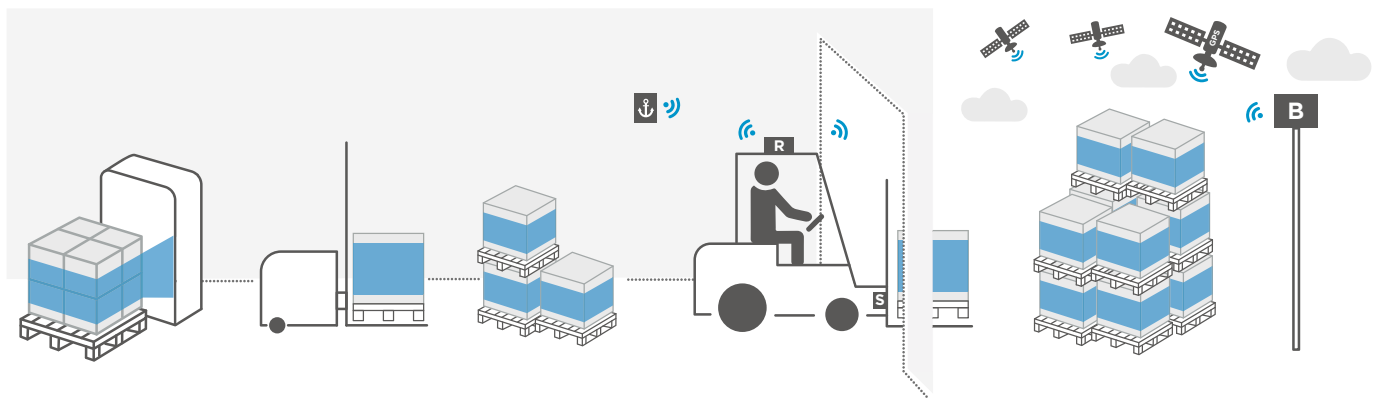


On·Plant/ WMS

with RTLS technology

On.Plant/WMS Ceramic is the **web-based software** developed by Onit **for the management of the logistic ceramic warehouses**. The advantage consists in having a real-time tool which provides a complete view of the indoor and outdoor using **RTLS (Real-Time Location System) technologies**.



Indoor Location

Technology:
UWB (Ultra-Wide Band)

The infrastructure of the UWB system consists of:

- Ceiling-mounted network of anchors
- On-board forklift receiver (R)

To estimate the positioning, a triangulation process is followed based on:

- Known position of the anchors
- Dynamic position of the forklifts

Outdoor Location

Technology: precision
GPS (GPS-RTK)

RTK Systems estimate a differential position using:

- Fixed GPS base station installed on site (B)
- Receiver (R) installed on the forklift

The information collected by the base station is integrated with data from GPS satellites for greater forklift positioning accuracy.

Truck equipment

Forklifts are mainly equipped with the following components:

- Vehicle-mount tablet
- Sensors (S) on the forks
- Bar code reader for the first (and only) identification of pallets from the end-of-production line
- Receiver (R)

Benefits

- Increased operator productivity: automated storage and picking without **bar code scan**
- **Reduced errors** (wrong item, missing material, incorrect load) for greater customer satisfaction
- Unique traceability of every pallet (Handling): **the exact position is** always known in the warehouse 3D map
- **Less broken pallets thanks to zeroing of unnecessary transfers**
- **Reliable inventory by grade/tonality/calibre:** maximum confidence of the commercial segment in materials reservation
- Less incomplete pallets
- Entirely **paper-less and automatic stream of information** for total control of warehouse processes