



# **Enterprise Asset Management for Manufacturing**

## Predicting not just detecting

Manufacturing facilities constantly face increasingly complex challenges with equipment sophistication, parts lead times, regulatory and competitive standards, decreasing labor and skill availability leading to equipment failures, missing supplies, and tighter margins. Moving from reactive maintenance to proactive and predictive maintenance through the implementation of CMMS software for manufacturing plants will give you better control and help prevent equipment breakdown and failures.

Proteus is the ideal solution if you have one plant, multiple plants or multi-national plants. Proteus is available in most languages for South America, Europe, Middle East and Asia. Proteus also supports local currencies.

Proteus MMX is an easy to use solution (available as Cloud or On-Premises) moving manufacturing facilities from transactional site-specific processes to a systematic enterprise-enabled management platform for all assets resulting in:

### Manufacturing equipment management

You can monitor asset performance, initiate preventive/predictive maintenance measures, and easily collect data on your assets. This allows for better risk management, warranties, and change notices. When integrated with the factory floor and MES/ERP systems for a Connected Enterprise, you can quickly identify when and where to deploy your resources.

### Equipment reliability

Improved maintenance strategies properly executed will ensure the accuracy and reliability of production equipment and increase asset life, increase manufacturing capacity to meet production schedules.

### Regulatory compliance

Tracking maintenance activities with Proteus CMMS software helps with regulatory inspections and ISO certification. In addition, track changes with audit trail module. Comprehensive performance and management reports are also available with Proteus CMMS software.



### World Class Manufacturing (WCM)

Part of the World Class Manufacturing methodologies (WCM), the Machine ledger in PROTEUS MMX records the maintenance of the machinery, revealing the root causes of the faults, while at the same time feeding a historical archive for failures, PM's and unplanned maintenance and parts usage.

### Budget Module

In addition to helping you track your expenses, Proteus MMX assist with managing budgets.





# Proteus MMX Features



## Asset profile management

Compile accurate information on equipment to analyze performance, meet audit requirements, schedule preventive maintenance, and reduce capital expenses. You can also group equipment under predefined classifications such as Repetitive or Job Shop.

## Barcoding and data collection

Barcoding/QR coding makes it easy to label and track equipment, inventory, employees and work orders. Users can scan equipment to retrieve work order history, current work orders, add parts to work orders, bills of material, capture failure reasons, and attach pictures to communicate issues at the job source.



## Calibration for Gage/Tools

Schedule, record and track calibration and repair activities. Track out of tolerance and deviation to manage product quality. Use for gages, instruments, tools.

## Inspection

Document and protect inspection procedures on each piece of equipment and initiate inspections based on time, equipment performance, or previous work ensuring equipment such as dock locks to meet the safest condition possible. Technicians can manage calibrations for instruments and track failures and critical problems.

## Mobile Asset tracking

One database for all asset information allows for easy retrieval, input on activities, parts usage, and maintenance. RFID can be used to ensure information is always up to date on mobile assets from grinders to forklifts based on their location at the time work is to be performed.

## Connected Enterprise and Integration

Integrations available for most popular IIOT (Industrial Internet of Things) platforms. Also for machine controls and PLCs (Programmable Logic Controller) from Rockwell, Siemens. Data analytics interface allows you to manage predictive maintenance.

Proteus Alarm Interface (PAI) provides continuous alarm monitoring via a direct interface to Building Automation Systems (BAS) such as Tridium, Honeywell, Trane, Johnson Controls, Siemens, Schneider and many more! PAI automatically issues work orders based on alarms, events or equipment runtimes. The work orders define specific tasks and parts required to complete the job quickly and efficiently. Work orders may be sent via e-mail, printer or sent directly to a technician's mobile device, informing them of alarm status and actions.

For connected enterprise, we offer integrations with popular MES (Manufacturing Execution Systems) and ERP (Enterprise Resource Planning) systems such as, SAP, Oracle, Microsoft Dynamics etc.

## Contractor Management

Record maintenance activities completed by your service providers, compile equipment histories. Manage contractor quality control.

# Proteus MMX Features



## Key Performance Indicators (KPIs)

With real-time data dashboard, manufacturing equipment can be monitored by the maintenance team to quickly identify potential problems. You can set KPI's to monitor critical issues for your organization to ensure you are compliant with regulatory requirements. KPIs are also available for performance monitoring and management information.

## Mobile

Record and track equipment with mobile and barcoding/QR technology for accurate, efficient, and effective deployment. Use Proteus MMX mobile to create new, receive and close work orders on your iOS, Windows 10, or Android® based phone/tablet device.

Microsoft Windows Mobile is a registered trademark of Microsoft Corporation. iOS is a registered trademark of Apple, Inc. Android is a trademark of Google Inc.



## Warranty management

Plan ahead, receive notification on warranty expiration dates coming due.

## Security and Risk management

It is vital to manufacturing factories that assets perform as expected to avoid liability claims, and comply with regulatory requirements GMP, ISO, and Best Practices.

Proteus MMX allows for;

- Gathering of equipment histories
- Scheduling and performing preventive maintenance tasks
- Managing and monitoring Assets and inventory
- Performing Inspections and calibrations
- Implementing user levels of access and rights in Proteus MMX
- Password Protection and security
- User-specific accounts
- Track all record changes, altered fields, value changes, date and time of the change, and whether the change is a data insertion, update, or deletion.

# About us



## Proteus MMX provides asset management functions to increase maintenance quality and scheduling while decreasing downtime

For over 30 years, Eagle Technology, Inc. has been developing Enterprise Asset Management (EAM) and Computerized Maintenance Management Systems (CMMS) that are flexible and meet customer needs. Users in 34 countries use our products to manage their manufacturing assets, preventative maintenance, and supplier quality.

Our team of professionals is available to you, providing on-going support, training and consultation services, making sure you get the most out of your investment. We are available to teach best practices, 5-S (Sort, Set In Order, Shine, Standardize and Sustain), and we offer project management and turnkey implementation.







## Contact Us

Not sure if Proteus MMX from Eagle is for you? One of our manufacturing experts will gladly advise you on the best solution for your facility's unique needs and compliance requirements, as well as assist in the plan to go from firefighting to preventive and predictive maintenance.

[Email Us](#)

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