Software developers can now perform everyday tasks in their familiar environment while using Windchill to manage software builds throughout the product lifecycle.

Today, the people and systems responsible for embedded software are typically disconnected from the rest of product development. This lack of visibility and coordination with the broader product development team often leads to quality issues and product delays. Windchill Integrations for Embedded Software helps you synchronize both teams by creating a single system that simultaneously manages both hardware and software deliverables. The result: you can accurately deliver software-intensive products on time and with higher quality by taking advantage of your existing investment in Windchill.

Key benefits

**Improve collaboration**

- Fully incorporate the use of embedded software builds in product development processes that span multiple organizations
- Reduce problems with manufacturing hand-offs by having 'a single source of truth' for product configurations, coupled with a common, automated release process

**Improve data quality**

- Eliminate mistakes associated with incomplete information by managing content from multiple MCAD, ECAD/EDA and software configuration management solutions in a single, controlled location under the umbrella of a single product structure
- Centralize the management of business processes, such as change control

**Improve engineer productivity**

- Provide all relevant groups with accurate, up-to-date product content information that’s held in a single location
- Ensure that the correct software and hardware product components are being released

Windchill Integrations for Embedded Software gives product development customers the ability to manage their software deliverables.
Increase enterprise efficiency

- Reduce the number of product development systems by having one system that can manage multiple sources of data
- Enforce standard design processes across multiple design projects and organizations
- Accelerate key processes in the software development lifecycle, such as software peer-reviews and approval of related specifications and designs
- Meet customer requirements more accurately by providing a unified view and management of all requirements
- Improve adherence to best practices by leveraging existing Windchill workflows to include the software development organization

Decrease costs

- Improve total cost of ownership (TCO) with a pre-integrated, vendor-supported solution that leverages freely available open-source components
- Reduce costs and improve product development efficiency by increasing the reuse of existing software components and utilizing the same processes for both hardware and software components within a product

Features

Integral product data management

- Manage and control software within a single source of product content
- Securely vault all software builds using check-in/check-out, history, search and access control
- Automate the publishing of software builds into Windchill at critical process checkpoints
- Facilitate processes such as Change and Configuration Management, Manufacturing Process Management, and Supplier Management
- Synchronize software development with the overall product development process

Windchill Integrations for Embedded Software provides the capability to track configurations of software deliverables in a single product structure.

Cross-discipline change management process

- Synchronize the engineering change management process with software defect tracking by automatically creating relationships between engineering changes, such as problem reports (PR), engineering change requests (ECR), engineering change notices (ECN) and software defects across multiple defect-tracking systems
- Allow software developers to obtain enterprise process information through their defect-tracking tool, and enable engineering change-process participants to access up-to-date information about software defects
- Record and update software issues located within defect-tracking tools directly from Windchill

Configuration management and traceability

- Associate product software components with specific hardware configurations, for testing and manufacturing traceability
- Manage software builds as enterprise objects within Windchill, similar to managing other product content
- Assign versions, attributes and lifecycle states to particular software builds within Windchill and then cross-reference the build to the bill-of-material, requirements and changes
• Associate source code within software configuration management systems to Windchill objects to provide traceability between software builds and the original source code files

• Archive software configurations for traceability, including source code configurations

Software design collaboration

• Integrate Windchill with the software development platform, so that Windchill information and tasks are available to the developer in their native environment

• Automatically link software defects with builds and engineering change processes, including bi-directional updates of attributes, lifecycle states, and workflows

• Enable secure, role-based access control to software builds and related information

Seamlessly pre-integrated with the leading software development tools

PTC understands the software development environment and the different tools that are utilized throughout its lifecycle. Windchill Integrations for Embedded Software includes the following tools:

IDE (Integrated Development Environments)

Software Configuration Management

Tracking

Platform specifications

• Prerequisite: Windchill PDMLink®

• Operating Systems: Microsoft Windows®, UNIX®

• Languages: English, French, German, Italian, Spanish, Japanese, Korean, Chinese (Traditional and Simplified), Russian

For the most up-to-date platform support information, please visit: PTC.com/partners/hardware/current/support.htm

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