



Maintenance Management

Superior management of Equipment and Fleet Maintenance!
Optimize business processes and drive business growth with our proven solutions and premier services

The ever changing scenario of global competition and technological advancement poses major challenges and pressure on the maintenance department, whose main objective is to provide safe and secure continuous operation at highly demanding levels.

The health of your equipment has considerable impact on the productivity and efficiency of your plant and consequently determines the profitability of your organization.

Challenges faced by the industry today include optimal productive condition; meeting legal and vendor warranty requirements for operation; limiting downtime and accessing equipment information in places where no PC access is available.

Maintenance Management offers your organization an all-in-one solution that gives you real-time information across your business. Maintenance Management supports your organization by optimizing your plant's preventive periodic maintenance and internal maintenance requests as well as repairs. At the same time you have direct access to all the data you need regarding equipment, resources and logistics.

BENEFITS

- Ability to manage and track the maintenance of equipment installed in the organization
- Increased up-time of equipment by doing timely maintenance
- Ability to generate preventive and ad-hoc work orders for servicing equipment
- Better maintenance and repair cost containment
- Improved operational performance and efficiency
- Obtain overall control of installed equipment from an operational and financial perspective
- Increase in workforce productivity and first-time fix percentage
- Detect work order priorities via Severity Matrix (Questionnaire)



For more information about
Dynamics Software please visit:
dynamicssoftware.com

KEY FEATURES

- Supports a multi-level equipment structure (e.g. complete plants, buildings, production machines)
- Generates preventive and ad-hoc work orders for plants and equipment
- Supports tracking and tracing of maintenance and repair work orders
- Provides full financial forecasting and cost evaluation
- Supports maintenance logistics, financials and work orders for the maintenance crew and workshop
- Real-time statistics on costs and revenues of the plant equipment

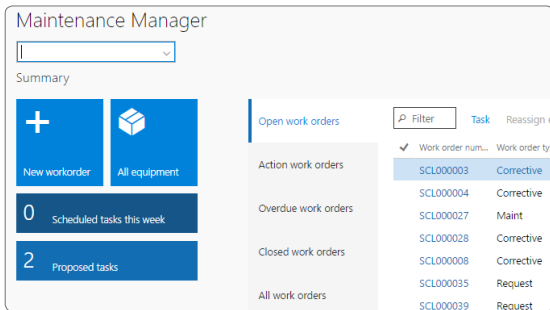


Figure 1: Work Order Overview

- Seamless platform-independent integration to any modern-type mobile device (tablet, phone etc.)
- Optimized maintenance planning and scheduling using the Graphical Planning Board

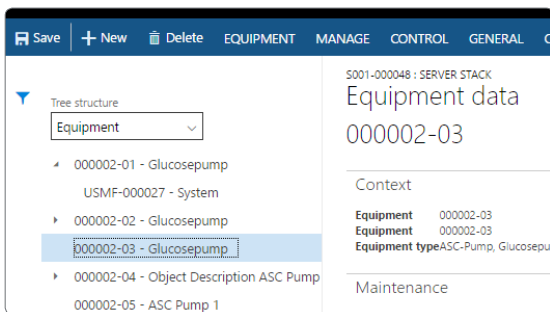


Figure 2: Maintenance Schedules

Maintenance Management is fully integrated with the Microsoft Dynamics 365 for Operations Logistics, Projects, Finance and Resources modules.

Maintenance Management offers your organization the tools to be in control of:

SHORT TERM

- Full visibility on open work orders (ad-hoc and preventive)
- Status of maintenance work orders with respect to applicable deadlines
- Early spare part availability notification

LONG TERM

- Support for preventive maintenance based on flexible maintenance schedules and frequencies
- Required resource availability versus available resource capacity
- Financial planning based on estimated maintenance

Maintenance Management provides a strong platform to help you control and manage the preventive and ad-hoc services required for plants and equipment's.

It supports a wide range of functions and empowers your company to meet the challenges of growth, giving you the insight into your business that you need to succeed in an increasingly competitive global environment.

EQUIPMENT MANAGEMENT

The equipment management master file can be used for:

- Storing information such as Equipment type, serial number, warranty etc.
- Storing information such as cost center, department or other financial dimensions to which maintenance expenses are to be posted
- Defining equipment property sheets to maintain relevant technical information about the equipment
- Attaching notes, drawings and other relevant documents using Dynamics 365 for Operations document management

The equipment management master file is also the single source of information regarding historical operational and financial information.

Turnover loss	Material Damage	No Health Risk	Possible Health Risk	Likely Health Risk	Persons Injured
\$0-\$5000	No Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$5001-\$10000	Minor Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$10001-\$15000	Considerable Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> \$15,0000	Severe Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 3: Severity Matrix

Optimize the management of Equipment and Fleet Maintenance!

WORK ORDER MANAGEMENT

With work order management, Maintenance Management provides accurate information about upcoming preventive maintenance as well as adhoc maintenance.

Maintenance Management serves as a central point of information where your employees can keep relevant work order status updated. Having accurate information available lets you monitor and track the open work order in an effective and efficient way.

All work order information will be stored and linked to equipment providing a knowledge base for future repairs. Important features of work order management are:

- Generating work orders for adhoc repairs as well as for preventive maintenance
- Facility to monitor progress of open work orders
- Option to add multiple tasks to one work order
- Defining template for standard hours and spare parts

PREVENTIVE MAINTENANCE

Planned and preventive maintenance work orders offer great flexibility in managing different types of maintenance activities.

Maintenance Management offers full flexibility in defining maintenance schedules for preventive maintenance. The actual generation of the preventive work orders can be automated. Just like adhoc work orders, the preventive work orders will appear in the to-do list of the maintenance planner to be assigned to the technicians/engineers.

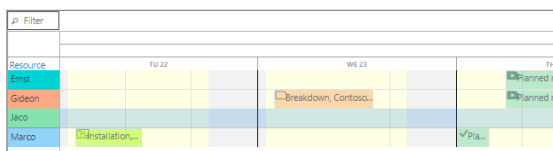


Figure 4: Graphical Scheduling Overview

RESOURCE SCHEDULING

With Maintenance Management you get a graphical scheduling overview for an interactive planning of upcoming work based on outstanding priorities and the availability of people.

Using the scheduling overview, your planner has all the necessary data in one or two separated screens with drag and drop functionality from the maintenance tasks to the planning.

PURCHASE CONTRACTS

Support for purchase contracts with third party vendors is also possible. These purchase contracts can be defined for hours and items. When entering hours or items on a task, Maintenance Management will detect whether the hours or items are linked to a purchase contract. Maintenance Management will automatically alert the user that specific purchase contracts exist for the data entered.

FLEET MAINTENANCE

In the same way that equipment can be managed, it is similarly possible to manage the fleet management via Maintenance Management. Specific fleet registration can be extended with specific information on the fleet. The Property Sheets can be used to extend the information source for more specific fleet, vehicle or driver information.

Mileage, fuel and expense registration via a mobile device is one of the very useful features that has been seamlessly integrated. Based on either mileage or time, preventive maintenance scheduling is performed.

TOWARDS PREDICTIVE MAINTENANCE WITH IOT

Maintenance Management has proven to be valuable in helping companies to get better control on preventive maintenance whilst being able to register corrective maintenance. At the same time, introduction of Internet of Things (IoT) devices unlocks the potential of connecting virtually every maintenance equipment and start capturing data, without having to have an engineer inspecting the equipment.

So rather than having to send out engineers to capture data, validate it and then decide on required maintenance activities, now you can let the equipment predict its own needs for maintenance and repairs. And this unlocks the possibility of moving from preventive maintenance to Predictive Maintenance.

By leveraging Microsoft's Azure IoT Suite technology, it is possible to extract the key data from the machines and in combination with our long time experience in Maintenance management, to convert this data in to valuable management information.



MAINTENANCE MANAGEMENT: A QUICK OVERVIEW

Equipment	<ul style="list-style-type: none"> Graphical equipment builder Equipment can be associated with Inventory Full financial maintenance history Full logistic maintenance history Maintenance of hierarchical equipment structures User definable equipment property sheet Monitor cost spent on equipment
Equipment Types	<ul style="list-style-type: none"> Equipment class and manufacturer maintenance Recurring tasks with BOM as item context Flexible maintenance schedule per equipment type Forecast of time and materials for each maintenance schedule line
Event Codes	<ul style="list-style-type: none"> Pre-defined material and hour usage per equipment type on work orders Forecasting on preventive maintenance Statistics on budgets and realizations
Work Orders	<ul style="list-style-type: none"> Standard and simplified screen for registering Standard extended entry form for fast work order and task creation Severity matrix SLA deadlines per status Logging of changes Monitoring progress and status Routing
Planning & Scheduling	<ul style="list-style-type: none"> Graphical planning Drag and drop functionality Partial rescheduling Integrated production scheduling overview to align Maintenance and Production schedules Forecast of hours and items Graphical view of resources assigned to maintenance request Detailed information by directly zooming in

Tasks	<ul style="list-style-type: none"> Actual usage registration Multiple work orders per work order Documents for assignments Full support for logistics Workshop “baseline”, capacity in work-center, including planned maintenance
Overview / Analysis	<ul style="list-style-type: none"> Standard and user defined queries Standard and user defined reports Graph of action codes on volume axis Graph of action codes on time axis OLAP table Cockpit view for financial data
Integration	<ul style="list-style-type: none"> Dynamics 365 for Operations Project Management and Accounting Dynamics 365 for Operations Resources Dynamics Software Maintenance Management Dynamics Software Graphical Planning and Scheduling Dynamics 365 for Operations Accounts Payable Dynamics 365 for Operations Accounts Receivable Dynamics 365 for Operations Purchase Orders Dynamics 365 for Operations Fixed Assets
Pre-requisites	<ul style="list-style-type: none"> Microsoft Dynamics 365 for Operations

ABOUT DYNAMICS SOFTWARE

Dynamics Software offers powerful industry-focused solutions integrated in Microsoft Dynamics 365 and solutions using Azure, Office 365 and SharePoint; supported by premium services from our highly experienced industry and domain experts. Our solutions are sold, implemented & supported worldwide by our industry experts, premier partners as well as selected Sales and Certified Value Added Resellers. Dynamic Software's outstanding dedication to customer satisfaction through the delivery of innovative business solutions saw us being named to 2014 Microsoft Dynamics Presidents Club. For more information visit dynamicssoftware.com.

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