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