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PTC Integrity™ Requirements Connector™

Reduce total cost of ownership for requirements management tools while increasing ROI through fast "time-to-value"

PTC Integrity Requirements Connector is a highly scalable interchange technology focused on distributing requirements and propagating their updates between the distributed stakeholders inside and outside your organization.

Increasingly complex supplier relationships dominate product development, independent of industries and products. The primary source of risk is insufficient coherence with requirements engineering methodology and collaboration between different business partners. Until recently, it was not generally possible to edit specifications using different tools or to transfer them between tools without major effort or data losses occurring.

PTC Integrity Requirements Connector enables an effective and efficient method to exchange and synchronize requirements across departmental and enterprise boundaries. Deploying PTC Integrity Requirements Connector across an organization ensures that requirements are communicated, processed, and acted upon easily between heterogeneous requirement repositories, and contributes to the joint success of projects. The solution creates an effective bridge for managing requirements across otherwise disconnected teams, which provides the basis for widespread, in-depth, and extended use of requirements, both within your organization and an extended partner ecosystem.

Key benefits

- Breaks down traditional boundaries between partners, vendors, and customers by creating an environment for smooth requirements interchange between these stakeholders

- Allows organizations to exchange large amounts of requirements information on an ongoing and managed basis over the lifetime of any particular project or product

- Improves requirements accuracy, productive inter-organizational partnerships, and responsiveness to requirement changes

- Significantly reduces the cost, time, and risks associated with traditional solutions while meeting the demands of ever shrinking windows of opportunity for businesses to respond quicker to market conditions

- Standards-based approach provides a comprehensive management solution for the interchange of requirements information between disparate and remote repositories

- Reduces total cost of ownership for requirements management tools while increasing return on investment (ROI) through fast "time-to-value"

- Increases the value of systems and software by significantly reducing the number of errors

    - Leads to product quality improvements

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- Enables successful completion of projects through synchronization of requirements between business partners

  - Ensures requirements are always automatically up-to-date

- Does not require any particular preparation to existing requirement specifications to execute requirements exchanges

  - Allows user to simply register requirement specifications in an exchange configuration, configures the required exchange parameters, and the requirements specifications are ready to be exchanged

  - A roll-out of PTC Integrity Requirements Connector can be done rapidly and has no impact on the requirements engineering tool deployed in the organization

- Ensures integrity and longevity of requirements beyond the lifespan of currently used hardware and software infrastructures through use of ReqIF

- Helps organizations meet statutory rules concerning their product requirements, leading to the reduction reducing long-term risk of product liability

- Reduces man-machine interfaces and reduces errors

- Improves quality assurance requirements by reducing scrap and rework

Capabilities and specifications

- Manage and audit interchange of requirements via a secure and repeatable process

- ReqIF is used as native file format

  - Allows third parties to inspect and process requirements

  - Resides in the storage of both the metadata that describe the structure of requirements and the requirements data itself

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- Open, extendible integration platform provides core synchronization functionality

- Several driver layers enable the integration of tool adapters and file formats

- Bespoke and commercial tools can be integrated on-demand and tool chains can be created based on ReqIF

- Alignment at tool and process level is enabled to support outsourcing practices, which ensures synchronization between different tools or tool versions

- Assign access control policies to requirements

  - Changes to exchanged requirements can be managed and traced

  - Consistency checks reveal conflicting changes that need to be resolved

  - Requirements exchanges between business partners are manageable and repeatable throughout a complete project lifetime

- Produce XML-based ReqIF standard documents that which can be easily processed by existing corporate workflows

  - With the use of XML and the XSL technologies, users can use separate stylesheets to produce requirements documents into PDF or Microsoft Office documents, or converted to a home-grown format

- Organizations can exchange large amounts of requirements information on an ongoing and managed basis over the lifetime of any particular project or product

- Supports peer-to-peer collaboration practices in the requirements engineering world

- Fast access to data content

- Offline synchronization of requirements across business boundaries

- Process standardizing path

- Tackle real-world projects and is used to automate large-scale requirement exchange processes with its XML-based industry standard (ReqIF)

Platform support and system requirements

For more information, visit: PTC.com/go/integrity