

Operate Smarter. Scale Faster

Fleet-Grade IoT That Works Wherever You Go



Industry Snapshot

Shared mobility has moved past its early boom into a phase of consolidation and operational discipline. Only a handful of operators have emerged as true market leaders – and today's winners are those who can scale securely, maintain real-time control over diverse fleets, and deliver reliable service even in challenging network conditions.

To strengthen their position, many are merging – like Dott and TIER Mobility, Bird and Spin, and most recently Beam and Neuron. But combining

forces also means combining technologies. Operators often face the challenge of managing different vehicle brands, firmware versions, and communication protocols, all under one umbrella.

Without a standardized, interoperable approach, these integrations slow down expansion, increase operational complexity, and dilute the rider experience. A universal IoT management layer is becoming essential to unlock the full potential of multi-brand, global fleets.

The Challenge

- Lossy networks – device disconnects = direct revenue loss
- Rigid hardware – can't replace firmware or integrate new software
- Pressure to reduce total cost of operations (TCO)
- Complex fleets across cities – hard to separate, govern, and monitor
- Strong need for security compliance and data governance

AVSystem makes your fleets agile and reliable



LwM2M Protocol

Connection-resilient,
battery-optimized, secure,
and data-efficient



Anjay IoT SDK

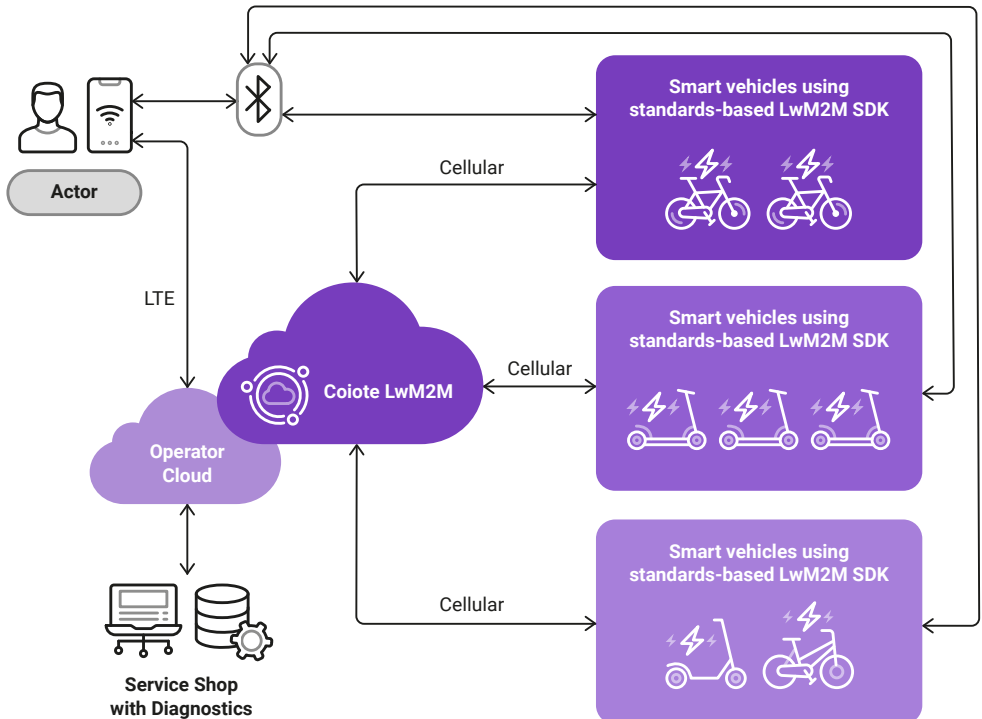
Robust LwM2M client perfect
for scooters, e-bikes, mopeds



Coiate IoT Device Management Platform

Advanced multi-tenancy, remote
firmware updates, automated
alerting and diagnostics

Architecture Visualization



Why it works for Shared Mobility Operators:

- ✔ **Global Connectivity Resilience** – Works even on lossy LTE-M/NB-IoT networks with asynchronous messaging
- ✔ **Logical Fleet Segmentation** – Operate different cities, vendors, or contracts with secure separation
- ✔ **Faster Time-to-Market** – No rewrites required for every new vehicle type
- ✔ **Built-In Security** – DTLS/TLS, automated bootstrap, role-based access and certificate rotation; all of these make it easier to enter new markets and meet all the compliance requirements
- ✔ **Lower Costs, Higher Uptime** – Reduce data transmission fees, proactively detect issues, and remotely push fixes

Don't let bad IoT hold your fleets back. With AVSystem, your vehicles stay connected, your riders stay safe, and your ops team stays in control.

Wondering how this could help your business?

Contact us at sales@avsystem.com



AVSystem

We are a trusted and reliable partner for IoT deployments, offering comprehensive solutions for building and managing IoT devices.

Our products enable seamless device management, ensuring scalability, interoperability, and security for successful IoT projects. With a proven track record and global presence, we provide expertise in device management and long-term support, making us the ideal choice for reliable IoT project partnerships.

Contact us

avsystem.com