The solution for the control and the optimisation of the automation systems

The automation projects designed by Onit Group aim to maximize the productivity of logistics and process automatic systems thanks to On.Plant/ WCS, the web software module for execution and supervision of all the factory activities.

The system manages various automatic equipment for storage and handling: stacker, miniload, vertical, carousels, crane and compacted warehouses, self-propelling handling systems, AGV, conveyors and sorter, palletizers, weighing scales, printers, automatic readers, systems for voice picking, put/pick-to-light, RFID, etc.

On.Plant / WCS, thanks to the integration with plant or company management software (WMS/MES or ERP), automatically manages the settings of production plants simplifying the work of the operators of the line and maximizing efficiency (OEE).

The integrated supervision of the automatic system allows to visualize the ongoing activities and any faults along the entire layout, checking in real time all the entities of the factory (product, machinery, devices, trolleys, operators, etc.)
**ARCHITECTURE**

- Input raw materials / semi-finished materials
- Sensors
- PLC
- Control traceability and criticality
- Automated transport
- Automated warehouse

**CHARACTERISTICS**

| Flexible and modular solution designed for automation projects | Adaptable to process/layout requirements changing |
| Integrated Solution with MES and WMS modules | Visibility production or warehouse data on supervisor |
| Development of low level control logics on PLC | Complete vertical integration from the supervisor to the PLC |
| Supervisor on the edge of the line and/or from remote | Direct control on the field or remotely |
| Full traceability movements and processes | Security and total control in case of criticality |
| Set of optimization algorithms for the management of the movements and processes | Increase productivity of the factory |
| Summary Report of Performance Analysis System | Rapid identification of bottlenecks or plant critical points |

**TOP FEATURES**

- Extended field driver library (OPC DA/UA, Modbus, Siemens, Schneider, Allen Bradley, etc.)
- Advanced management of field alarms
- Optimization Algorithms