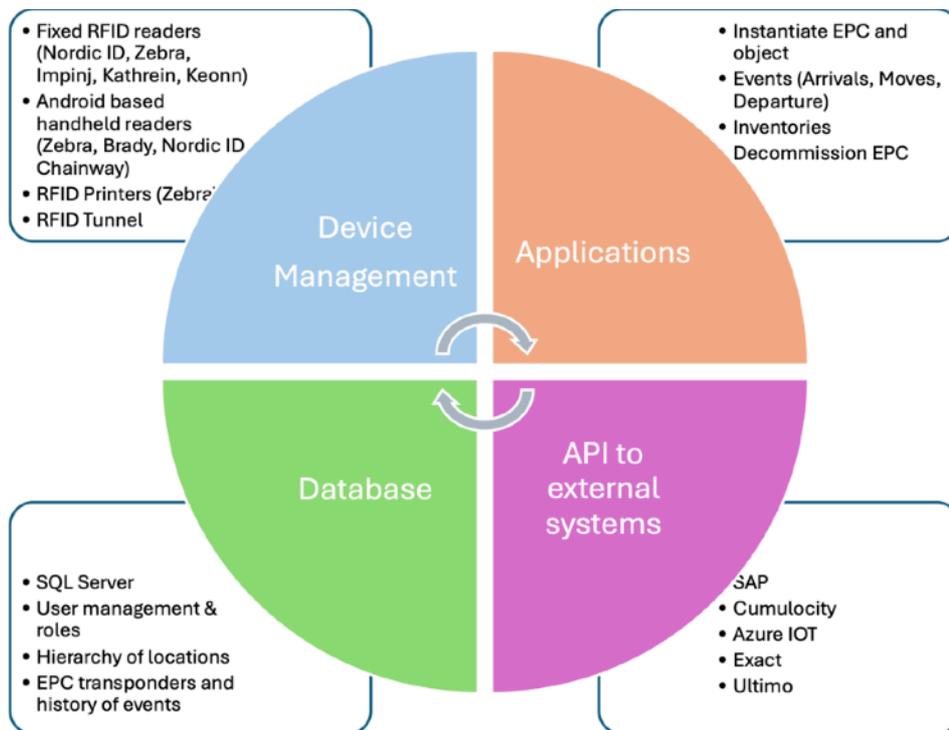


EASY

LOGIC

Software Stack

SMART ID SOLUTIONS



RFID READER SYSTEMS

EasyLogic deploys RFID systems, with embedded Linux computers and its own software, frequently combined with a Teltonika 4G router. Together with suitable RFID antennas this system can be installed in your business, or with your customers, to track and trace goods in your supply chain, automatically order new parts, or perform any other standard RFID activity.

Requiring no special skills to install and configure, the reader connects with the **EasyLogic configuration server** for software updates, automated monitoring of its operation, and retrieves all details of its operating configuration, including endpoints for the transactions and any required security certificates.

The transactions can be sent directly to Azure IoT, Cumulocity, your ERP system or via the **EasyLogic Track and Trace** middleware using REST API's or MQTT.

Since we now have a solution which is simple to install and deploy, but above all very cost effective, we have found that customers are deploying these systems very widely in their businesses.

EASYLOGIC TRACK AND TRACE MIDDLEWARE

ETT is an integrated suite of SAAS solutions, which is the integration layer between your existing IT systems such as an ERP or WMS, and RFID technology.

In a scaleable Microsoft SQL Server database we store all EPC's (Electronic Product Codes) with associated information from your ERP or Asset Management System, and we keep track of all events with these EPC's. This way you always have perfect insight into your inventory with the use of RFID technology.

We analyse your business processes and map events in the ETT middleware onto transactions to be retrieved from or sent to your ERP, WMS or order management system.

ETT communicates via secure REST API's with authentication with your existing IT systems.

ETT provides dashboards for management of locations, events, inventories, user management.

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EASY LOGIC

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EASYLOGIC CONFIGURATION SERVER

Standard functionality provided by our configuration server:

READER AND ANTENNA PROFILE

Here we describe how many antennas are connected to the reader, directly or with a multiplexer. Up to 16 antenna's can be specified.

POWER ALGORITHM

Depending on the usage, we use sophisticated algorithms, reading multiple times at different power levels in order to identify and eliminate reflections of tags, or to prevent spurious one-off reads. This can also be specified remotely. We filter on RSSI, counts and phase information.

SIMPLE FILTERING

We can use SGTIN or EPC filtering, so that we only read tags that we are meant to read.

TRANSACTION DESTINATION

We specify where the read tags should be sent. This can be a REST API, an MQTT end-point, or directly into a database. We have built interfaces to ERP systems like SAP, Microsoft Dynamics, Azure IoT, Cumulocity and many others. We can distribute device certificates for authentication to the RFID devices under control and handle token renewal.

OPERATION MONITORING AND ALERTING

We monitor the on-line status of our RFID readers and the modem connection, using heart-beat signals. We can alert you if something is amiss. We have remote access to the system through a secure connection so that we can investigate if there are problems. We can automatically distribute software updates and configuration changes.

QR CODE

All our readers have a QR code. With this code, you can use a telephone or tablet to log into the control panel of your device, and check its status and last transactions.

DASHBOARD

Upon request we can deliver dashboards which give you immediate insight in the operation of your systems.

INTERACTION WITH MACHINES

Our RFID readers have 4 General Purpose I/O's which can be used to act if certain tags are detected. Using the correct router we can create interfaces to:

- Modbus, PROFINET or RS232/485
- any Ethernet based system, e.g. MQTT

Contact us for more information via sales@easylogic.nl or on +31-182-389530.

