

RecovR is a 2-in-1 vehicle locator solution for dealerships and consumers, providing reliable and secure Lot Management and Theft Recovery services.

RecovR consists of a small, battery-powered, installation-free locator device and easy-to-use web and mobile applications.

Dealerships use RecovR to track cars from arrival through sale, giving management unrivaled visibility into inventory location and bottlenecks in inventory flow. Reduces sales cycle times and increases productivity.

USE CASES

- Reduce Sales Cycle Time**
 Real-time visibility of inventory enables finding cars quickly and accurately, reducing customer wait times.
- Efficient lot management**
 Intuitive applications to manage lots, providing a holistic view across departments and locations.
- Indoor/outdoor tracking**
 Accurately track location with seamless transition between indoor and outdoor. Custom notifications.

keySTREAM™ technology

Created by global digital security leader, Kudelski Group, it is secured by Kudelski IoT keySTREAM™ technology to ensure the device and its data are protected against cyber threats.

RecovR is available directly from Kudelski or can be white labeled by other companies for sale to their clients.



HOW IT WORKS

Hide and go!

- Battery-powered, standalone GPS unit placed inside the vehicle or hidden in compartments to minimize detection.
- No technical install required.

GENERAL SPECIFICATIONS

Communication Capabilities	3GPP LTE-CatM1 / NB-IoT eSIM (eUICC MFF2) with Global Mobile Subscription
Positioning	Outdoor - GPS Outdoor / Indoor - Positioning over cellular and WIFI sniffing (802.11 b/g/n, 802.11j) Indoor - BLE (dual-mode Bluetooth 5)
Electrical	Non-rechargeable 8.0Ah batteries Lithium-thionyl Chloride (Li-SOCl ₂) 5 years minimum battery life
Sensors	Accelerometer, 16g full scale Light Sensor
Compliance	FCC, IC (device certifications) eUICC CC EAL5+ PTCRB, GCF

MECHANICAL SPECIFICATIONS

Usability	Paperclip RESET button RGB LED Internal buzzer
Usability	127.5 x 60 x 27.75 mm 5 x 2.36 x 1.09 inches
Environment	Operating Temp. : -40° to +85° C, -40 to +185 F Vibration resistance (IEC 60068-2-6)
Marking	Weather-proof and damage-resistant scannable ID label
Enclosure	ASA plastic, UL94 V-0 compliant
Mounting	VHB tape on one side, UL 746C compliant
Weight	100g

RecovR device features

LIFECYCLE

Periodic heartbeat: report to health status and retrieve commands, heartbeat frequency 15 minutes.

Firmware upgrade management: Over the air upgrade management based FOTA campaigns.

SECURITY

Embedded a keySTREAM™ Root of Trust (RoT) relying on the ARM® TrustZone® Cryptocell 310 cryptographic accelerator that provides a unique identity provisioned at device production and strong authentication with RecovR Application Service.

Secure communication with RecovR Application Service based on keySTREAM™ E2E data protection.

Firmware integrity & confidentiality based no AES-128.

Data integrity & confidentiality based on keySTREAM™ E2E data protection.

Secure remote configuration management based on keySTREAM™ Application Feature Authorization (AFA) and Remote Resource Management (RRM).

POSITIONING

Outdoor position based on GPS, cellular and Wi-Fi positioning capable

Indoor position based on Bluetooth low energy beaconing and Wi-Fi positioning capable.

SUPPORT & MAINTENANCE

Remote Logs: retrieve device logs to ease and enhance field and remote support.

Factory RESET: remotely or locally reset the device configuration and firmware to the factory state.

CONNECTIVITY

Global LTE CatM1 connectivity: Home connectivity in 9 countries and Roaming connectivity 84+ countries.

NB-IoT connectivity is a roadmap item.

GSMA SGP02 certified Embedded UICC (eSIM).

Peak throughputs up to 1Mbps and LTE like latency (<100ms).

LOW-POWER

3GPP PSM integration thanks to the nRF9160 module.

Deep sleep implies Modem, BLE/Wi-Fi modules, Nordic MCU, SCL Suspend/Restore.

Lightweight CoAP based communication protocol designed to reduce data footprint and number of flights.

Global LPWAN connectivity profile to reduce the RF scan duration and save battery lifetime.

RecovR cloud server features

ARCHITECTURE & PERFORMANCE

Reliability ensured by micro-services and self-healing architecture.

Horizontal and vertical elasticity guarantees high availability with 99.95% uptime.

Resiliency enabled by geo-redundancy (Multi-region / Multi-AZ).

NOTIFICATIONS & MONITORING

Event-based and state-based alerts via SMS, email, and push notifications.

Enterprise-grade monitoring built with Prometheus.

24/7/365 support with first-class call centers.

SECURITY

Enterprise-grade data encryption at rest and in transit.

Application endpoints are protected by a Web Application Firewall (WAF).

CIS Google Cloud Platform Foundation Benchmarks compliant to ensure best practices for Identity and Access Management (IAM), logging and monitoring, networking, VMs, storage, SQL, Kubernetes clusters.

RecovR digital products

ACCESS

Customers can access the Theft Recovery native mobile application on Android or iOS.

Dealerships can access the web-based Lot Management Solution on any device (mobile, desktop, tablet).

SECURITY

Access to applications controlled via password protection or OIDC authentication.

Customer must explicitly grant control to 3rd parties during theft recovery events.

Dealerships must opt-in to publicly accessible vehicle inventory search.

PRIVACY

GPS position is only acquired on-demand upon customer request, ensuring data privacy.

