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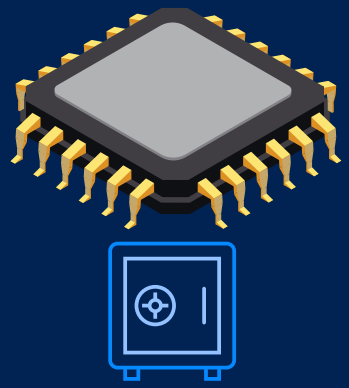
Setting the Scene for Panel on Key Management Standardisation Opportunities

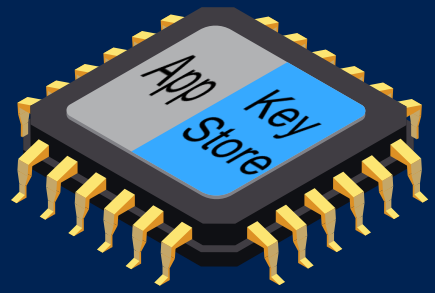
Automotive KeyStore Evolution:

MicroController
(often AutoSAR)
using a HW Element

Microcontroller
With isolated software
for key management
(MicroTEE)

Microprocessor with TEE
- Many apps / guests





Hardware KeyStore API

Software KeyStore API

Software KeyStore API

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How much to standardize?

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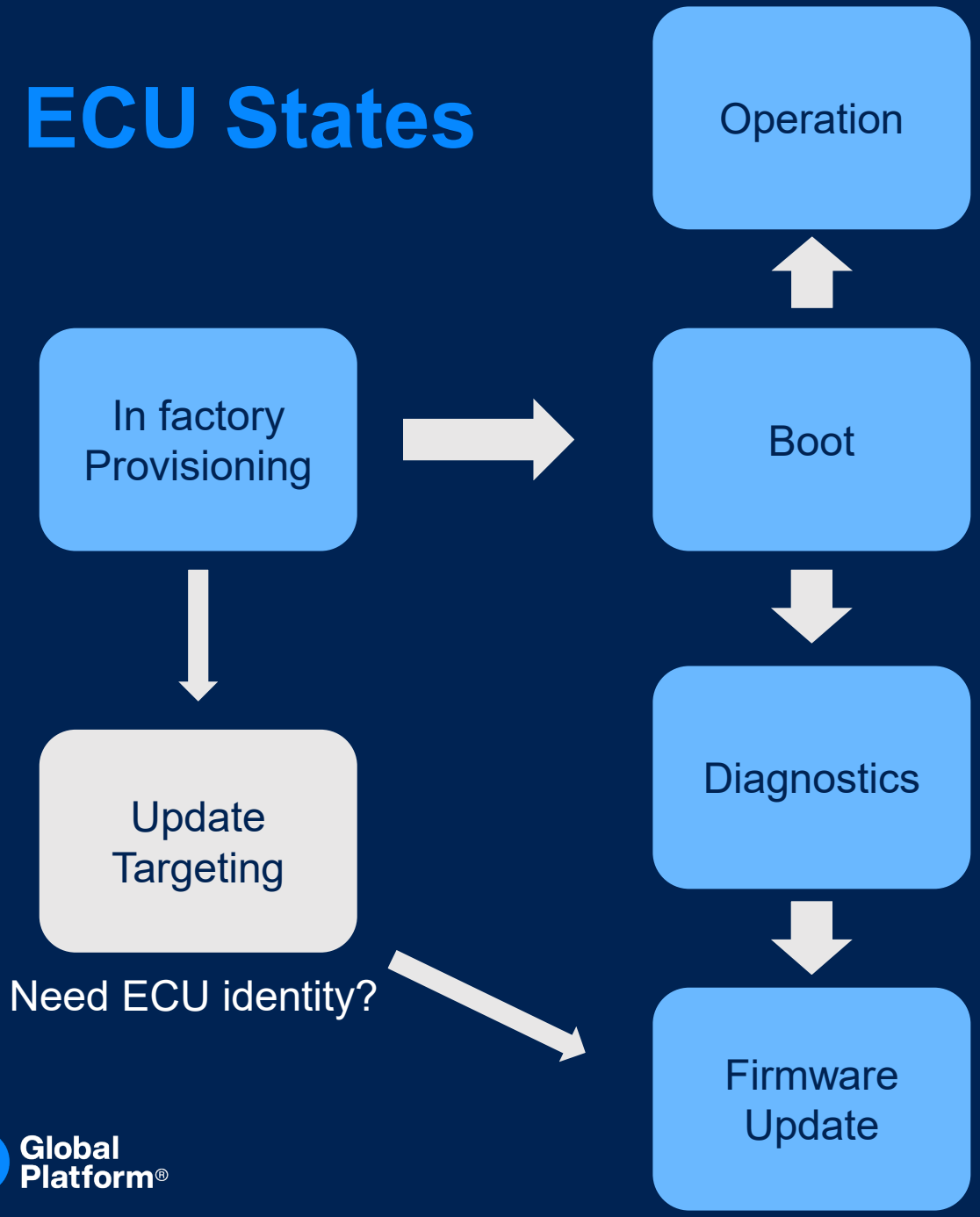
ECU States



Need keys for core operations (e.g. comms)
e.g. ECUs on CAN need same CAN MAC key

Need to validate image is correct
HMAC(Image + ECU Key) → MAC

Need to “unlock” diagnostics
(Limited trust)

Need to validate new image
PKI? PQC?

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