

KSC DDMS — Component Overview

Introduction

What follows is a high-level functional overview of the major components that make up our KSC DDMS Windchill system. It is meant to provide a quick look at the building blocks (**Projects, Products, Libraries**) as well as how they are to be employed in KSC DDMS.

Project Link — (Projects)

Windchill **ProjectLink** provides a comprehensive, project collaboration and project management environment for all members of an extended product development team. It facilitates innovation by providing Web-based, virtual spaces with all the tools necessary to pull globally dispersed team members together. The following is a high-level list of included capabilities:

- Create a browser-accessible web portal to project status and information for team members
- Share documents and parts and manage their changes (external to Products/Libraries)
- Search within and across projects for information
- Define a team of roles and groups and control access to information based on role or group membership
- Route documents and parts for review and approval
- Manage a schedule of milestones and activities
- Manage project deliverables to completion
- Create scheduled and instant web-based and peer-to-peer meetings with project team members
- Visualize and mark up PDFs of CAD products and other data formats using embedded view and markup tools
- Discuss project issues, proposals and so on through web-based discussion forum topics and postings
- Manage reference links and attachments for documents, parts, activities & such
- Manage project risks and issues as action items
- Subscribe to documents, parts, activities, and forum topics and receive notifications when subscribed items are changed.
- Seamlessly publish PDFs of CAD models/dwgs to projects and iterate on designs with authoring teams.
- Identify project resources and track resource costs

A Project is a Web-based space into which you invite people to collaborate as a project team. Team members can access the space, using it to find, store, and share documents, externally supplied CAD files, links to important Web pages, or other information.

You can set up a schedule, or plan, for the project as well as assign project deliverables to team members. You can also schedule team meetings and host online project discussions. Team members can mark up and view PDFs of CAD files, create new iterations of an existing part or document, and route files to other team members for review or approval.

How we will use Projects in KSC DDMS

- To store new or draft parts/assemblies
- To store new or draft documents
- To store project unique policies/procedures
- To store parts/assemblies checked out from Products
- To store/execute project schedules
- To schedule project meetings
- To store meeting minutes and Action Items

PDM Link — (Products, Libraries)

Windchill **PDMLink** is a Product Data Management system that provides a single source for product data for your company and facilitates the following critical processes that occur throughout the life of a product:

- Release management
- Change management
- Configuration management

In addition, the Windchill PDMLink system:

- allows global and controlled access to critical product data within your company, using a familiar application and navigation paradigm, namely, a Web browser.
- provides extensive capabilities in the areas of data control, confirmation management, process control, and change management using the Windchill PDMLink certified CMII process.
- accommodates data from other critical applications
 - Windchill PDMLink contains a light viewer to allow MCAD and ECAD tools to be directly managed and exposed to non-CAD users.
 - Windchill PDMLink integrates with ERP systems (for example, SAP) through an integration platform called Enterprise Systems Integration.
 - Windchill PDMLink is tightly connected to PTC applications such as Windchill ProjectLink and Pro/ENGINEER Wildfire.

In order to use Windchill PDMLink to locate, access, and use product information, this section provides information for the following items:

- Windchill PDMLink items and their place in products and libraries
- Windchill PDMLink tabs
- Links in the header of the screen
- User preferences

The Product Tab

A **Product** can be thought of as all the collected information that defines what is built and sold by your company. The product provides the context in which you collaborate to create this information, where only those with defined roles have access to the information.

When you click on the **Product** tab, the last page you viewed for a specific product appears. For example, if the last time you viewed information under the **Product** tab, you viewed the **Folders** page of Product A, that page appears the next time that you click the **Product** tab. To view information for a different product, click the **Products List** link below the **Product** tab and select a product from the list. You can also select a product from the **Recent Products** drop-down list on the top of the page.

Once a Product has been selected, you can do the following:

- Search for items in the product using the Search within this product field, which is located at the top of any page under the Product tab.
- From the Details page, view the attributes for the product and the end items that exist in the product. You can also complete actions from the Actions list.
- From the Folders page, view the items that reside in the product and complete actions on those items. Use the Current View drop-down list in the table to choose the items listed in the table. For example, you can view documents only or parts only.
- From the Product Structure page, examine the hierarchical tree view of the product's assemblies and parts, and filter product structures by a configuration specification.
- From the Team page, identify the members of the product team who have access to the information displayed in this product.
- From the Assignments page, access the assignments specific to this product.
- From the Change Monitor page, gauge the progress of your company's change process for this product and monitor the status of the change objects (problem reports, ECRs, and ECNs) within the product.
- From the Forum page, view and discuss topics that relate to the product. Team members can reply to existing postings or start new discussions.
- From the Workspaces page, view or create workspaces associated with the product.
- If you have access, a Templates and Utilities page also appear. For more information on these pages, see the Windchill Business Administrator's Guide.

How we will use Products in KSC DDMS

- To store released parts/assemblies
- To store product structures
- To store release CAD Models
- To store released documents
- To create and execute automated workflow processes

The Library Tab

A **Library** can be thought of as a place for storing and providing access to business information such as documents and other items that are not related to a single product.

When you click on the **Library** tab, the last page you viewed for a specific library appears. For example, if the last time you viewed information under the **Library** tab, you viewed the **Details** page of Library A, that page appears the next time that you click the **Library** tab. To view information for a different library, click the **Libraries List** link below the **Library** tab and select a library. You can also select a library from the **Recent Libraries** drop-down list on the top of the page.

Once a library has been selected, you can do the following:

- Search for items in the library using the Search within this library field located at the top of any page under the Library tab.
- From the Details page, view the attributes that exist for the library. You can also complete actions from the Actions list.
- From the Folders page, view the items that reside in the library and complete actions on those items. Use the Current View drop-down list in the table to choose the items listed in the table. For example, you can view documents only or parts only.
- From the Team page, view the members of the library who have access to the information displayed in this library.
- From the Assignments page, access the assignments specific to this library.
- From the Change Monitor page, gauge and monitor the status of the change objects (problem reports, ECRs, and ECNs) within the library.
- From the Forum page, view and discuss topics that relate to the library. Team members can reply to existing posting or start new discussions.
- From the Workspaces page, view or create workspaces associated with the library.
- If you have access, a Templates and Utilities page also appear. For more information on these pages, see the Windchill Business Administrator's
- Guide.

How we will use Libraries in KSC DDMS

- To store the Approved Parts (vendor, standards, & mil specs)
- To hold a compilation/index of Released data
- To store policies and procedures
- To store approved/released procurement specs

Using Integrated Windchill Capabilities

When you are working with integrated Windchill solutions, you can take advantage of common project and program management activities, such as the following:

- You can share data from your PDM system to a project within Windchill ProjectLink. As a result, you can collaborate on the information within the context of a project, where your team's work can be managed through the use of milestones, deliverables, and resource tracking.
- You can copy or check out design information from the PDM system to a project so that you and others can investigate design possibilities without committing your changes to formal PDM control. If you decide to make your new design or design changes part of your formal change process, you can check parts, documents, and CAD documents back into the PDM system and, if desired, use Windchill ESI to publish them to your ERP system.
- You can invite external participants to join your project, as project team members, without giving them access to your company's PDM system. For example, if you are collaborating on a new product design, you could invite an engineer from a supplier's company to participate in collaborative design work to be applied to PDM items checked out to a project, without giving that engineer access to other PDM data or to your PDM system.