



# Factory



## MANAGE ALL YOUR INDUSTRIAL EQUIPMENT AND GENERAL ASSETS WITH A SINGLE CMMS

- > All maintenance processes: preventive, curative, safety.
- > Incorporation of basic maintenance (TPM).
- > Automatic integration of regulatory reports.
- > Graphical resource scheduling (certifications, permits, etc.).
- > Inclusion of production constraints.
- > Monitoring and traceability of fixed equipment and linear assets.
- > Interactivity via .DWG diagrams (AutoCAD®), geographic information systems (ArcGIS®), building information models (BIM).
- > Budget control.
- > Customisable graphical indicators (MTBF, OEE, etc.).
- > Built-in connectors to ERP, CAPM and MES software.

# EQUIPMENT ASSETS

## Structure your assets

Your production facilities and general resources (buildings, utilities, networks, etc.) are described via interactive tree structures, linked with your photos, diagrams in .DWG format (AutoCAD), building information models (BIM) and geographic information systems (GIS). These tree structures make it easy to search, navigate and consolidate information using various criteria: geographic, technical, network, etc.

Changes can be made easily by dragging and dropping. These changes are archived and dated, allowing you to see how your assets were structured at any specific past date.

” Your industrial equipment and general resources are described via interactive tree structures, linked with graphical or geographical representation. ”

## Keep track of your assets

Appropriate record sheets are kept for each type of asset (machines, technical facilities, etc.), comprising its technical characteristics, guarantee types and conditions, production data, multimedia documentation, depreciation values, equipment age, date and potential replacement date, and so on. It also contains tracking information such as asset maintenance history, preventive and regulatory maintenance schedules, standardised indicators, etc.

Safety requirements (ATEX classification, lockout-tagout, etc.) are taken into account, enhancing personnel safety. Mimic diagrams of your various networks (electricity, gas, etc.) make it easy to prepare maintenance work and allow you to assess the consequences of problems on associated assets.

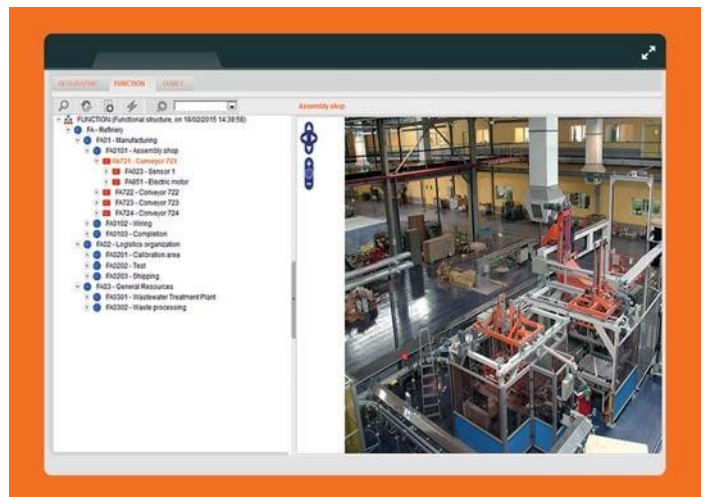
**CARL Source** tracks readings (in hours, kWh, m<sup>3</sup>, °C, etc.) so that you can keep consumption under control and set up predictive maintenance. It can be connected with other information systems (CAPM, supervision systems, MES, etc.) to automatically read values on meters or information from detected alarms. The tree structure shows the spare parts list, along with available quantities, storage locations, and other important information.

# PROCESS PURCHASES

## Manage your purchases

Users make their requests for parts and services via purchase requests. These PRs are converted into purchase orders that are then sent to vendors. Acceptance of delivered items serves as a basis for invoice verification.

Part or all of the purchasing chain can be carried out in your ERP system (SAP, Oracle Application, JDE, etc.), interfaced via the data exchange connectors proposed.



Each list of spare parts is updated to show the quantities of parts used to perform maintenance.

Integration with your geographic information system enables you to manage your linear assets (water and sanitation networks, roads, railways, etc.) and analyse your activity on a geographic basis via speciality topics.

Various processes are implemented to increase efficiency: multi-vendor purchase requisitions, conversion of stock-keeping units and order units, purchases of specific items, budget overrun checks, payments, delivery disputes, vendor scoring, importing tariffs, etc.



# KEEP TRACK OF STOCK

## Optimise your stock management

Your spare parts, consumables, tools, PPE and so on, are classified in family tree structures and linked to corresponding assets. Each item is described in a detailed record listing its characteristics, assignment accounts, storage locations, vendor terms, and so on. **CARL Source** provides batch and serial number management so that you can track the quality of certain types of parts using criteria such as manufacturer's batch number, consideration of expiration dates, asset component exchanges, tracking of repairable items, and more.

## Reduce inventory costs

Inventory movements (reservations, entries and withdrawals, transfers between warehouses, etc.) made in connection with maintenance and purchasing processes are recorded to adjust the quantities available in each warehouse. Replenishment or restocking is triggered when available quantities reach a minimum level. Reservation dates, expected delivery dates and vendor delivery dates are taken into account to ensure greater accuracy. **CARL Source** proposes rules for calculating stock value per warehouse or per group of warehouses.

# COORDINATE YOUR BUSINESS

## Home portal and alerts

All users have a customisable portal (with memos, reports, favourites, indicators, plans, etc.) corresponding to their profile (maintenance, production, contractors, etc.). This portal allows for easier navigation, access to information and decision-making. If alert thresholds are exceeded, **CARL Source** informs you by email of any deviations.



## Analyse your business

**CARL Source** provides a complete library of print and analysis reports: business dashboards, ABC classification of assets by maintenance cost, MTBF (Mean Time Between Failures), OEE (Overall Equipment Effectiveness), ABC classification of categories by inventory value, analysis of symptoms, causes and remedies for individual equipment, etc.

**CARL Source** includes various key analyses: variation in turnover per supplier, article statistics, ABC breakdown, variation in consumption counters, variation in monthly budgets or types (allotted, committed, performed, etc.).

Wizards can be used to easily create customised reports and indicators, enabling users to extend the library.

A geographic analysis of your activity is proposed via speciality topics, based on your maps.

## Control costs

Cost control is an essential business activity. It is organised per accounting period based on the three-way accounting model: cost accounting, management audit and general accounting.

Find out more about our references on our website [www.carl-software.com](http://www.carl-software.com)



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