

CMMS³
MAINTENANCE
MANAGEMENT
SYSTEM





CMMS³ is asset management solution designed by RAMCUBE to support maintenance operation

CMMS³ allows the user to develop a “Computerized Maintenance Management System” comprising the array of regulations, procedures and tools involved in collecting and processing the information needed to manage maintenance operations and to monitor equipment activity. Our user-friendly software is 100% developed in Italy and is easy to implement.

RAMCUBE is able to offer a range of support services such as training for users, plant data collection and loading, BOM creation, SPIL vendor checking, defining maintenance policies, WBS (Work Breakdown Structure) creation and workflow approval processes, resource rationalization, workload management. It is also involved in the drawing up and evaluation of the plant's key performance indicators.

Through a consolidated partnership with Microsoft, CMMS³ is available on the Microsoft Azure™ platform for easy cloud implementation, guaranteeing a high level of application and data availability



MAINTENANCE

Scheduling preventive maintenance, allocating resources and planning maintenance activities

BUDGET AND COSTS

Plant maintenance cost planning, checking final operation costs

STOCK AND GUARANTEES

Stock optimization and guarantees management

RISK AND AVAILABILITY

Equipment reliability assessment, resulting in increased availability and overall safety of the equipment

DOCUMENTATION AND PROCEDURES

Management of the technical documentation of the equipment and centralization of maintenance operations

AVAILABILITY

Improvement in equipment yields and reduction in interruptions to production process

OPTIMIZATION

Balanced maintenance of spare parts in stock

CONTROL

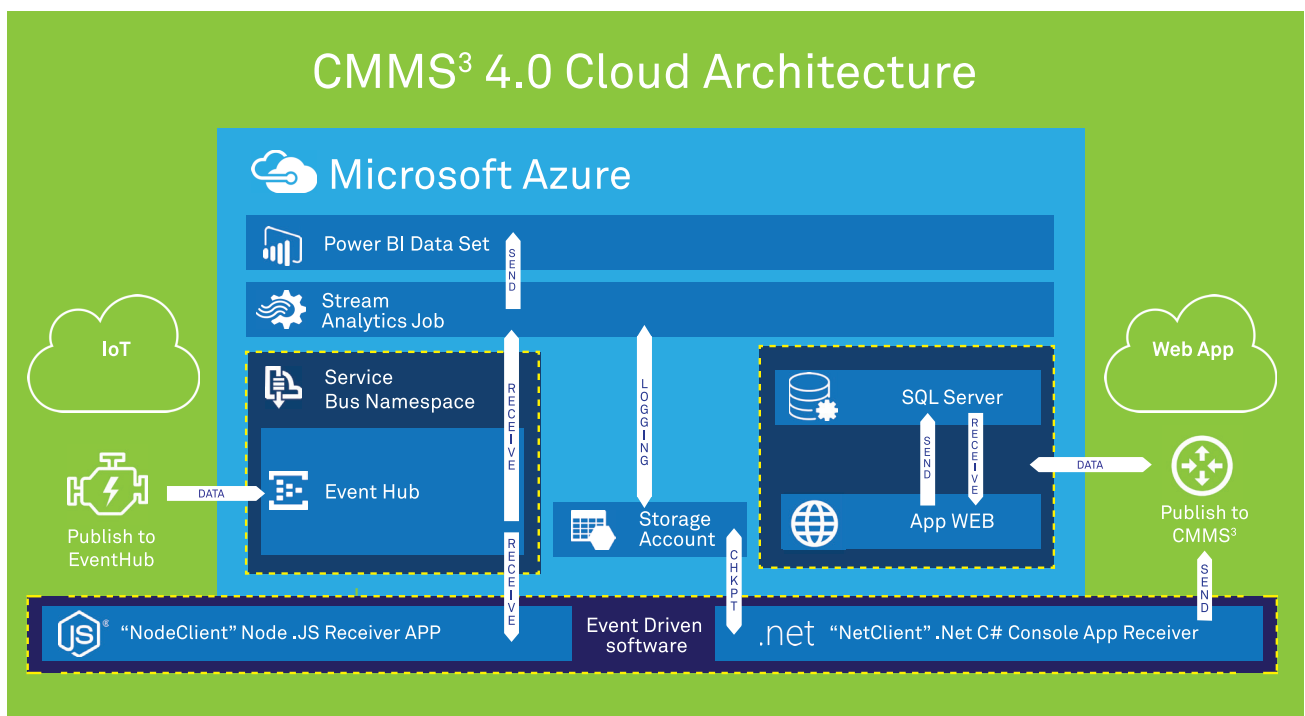
Tracking of work order advancement and of the interventions on each piece of equipment

PERFORMANCE

Improvement in performance and prolonging the equipment's life-cycle



CMMS³ is now available on the Microsoft Azure™ platform for easy cloud implementation. This application has been completely redesigned in order to allow your whole application infrastructure to be stored onto a cloud management system, including databases, file storing and staging areas



CMMS³ MOBILE is a new application designed and created by us for plant maintenance and building site technicians

This mobile version can be easily installed onto a smartphone or tablet, wholly satisfying the employee's need for mobility, at a speed which the modern professional requires.

CMMS³ MOBILE allows users to access centralized server data and technicians can therefore receive and send data directly from where they are carrying out an intervention.



MAIN FEATURES

- Direct assignment of work order
- Georeferencing of the piece of apparatus requiring attention
- Consultation of on-site apparatus documentation
- Consultation of apparatus activity history
- Closing of the work order in real time with data synchronization in on-line/off-line modes
- QRCode interfacing
- Photographic documentation of the intervention being carried out

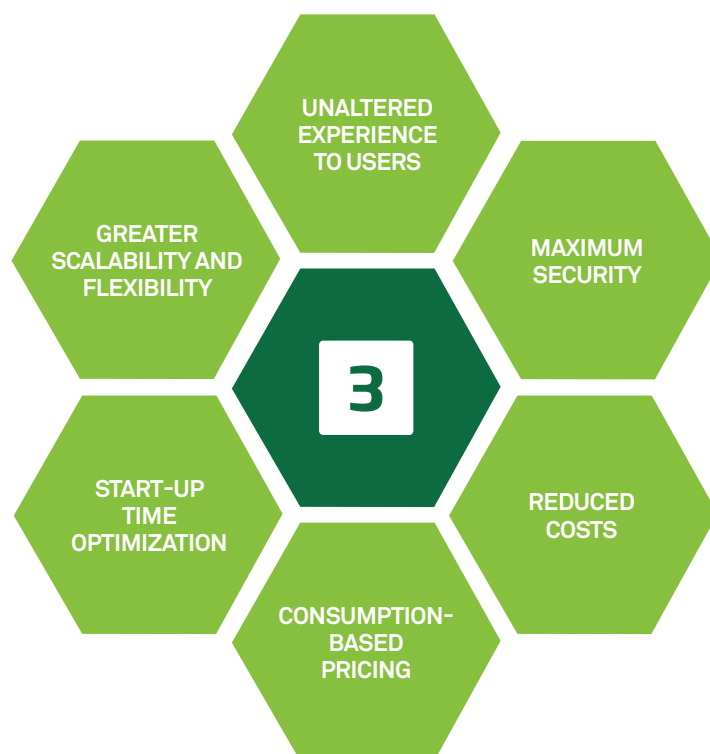


BENEFITS

- Punctual identification of the piece of apparatus requiring attention
- Time-saving assignment of work order
- Emergency control
- Immediate control over activities being carried out
- Control over incoming data
- Off-line terminal use



Deliver the full potential of
Microsoft Azure™
for easily deploy our CMMS³
on the cloud, assuring high
availability of the application
and the data





UNALTERED EXPERIENCE TO USERS

CMMS³ ensures unaltered experience to users, whether it is deployed on-premise or through the cloud.

The application has been fully redesigned in order to host your entire application infrastructure in the Microsoft Azure™ - including databases, file-storage and staging areas



MAXIMUM SECURITY

Security is among the key concerns when a company considers shifting to cloud computing: this is why RAMCUBE has designed CMMS³ for Microsoft Azure™ on the principle of guaranteeing maximum security developing its compliance framework to fully meet regulatory requirements



REDUCED COSTS

Pay only for what you use: a pay-as-you-grow plan allows for reduced upfront costs.

By employing the full resources of cloud computing, CMMS³ for Microsoft Azure™ allows to cut costs of your on-premises IT resources. And administration costs are curtailed because the infrastructure maintenance is carried out for you off-premises



CONSUMPTION-BASED PRICING

Microsoft Azure™ pricing is consumption-based, with a per-hour fee based on the size of the instance and per-month or per-transaction fees for storage services on the basis of data size. Application maintenance costs are cut dramatically: costs are charged only for computer processing time and storage space actually employed



START-UP TIME OPTIMIZATION

Waiving infrastructure and platform issues, your company focuses fully on development of application and functionalities: curtailing development time and significantly reducing your application's start-up time



GREATER SCALABILITY AND FLEXIBILITY

As your users base grows and the usage of your application increases, it is a simple matter of adding on capacity to ensure your application continues to run smoothly.

You don't ever have to worry about running out of server capacity. Application deployment to Microsoft Azure™ platform is utmost fast, ensuring implementation of changes with no downtime

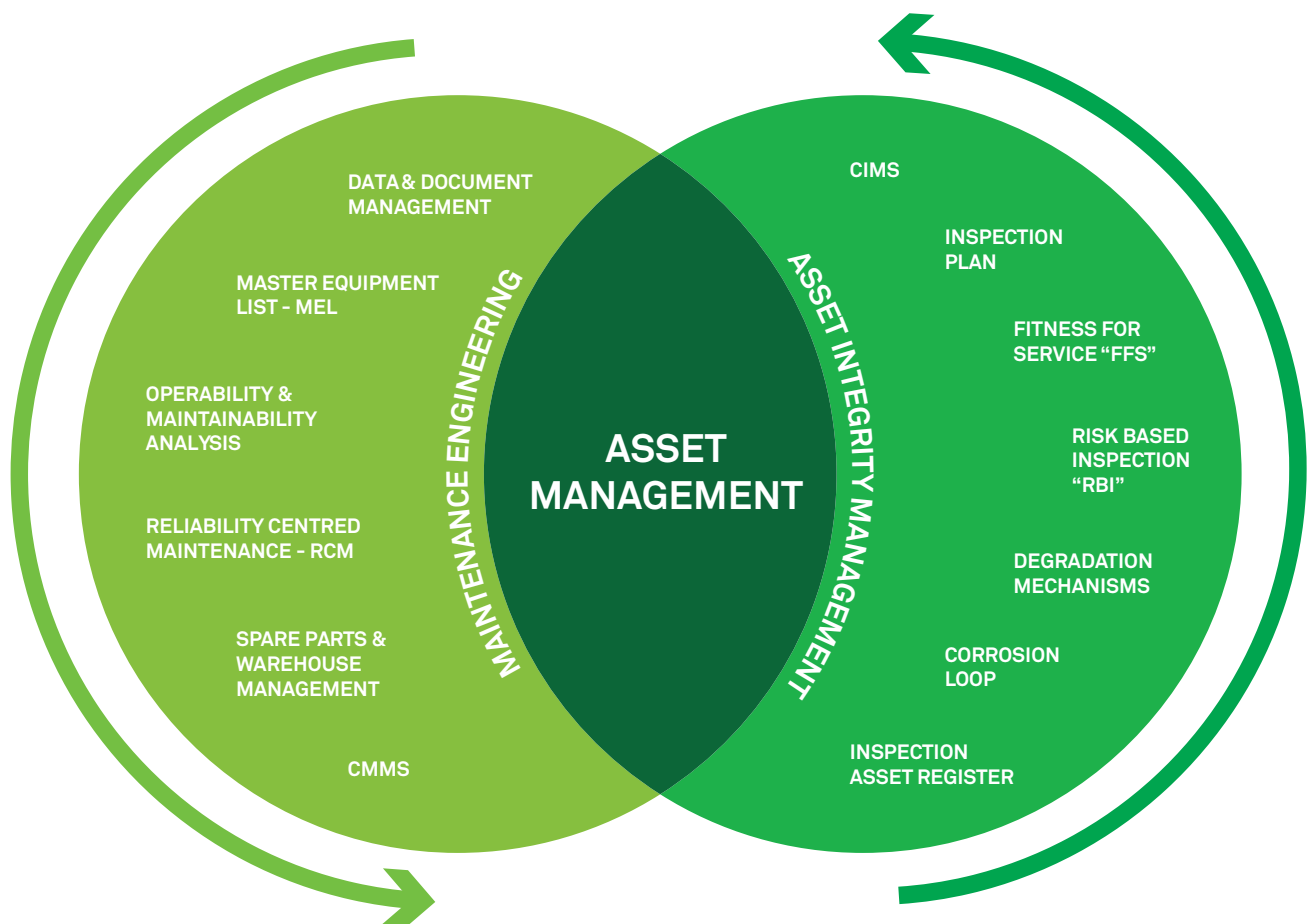


During the lifecycle phases of a Project, starting from the Project Concept, followed by a feasibility study preliminary Design and then the detail of the asset design, there are a lot of opportunities for influencing the quality of the asset in terms of construction, functionality, reliability, availability, maintainability, inspectability and cost.

Maintenance Engineering and Asset Integrity Management are sure two approaches useful to evaluate the lifecycle of the asset, during the different phases of a Project, and finalized to optimize the Asset Life.



RAMCUBE Asset Management Services are addressed to provide and to assure the best Asset Life Cycle Management





DATA & DOCUMENT MANAGEMENT

- Managing data & document relevant to components, materials and documents
- Cost reduction
- Rationalization and optimization of company processes integration of engineering, maintenance and production



MASTER EQUIPMENT LIST - MEL

- Definition of the item to be included in the maintenance analysis
- Development of an appropriate “maintenance manual” for the collection of all the vendor operation and maintenance manuals



OPERABILITY & MAINTAINABILITY ANALYSIS

- Checking and assuring operability and maintainability aspects
- Ensuring that engineering and procurement of project facilities meet safety, accessibility, operability, maintainability and HFE objectives



RELIABILITY CENTRED MAINTENANCE - RCM

- Determination of “what activity” is required for each item in terms of maintenance
- Failure mode and effect analysis (FMEA) development
- Criticality analysis development
- Selection of the right maintenance policy to apply for each item
- Customized maintenance plan





RAM ANALYSIS

- Evaluation of the reliability, availability, maintainability and safety of complex systems
- Determination of the production availability
- Suggestion of potential solutions in order to improve the reliability and the availability of the plant



WAREHOUSE MANAGEMENT

- Managing and optimization of all spare parts necessary for the operations
- Material coding
- Optimization of the warehouse stock levels with the anticipated behaviour of the equipment
- Availability and storing into the site warehouses
- Interchangeability report



CMMS

- Document management
- Maintenance activities management and scheduling
- Approving work flow
- Resources and material optimization
- Key performance evaluation





INSPECTION ASSET REGISTER

- Clearly definition of the item to be inspected
- Appropriate, adequate and customized inspection plan
- Rationalization and optimization of company processes integration of engineering, maintenance and production



CORROSION LOOP

- Definition of homogeneous groups of items in terms of design, operating parameters, material, and inspection topics
- Determination of potential damage mechanisms, corrosion types and corrosion rates for each corrosion loop and item
- Risk ranking



DEGRADATION MECHANISMS

- Identification of the appropriate degradation mechanism
- Determination of the susceptibilities for all item
- Quality, appropriate and effectiveness of the inspection techniques to be selected



RISK BASED INSPECTION - RBI

- Optimization of the inspection activities performed
- Risk ranking
- Improving the management of the assets integrity and reducing the overall costs for inspection and monitoring
- Identification of the areas and items with higher risk categories and development a prioritized list for more in-depth inspection or analysis



FITNESS FOR SERVICE - FFS

- Procedures assessment
- Taking in consideration of the plant history
- Calculation of the remaining life of an item
- Defects characterization



INSPECTION PLAN

- Development of the appropriate and customized inspection plan
- Development of written scheme of examination linked for each item in order to manage what, when and where inspection will be performed and the most appropriate inspection techniques



CIMS

- Inspection activities management and scheduling
- Approving work flow
- Inspection report management
- Non destructive testing - resources and material optimization
- Remaining life and corrosion rate calculation

RAMCUBE is able to supply specialized resources and specific software applications for the collection and management of plant data and documents



DATA MANAGEMENT

- Management and planning of engineering documentation
- Interface with and support to the project teams for all the monitor and control activities of the works in progress
- Protocol of all technical documentation
- Paper and computer linking of the documentation
- Project cost control and planning



DATA COLLECTION

- Vendors' data collection relating: TAG, models, spare-parts, operating instructions, maintenance instructions and technical documents (data-sheets)
- Control and qualitative analyses of the data collected
- Creation of technical database preparatory to the activities of plant production and maintenance
- Generation of a plant data book
- Computerized transfer of the collected data to the Customer's IT systems via: identification of data and structures to be transferred, format and template specification for data and document transfer, implementation of a file storage for sharing, managing, controlling, downloading and retention of data and documents



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