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2. Teamcenter Basics

2.1. topics overview

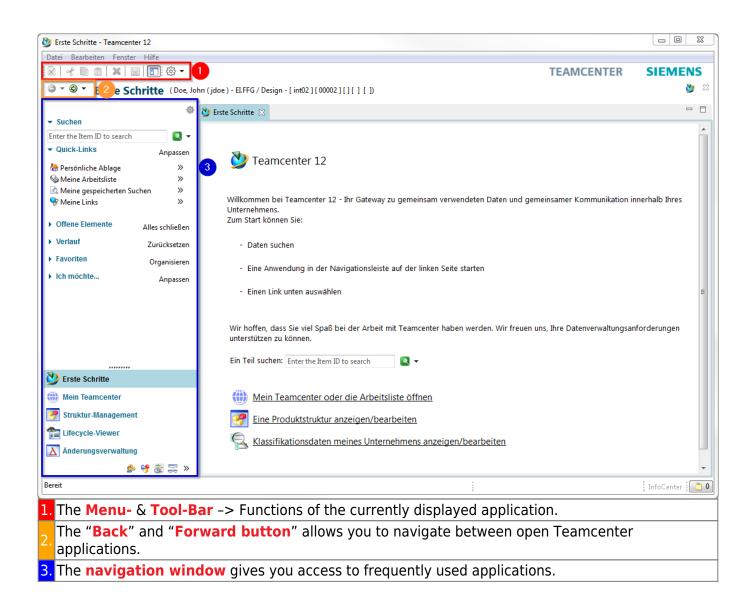
This training document deals with the elementary basics in Teamcenter.

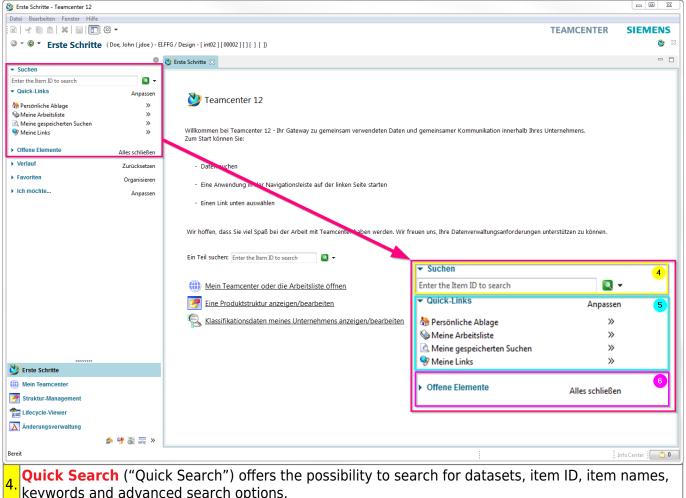
The main focuses have been set as follows:

- User Interface
- The most important Teamcenter applications
- Organization
- · Items & Revisions
- Data types
- Relations

2.2. user interface

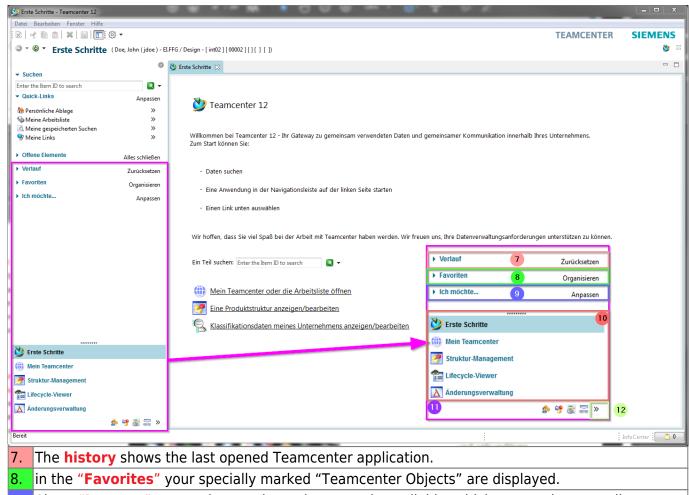
2.2.1 Rich client interface



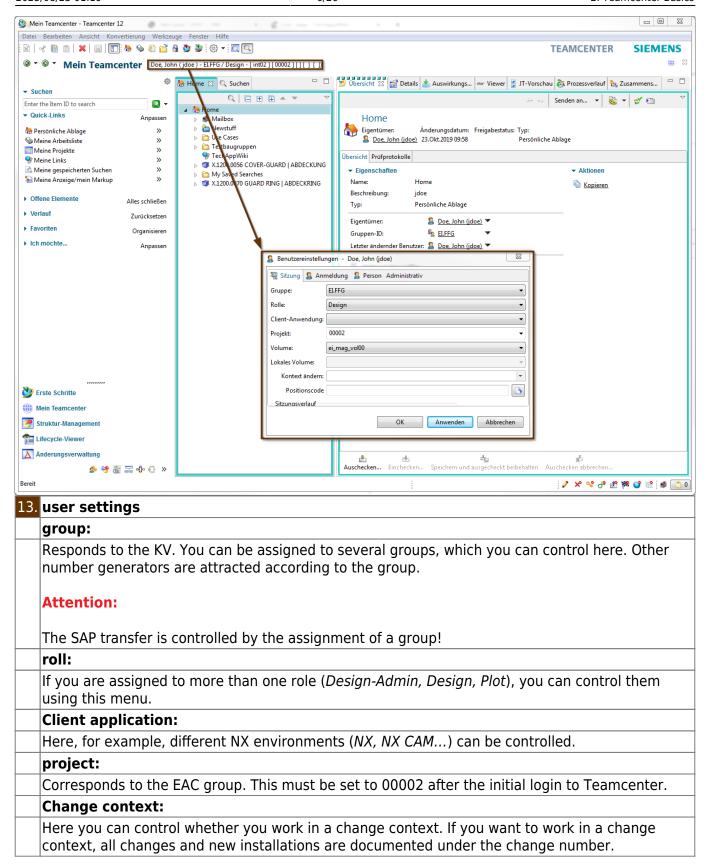


- keywords and advanced search options.
- Via the "Quick Links" you can jump to your personal "Home" folder, saved searches, favorites and work lists.
- "Open elements" shows all open objects that are used in the application.

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- 9. About "I want..." connections to the tools are made available, which are used repeatedly, e.g. to initiate or change processes.
- 10. The "Primary Application Button" opens the most frequently used Teamcenter applications.
- 11. The "Secondary Application button" contains applications that are used less frequently.
- 12. The "Configure Application button" provides access to the tools to configure the display of primary and secondary applications.



2.2.2 Application Perspectives

Within the user interface of the Teamcenter Rich Client, the application functionality is provided by perspectives and views. Some applications use perspectives and views to rearrange the functionality. Other applications use a single perspective and views to display information.

2.2.2.1 Procedure

You can open an application perspective using the following methods:

• Click the application button in the navigation pane.



Tip

If the navigation window is not displayed, display it using the menu command **Window** → **Navigation Window** or click the **Navigation Window** ii icon on the toolbar.

- Select the perspective from the **Window** menu → **Open Perspective**
- Select an object from the navigation view and then select an application from the **Send To** context menu option.
- Double-click an object in the navigation view to open the perspective associated with that object type.

For example, to open My Teamcenter in Rich Client, click **My Teamcenter** in the Navigation pane.

To switch between different application perspectives, the following methods can be used:

- Use the **Back button** ⊕ on the toolbar or select an open application from the ▼ drop down menu or press Ctrl+Shift+F8 to display the previously open application.
- Use the **Forward button** ⑤ on the toolbar or select an open application from the ▼ drop down menu or press Ctrl+F8 to display the previously opened application.
- Hold Ctrl+F8 to display the **Perspectives** menu, then release the F8 key. Select the perspective to display using the mouse button or arrow keys.

To save the active perspective you have configured, you can proceed as follows:

- Select Window → Save Perspective As
- Enter a new name for the perspective.
- Click OK.

To reset a perspective to its default state, select **Window** → **Reset Perspective**. This restores all default views of the current perspective to their original positions.

2.2.3 View "Overview"

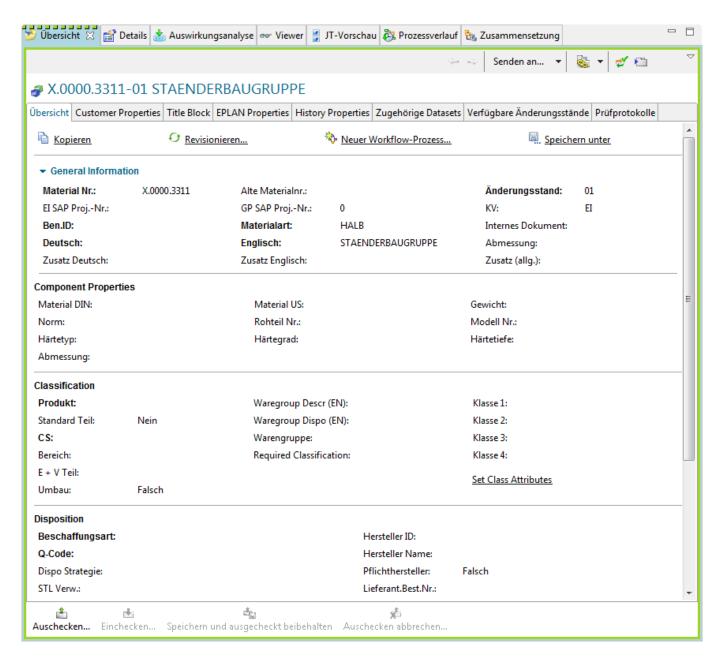
The **Overview** view allows you to view properties for a selected item and edit attributes such as name or description for supported items for which you have appropriate permissions.

Configuration and content of the **View** Overview vary depending on the information display configured for the selected object type.

A view can contain several tab pages.

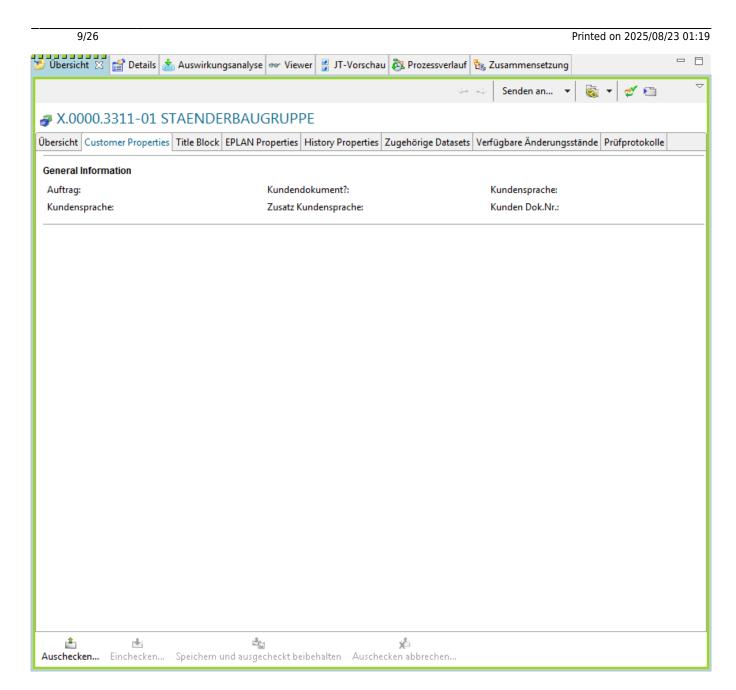
2.2.3.1 Overview

The "Overview " tab displays all editable metadata of an item revision. The highlighted metadata are mandatory attributes and must be filled in before release after "ER " [Engineering Release].



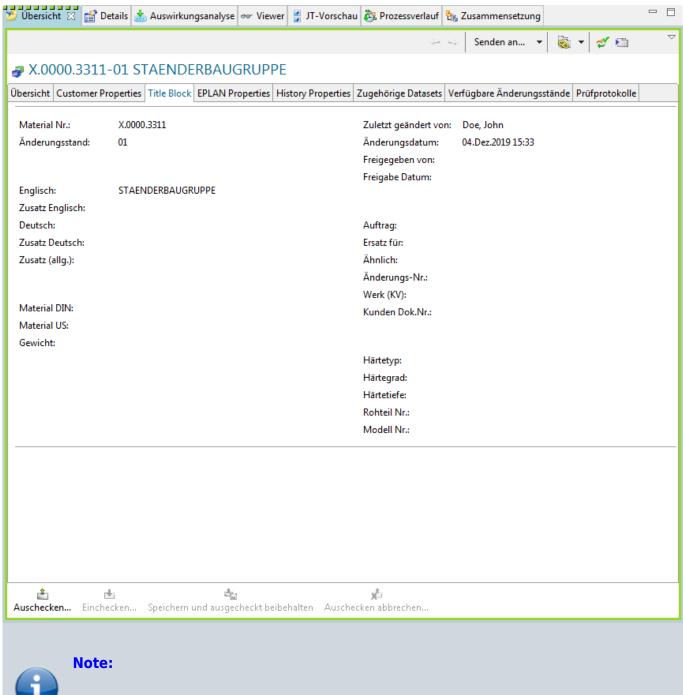
2.2.3.2 Customer Properties

Customer-specific information is managed in the **Customer Properties** tab.



2.2.3.3 Title Block

In the **Title Block** tab, you can enter the information required for the drawing frame.



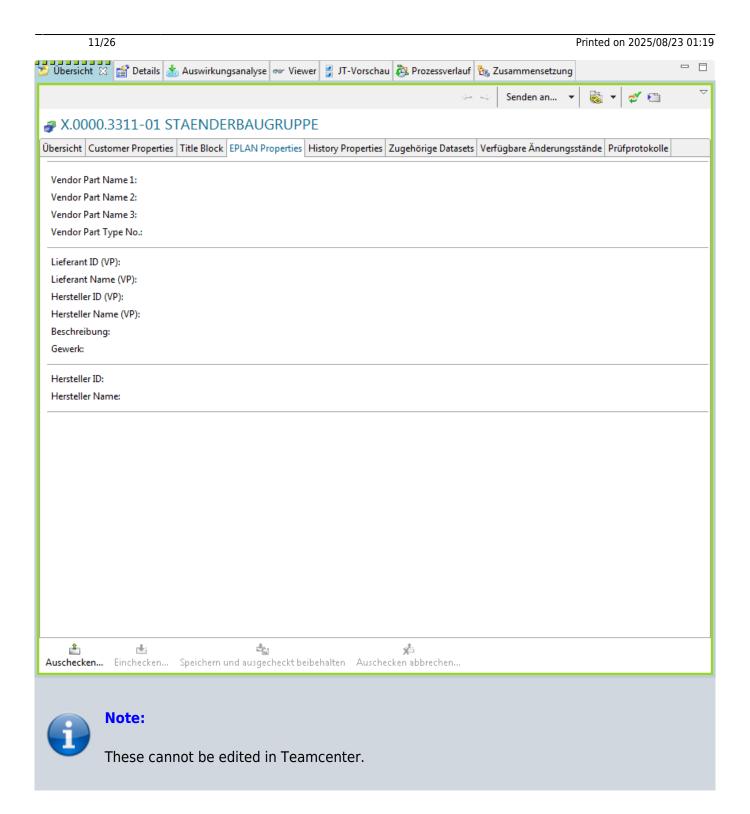


The entered metadata is transferred to the "Overview" view or from the "Overview" view to the "Title Block. This metadata does not need to be maintained twice.

2.2.3.4 EPLAN Properties

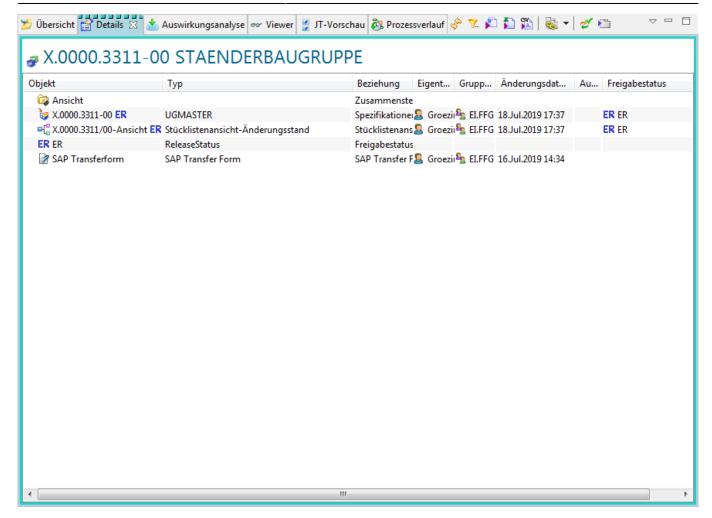
In the **EPLAN Properties** tab, all metadata is filled via EPLAN integration.

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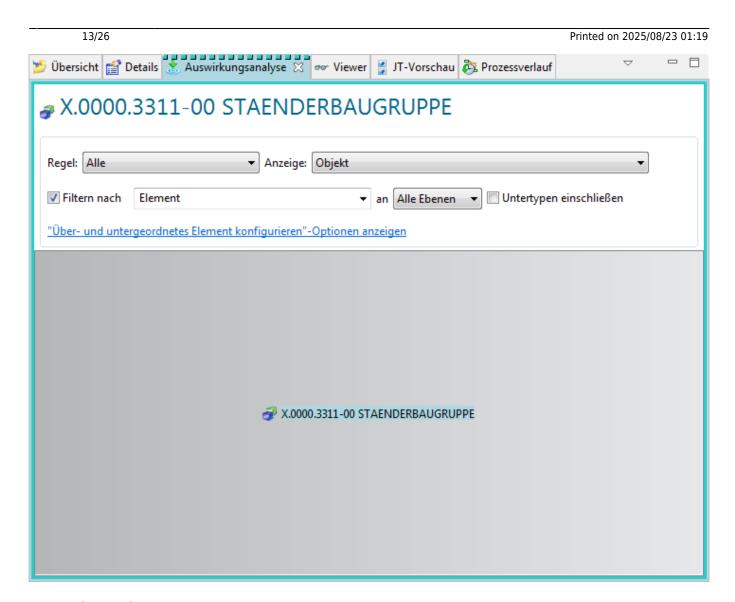
2.2.4 View "Details"

The **Details** view is a tabular display of the properties of the child elements (datasets, BOM view change status, status, SAP Transferform...) of the object currently selected in the component view.



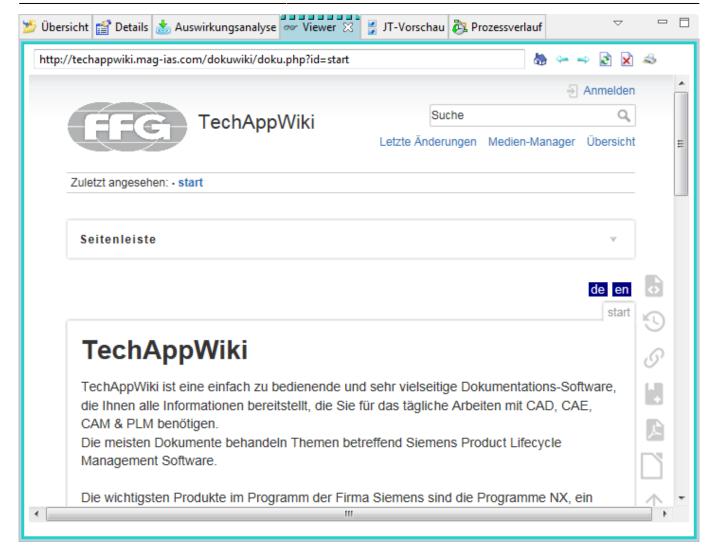
2.2.5 Impact Analysis View

The **Impact Analysis** view responds to the current selection in the active component view and graphically displays the relationship to the objects where it is used or referenced, and displays it in one layer, all layers, or just the main layer.



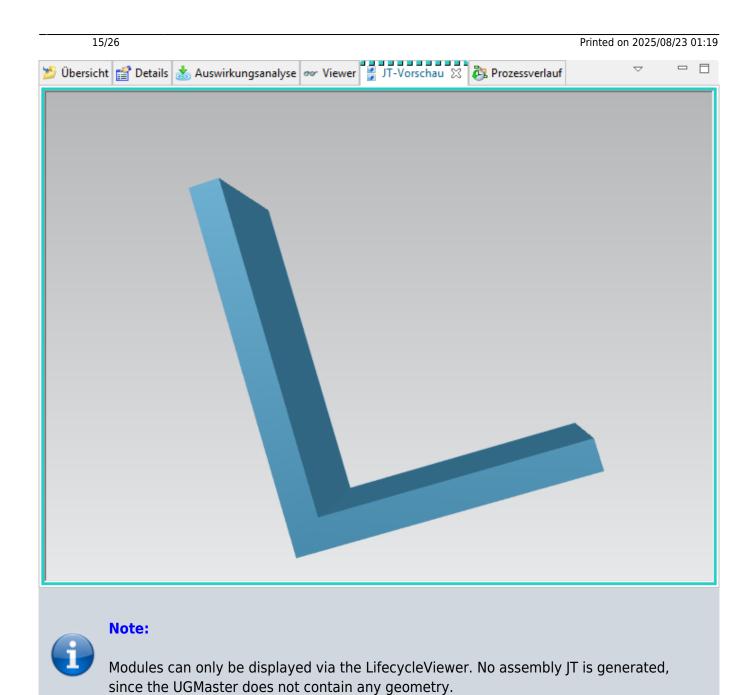
2.2.6 View "Viewer"

The content of the **Viewer** view depends on the selected object type in the current component or detail view. For example, if you select an Office dataset or an added link, it will be displayed in the "Viewer" view.



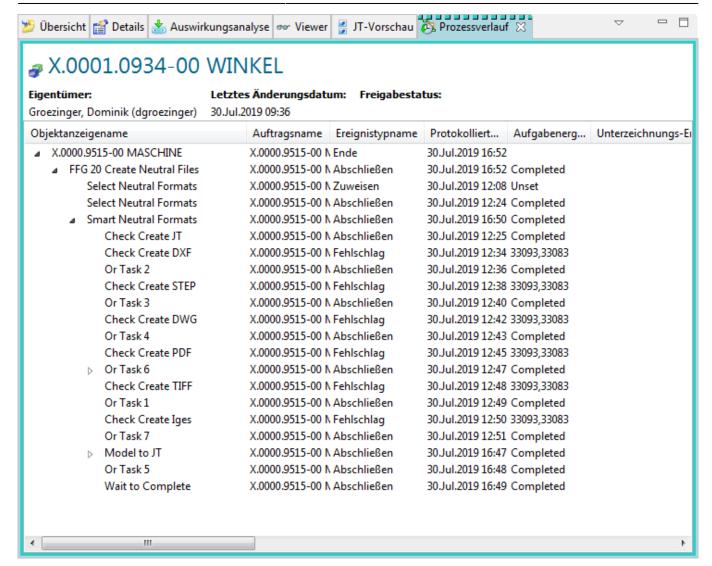
2.2.7 View "JT Preview"

If a revision or a selected node has a JT dataset associated with it, it is displayed in the **JT Preview** view.



2.2.8 View "Process history"

The **Process History** view displays the workflow or schedule management process of the business object selected in My Teamcenter on the Home page or in the My Worklist or Search Results views.



2.3. the most important Teamcenter applications

2.3.1 My Teamcenter

The application perspective "My Teamcenter" is the workspace for using and managing product information (articles, documents, parts lists, specifications, requirements...).

This is the starting point for many standard functions such as

- · Search and find PDM data
- Create and modify PDM objects
- Check-in / check-out of objects
- · Managing my tasks
- Starting and monitoring processes / workflows
- · Executing queries

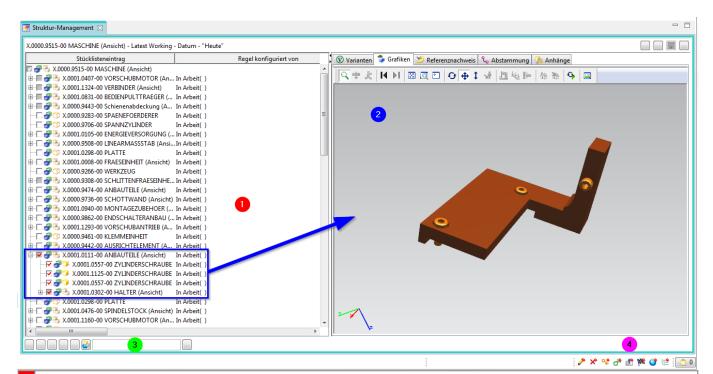
2.3.2 Structure Manager

The Structure Manager allows you to create general product structures (BOM = Bill of Material) that can be configured to display the product structure at a specific time or for a specific unit, such as

- The valid component structure of an assembly
- A specific approved manufacturing design of the product

- The current design structure in product development
- The product structure that was valid on a certain date
- A specific variant of a product

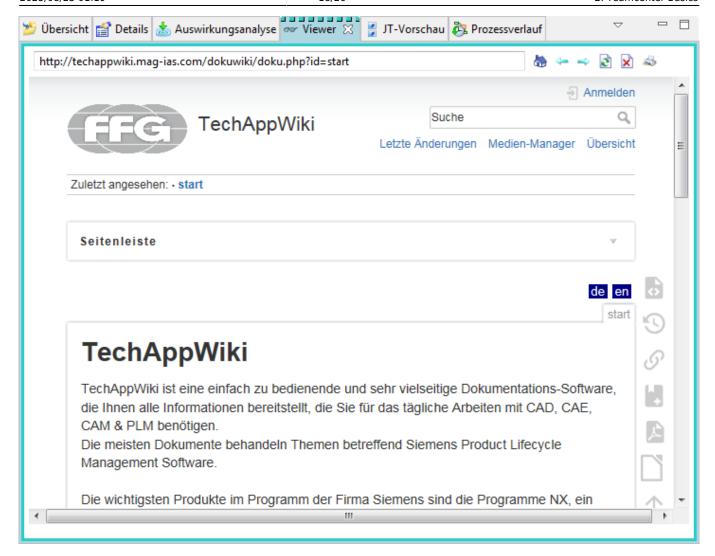
2.3.2.1 User Interface



- The **structure navigation tree** enables you to navigate in the product structure and to extend or reduce the nodes to display the corresponding data. The symbols in the tree structure indicate the purpose of each node. The **property columns** to the right of the ID can be adapted to your requirements.
- The **data window** allows you to display data for the selected entry. To display a data window, click on its tab. To do so, click Show / Hide Data Window in the **Tool Bar**
- 3. The search area allows you to search for a structure to configure it with frequently used data.
- 4. The status icons show the current status of the selected entry.

2.3.3 Visualization tools

2.3.3.1 Viewer



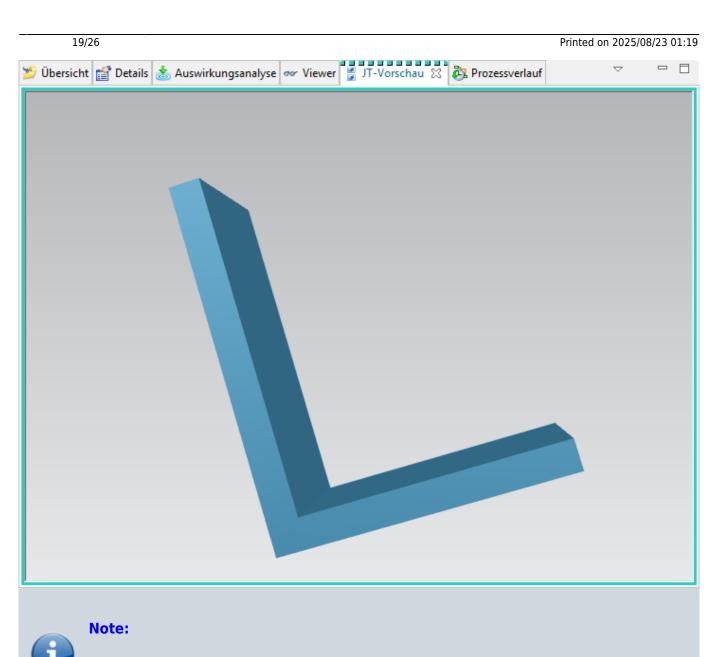
The content of the Viewer view depends on the selected object type in the current component or detail view.

The following types of datasets can be displayed in the Viewer view:

- Microsoft Office datasets
- Web links
- TIFF
- Meta data of different datasets, which were not visualized
- ...

2.3.3.2 JT Viewer

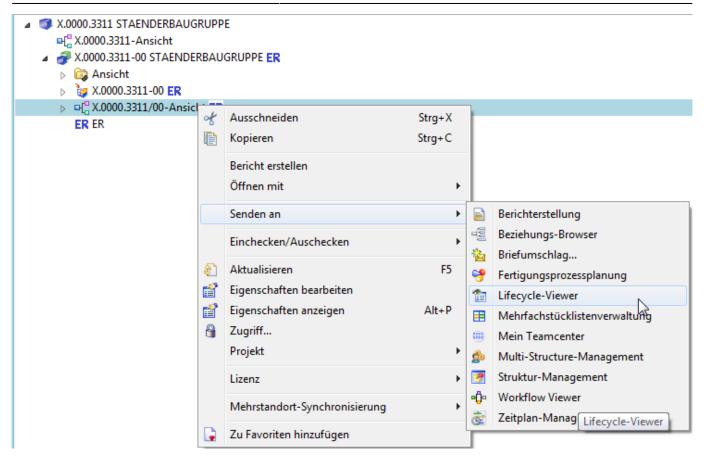
If a JT dataset is assigned to an Engineering Item Revision, it is displayed in the **JT Preview** view.



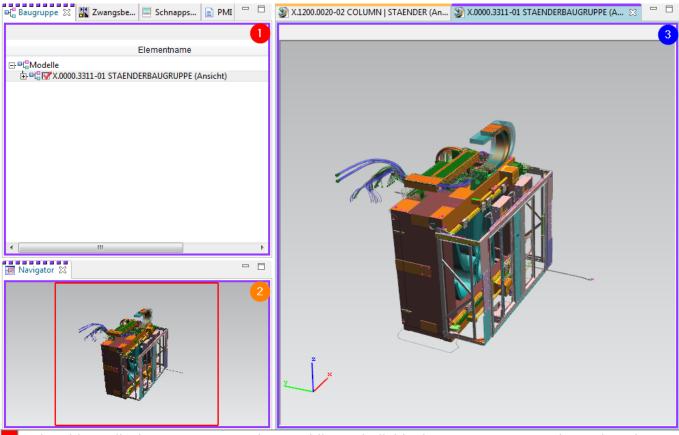
Modules can only be displayed via the LifecycleViewer. No assembly JT is generated, since the UGMaster does not contain any geometry.

2.3.3.3 Lifecycle Viewer

To visualize the structure of the product in the Structure Manager - the Teamcenter Lifecycle Visualization Viewer must be called via the right mouse button above the BOM View -. You will find this in the selection of "Send to".



You must then proceed as follows to visualize the product structure:



To be able to display a structure, subassemblies or individual parts, you must activate them by left-clicking in Field. Now all item revs that have a JT are displayed. If a field is filled in green, there is no JT for this item rev.

After loading has been successfully completed, the structure is now displayed visually. You can add additional functions by right-clicking in the toolbar and, for example, execute measurement commands directly in the viewer.

Using the navigator you can enlarge a desired area.

2.3.4 Workflow Viewer

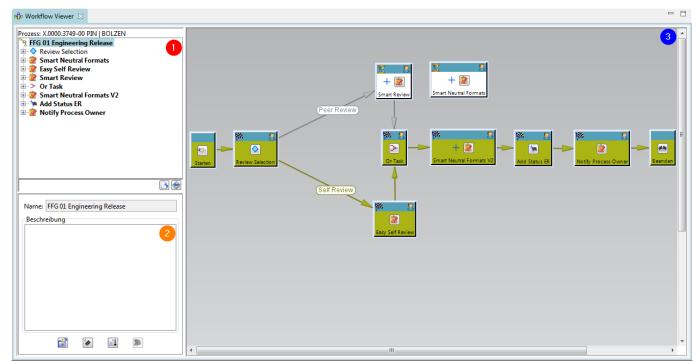
The Workflow Viewer is used to visualize the workflow of the currently selected item. Here you can check which task the workflow is currently in.

Tip:



The Workflow Viewer can be called up as follows:

Right mouse button -> Send to -> Workflow Viewer



- The **task hierarchy tree structure** displays the workflow process at the main level, together with the associated tasks and subtasks, in a hierarchical listing. The task order in the task hierarchy tree is based on the order in which the tasks were created.
- 2. The **Template Manager window** displays the name and description of the selected process.
- The **process flow window** graphically displays the various workflow process levels. You can display all tasks that exist in a workflow process, or the subtasks contained in a task, or the subtasks of subtasks, etc.

2.3.5 Change Manager

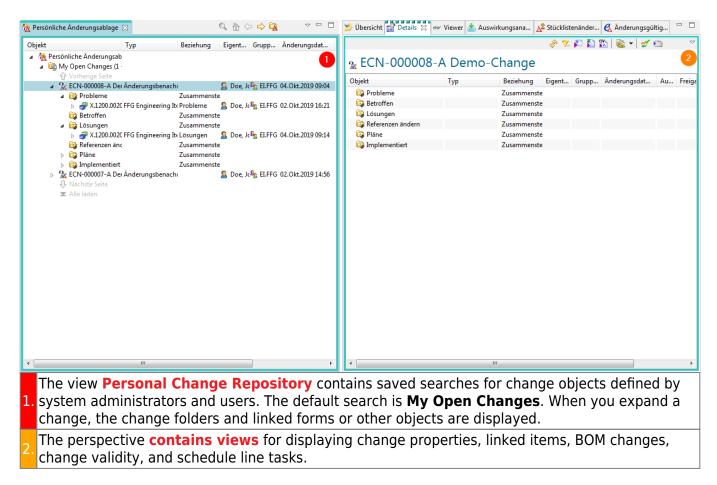
Change management helps you track changes to a product throughout its entire life cycle. You can propose changes to a product and manage the entire cycle of review, approval, and implementation of the change.



Your company can ensure the quality of any change made to the product through a mechanism for problem identification, change authorization, coordination and planning, cost and benefit analysis and record keeping. You can structure the work to perform the following:

- Implement a change.
- Assess its impact on any managed business elements such as parts or documents.
- Notify lifecycle participants of proposed and approved changes.
- Track the progress and completion of work.
- Compare product configurations before and after the change.

2.3.5.1 User Interface



2.4. organization

2.4.1 Access Rights & Organization

Persons

Real existing persons in the company with first and last name. One person can have more than one user.

⇒Max Mustermann

• User (User)

Is the identification of a user in the system. Users can belong to several groups.

⇒Max Dummy ⇒Administrator & User

Groups

Correspond to summaries of users.

Group = Corresponds to a department or a project.

Groups can also be structured hierarchically (according to the company organization).

⇒Administrator ⇒dba, project administrators,...

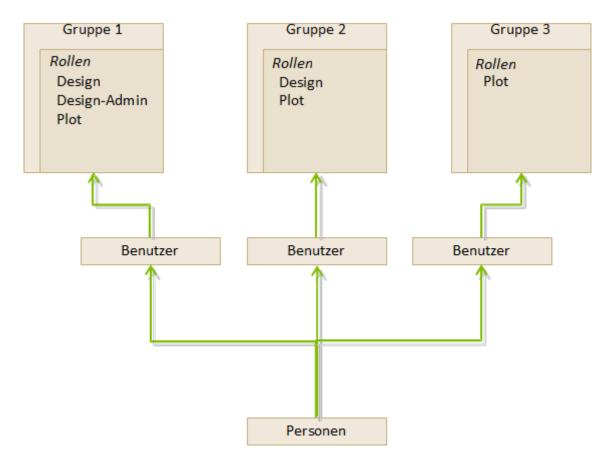
Roles

Activities of users in the organization (e.g. admin, employee, project manager, ...) Different roles can be assigned to a user.

A role corresponds to certain rights that the user has.

Groups and roles can be used for:

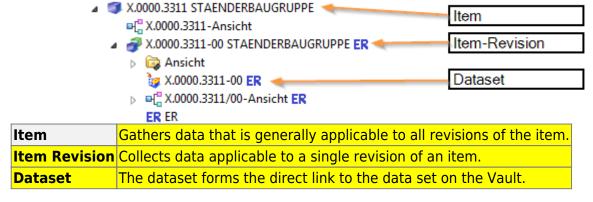
- To manage access rights (read, write, delete) per group and role
- Definition of control/approval instances (for workflows) based on groups and roles
- Organization of the data according to the group you have created.



2.5. Items & Revisions

2.5.1 Basic Items & Revisions

An item (element) in Teamcenter is a structure of a connected object. The basic structure of each item consists of the following objects:



2.5.2 Properties of an item

- Items are basic objects that are used to manage information
- They represent physical or conceptual entities that enable audits and information changes.
- Imagine an item as the top level, which contains all information about a specific object or product.
- The item ID is composed as follows here in the example for the European MAG locations -X.0000.0000
- No two items may have the same item ID. An item ID is always unique!
- An item provides access to all the information needed to design a part, including all changes, together.
- When creating an item, Teamcenter also automatically creates an Item Master Form

2.5.3 Properties of an item Revision

- Item revisions manage the changes to an item and save the changes within the item.
- When you create an item, Teamcenter automatically creates the item revision.
- There must be at least one item revision for each item.
- Item revisions are the items that receive a release status
- Contains the SAP master form here the link between the SAP material number and the item in Teamcenter is linked.
- Contains one or more datasets

2.6. Datasets

2.6.1 Dataset Objects

Files which are started from Teamcenter with non Teamcenter applications (e.g.: NX, Word, Excel, ...) are managed by Teamcenter \Rightarrow Dataset Objects.

Here are some examples:

Symbol	Туре	File	Application
	Text	.txt	Text Document
1	MS Word	.doc	MS Word document
3	MS Excel	.xls	MS Excel spreadsheet
>	Direct Model	.jt	3D Visualization Model
b	UGMASTER	.prt	NX Partfile
*	UGPART	.prt	NX Partfile
7 3	PDF/A	.pdf	NX PDF document

2.6.2 Importing a dataset

- You can insert datasets in Teamcenter under your item revisions.
- In case the datasets are not yet stored in Teamcenter, you can import the dataset.
- If you import the dataset under your Revision item, you must remember that the dataset is not found under the item but only under the Revision item.
- The revisions that are revised from this item revision also have the dataset reference in the item revisions.
- You can also create a completely new dataset directly in Teamcenter.

2.7. relations

2.6.1 Relation types

- Much information describes an item or is linked to the item, revision
- Teamcenter uses relations to define the relationship between data objects and items / revisions.
 Automatically defined relation types:

Revision

JTSession & 3DMarkup

BOM view & BOM view revision

IMAN_Drawing

Relation between UGMaster & UGPart

2.6.2 User defined relation types

(e.g. when copying / inserting objects into an item / revision)

• Specification Relation. Documents of an audit. Are checked and blocked during a release (e.g. 3D masters, drawings, NC programs, ...)

• Requirement Relation

Contain criteria that must be met by the design, but do not define how the design is to be executed. (e.g. specifications)

Altreps

(alternative representation) - Alternative description of the component (e.g. spring tensioned / not tensioned. As this is only a state description, it will not appear in parts lists parallel to the part.

• Manifestation Relations

Relationship of documents with explanatory character only. These have no meaning in the sense of a relevant or legal product description (e.g. internal presentations, films, photos...)

Reference Relation

General, undefined relationships between data objects and items / revisions. (e.g.: field reports, technical articles, laboratory reports notes...)