Oracle Maintenance Cloud

Oracle Maintenance Cloud enables effective and efficient maintenance operations. With shrinking margins and declining capital spending, companies need to operate their assets with greater efficiency, uptime and effectiveness, while utilizing existing resources. An integrated asset management system is essential to achieve this. Built on a modern cloud platform, Oracle Maintenance Cloud leverage advances in the Internet of Things (IoT), Artificial Intelligence (AI), and Machine Learning (ML) to make smarter decisions and drive efficient maintenance operations in the cloud. Oracle Maintenance Cloud provides maintenance and integrated supply chain materials management and costing, embedded analytics and '2-click' ease of use, optimizing your maintenance processes and maximizing user productivity. Cloud, desktop, tablet, mobile, scanning and social technologies are combined to provide a modern maintenance solution that enables you to efficiently plan and execute work, and achieve end-to-end visibility into your maintenance operations, all in the cloud.

EFFICIENTLY MANAGE YOUR MAINTENANCE OPERATIONS IN THE CLOUD

KEY BUSINESS BENEFITS

- Increase equipment reliability and reduce downtime
- Reduce maintenance costs
- Efficiently plan & execute work
- Rapidly implement using quick set up
- Attain end-to-end visibility into maintenance operations

MAINTENANCE SOLUTION IN THE CLOUD

Oracle Maintenance Cloud delivers a modern, integrated maintenance solution without the expensive hardware and system management overhead costs.

VISUALLY DESIGN MAINTENANCE PROCESSES

Oracle Maintenance Cloud provides intuitive, visualization, and web-based interface tools to build a foundation of maintenance organization data and design your maintenance processes.
Quickly define the necessary master data for your organization hierarchy & process standards, including:

- Working calendars, work areas, work centers, resources

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• Predefined library of standard maintenance operations (including resources and usages)

Visually define your maintenance processes using Work Definition. Define the maintenance operation steps, and then drag and drop resources and materials to the process to easily complete the flow. Leverage Oracle Social Network to collaborate with colleagues and stay connected regarding updates to work definitions.

Figure 1. Work Definition - Visually design a work definition

DEFINE AND MANAGE ASSETS

Asset Definition is fundamental to your entire maintenance solution, enabling you to create assets so they can then be properly maintained and repaired.
Quickly and easily create a maintainable asset in Oracle Maintenance Cloud via four distinct flows:
- Create an asset via the Manage Assets page
- Procure an asset via Oracle Procurement Cloud
- Build an asset using Oracle Manufacturing Cloud
- Import asset via spreadsheet

Once an asset is created, you can collaborate with colleagues and stay connected regarding updates to an asset using Oracle Social Network. You can also define an Asset Hierarchy to help visualize where assets are located and the upstream and downstream implications of an asset failure.
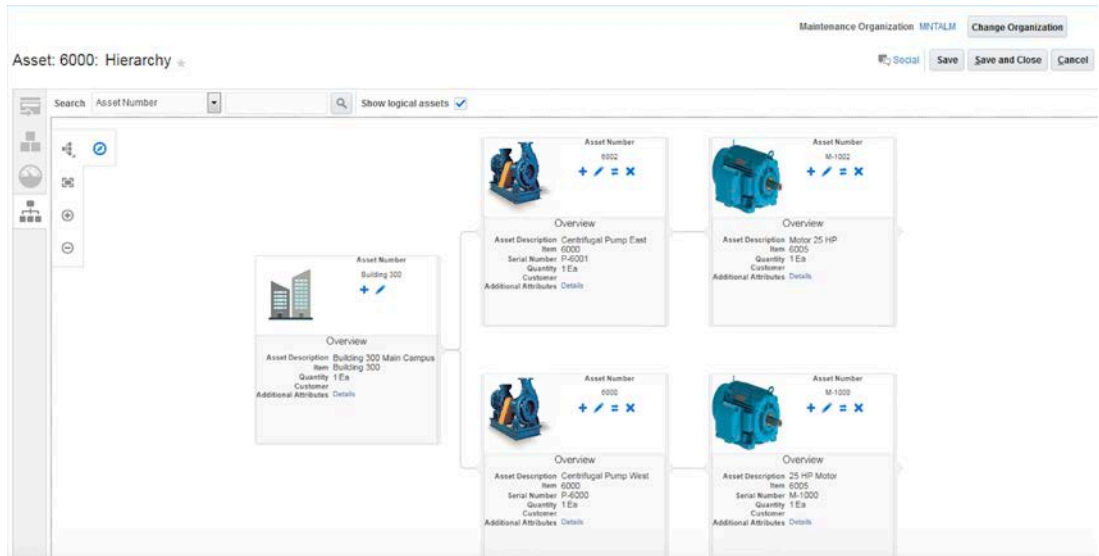

Figure 2. Asset Hierarchy – visually depict physical asset hierarc

EFFICIENTLY MANAGE MAINTENANCE OPERATIONS WHILE ON THE GO

The Maintenance Management landing page provides a quick look at critical information about your maintenance operations. You can view key metrics, and drill into the details to take action and resolve any issues. Metrics about your problematic assets, as well as the overall maturity of your maintenance program are also provided.

Work orders are socially enabled so you can collaborate on problems using Oracle Social Network, and Oracle Transactional Business Intelligence gives you quick and easy reporting capabilities. All designed for use on a tablet and/or smartphone, so you can take action on the go.

Figure 3. Maintenance Management landing page

The Maintenance Dispatch List provides an overall view of scheduled work, and changes to operations that may impact your priorities. This simple, intuitive, easy to use dispatch list, requires only 'two-clicks' to complete work orders, enter material and labor required to complete a work order, and enter work order completion information...again optimized for the tablet.

Figure 4. Review Dispatch List - execute and complete work orders

SUPPORT FOR PREVENTIVE AND PREDICTIVE MAINTENANCE METHODOLOGIES

Maintenance Cloud supports both Calendar Based and Meter Based Maintenance Programs that calculate the preventive maintenance forecast and create work orders. You can define dynamic work requirements that consider calendar patterns, asset meters, and optionally IoT-based conditional events as inputs in the forecasts. Multiple work definitions can be defined for a work requirement to support both cyclical and noncyclical interval maintenance.

Maintenance programs are a foundational requirement for preventative maintenance of an asset. Over time, they require periodic auditing to make sure that they are aligned with the latest supplier-defined recommendations, meet maintenance availability goals, and are optimized to reduce labor and material costs. These recommendations can come from Oracle's maintenance machine learning platform or from other artificial or human intelligence sources.
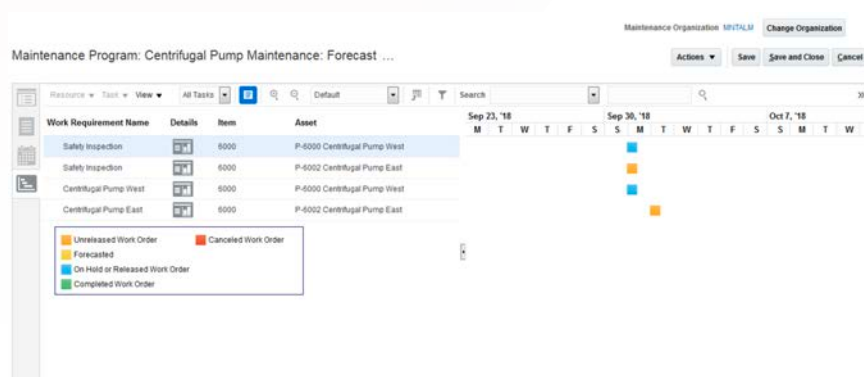
Figure 5. Maintenance Program Forecast – Gantt Chart – effectively plan work

SEAMLESSLY INTEGRATE WITH YOUR OUTSIDE PROCESSING SUPPLIER

Automate the process of managing both your internal maintenance operations and supplier operations for a work order. Streamline and effectively manage your extended supply chain to reduce cost, ensure timely work completion, and improve visibility.

- Manage, review and monitor supplier operations
- Create work orders with the supplier operation services included
- Receive and complete the supplier operations for serial-tracked assemblies from the supplier
- Review and print the work order traveler to provide details of the supplier operations
- Create and manage purchasing documents for the service

REVIEW AND ANALYZE MAINTENANCE COSTS

Oracle has a robust cost management solution, supporting the costing and analysis of your maintenance processes. Flexible work order costing supports all costing methods – standard, actual, LIFO, FIFO – or even multiple simultaneous costs - one for your official external reporting, and one for your internal management reporting. You can define cost by asset, work order or type of work performed, providing you with the insight you need to control material and resource costs.

Monitor maintenance work order costs throughout the entire lifecycle of the work order, from initial charges through work order close. This insight is essential for determining the "repair vs replace" strategy for maintaining assets.

Figure 6. Review and Analyze Work Order Costs – highlights 'bad actors'

ORACLE TRANSACTIONAL BUSINESS INTELLIGENCE FOR MAINTENANCE CLOUD

Oracle Transactional Business Intelligence provides flexible, ad hoc reporting capabilities directly from the transactional system, enabling you to easily query and generate reports, such as exceptions reports and current state performance reports.

Figure 7. Oracle Transactional Business Intelligence - real time, self-service reporting

Users can view and analyze four key maintenance areas - work order execution, material usage, resource usage and asset - enabling you to run the reports you want, when you want them.

STANDARDS-BASED ARCHITECTURE

Oracle Maintenance Cloud is built on a best-in-class, internet-based architecture that provides maximum flexibility and lowest total cost of ownership.

- Internet Application: All Oracle Maintenance Cloud functionality is accessible via standard web browsers, enabling organizations to deploy globally with minimal effort.

- Secure Collaboration: Oracle Maintenance Cloud's security model enables companies to collaborate with contract maintenance providers– by enabling these parties to access relevant information and business functions in Oracle Maintenance Cloud.

- Service Oriented Architecture: Oracle Maintenance Cloud fully supports a Service-Oriented Architecture (SOA) for maximum business process flexibility. Companies can support their specific business process requirements by leveraging the solution's web services.

- Scalability: Oracle Maintenance Cloud's flexible architecture enables companies to start small and expand as necessary to support growth in users, transaction volume and business processes while maintaining high performance service levels.

ORACLE CLOUD APPLICATIONS

The Oracle Cloud offers self-service business applications delivered on an integrated development and deployment platform with tools to rapidly extend and create new services. The Oracle Cloud is ideal for customers seeking subscription-based access to leading Oracle applications, middleware and database services, all hosted and expertly managed by Oracle.

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