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STEP 7 PLUS TIA Portal Teamcenter Gateway - Installing a data model

Installation Manual

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Teamcenter Gateway -
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Legal information

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indicates that death or severe personal injury will result if proper precautions are not taken.

! WARNING
indicates that death or severe personal injury may result if proper precautions are not taken.

! CAUTION
indicates that minor personal injury can result if proper precautions are not taken.

NOTICE
indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

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Basics of TIA Portal Teamcenter Gateway - Installing a data model

1

Introduction

This documentation supports you when installing the TIA Portal Teamcenter Gateway data model in the environment of the Teamcenter Environment Manager.

To install the TIA Portal Teamcenter Gateway data model, you need to start the Teamcenter Environment Manager as administrator.

Installation on the server

2.1 System requirements

System requirements for installation of the data model

1. Teamcenter 11.2 or higher is installed.
2. You can find additional information on installing Teamcenter 11.2 or higher in the Teamcenter 11.2 Setup documentation.

2.2 Installing the Teamcenter data model

Saving TIA Portal projects and global libraries from the TIA Portal in the Teamcenter Server requires expansion of the Teamcenter data model.

The files "TIATC.zip" and "TeamcenterCustomQuery.zip" contain the expansions of the Teamcenter data model (for example, for T4TIAProject and T4TIALibrary) in the form of an XML file.

You will find the XML file for the Teamcenter data model on the installation DVD in the directory \Support\Teamcenter_11\Datamodel\TIATC.zip and "TeamcenterCustomQuery.zip".

Procedure

Follow these steps to update the Teamcenter data model with the Environment Manager (TEM):

1. End all active Teamcenter Rich Application Client (RAC) processes.
2. Unzip the provided Teamcenter data model files "TIATC.zip" and "TeamcenterCustomQuery.zip" on your hard disk.
3. Start the Environment Manager as administrator via "Start > All Programs > Teamcenter11 > Environment Manager".
The "Maintenance" dialog opens.
4. Select the "Configuration Manager" check box.
5. Click "Next".
The "Configuration Manager" dialog opens.
6. Select the "Perform maintenance on an existing configuration" check box.
7. Click "Next".
The "Old Configuration" dialog opens.
8. Select the appropriate configuration,
e.g. "My Configuration 1".
9. Click "Next".
The "Feature Maintenance" dialog opens.

2.3 Updating the Teamcenter data model

10. Select the "Add/Remove Features" check box.
11. Click "Next".
The "Features" dialog opens.
12. Click the "Browse..." button.
13. Navigate to the directory containing the unpacked Teamcenter data model and select the file `feature_tiatc.xml` (`TIATC\output\wntx64\packaging\full_update\`).
14. Select the "TIATC" check box in the expansion list.
15. In the "Installation Directory" field, check if the Teamcenter installation directory is set correctly.
16. Click "Next".
The "Teamcenter Administrative User" dialog opens.
17. Enter your username in the "User" field.
18. Enter your password in the "Password" field.
19. Click "Next".
20. Following installation, check the log file called "Install_config1_***.log" for errors in the "Install" dialog or in the `...\Program Files\Siemens\Teamcenter11\install\` directory.
21. Restart the Teamcenter server.

2.3 Updating the Teamcenter data model

Procedure

Follow these steps to update the Teamcenter data model with the Environment Manager (TEM):

1. End all active Teamcenter Rich Application Client (RAC) processes.
2. Unzip the provided Teamcenter data model files "TIATC.zip" and "TeamcenterCustomQuery.zip" in the directory in which the Teamcenter server is installed. You can find the Teamcenter data models on the installation DVD in the directory `\Support\Teamcenter_11\Datamodel\TIATC.zip` and `TeamcenterCustomQuery.zip`.
3. Start the Environment Manager as an administrator with "Start > All Programs > Teamcenter 11 > Environment Manager (TEM).
The "Maintenance" dialog opens.
4. Select the "Configuration Manager" check box.
5. Click "Next".
The "Configuration Manager" dialog opens.
6. Select the "Perform maintenance on an existing configuration" check box.
7. Click "Next".
The "Old Configuration" dialog opens.
8. Select the check box "Configuration (e.g. My Configuration1)".

9. Click "Next".
The "Feature Maintenance" dialog opens.
10. Select the "Update Database (Full Model - System downtime required)" check box.
11. Click "Next".
The "Teamcenter Administrative User" dialog opens.
12. Enter the password in the "Password" field.
13. Click "Next".
The "Update Database (Full Model)" dialog opens.
The message "Querying database..." is displayed. As soon as the procedure is completed, a list of data models is displayed in which the data model "TIATC" is also listed.
14. Click "Browse" to select the corresponding directory containing the unzipped Teamcenter data model queries (TIATC\output\wntx64\packaging\full_update\).
15. Select the "feature_tiatc.xml." XML file.
16. Click "Open".
17. Click "Next".
The "Confirmation" dialog opens.
18. Click "Start".
The "Install" dialog opens. The data model "TIATC" is updated.
19. Restart the Teamcenter server.
20. You can find information on customer-specific Teamcenter attribute mapping in the "Teamcenter Business Moduler IDE" documentation.

See also

Importing search queries to Teamcenter (Page 11)

2.4 Important information on the Teamcenter data model

Note the following before updating the Teamcenter data model:

1. In the Readme, check to see in chapter "Notes on the TIA Portal" in section "Notes on using the TIA Portal Teamcenter Gateway" if data model or Teamcenter-specific changes are described in the paragraph "Note on updating the existing TIA Portal Teamcenter Gateway data model".
2. You can find information on uninstalling / deleting the data model (project template) from the Teamcenter Server in the Teamcenter BMID BMIDE manual and in the BMIDE Best Practices guide.

Importing search queries to Teamcenter

TIA Portal Teamcenter Gateway uses search queries to provide a search function in TIA Portal. The search function looks on the Teamcenter Server for TIA Portal projects or global libraries. The TIA Portal projects or global libraries which are found, are displayed in the search result list. You can open the TIA Portal projects or global libraries displayed in the search result list in TIA Portal.

The following search queries are included in the scope of delivery of the TIA Portal Teamcenter Gateway:

- "__T4Tia_Item.xml"
- "__T4Tia_ItemRevision.xml"
- "__T4Tia_ItemWithRevision.xml"
- "__T4Tia_RevisionOrderByCreatedDateTime.xml".

Import search query

Proceed as follows to import the search queries:

1. Start the Teamcenter Rich Application Client (RAC).
2. Start the "Query Builder".
3. To do so, select the command "Windows > Show View > Query Builder".
The "QueryBuilder" dialog opens.
4. In the "Query Builder", click "Import".
The "Import" selection dialog opens.
5. Click "...".
The "ReadQueryDefinition" dialog opens.
6. Navigate to the directory containing the search queries.
The search query is available in the form of an XML file in the installation directory of the Teamcenter data model.
7. Select, for example, the query "__T4Tia_Item.xml".
8. Click "Import".
The selected XML file is displayed in the "Import" dialog.
9. Click "Verify".
After a check, the "OK" button is available.
10. Click "OK".
The query details are displayed in the window of the "Query Builder".
The "Create" button is available.
11. Click "Create".
After the query has been built successfully, the import of the search query is complete.
12. To import additional Teamcenter data model search queries, repeat steps 4 to 11.

13. Check if the search queries were imported.
14. To do this, navigate to the node "Query Builder" in "Saved Queries" and search for the relevant search queries.
15. Restart the Teamcenter server.

Checking the installation

Procedure

To check whether the TIA Portal Teamcenter Gateway data model was installed correctly, follow these steps:

1. Start the Teamcenter Rich Application Client (RAC).
2. Check whether it is possible to create an element with data set for T4TIAProject and T4TIALibrary You should also check whether it is possible to download files from the server. This makes sure that you can transfer files to the server.

