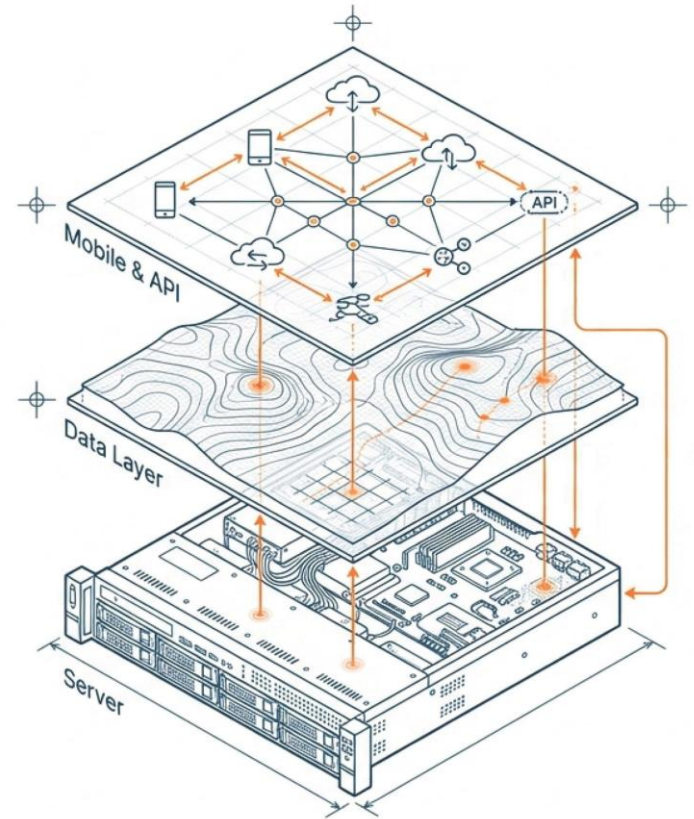


ActiveMap: Field Service Management (FSM) technology platform

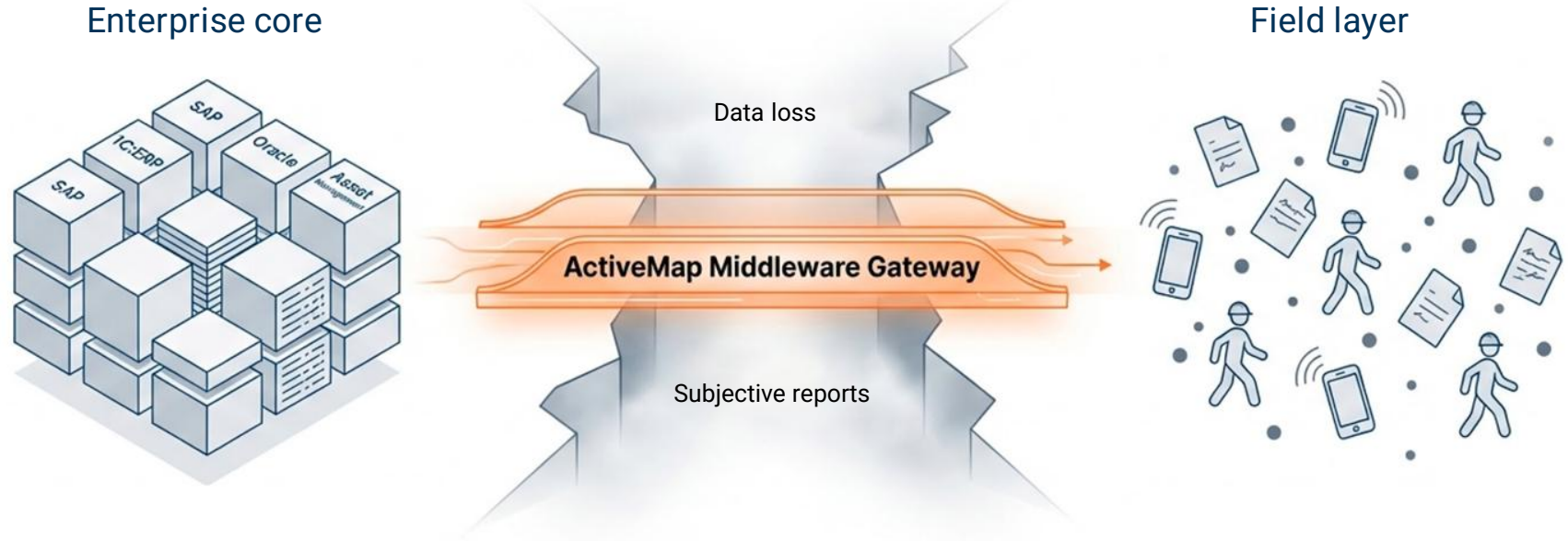
Last-mile automation and field-data collection for enterprise ecosystems

Middleware software for real-time interaction between dispatch centers and field employees. Enables two-way data exchange between the ERP core and the field layer (Android/iOS/Web).

ENERGY | UTILITIES | INFRASTRUCTURE | EAM



The architectural gap: the “blind spot” of enterprise ERP systems



Challenge

Heavy ERP systems manage resources effectively, but are limited at the point of physical work execution

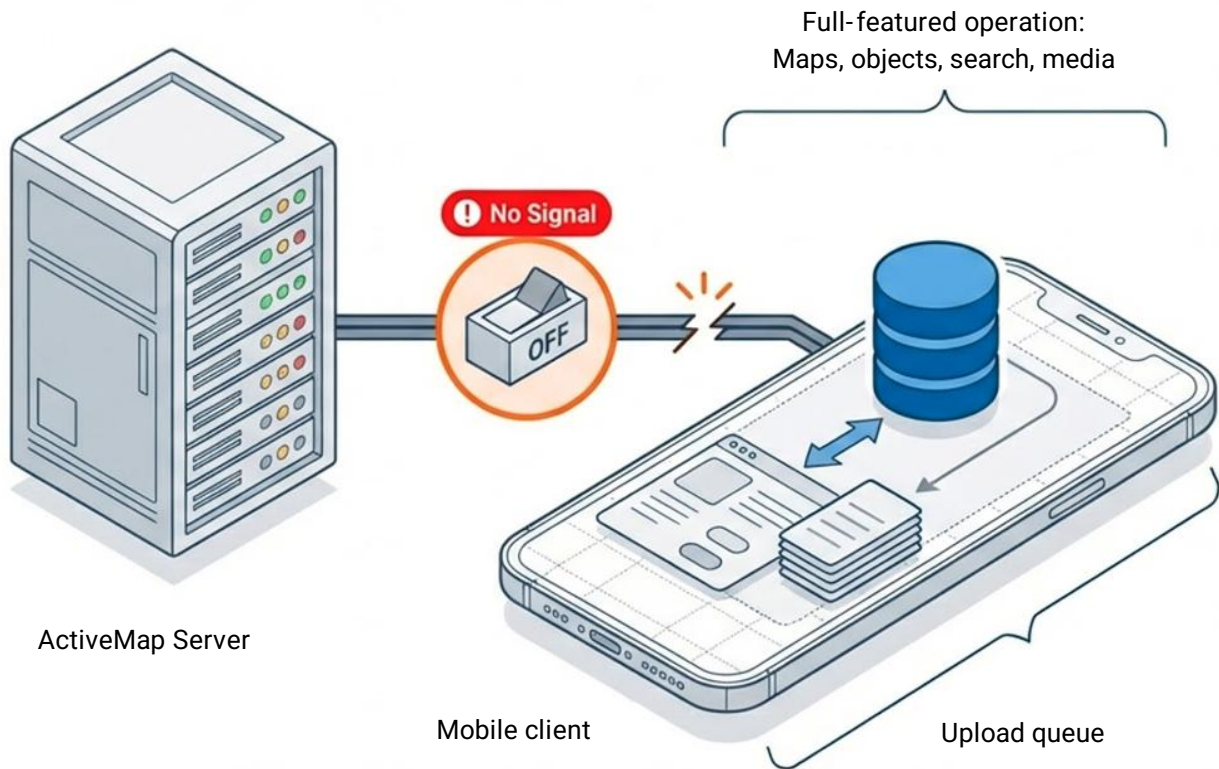
Consequences

A gap between the planned work order and reality. No control in areas without network coverage

Solution

A specialized FSM gateway that turns unstructured field processes into validated data

True Offline: Edge architecture for autonomous operation



Local replication:

The app loads millions of objects into a local SQLite database instead of merely caching the interface.



Background queue:

Changes are stored locally. When the network returns, they are uploaded asynchronously without blocking the UI.



Media handling:

Heavy content (photos/video) is compressed and uploaded in the background.

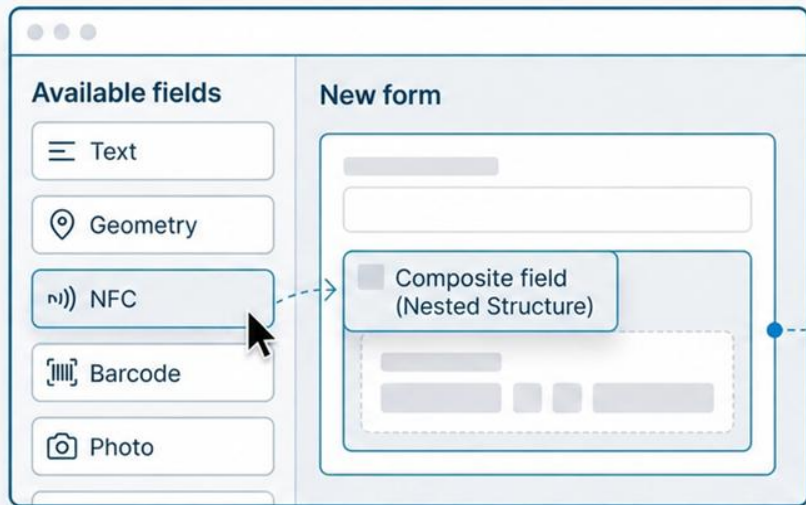


Platforms:

Android, iOS. Distribution outside public app stores.

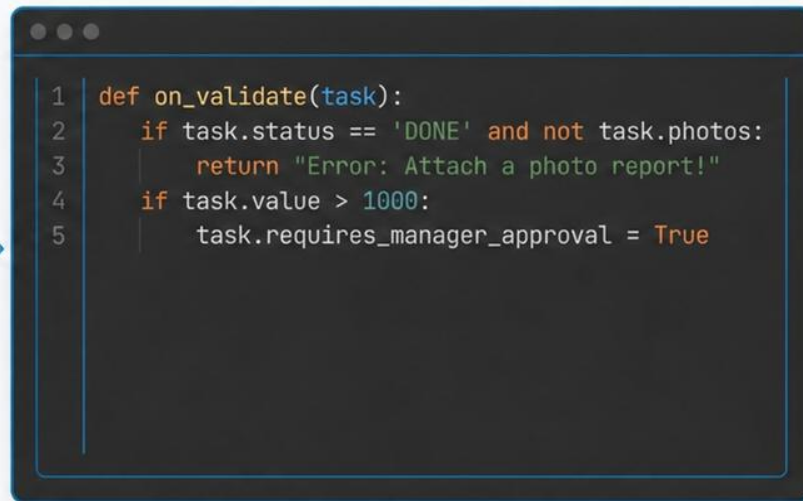
Low-code configuration and scripted business logic

Form builder



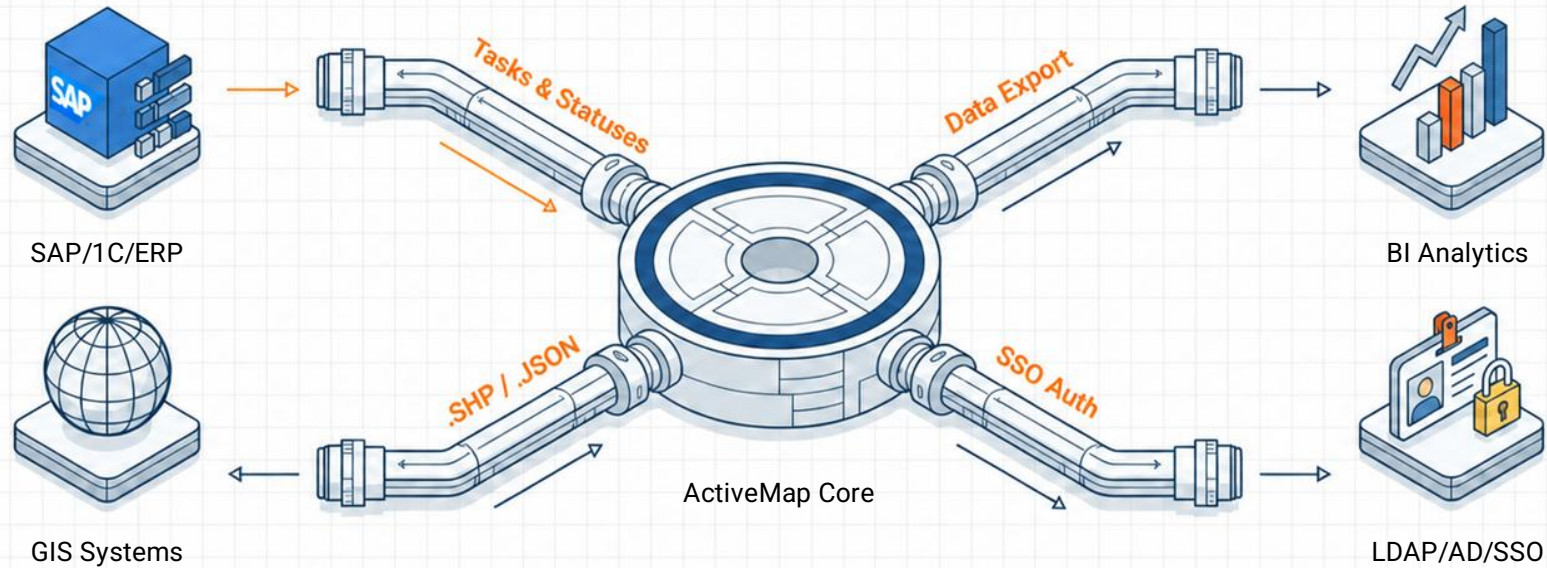
Flexible creation of attributes and first- and second-level nested data structures

Python plugins



Integrated Python environment for complex validation, auto-assignment, and webhook triggers

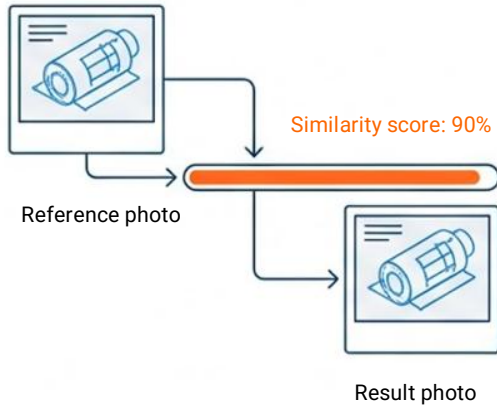
API-first ecosystem: Integration into the enterprise landscape



Technical specifications			
REST API: Full access to entity management (GET/POST/PUT).	Webhooks: Asynchronous event triggers for external systems.	Import/Export: .xlsx, .json, .shp, .tab.	Integration: Deep linking to launch third-party apps from the interface.

Objective control and data-verification tools

AI Photo Control



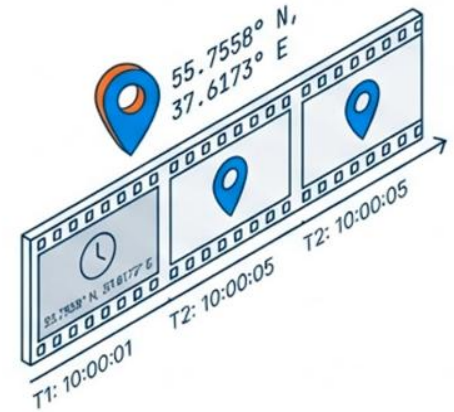
Automatic similarity scoring of the “reference photo” and “result photo” to prevent fraud

BLE/NFC/RFID



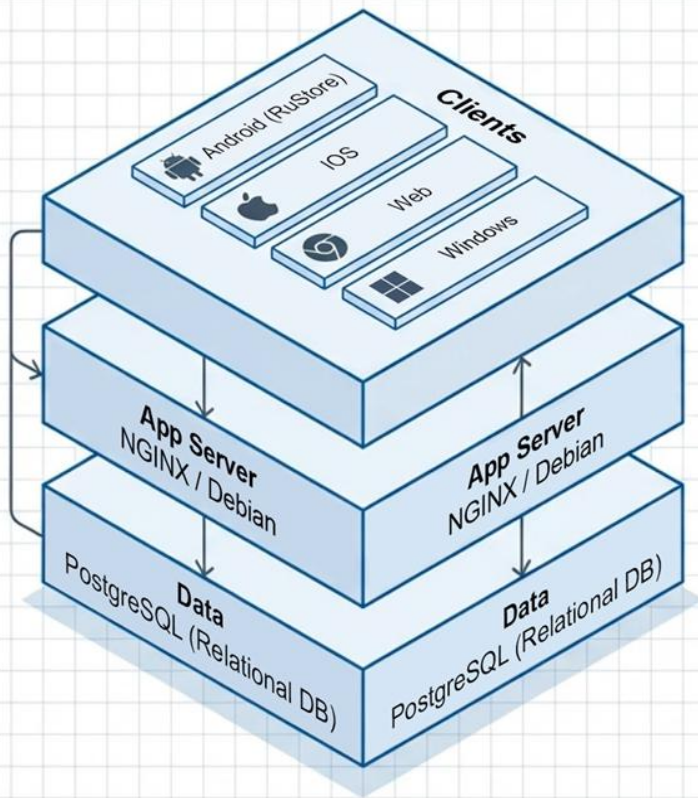
Proof of presence through physical tag scanning. Protection against spoofed GPS coordinates

Smart Media



Timelapse video with a georeferenced route. Photos stamped with time and coordinates

Scale, security, and infrastructure



Deployment

Customer-hosted environment
or private cloud



Architecture

Cluster model: support for
global and isolated clusters
to manage branch networks



Security

Granular role model and full
activity audit (event logs).
Secure communication
channels.



Independence

Works without Google
services. Distribution outside
public app stores. Full
control over data.



Summary: A technology standard for field operations

Enterprise-ready

Scalable PostgreSQL-based cluster architecture



Offline operation

Guaranteed operation without a network connection (database synchronization)



Flexibility

Built-in Python engine and low-code form builder



Independence

Independent of Google services, deployable in an isolated environment



Next steps: Request API technical documentation / Deploy a pilot cluster

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