

Digitizing Requirements Management

Oracle PLM Cloud

As product and supply chain complexity grows, achieving requirements management best practices becomes a critical factor for your organization's success. Being able to quickly assess requirement fulfillment and product readiness is one of the most critical, time-consuming and difficult tasks. Many organizations suffer from slow time to market, failed product releases, inefficient productivity and collaboration, and increased costs because they don't have the necessary automation and controls around their requirements management processes. Oracle offers a unique enterprise requirements management solution that is embedded within Oracle PLM Cloud, and is designed to define, manage, verify and validate requirements lifecycle beginning as early as idea creation through product development and commercialization. With Oracle's requirements management process, you can quickly and thoroughly capture, enrich, and manage requirements and requirements traceability across cross-discipline detailed design, and test cases to ensure projects and product launches meet desired functionality and target objectives.



Challenges of Managing Requirements

Very few companies currently employ a dedicated requirements management tool within their business. Those that have tackled the process, often have a requirements management process that is less mature and is complex, manual, and error-prone. In addition, disconnected manual requirements management practices undermine competitiveness, wastes time, budget, and resources while failing to deliver planned functionality. According to an IAG Consulting report, "Companies with low requirements maturity achieve the business objectives of a project an unremarkable 54% of the time and take 35% longer to arrive at that result."

"When innovative ideas are captured, there are assumptions about the underlying requirements, the consumers, the end use, and so on. As design is undertaken, those assumptions are often lost in over-the-wall communications. Oracle's solutions are focused upon eliminating those disconnects first and foremost ... enabling companies to maintain high traceability from concept to manufacturing."

CIMdata 2016: Oracle's PLM Cloud Connects Product Master Data from Ideation to Commercialization

Oracle PLM Cloud

Oracle PLM Cloud supports the complete end-to-end innovation to development to commercialization processes; designed with embedded requirements management enabling you to tie requirements to your PLM product record, ideas, and projects. The solution allows you to mature your requirements management processes by standardizing requirement definition templates, analyzing scope across all requirements, verifying requirements achievability and validating all requirements have been met. Oracle PLM Cloud provides a seamlessly connected, modern, collaborative and insight-driven approach to requirements management; enabling clear definition, management and traceability of requirements throughout the entire product lifecycle.

What Makes Oracle Different

Manual requirements management practices and other homegrown solutions simply can't keep pace with today's complex requirements management needs. They have challenges in visibility, traceability, and collaboration, resulting in overall negative project and product impact. These complex, error-prone processes often lack the ability to manage and trace requirements across multiple projects, which can lead to projects going off-track and companies wasting resources solving the wrong problem.

Oracle uniquely integrates requirements management throughout the system engineering process from ideation through concepts, product development, test, quality, sourcing, and supply chain product commercialization. Its embedded modern technology allows you to coordinate and collaborate with internal and external requirements development teams. You gain greater visibility across disciplines to optimize design trade-offs, perform impact analyses, and measure strategic value. With Oracle PLM Cloud you can trace, verify and validate requirements to downstream artifacts in the cloud or on-premise solutions.

Benefits of a Modern Approach

Simplify and modernize your requirements management practices with a streamlined, efficient solution that helps your organization develop high-quality products and services. Avoid adding complexity to your IT infrastructure and supply chain, with a modern approach to requirements management that improves project success rates and delivers against customer and market expectations.

With Oracle PLM Cloud:

- » Improve time-to-market through streamlining definition, management, and verification and validation of requirements.
- » Decrease product development costs by reduced redesign, improved new product development efficiency, agility, and project execution, and ability to identify a failure fast.
- » Reduce product expenses and the risk of non-compliance, by avoiding lack of hand-off clarity between all stakeholders and by keeping everyone current on the latest scope.



BEST PRACTICE

- **Define Requirements.** Define and clarify requirements so they are understood by all stakeholders through leveraging modern social discussion capabilities.
- **Maintain Traceability.** Create linkages, and gain visibility of all dependencies and change impact to associated cross-discipline detailed design.
- **Determine Product Scope.** Obtain an immediate and complete view of the total scope of requirements from prioritization to verification and validation.
- **Optimize Requirements.** Analyze scope, fulfillments status, and change impact of requirement specification artifacts, product and gate criteria.



KEY CAPABILITIES

- Design and manage requirements in a single collaborative solution
- Streamline authoring with ability to create templates and copy requirements
- Receive real-time validations on the completeness of your requirements
- Automatically produce and evaluate a products readiness
- Create and view traceability between requirements
- Leverage embedded social collaboration
- Utilize metrics and analytics to configure reports specific to you

- » Increase collaboration and productivity with a single, connected solution to manage the end-to-end requirements process.
- » Avoid missed product launches, brand damage, and poor market projections by delivering the right product at the right time.

Examine Your Organization

- » How do you define, manage, verify and validate the necessary requirements of a new product?
- » How do you link your requirements to the applicable ideas / concepts / designs / tests / product and components?
- » Do you have the ability to automatically establish and maintain traceability across ideas, requirements, concepts, designs and test cases?
- » In the case of a recall or post deployment failure, how difficult is it to reproduce or update compliance artifacts during an investigation?
- » Do you have requirements standards or templates? Can they easily be re-used?
- » What is the impact on your business with your current requirements association process?

Learn More

Discover why incorporating requirements management best practices is a critical measure for your organization's success and efficiency.

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