

Quick installation guide for NX-SmarTeam-Integration

SmarTeam database:

Make sure to have two document objects to store ugs-nx assembly and part.

- PLMDB: Use existing assembly and part. Check for file_type: Unigraphics
- SmDemo.: Create two document objects e.g. NXAssembly and NXPart, if you don't have installed the UGS NX Integration with the SmarTeam Data Model Designer

Make sure to have a filetype: "Unigraphics"

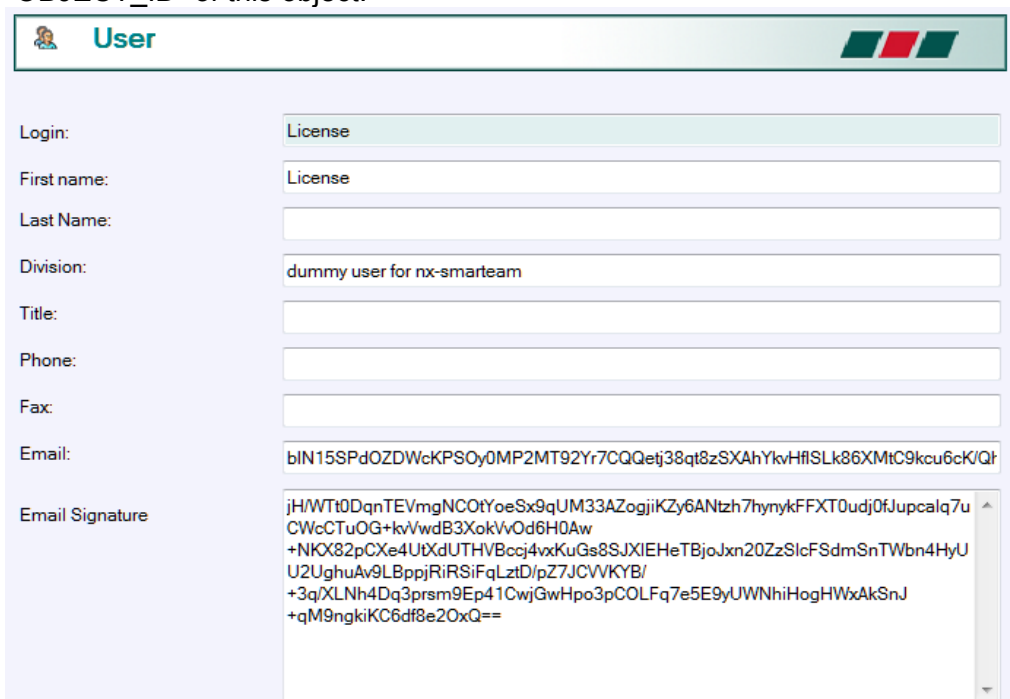
License:

The license object:

The License will be stored on a smarteam object. It can be any object, but must have a character field (255) and a memo field.

E.g. Take the user object. Create a new user "license".

To generate a license for you, Schwindt needs to know the "CLASS_ID" and the "OBJECT_ID" of this object.

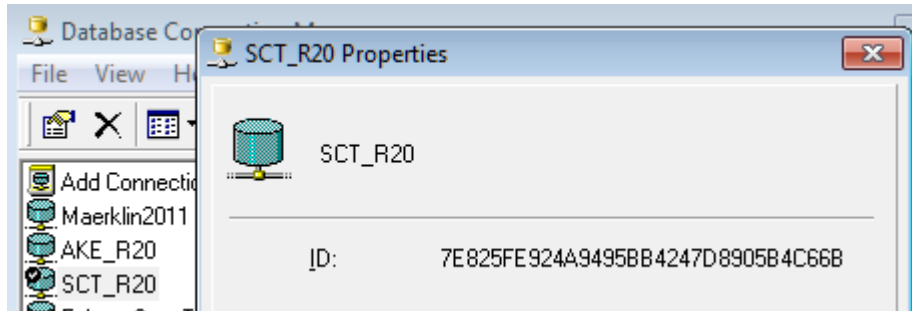


The screenshot shows the 'User' creation form in SmarTeam. The form has a header bar with a user icon and the title 'User'. Below the header, there are several input fields for user information:

- Login: License
- First name: License
- Last Name: (empty)
- Division: dummy user for nx-smarteam
- Title: (empty)
- Phone: (empty)
- Fax: (empty)
- Email: bIN15SPdOZDWcKPSOy0MP2MT92Yr7CQqetj38qt8zSXAhykvHfSLk86XmtC9kcu6cK/Qlt
- Email Signature: jH/WTt0DqnTEVmgNCotYoeSx9qUM33AZogjiKZy6ANtzh7hynykFFXT0udj0fJupcalq7u CWcCTuOG+kvVwdB3XokVvOd6H0Aw +NKX82pCXe4UuXdUTHVBccj4vxKuGs8SJXIEHeTBjoJxn20ZzSlcFSdmSnTWbn4HyU U2UghuAv9LBppjRiRSiFqLztD/pZ7JCVVKYB/ +3q/XLNh4Dq3prsm9Ep41CwjGwHpo3pCOLFq7e5E9yUWNhiHogHWxAKsnJ +qM9ngkiKC6df8e2OxQ==

Database id:

In addition to “CLASS_ID” and “OBJECT_ID”, the database id is needed. The Database Connection Manager lets you see the database id.



The license string has to be placed in the character field (255). The memo field is used by the license manager.

Column: CN_LOCKED_BY

On the document a reference to the user object is needed to show the locking user on the document profilecard. In most databases there is a column “CN_LOCKED_BY” which can be used for this purpose.





Check for the column “CN_LOCKED_BY”. It is a reference field pointing to the user object.

Place it on the document profile card of assembly and part.



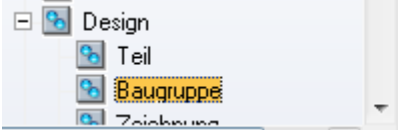
Script Hooks:

A SmartTeam Script can be found in .\NXST\dist

 custom_dirs.dat	18.11.2011 17:09	DAT-Datei	3 KB
 NXSTIntegration.ebs	14.02.2012 09:12	Smart Script File	6 KB
 reg_NXSTIntegration.bat	22.11.2011 14:55	Windows-Batchda...	1 KB
 tessUG.config	04.11.2011 10:13	XML Configuratio...	2 KB

Life Cycle Out Manager:

On Assembly and Part add a user defined function "NX Copy". The "startLCMOut"-function opens the manager for copying files to the work directory.

	NX Copy	startLCMOut
	Open in MS-Project	
	Open In MS-Project	

Viewing JT-Files in external JT-Viewer:

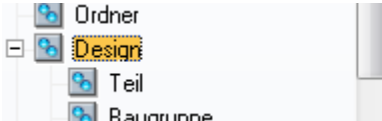
Add the function "startJt2GoViewer" on the system hook "before On Viewer" of the design-object (parent object of assembly and part) or directly on your assembly and part object.

	On Viewer	startJt2GoViewer	
	Copy File		
	On Drop Files		

This function stops the execution of your internal viewer and opens Jt-files in external JT2Go-Viewer.

Locking Objects:

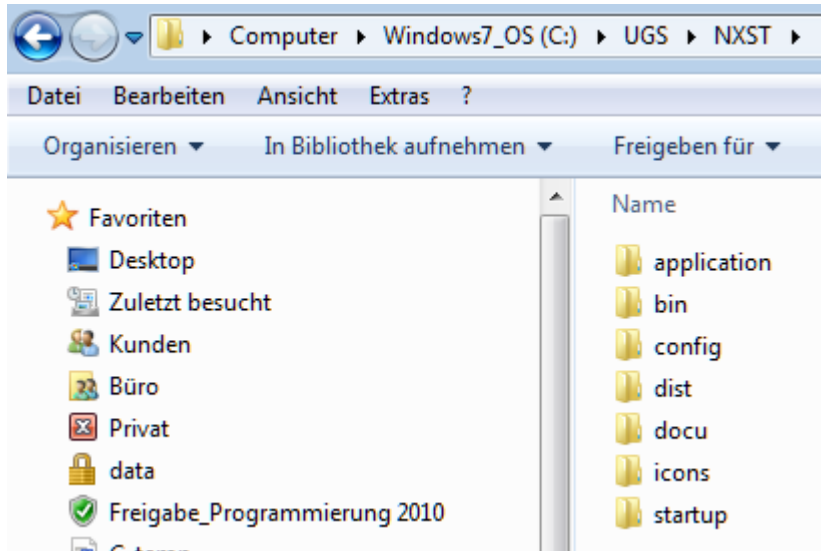
Add user defined function "lockUnlock" to the design object (parent of assembly and part) or directly on your assembly and part object. This function let's you lock and unlock objects in SmartTeam.

	nxstLockAll	
	nxstLockObject	lockUnlock
	Open in MS-Project	

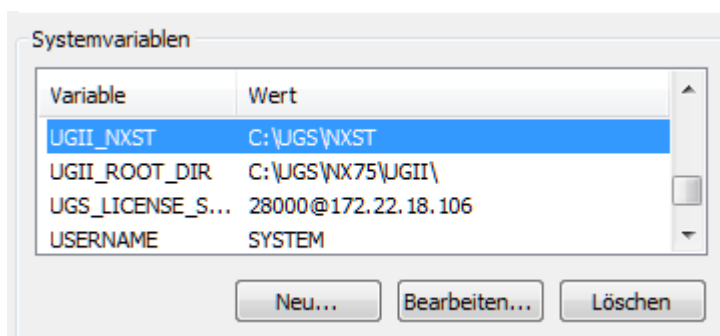
NX-Client-Installation

Install Software:

Extract "NXST_Install.zip" to your desired installation directory e.g. c:\ugs\nxst

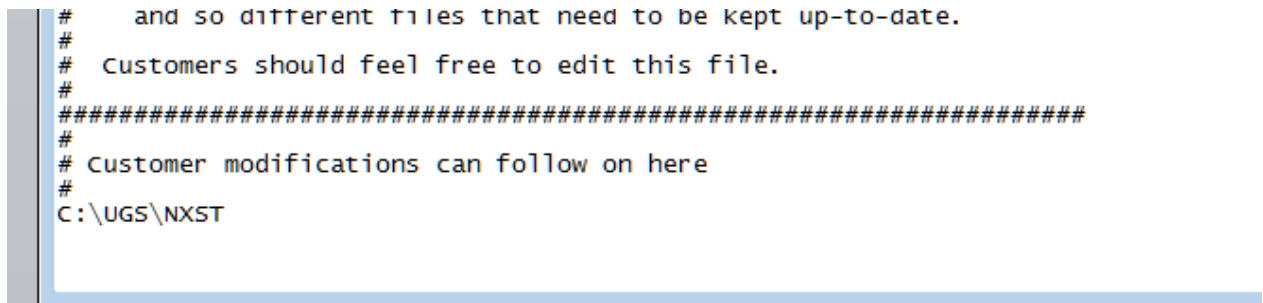
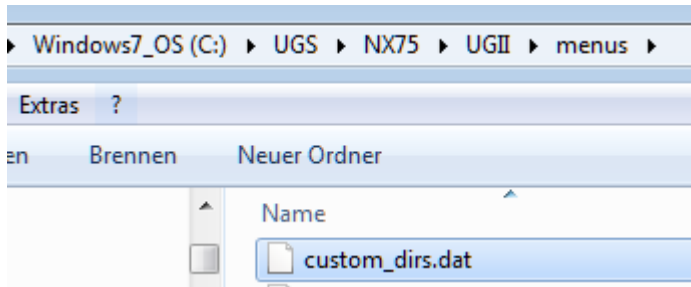


Add system variable: UGII_NXST = your install path



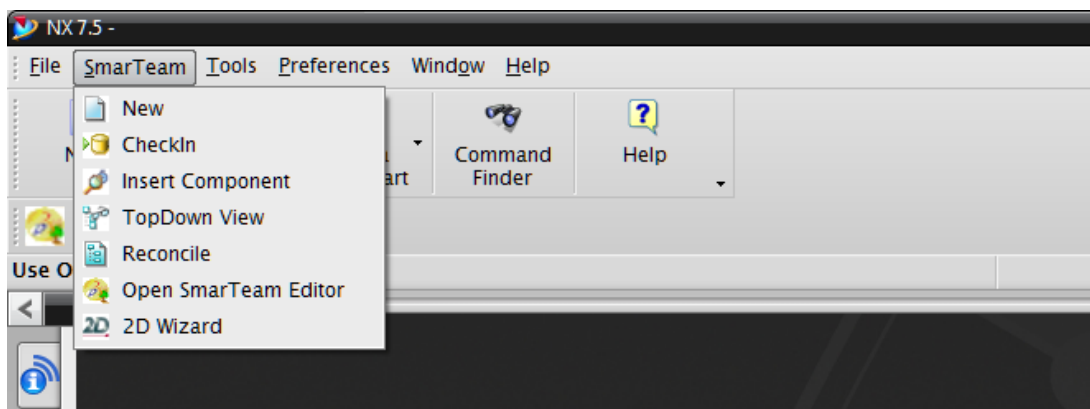
Add smarteam menu bar to your ugs nx application

Copy the file "%UGII_NXST%\dist\custom_dirs.dat" to the folder %UGII_ROOT_DIR%\menus or edit the existing one.



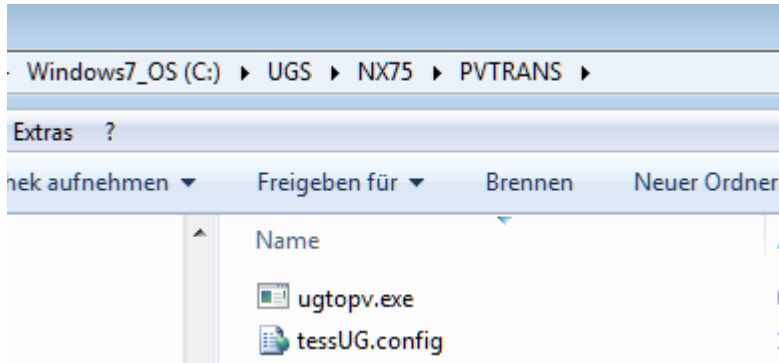
Add your path to your Nx-St-installation directory (UGII_NXST).

Start UGS-NX. You should now see the SmarTeam menu bar.



Jt-file creation

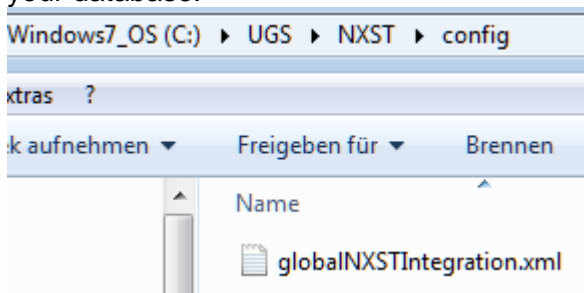
Copy the configuration file %UGII_NXST%\dist\tessUG.config to %UGII_ROOT_DIR%\PVTRANS\tessUG.config



Client configuration

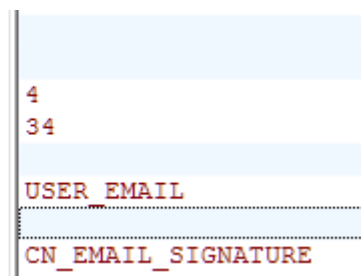
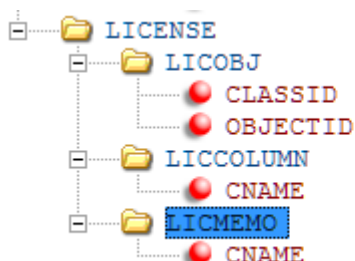
All configuration is done in one file: %UGII_NXST%\config\globalNXSTIntegration.xml

Schwindt will deliver examples for PLMDB and SmDemo. Take the one which fits best to your database.

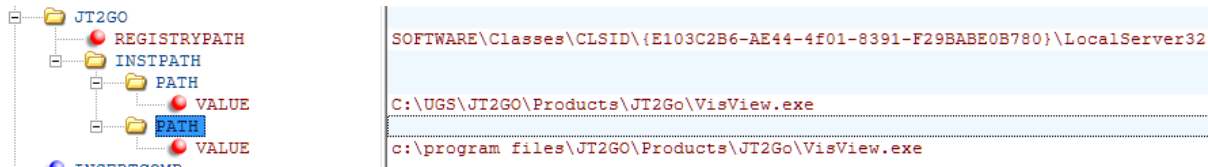


Open this file with your desired editor (screen shots show Microsoft's XMLNotepad)

Configure your license object:



Configure the path to Jt2Go-viewer (both works, registry path or file path)



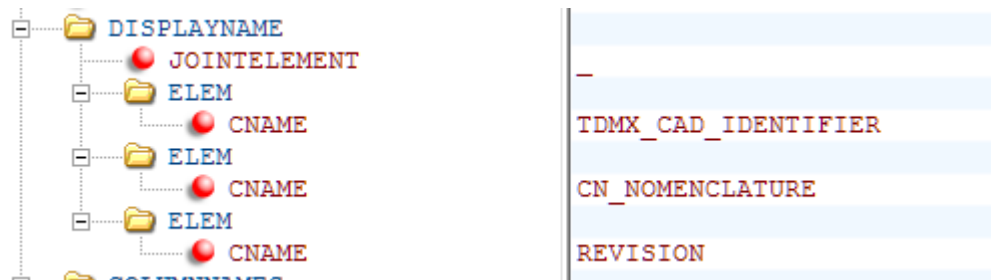
For Jt2Go to work, also set the JtViewFileType correctly in the NXSTIntegration.ebs SmarTeam script



Adjust your column names:



Configure how your objects should be displayed in the application:



Configure attribute mapping from ugs-nx to smartem:



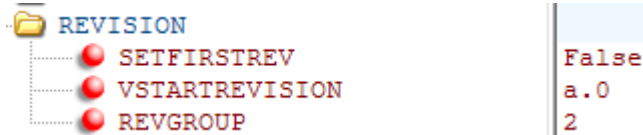
Set attribute "EXECUTE" for en- or disabling mapping. For each attribute to be mapped, add a XmlElement "ELEM" with the two attribute "NXCOLUMN" and "STCOLUMN".

Configure attribute mapping from smarteam to ugs-nx:

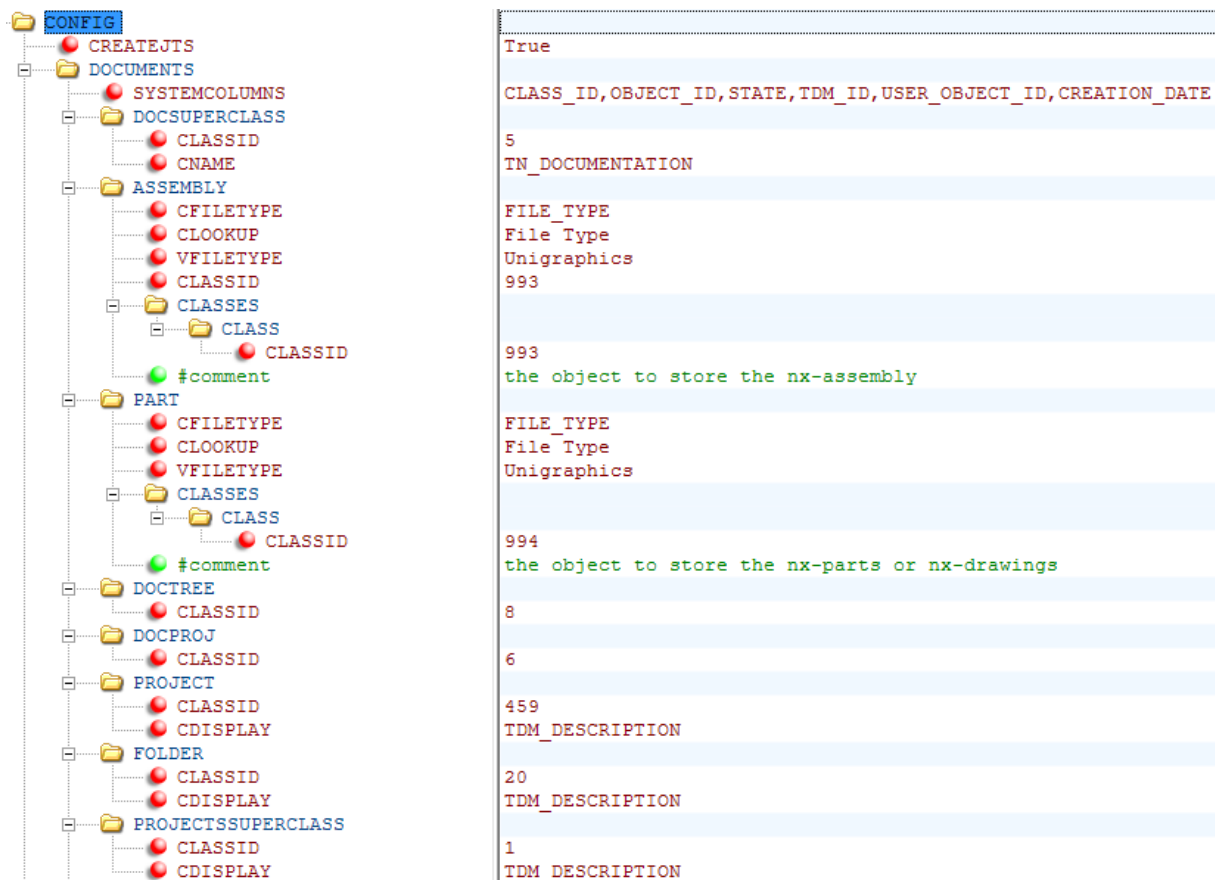


Configure Revisioning:

If your SmartTeam client does not automatically set the first revision of a new part or assembly, set attribute "SETFIRSTREV" to true and set the start value "VSTARTREVISION". Otherwise set this option to false. Use REVGROUP to configure witch group of your revision mask should be incremented.



Adjust to your database (shown here: smDemo)







XMLElements:

DOCSUPERCLASS:	define the class_id of the document superclass and table name
ASSEMBLY:	define the document object, to store nx-assembly
CFILETYPE:	the column name to specify the file type
CLOOKUP:	the name of the lookup
VFILETYPE:	the name used to specify nx-documents
CLASSID:	the class_id of your document
PART:	define the document object, to store nx-parts
DOCTREE:	class_id of your document tree
DOCPROJ:	class_id of your document project link
PROJECT:	class_id of your project superclass
FOLDER:	class_id of your folder object
PROJECTSSUPERCLASS:	class_id of your projects superclass
CDISPLAY:	which column should be used to show this object

Register NXST Library:

In your %UGII_NXST%\dist\ folder is a reg_NXSTIntegration.bat file, which will register the NXSTIntegration.dll (which can be found in %UGII_NXST%\bin\). Execute it.

 custom_dirs.dat	18.11.2011 17:09	DAT-Datei	3 KB
 NXSTIntegration.ebs	02.03.2012 16:26	Smart Script File	5 KB
 reg_NXSTIntegration.bat	22.11.2011 14:55	Windows-Batchda...	1 KB
 tessUG.config	04.11.2011 10:13	XML Configuratio...	2 KB

Some issues for SMDemo:

Make sure your objects have:

- Document Behavior
- File Control
- Secured By
- Revision Control

