

# PACKAGE SELECTION GUIDE

**OpenICM Asset & Maintenance management IIoT Portal** : has a modular structure with many modules and functionalities that operate as a single entity or work together. In this way OpenICM can fulfill the primary and current needs and grow along with your needs.

## Basic

With the OpenICM basic package you can make use of all the most common needed modules like structure, documents, basic planning, procedures, local tags and predictive maintenance basics.

## IIoT & Predictive

With the OpenICM IIoT package you can make use of all the modules in the basic package but extra are the options to gather external tags, dashboarding, modelling and advanced scheduling.

## Adaptive Analytics

With the OpenICM Adaptive Analytics package you can make use of all the modules offered in the IIoT package and the adaptive planning tools, self-learning capabilities, extensive dashboarding options, criticality analysis and usage of the predictive modelling database.

## Cloud Connect

Connect to any (Cloud) application like SAP, Azure but don't forget a wide variety of SCADA systems and Databases are supported.

M02AV2 ●●	Planning basic	Scheduling of maintenance based on previously defined tasks or ad-hoc activities. Taking in account resource, tools and materials availability.
M03AV2 ●	Planning advanced	Adaptive planning based on pre planned activities (static), predictive models and asset condition monitoring. Advanced planning can take in account production schedules.
M04AV2 ●	Analyses	A wide variety of predefined analyses in perspective of asset condition, system and organization performance.
M05AV2 ●●●	Dashboard basic	All data collected by OpenICM can be visualized in various charts, graphs and tables.
M06AV2 ●	Dashboard advanced	Multiple dashboard can be created using real-time and historical data. Advanced functions include APP charts and interactive charts and graphics.
M07AV2 ●	Web SCADA	A fully web based SCADA / HMI system to be used for real-time dash boarding, machine operation and process alarming.
M08AV2 ●●	FMECA	An advanced toolbox to determine Criticality and Failure mode analyses. Based on the FEMCA outcome, focus areas and assets can be determined and MTBF's will be calculated is an input for advanced planning and scheduling.
M09AV2 ●●	Production scheduling	Finding to optimal between maintenance and production can be achieved by synchronizing existing planning to OpenICM. However OpenICM offers an advanced production scheduling system which can schedule based on availability, demand ea.
M10AV2 ●●●	Historian	All data connected to and actions taken are logged into the OpenICM historian. Historical data will be kept for at least 3 years based on a FIFO policy.
M11AV2 ●●●	Tags & Variables	Systems like PLC's and other third-party equipment can be connected to OpenICM via a native protocol like Profinet or Devicenet, but also UPC-UA and TCP/IP are possibilities. All data will come together in the Tag & Variable module. From this module tags are logged, use in analyses etc.
M12AV2 ●●●●	Equipment	Keep track of all tools and machinery necessary to execute maintenance. Automatically allocate tools for planned maintenance and keep track of who hold te tool and at which location.

M14AV2 ●●●●	Breakdowns	Breakdown reports and resolutions per asset are kept here to be scheduled and assigned to maintenance engineers. This module allows automatic assignment based on competence, experience and location hence an optimal utilization or resources can be achieved.
M15AV2 ●●●●	Objects / Assets	All assets have their own set of properties, documents, schedule, dimensions etc. This essential module will be the starting point of each asset management system.
M16AV2 ●●	Predictive	The predictive module allows analysts to build cause and affect blocks that predict failure or wear based on historical and real-time data.
M17AV2 ●●●	Timesheets	Allows resources to book time to cost centers, send invoices and create reports on work done.
M18AV2 ●●●	Reasoning	Handy tool for operators and maintenance engineers to find and analyze root causes. The resulting findings can be used in breakdown reporting and predictive modules.
M19AV2 ●●●	Invoicing	Send and keep track on invoices based on work done, used material, parts and other costs.
M21AV2 ●●●●	Logbook	Resources can leave a message for each other. Handy for work in progress between shifts and everything that doesn't have to be in reports but is good to know.
M22AV2 ●●	Interfacing	OpenICM is able to communicate in various formats, protocols and with various OT and IT systems. Interfacing is used to automate synchronization between these systems and export / import data based on trigger or interval.
M25AV2 ●●	Permits	Completely electronic permit system. In combination with LoTo instructions. Fully integrates into the planning system. Make standard Hazops and R&IE.
M26AV2 ●	Logging	Logging enables to define which data to be logged from any data source. The function is also used to configure smart sensors.
M27AV2 ●●●●	Documents	All documents for all assets, inspection procedures, certificates etc. ordered according to the asset breakdown structure, check in and out, document control and various search and group functions.

M30AV2 ●●●	Competence	Registration of user competence, availability, certificates, experience, tariff etc.
M31AV2 ●●●●	Ordering	Order spare part and materials directly from OpenICM. Ordering contains all assets and components defined and components from all major brands. Ordering suggests alternative parts when your standard component is not available.
M32AV2 ●●●	Relations	Record of all suppliers, clients and any other relation.
M28AV2 ●●●●	Alarming	Alarm triggers and actions connected to certain variables can be defined. Automated SMS, Whatsapp, phone calls can be executed when an alarm occurs
M29AV2 ●●●●	GEO tracking	Connected devices with a GPS or 3 Point location signal can be visualized onto a map. The map can be used to indicate location, asset state and allows to navigate inside OpenICM to for instance associated documents and alarm history.
M13AV2 ●●●	Material stock	Keeps track of necessary stocklevels based on planned maintenance and criticality.



### OpenICM Portal APP\*



Maintenance engineers and operators can access the platform via the OpenICM APP (Android Phone or Tablet) to view real-time data, historical trends, warnings and settings, maintenance history, procedures and documentation. Via the cloud or local network, the OpenICM APP can be used in the same way as the OpenICM portal to view breakdowns, work orders, machine information and more. The EVDL can also be accessed by the App to view all that is stored on the EVDL.

### Easy access IIoT App\*



Maintenance engineers and operators can access the ERL sensor via the OpenICM Sensor APP (Android Phone or Tablet) to view real-time data, historical trends, warnings and settings. This App is included for the sensor.

\* Included in all packages

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