BEAM

Beyond the AV Bill: the cybersecurity and data regulations you can't ignore

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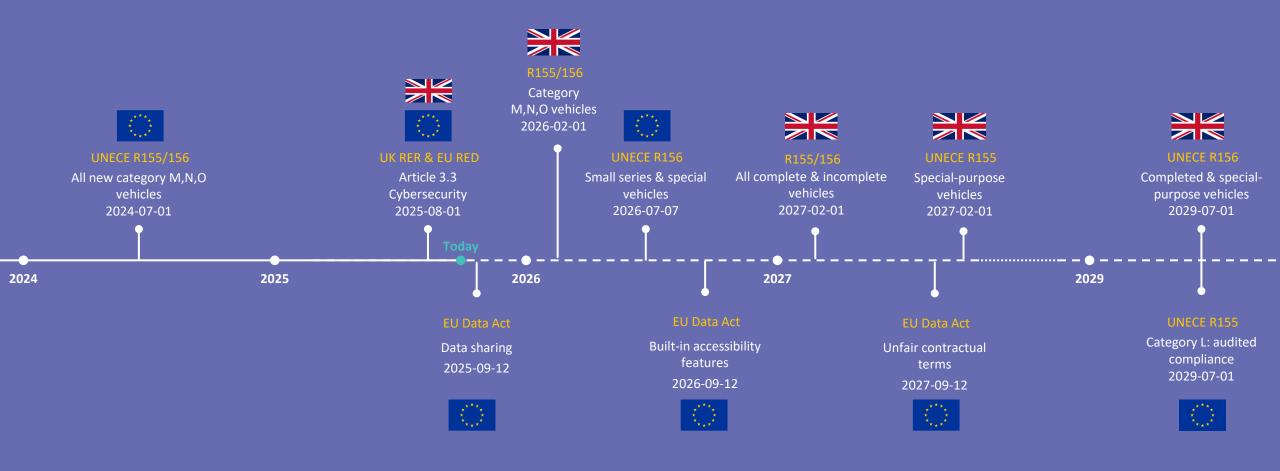


Beyond the AV Bill: new cyber and data rules

Global rules landing now UNECE R155/CSMS UNECE R156/SUMS RED Article 3.3 e EU Data Act Clear summary and some food for thought What you'll get from this talk ———— Why it matters Compliance = resilience Beam Connectivity in one line ————— Cyber-secure connectivity platform + data + APIs



2024–2029: UK and EU deadlines that matter





Type approval aligns with UNECE regulations starting 2026 (except for category L)

Full alignment with UNECE via WVTA starting 2024, plus new data ownership & sharing rules

The cyber compliance stack: R155, R156 and RED





Cybersecurity management system (CSMS)

Mandates proactive risk management throughout the vehicle lifecycle.

<u>Standard</u>: ISO/SAE 21434



Software update management system (SUMS)

Ensure secure and safe updates, e.g. over-the-air (OTA)

<u>Standard</u>: ISO 24089





Network protection

Prevent devices from harming or misusing communication networks.

Standard: NIST Cybersecurity Framework



Data privacy and user control

Prevent devices from harming or misusing communication networks.

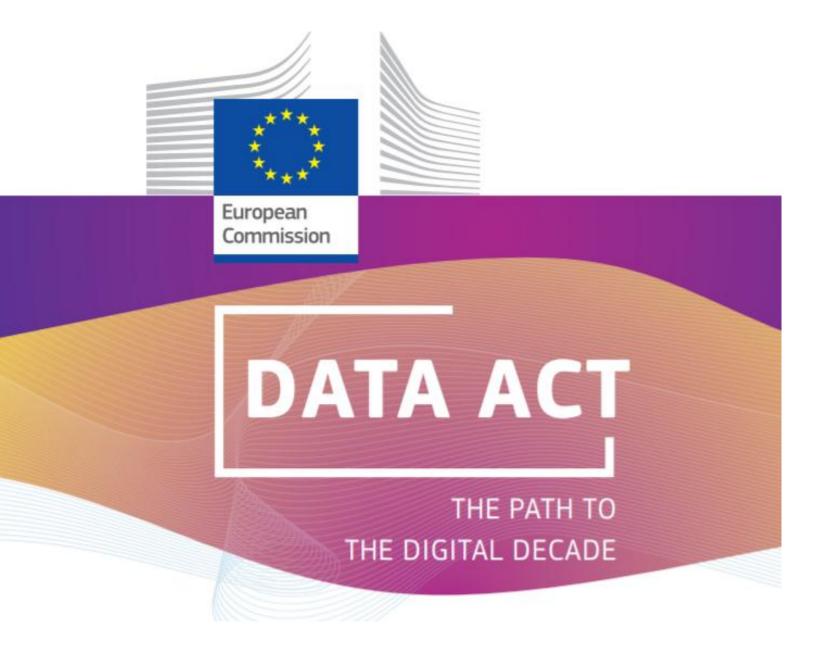
Standard: GDPR



Prevent devices from harming or misusing communication networks.

Standard: ??





- Data access and sharing
- Product design requirements and transparency
- Data sharing with public sector bodies
- Legal certainty and contractual fairness

INTERNATIONAL STANDARD

ISO 20078-1

Second edition 2021-11

Road vehicles — Extended vehicle (ExVe) web services —

Objectives:

- Interoperability
- Security
- Access control
- Resource management

EU Data Act: from OEM as gatekeeper to the user in control

Legacy model



EU-compliant model





Extended Vehicle is a platform for innovation and value creation





Extended Vehicle is a platform for innovation and value creation, as long as it is cyber resilient!



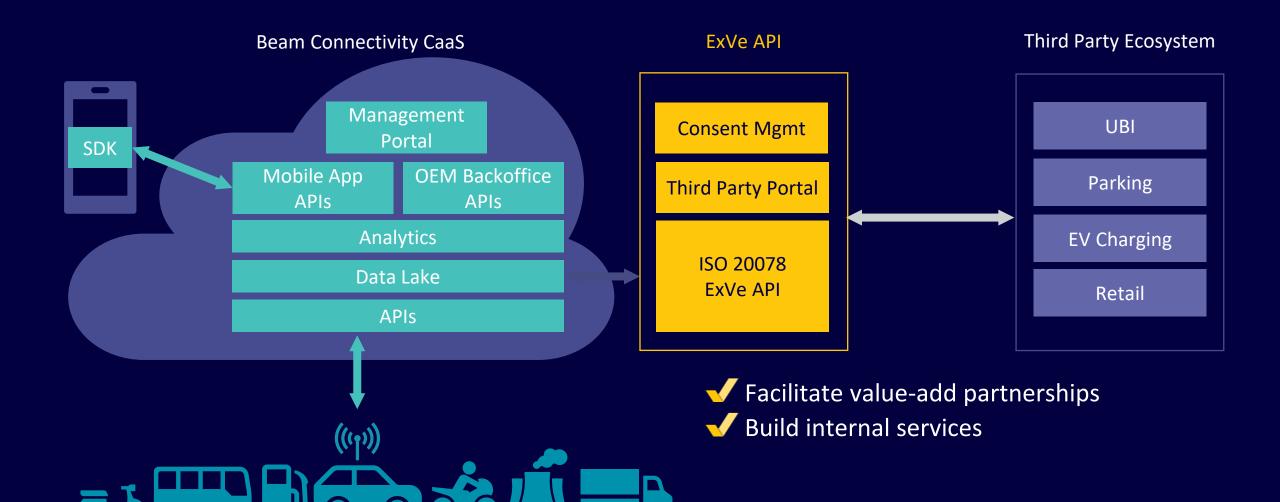


Connectivity-as-a-Service from Beam Connectivity: secure by design





Now enhanced with an Extended Vehicle API for EU Data Act compliance





Backed by our leading-edge connected system cybersecurity R&D



Prototype secure-by-design TCU for lifecycle resilience











SecureTCU

Closed-loop risk management solution in teleoperations use case











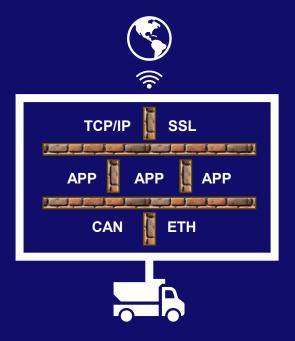




Backed by our leading-edge connected system cybersecurity R&D

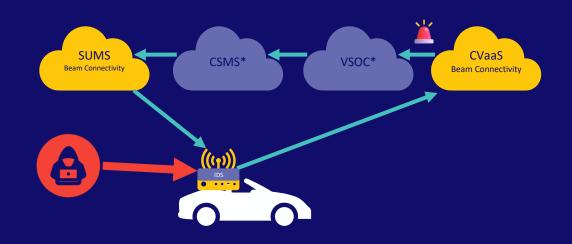


Prototype secure-by-design TCU for lifecycle resilience



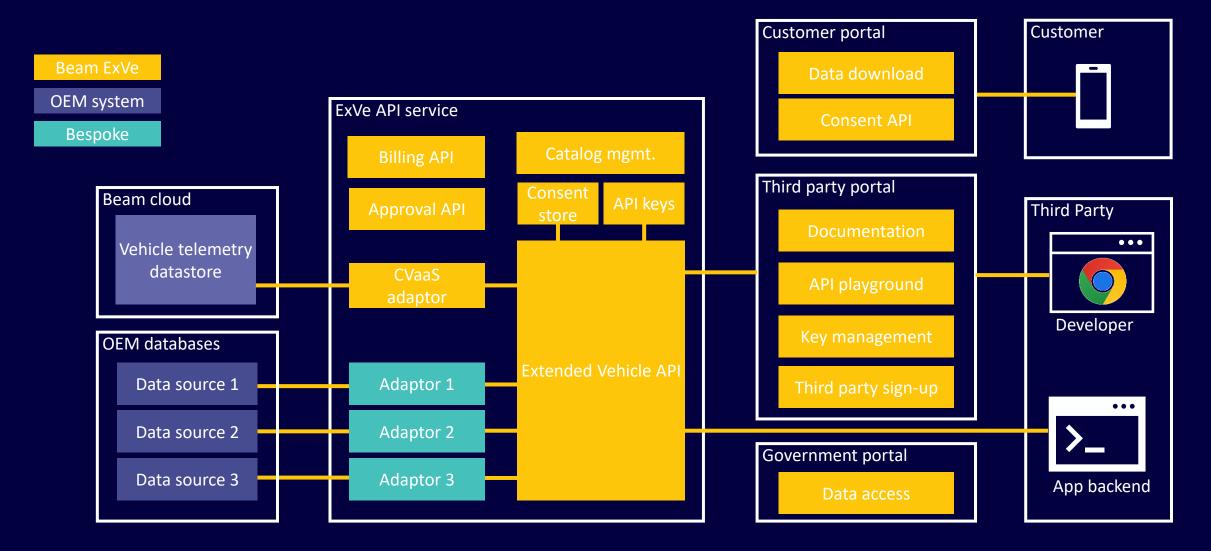
SecureTCU

Closed-loop risk management solution in teleoperations use case

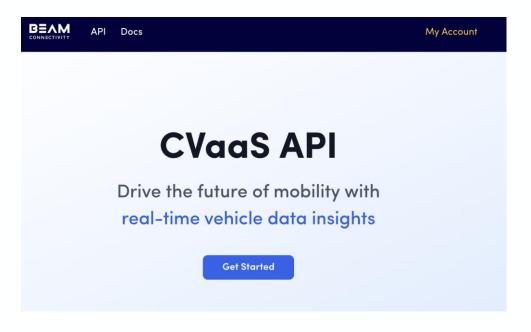


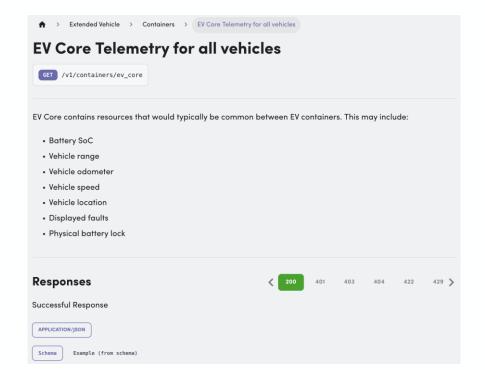


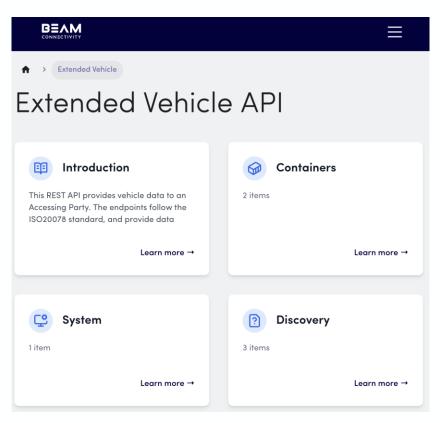
We built all this... so you don't have to!















To find out more email hello@beamconnectivity.com







Thank you!

Contact us

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