Two-wheelers connectivity & cyber protection for a safer ride and parking



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The evolution of connected e-bikes and motorbikes is shaping the future of mobility. In recent years e-bikes have evolved into highly efficient, eco-friendly machines that redefine urban commuting. Likewise, connected motorbikes take biking to the next level, integrating cutting-edge technology for enhanced safety, navigation, anti-theft including a better user experience. This new way of moving embrace a world of smart and sustainable personal transport.But the rise of connected two-wheelers brings along with it both opportunities and challenges. While the connectivity integration offers exciting features, it also exposes the vehicles to potential cybersecurity risks.

That is why both connectivity and cybersecurity are critically important for connected two-wheelers, as benefits can only be fully achieved when accompanied by robust security measures that protect the vehicle, the rider and their data.

These technical evolutions are inspired by initiatives such as those from ACEM*'. The two-wheeler technology trends in Europe are leaning towards standards enhancing safety, electric mobility and connectivity. The industry is shifting to sustainable solutions mirroring the changing dynamics of urban mobility and environmental awareness.

* ACEM : European Association of Motorcycle Manufacturers

Connectivity and cybersecurity are opening a world of services

CONNECTIVITY

- **Real-time navigation:** Get the most accurate and real-time traffic updates.
- Remote location: Find and locate your 2-wheeled vehicle.
- Remote Monitoring: Track your motorcycle's health and receive diagnostic alerts.
- Emergency Assistance: With one touch, alert authorities or loved ones in case of an accident.
- **Social Sharing:** Share your rides and stats with a community of enthusiasts.
- Anti-theft: Get instant information from your bike/motorbike and secure it from theft and trig alarm.

CYBERSECURITY

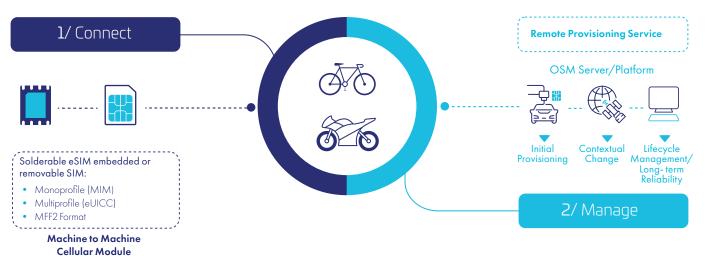
- Access & Start Control: Safeguard your e-bike or motorcycle against unauthorized access.
- **Remote Updates:** Deliver automatic security updates for a worry-free experience (secure FOTA).
- Original spare part: Ensure that only original spare parts can be mounted on 2 wheelers.
- Data Encryption: Keep personal information and ride data secure.
- Monetization: Activate new features securely and remotely.
- **Privacy:** Authorize services and manage related user consent in line with GDPR.

LEVERAGE THALES TRUSTED & SECURE SOLUTIONS TO:

- Connect & manage remotely 2 wheelers value added services during a lifespan.
 - Protect any bike and motorbike for a safer ride and parking.

Thales connectivity for long run operation

Easy and secure provisioning anytime anywhere Optimized Connectivity Lifecycle Management

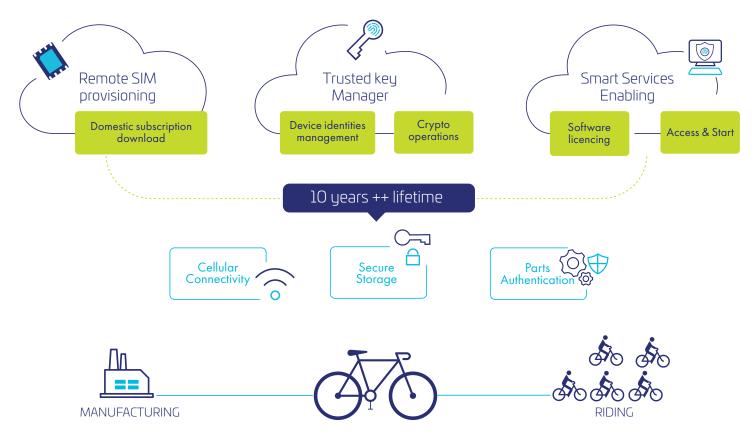


Connected 2-wheeler means cybersecurity needs

Thales solution bring trust throughout the entire lifetime of two-wheelers by safeguarding essential assets and protecting digital identities, thanks to secure storage and robust authentication methods.

How? with a comprehensive solution to protect all critical assets during a lifetime.





Why choose Thales solutions?

- Our 25-year experience in the production and implementation of Connectivity and Cybersecurity solutions in highly demanding markets such as Automotive, Telecommunications, Banking and Government
- Our technical connectivity expertise member of Global Platform, GSMA and other standardization bodies
- Our Cyber expertise ISO/SAE 21434 certified (Standard for Road Vehicles Cybersecurity Engineering)
- At the cutting-edge of post-quantum crypto (PQC) technologies for enhanced protection
- Our Group-policy aimed at reducing the environmental impact and risks arising from Thales activities and products.



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