

Power Generators (Preventive Maintenance)

General Concept

This module integrates all the business logic related to the preventive maintenance.

Each department generates the annual preventive maintenance plan depending on the type of the equipment (tower, batteries, etc.), the criticality of each station and the contract obligations signed with each contractor. Build in automations (programs) are provided in order for the system to be updated with external data supplied by the contractors. Finally complete maintenance records are maintained and managed plus the measurements and possible findings.

Main Functionality

According to the maintenance plan, there are 3 main entities managed by the system

1. Tasks work plan
2. Maintenance work plan per contractor and contract
3. Measurements and possible findings records.

In order for the system to register and keep track of the maintenance inventory, specific inspection info is required as follows:

1. Inspection areas.
2. Inspection points which can be analyzed at a second level in inspection data

Possible inspection findings create trouble tickets which are then directed to the contractor for further actions. Upon the settlement of the findings the contractor will return a recovery file to be loaded in the system. External documents which have to be filled in by the contractor should also be inserted in the system as attachments.

Power generators in any functional location play a critical role. They should remain operative 365/24 in order for the functional location to be productive. Power generator info is maintained with rich technical data (Shelter type, S/N, Station category, power node, etc.)

A large number of technical and non-technical info is kept for each functional location. This info for each functional location can be categorized in

- Main Info related to the functional location (id, description, status, Functional type, etc.)
- Basic info (Activation and change status dates, etc.)
- Location info (Address, Geolocation data, Town, PO, etc.)
- Acquisition info with contract and radio / transmission specific data
- Construction related Info (type, coverage, equipment, Housing, antenna info, etc.)
- Sharing and Collocation Info, activation date, etc.
- Electric power provider info and ownership data
- Full history of all the changes of the status

Detailed information at the functional location level, is also maintained to monitor

- All the inventory of the inspection plans, points and finding details
- All the inspection findings

