



Benefits of Integrating Requirements Management

One of the key capabilities that organizations are focusing on today is improving their ability to manage the transformation of customer needs into product requirements. Transforming desired features customers want in their products into the functional requirements required by the product development teams to ensure their products satisfy each and every need on delivery of the new product to the market. Requirements Management is the holistic process of transforming these needs to product requirements, then analyzing, verifying, and validating these requirements for the overall product, system, or parts developed within the product. Successful requirements management ensures that the product delivered and its functionality meet the expectations of your customer.

The key phases of Requirements Management are the:

- ◆ **Planning Stage** resulting in a **Requirements Baseline** that is a committed set of agreed-upon, reviewed, and approved functionality and features that will be included in the product
- ◆ **Needs and Requirements Definition Stage** resulting in a **Traceability Matrix** that is used to ensure that all requirements have been fulfilled by the design and is functionality that is built into the product.
- ◆ **System Verification Stage** resulting in determining if the finished product meets *the requirements baseline*.
- ◆ **System Validation Stage** resulting in *determining whether the product satisfies its established customer needs*. This leads to acceptance that the product meets the intended use and capabilities. This requires a comprehensive Success Criteria, Testing Methods and Overall Approach.

This key capability results in:

- ◆ **Requirements Traceability** which links individual artifacts to test cases for full visibility of changes in engineering requirements as they happen. Capture all annotations, maintain them and make them easily accessible.
- ◆ **Engineering Compliance** weaved within your product development lifecycle while incorporating industry standards and regulations into your requirements in order to achieve government compliance.
- ◆ **Variant Management** to integrate all engineering processes and ensure global visibility in real time.

Requirements Management, when implemented correctly and utilized to conduct product development, has shown positive results in terms of:

- ◆ Reducing cost to deliver new products to market
- ◆ Improving initial product quality
- ◆ Decreasing product development time to market
- ◆ Reducing risks during the product development process
- ◆ Ensuring effective scope management for the project

In today's world, where all products are increasing in complexity, requirements management is a key capability that is becoming a necessity in order to keep product development focused on what is needed to launch a successful product. It provides a product roadmap for everyone in the organization to align to, work towards and understand when the development process is "Done" to deliver what is expected.

If you are interested in understanding more: Give us a call!

Next Month: Elevating your Service Capabilities with Integrated Technology Offerings

