Q1 2021)

ETSI consumer IoT security document set: overview

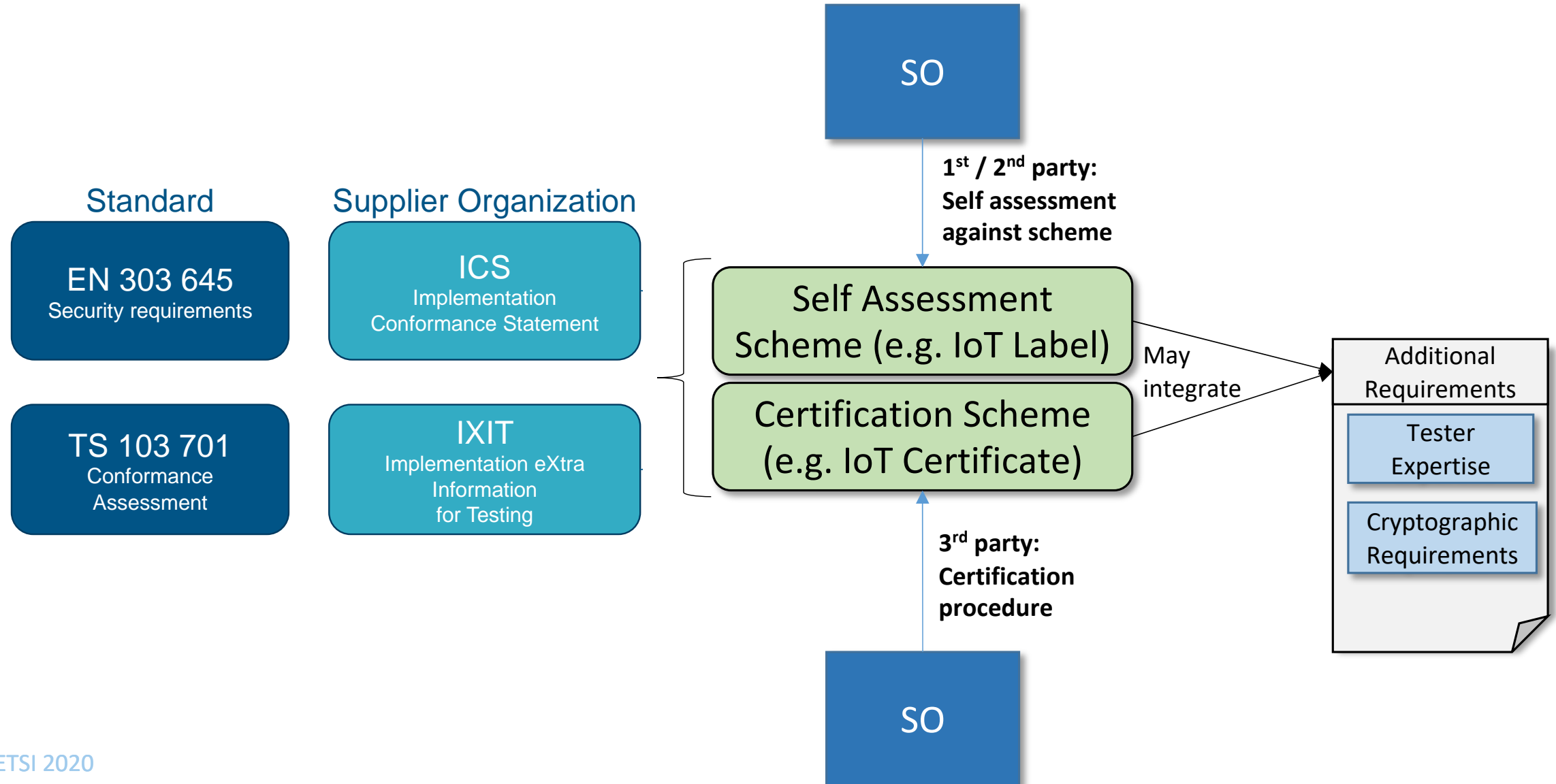


Status of ETSI TS 103 701

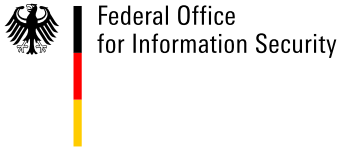
“Cybersecurity assessment for consumer IoT products”

- In development, intermediate version V.0.0.5 has been made publicly available at 20.12.2020. Final draft for approval ready end of April.
- Objectives:
 - generic specification for the conformance assessment against EN 303 645
- Contains:
 - “Implementation Conformance Statement” (ICS, Annex B in EN 303 645)
 - “Implementation eXtra Information for Testing” (IXIT, defined in TS 103 701)
 - a catalogue of generic test cases mapped from all provisions of EN 303 645
- Target Group:
 - Supplier Organizations (SO) as manufacturers, in-house testing departments, independent assessment labs

Mapping of EN 303 645 / TS 103 701 on self-assessment schemes and future CSA IoT schemes



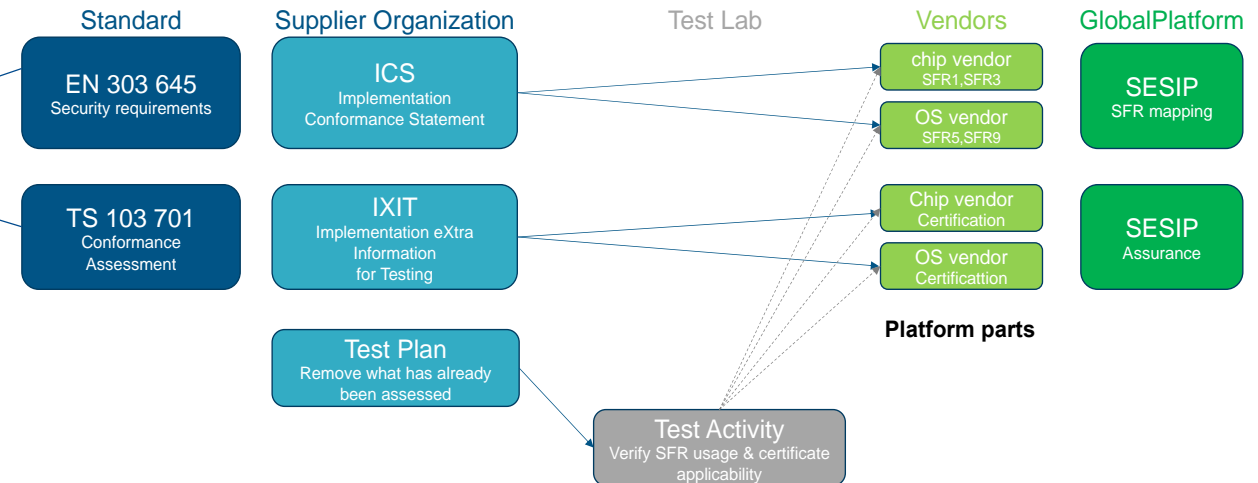
Application Context Self Assessment Schemes German IT Security IoT Label



- Based on a manufacturer declaration
- combined with a dynamic information component
- Market Surveillance by BSI



Application Context IoT Schemes Industry Mapping on Certification /Self Assessment Schemes as SESIP



Using SESIP Certified sub-components **reduces Testing Lab effort** on 'conformity of design' and 'conformity of implementation' and risk of non-conformity for the Supplier Organization

Extra slides

The German IT Security Label

- **Based on a manufacturer declaration** regarding compliance of his product to a standard (approved for the label), like
 - ✓ national technical guidelines, e.g. BSI TR Secure Broadband Router (BST TR-03148) or
 - ✓ international standards, e.g. ETSI Baseline Requirements on Cyber Security for Consumer IoT (ETSI EN 303 645)
 - ✓ to ensure verifiability and comparability an **approved standard requires an associated test specification**
- **The label is combined with a dynamic information component** (e.g. provided via a governmental website) that provides product information concerning:
 - ✓ **Transparency** means providing security relevant information about the products
 - ✓ **Patches** for closing security flaws
 - ✓ **Cryptography** to secure communication and storage
 - ✓ etc.
- **Market Surveillance** is foreseen
 - ✓ Random and ad hoc inspections will be performed
 - ✓ If manufacturers don't cooperate, patch or do nothing in general -> withdrawal of the label

Roadmap of TS 103701

Release v0.0.6

Mon, 1 February 2021

- ✓ Covers all mandatory provisions and all recommendations of EN 303 645

Release v0.0.7

Fri, 26 March 2021

- ✓ Including resolution of industry comments
 - ✓ Public review of v0.0.5
- ✓ Presentation Cyber#24

Release Final Draft for Approval v1.0

Mon, 26 April 2021