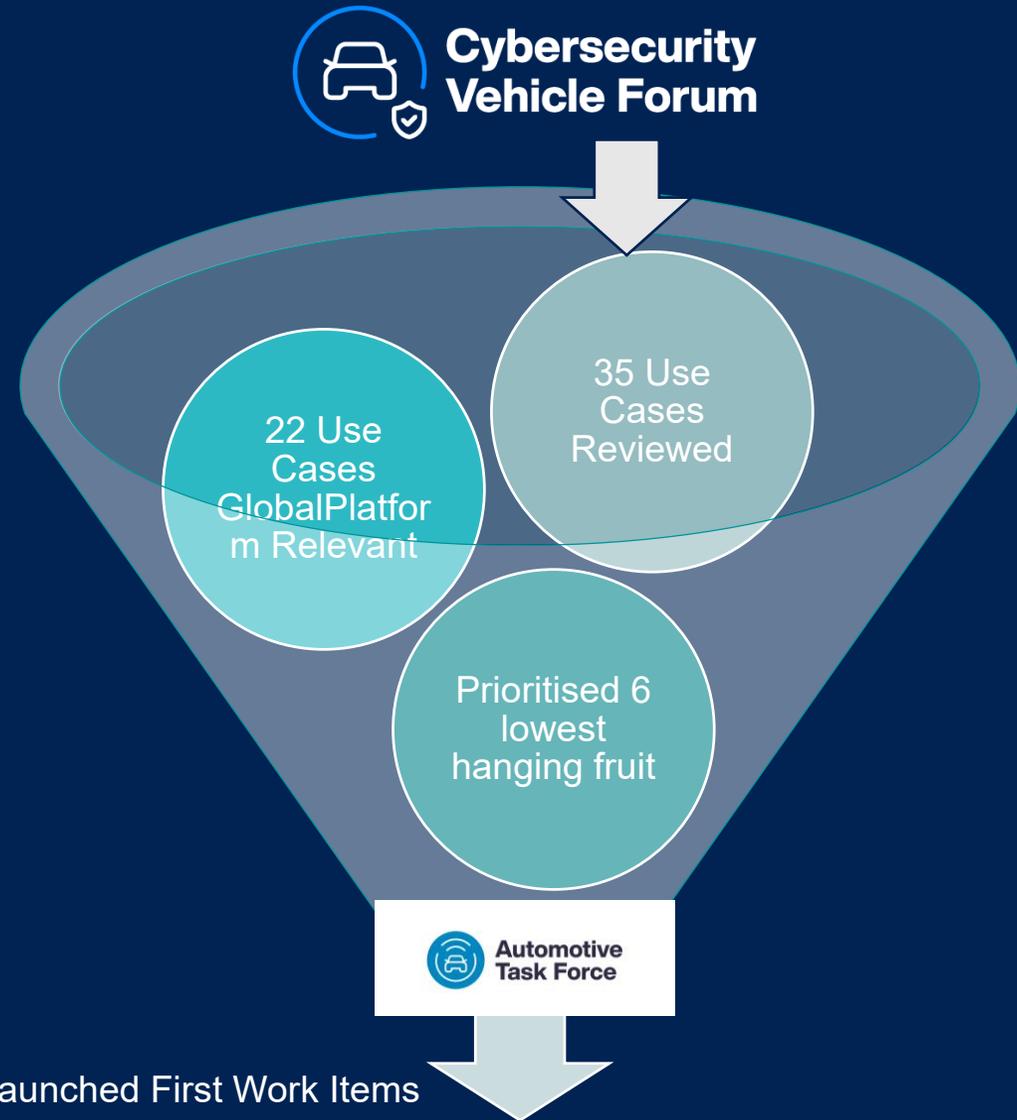




# GlobalPlatform: Automotive Activities

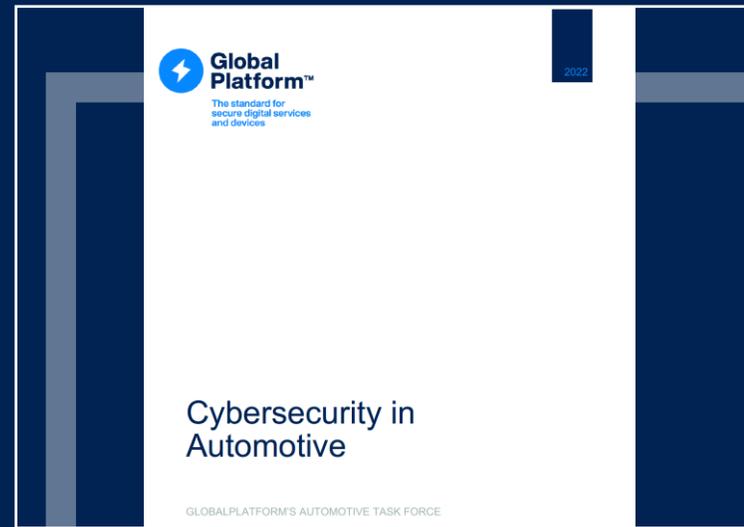
# GlobalPlatform Automotive Activities: First Year



Launched First Work Items

- Standards Alignment:
  - SAE International Hardware Protected Security Mapping J3101
  - Autosar Coordination
- Guidelines on Trust Anchors
  - Security and Trust in Automotive Systems

# GlobalPlatform Whitepapers



# Cybersecurity: Compliance with UNECE 155 & 156



# SAE Hardware Protected Security Environments J3101: Common Security Use Case Requirements

Profile	Key Protection 6.2	Cryptographic Algorithms 6.3	Random Number 6.4	Critical Security Parameters 6.5	Algorithm Agility 6.6	Interface Control 6.7	Secure Execution Environment 6.8	Self-Test 6.9
Confidentiality	X	X			?		X	X
Integrity	X	X		X	?		X	X
Availability	X	X			?	X	X	X
Access Control	X	X	X		?	X	X	X
Non-Repudiation	X	X	X	X	?		X	X

NOTE: If algorithm agility is not supported, the profile shall be classified as “limited use” (7.6).

# Hardware Protected Security Environments (J3101): Application Use Cases

## IPR Protection

Satisfying the requirements of the IP protection use case requires implementation of the base confidentiality profile (7.1).

## Secure Diagnosis at the ECU Level

Implementation of the secure ECU diagnostics use case requires implementation of the following profiles:

- Base Confidentiality (7.1):
- Base Integrity (7.2):
- Access Control (7.4):

Additionally, the following profiles should be considered depending on the system implementation:

- Base Availability (7.3):
- Assurance Level (7.7):

## Secure Logging

To satisfy the minimum, fundamental secure logging requirements of authentication and non-repudiation, three profiles are required:

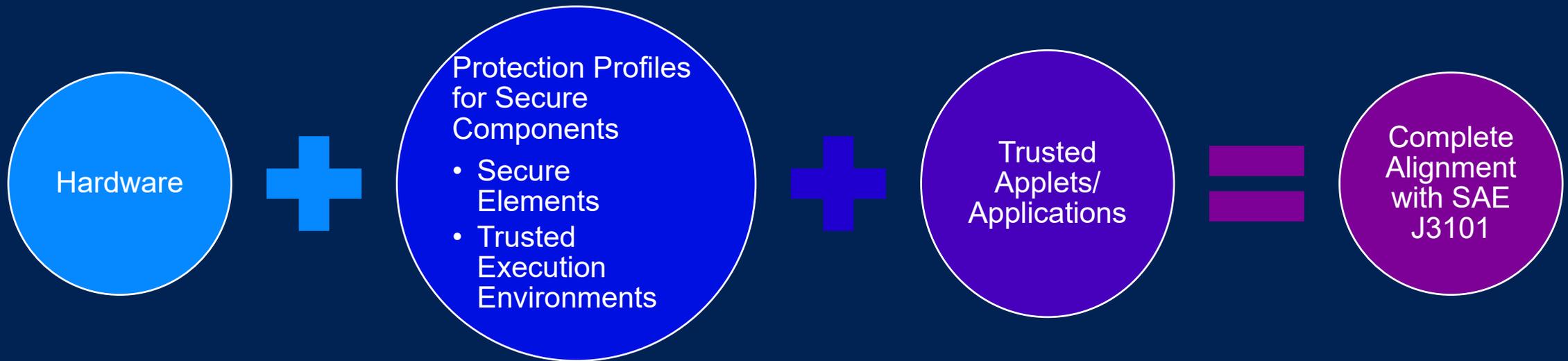
- Base Confidentiality (7.1)
- Base Integrity (7.2)
- Non-Repudiation (7.5)

To satisfy additional security objectives which could be specified for certain usages of secure logging, the following additional profiles may be required and should be considered based on the context provided above:

- Base Availability Profile (7.3)
- High Assurance Level Profile (7.7)

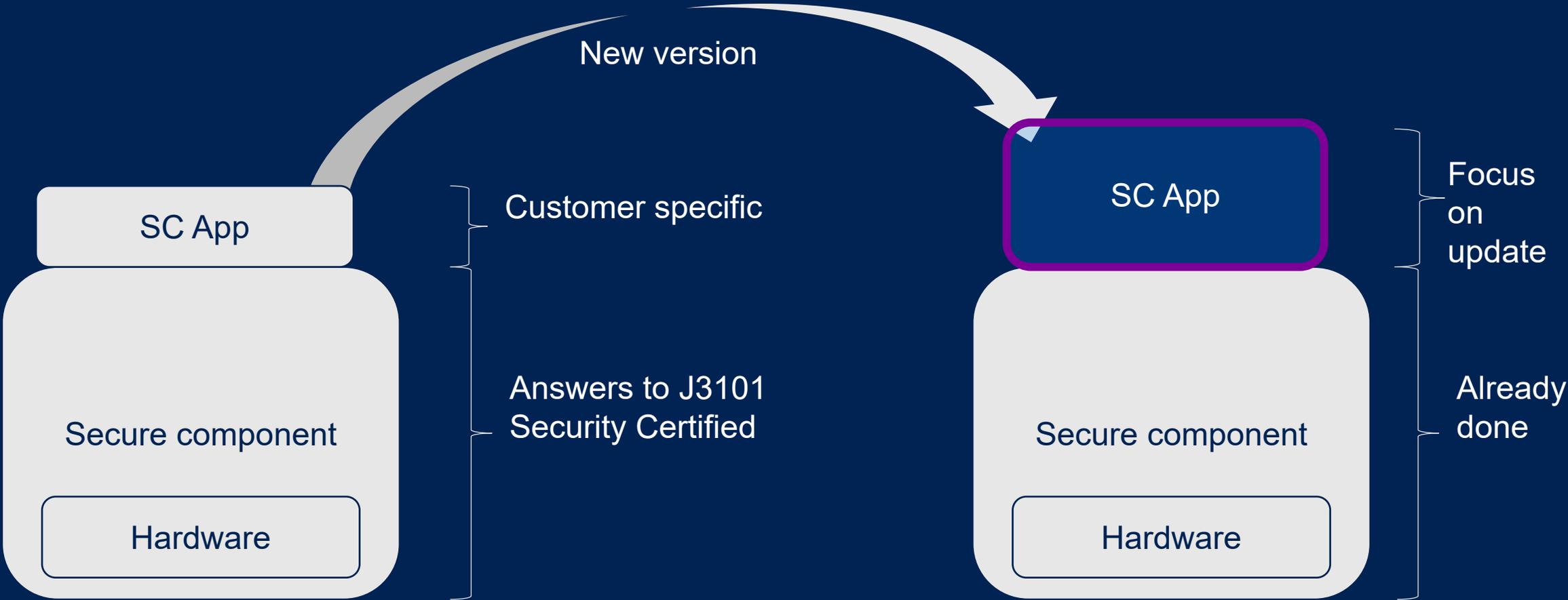


# GlobalPlatform Alignment with Hardware Protected Security Environments J3101



# What does this mean for Tier 1s?

#1/2

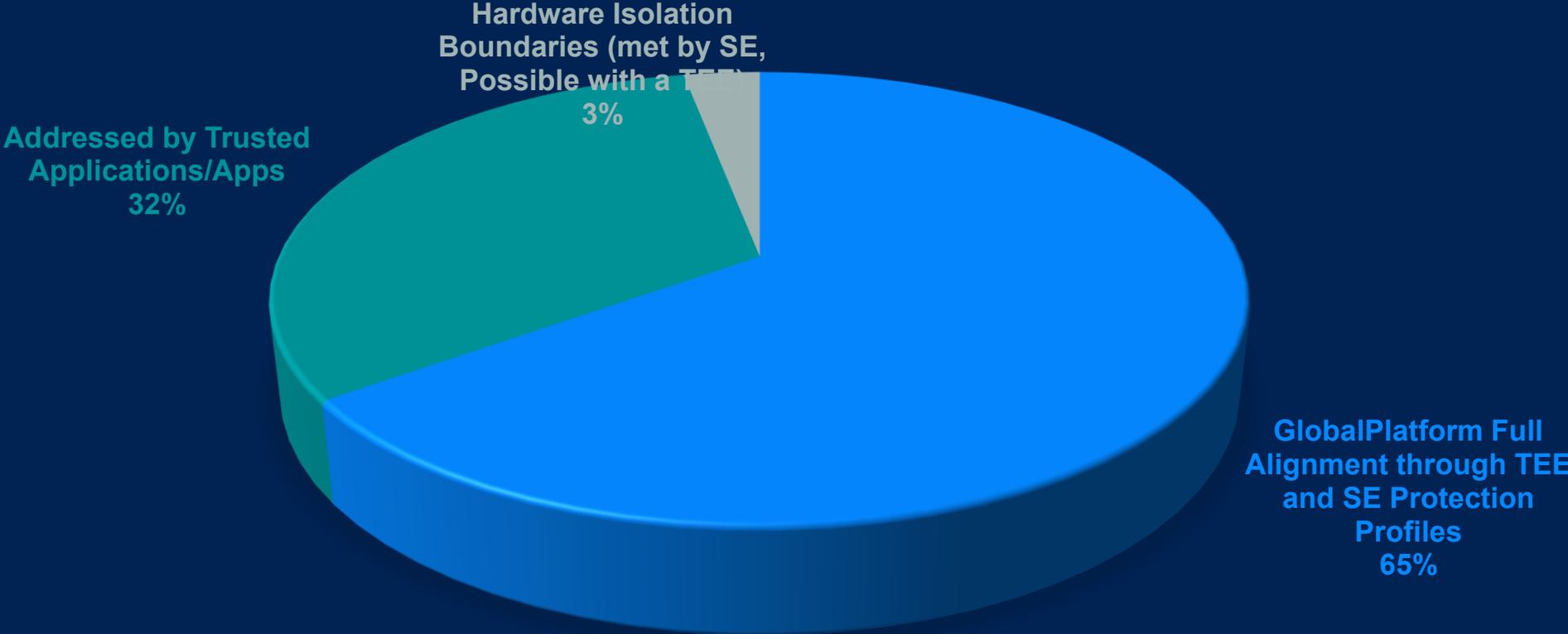


# What does this mean for Tier 1s?

#2/2



# Analysis of J3101 Alignment with GP Specifications



# Building Alignment with Standards



Is there an opportunity to coordinate with Japanese organisations on this work?