

# CATALOGS

# 6

RFID Software





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**“** *The key of the future* **”**

## RFID Software

*What is it?*

RFID software is the most important part of an RFID application since it requires storage and data processing capacity as well as communication with other hardware elements of the industrial environment.

It allows to abstract from the complexity in the lower levels of RFID (tags, interrogators ...), offering a business logic for each type of logistic or business process.

It provides a management website (cloud) that facilitates access to data from any device, enabling the management of users and roles, as well as the configuration of background tasks (notification system, alarms ...), adapting to the requirements of the current Industry 4.0.

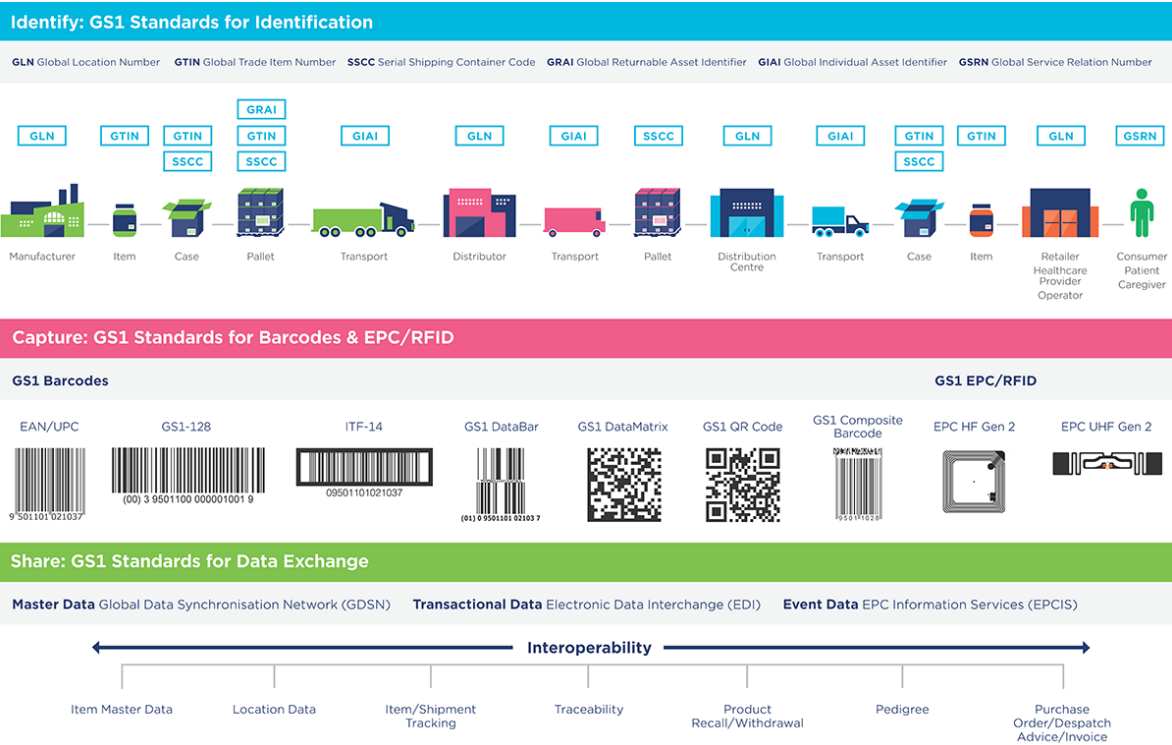
Meraky's RFID software allows the integration of the RFID system with the company's applications or core processes, also called back-end systems.

# 1

## Standards supported

**GS1 Standards:** The GS1 standard allows the unique identification of products, logistics units, locations... enabling interoperability, and the flow of product information throughout the supply chain.

**Custom coding:** In cases where a custom tag coding is required, Meraky software is prepared for writing / reading tags with a custom format.



# 2

## Traceability

The product supply chain continues to increase in scope and complexity. More and more companies operate in a global market, business partners, regulators as well as customers need more information about the products they buy and use. Due to these requirements, the ability to track the product from the origin to the final destination becomes very important.

Traceability allows products to be visible throughout the production chain, thus providing valuable information to ensure the quality and efficiency of supply.



# 3

## Inputs

Products tagged with RFID can be massively scanned and instantly registered in the system, which accelerates the process of receiving goods. Allowing validation of expected products either in a way:

**Manual:** The input tags would be invented and they will be added to the system, and additional validations can be carried out (barcode, reference ...).

**Reception order:** The registered tags are contrasted against a reception order and the entry is validated.



# 4

## Internal movements

Warehouses are the backbone of companies. To improve productivity and control, warehouses increasingly use radio frequency identification (RFID) tags for daily operations. This wireless technology increases warehouse management efficiency, since, unlike barcodes that must be scanned manually, RF tags transmit a signal with information about the product to which they are attached and about the location of the product in the store.

**Between warehouses:** Record of movement of goods from one location to another.

**Reoperations:** Possibility of reoperating the merchandise, for example by modifying the state of an unvalidated box, disassembly of pallets, change of location, etc.



# 5

## Inventory

Information on current inventory levels can be obtained through RFID technology, eliminating the need for manual counting and providing more efficient management by obtaining real-time information on product and asset management.



# 6

## Expeditions

Like the entry processes, shipments can be optimized using RFID technology, registering in the system the tags that will be sent to a customer or store.

**Manual:** The output tags would be invented and noted as issued, being able to perform additional validations (barcode, reference ...).

Receipt order: The registered tags are contrasted against a dispatch order and the shipment is validated.



# 7

## Reverse Logistics

Reverse logistics processes support the entry of items or assets that require special treatment in the production and supply chain.

- *Customer Returns*
- *Return of excess inventory.*
- *Recovery and recycling of containers.*



# 8

## RFID Printing and coding

For companies that require the design, printing and coding of our own tags, we offer desktop RFID printers or in-plant printing (conveyors, printing stations ...) and RFID consumables.





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