Oracle Discrete Manufacturing Information Discovery

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E-BUSINESS SUITE

Oracle Discrete Manufacturing Information Discovery is a new revolutionary application from the Oracle E-Business Suite Information Discovery solution set. It allows shopfloor users to quickly find actionable information in real time, improve their productivity and meet customer commitment. It enables customers manage their manufacturing operational costs and leverage their investment in Oracle E-Business Suite.

"Highly Productive, Modern User Experience, Faster Information Discovery & Analysis and Guiding Users to Better Decisions on Diverse and Changing Information."

KEYBUSNIESS BENEFITS

Improve manufacturing operations efficiency

- Quickly identify and manage component shortages and resource bottlenecks
- Find and resolve shop floor exceptions and quality non-conformances as they arise

Meet customer commitments and reduce business risk

- Rapidly identify and react to customer order delays and other changes
- Instantly discover and rectify production constraints across manufacturing plants

Manage outsourced manufacturing cost overruns

- Identify subcontract order delays early and adjust production schedules to meet on-time customer delivery
- Quickly identify the right alternate supplier to help mitigate outside processing quality non-conformance

Real Time View of Shopfloor Status

Oracle Discrete Manufacturing Information Discovery is an exciting new innovation that allows shopfloor managers and supervisors to manage the manufacturing activity smartly. It brings a paradigm shift to the way the shopfloor users interact with the Oracle Discrete Manufacturing application for manufacturing management.

In order to achieve high productivity and efficiency on the shopfloor, it is critical that the managers and supervisors have real time view of the shopfloor at their fingertips. Oracle Discrete Manufacturing Information Discovery provides the real time view of the shopfloor work orders, across organizations and departments that the users have access to. It empowers the shopfloor users to gain quick insights at both high level and at granular level on the work order information. There by significantly improve productivity, manage customer commitments and reduce business risks and manage manufacturing cost overruns.
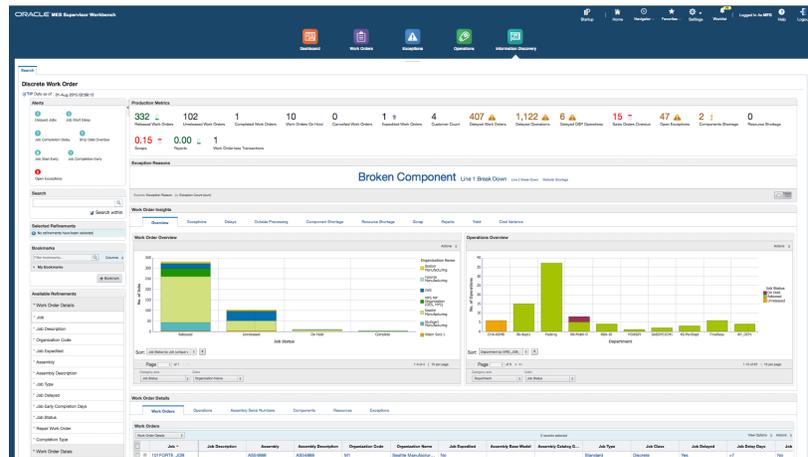

Figure 1. Discrete Work Orders 360° View.

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problems

Manage At-Risk Projects

- Identify root causes of project risks and make adjustments
- Warn project managers of late tasks and work orders before they affect deadlines
- Identify and modify tasks and work orders impacted by schedule or resource corrections
- Quickly identify and update task and work order information
- Improve accuracy and productivity of project teams

Manage Project Supply Chain Execution

- 360° degree view of Project Supplier Chain activities with tag clouds, guided navigation, graphs and record tables
- Analyze Oracle Projects and Project Manufacturing data from different dimensions.

Reduce Project Manufacturing Costs

- Alert on project material shortage, summarize on-hand quantity, on-hand balance and on-hand history by project locator
- Analyze PTD/YTD revenue, cost, margin, margin percentage, budget, backlog, commitments, and total cost

Focus on Project Manufacturing Details

- Exceptions for overdue and out of sync Work Orders, Purchase Order, Sales Orders
- Project Work Order insight analysis with drill down to Operations, Components and Line Schedules.

360° View of Current Work Orders

Oracle Discrete Manufacturing Information Discovery provides simple intuitive data discovery and analysis capabilities for complex discrete manufacturing work order data. It provides unique, easy to use powerful search capability for the shopfloor managers and supervisors to instantly find answers for ad hoc questions that are otherwise hard to find answers in real time. For example,

- What is the key issue causing work order delay on the shopfloor? Which customers and sales orders are impacted due to the delay and why delay?
- How many work orders are currently on hold and what is the reason?
- Which work orders require a specific component that is having a supply shortage and what is the impact on production schedules?
- How many shopfloor exceptions are still open and which departments / operations are affected? What are the reasons for those production exceptions?
- Which outside processing operations are having delay, which are the suppliers and what are the PO details?

In a traditional search, user would need to specifically know the exact search criteria on what they were looking for and had a limited view of the results. The revolutionary search interface guides the shopfloor managers and supervisors to visualize the real time issues on the shopfloor. It provides a 360 degree view of open work orders for both in-house and outsourced manufacturing operations. The extension allows the shopfloor users with a shopping type of experience to explore all relevant work order data to uncover the manufacturing bottlenecks and take corrective action quickly to meet their customer commitments. The new dynamic and modern user interface guides the user towards discovering answers to questions of specific interest faster in the context of managing current challenges on the floor.

Figure 2. Discrete Manufacturing Information Discovery – Discrete Work Order Solution Overview.

Fully Integrated with Oracle E-Business Suite

Oracle Discrete Manufacturing Information Discovery seamlessly integrates with Oracle E-Business Suite Discrete Manufacturing and Manufacturing Execution System for

Real Time View of Shopfloor Status

- High level and detailed views of current work orders status
- Key production metrics, interactive summary charts and tag clouds
- Manufacturing exceptions insights
- Work In process progress insights across orgs, departments, operations and resources
- Work In process quality and cost variance insights.
- Outside manufacturing operations insights

360° View of Current Work Orders

- Work Order Assembly, Serial Numbers, Sales orders, Customers, Project &Tasks
- Routing Operations, BOM Components, Resources, MES Exceptions
- Move Transactions, Quality Rejects and Scrap, Cost Variances
- Outside Processing Operation Supplier, Requisition, Purchase Orders
- Descriptive Flexfields, Cross Organizations, Unstructured Notes/Attachments,
- Work Order-less Transactions

Full Visibility of Project Manufacturing

- Dashboard access to project, work orders and task information using alerts, graphs and summarized metrics
- Find projects, tasks, work orders and assignments using guided navigation and universal searching
- Interactive tables with detailed project, work order, task and plan information reduces navigation to multiple pages
- Use quick links to initiate project actions or update multiple tasks in a single update

Modern Technology with Mobility

- In-memory technology platform
- Guided navigation for work order information discovery

Discrete Manufacturing (MES) application release 12.1.3 and above and provides a rich user experience for E-Business Suite Discrete Manufacturing users. The information discovery application provides the navigation gateway for users to the discrete work order transactions to take necessary actions quickly. The integration automatically honors the organization access data security configured in E-Business Suite for the discrete work orders while securely displaying the information from the data discovery application user interface components. Oracle Discrete Manufacturing Information Discovery can be configured to sync up data from E-Business Suite manufacturing as frequently as desired, up to near real time.

Reduce Project Risks

With Oracle Project Manufacturing pages, you can use alerts, graphs, charts and key summarized metrics to identify potential risks to project performance and take immediate action. Dashboard access lets you quickly view important information about projects, work orders, tasks or task assignments that can potentially affect the schedule or profitability and make quick updates. You can use the alerts, charts, graphs and metrics provided out-of-the-box or easily and quickly configure your own.
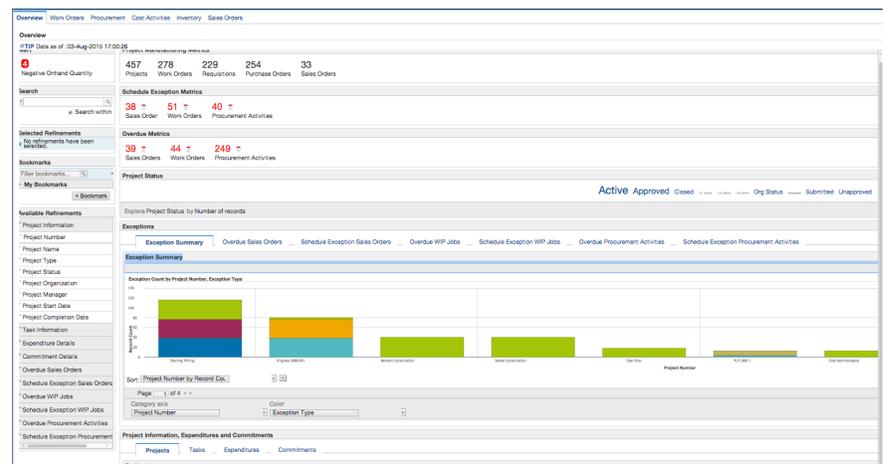

Figure 3. Discrete Manufacturing Information Discovery – Project Manufacturing Solution Overview

Identify Project Risks: Using the new project search and overview, alerts help you discover the projects at risk. Use the alerts provided to identify late or unapproved projects or easily configure your own. Use the cost analysis graphs and charts to compare actual costs and identify the projects with the best or worst performance against their cost budgets. The project delays chart helps you quickly see the projects that have not started on time and the summarized metrics provide at-a-glance financial totals for the projects in your operating unit.

Take Corrective Action: Once you identify at-risk projects, you can view many project details from the project list table on the project search and overview page or use the convenient, quick links to access detailed project, work orders and task information, transactions and plans. If you need to take corrective action to resolve root cause issues, use the quick link to initiate project actions, such as updating the project team, creating, viewing project plans or change orders or modifying the project status reports.

Mitigate Project Delays

Unexpected delays in the start or end dates of tasks can affect your project schedule.

- Structured and unstructured text data discovery
- High productivity application user interface components
- Mobility for shopfloor users

Fully Integrated with E-Business Suite

- Seamless navigation to work order transactions
- Out of the box E-Business Suite security integration.

The new work plan overview page uses alerts, charts and graphs to help you identify tasks and work orders that can affect your schedule and allow you to take corrective action.

Identify Potential Schedule Risks: The new work plan overview page uses alerts, charts and graphs to help you identify tasks, work orders with the potential to affect your project schedule. Use the alert provided to discover tasks that are scheduled to end but not yet completed. Alternately configure your own alerts to notify you when scheduling conditions pose a threat. Additional charts help you quickly identify tasks or work orders with delayed start dates, delayed completion dates or tasks that are due to start soon.

Respond to Risks Quickly: Once you identify at-risk tasks, the work order overview page displays all of the necessary details to help you decide the right actions to take to address the risks to your schedule. Use quick links to drill into even more component and operation details and view the assigned resources for any task using the Resource Assignments details table. When you need to take corrective action, select the tasks and use quick links to make updates. The newly integrated task update pages allow you to mass update a group of tasks with the same information or update task specific information for a group of tasks in the same page, eliminating the need to open tasks one-at-a-time to update them.

Improve Project Team Productivity

The new project and work plan overview pages are specially designed and fully integrated with new update pages so your project teams spend less time managing project plans and more time on completing project tasks. You can configure the overview pages for your specific business needs so identifying projects and tasks that need the team's attention are quick and easy to find. Quick links and new task update pages insure that updating information in your project work plan is simple and fast and users are less likely to make mistakes.

Find Projects and Tasks Fast: You can use the universal search box, guided navigation and range filters provided on the new overview pages to perform targeted searches and apply or remove filters. Built-in tools allow to you configure the overview pages for typical users, so you can add or remove the searching and filtering parameters you need to find and manage your projects and tasks efficiently. You can use bookmarks to identify projects or tasks you need to track or view again and avoid repetitive searching.

Efficiently Manage Plan Changes: After identifying tasks that need corrective action, the newly integrated task and progress update pages make it easy to modify your work plan while improving accuracy and consistency. Whether you need to update the same information or different information on the same fields for a group of tasks, the new pages allow you to update multiple tasks in a single update. The newly re-designed Mass Progress Update page makes it easy for you to find tasks with progress and enter the progress efficiently. Mass updates improve efficiency and reduce the chance of error, which improves the consistency of project plan information.

Modern Technology with Mobility

Oracle Discrete Manufacturing Information Discovery leverage the cutting edge technologies, such as in-memory data discovery, type ahead Google like search for enterprise manufacturing work order information, interactive summary charts and tag clouds, guided navigation for data exploration and refinements, results presented in a rich modern user interface with mobility that can significantly improve the user

productivity and efficiency of the shopfloor.

It provides ability to discover information and insights from both structured and
unstructured data like text notes, comments etc. to answer why, what else we know type
of open ended questions around manufacturing work order in real time.

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For more information about Oracle Discrete Manufacturing Information Discovery, visit oracle.com or call
+1.800.ORACLE1 to speak to an Oracle representative.

Integrated Cloud Applications & Platform Services

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