

# ABOUT NXCUSTOM V1.0.0

## REVISION HISTORY:

Version	Date	Update info
<a href="#">NXcustom_V1.0.0</a>	6-Jan-2025	Initial Version if NX independent release
<a href="#">NX2406custom_RevA</a>	9-July-2024	Released
<a href="#">NX2312custom_RevC</a>	5-June-2024	Fixed TCIN variables check bug and added more license variables
<a href="#">NX2312custom_RevB</a>	7-May-2024	Improved Teamcenter support and minor fixes/changes
<a href="#">NX2312custom_RevA</a>	4-Jan-2024	Released
<a href="#">NX2306custom_RevD</a>	19-Jul-2023	Fixed issues and added multicharacter argument support
<a href="#">NX2306custom_RevC</a>	14-Jul-2023	Fixed a minor logic issue
<a href="#">NX2306custom_RevB</a>	12-Jul-2023	Fixed some minor issues
<a href="#">NX2306custom_RevA</a>	10-Jul-2023	Released
<a href="#">NX2212custom_RevA</a>	19-Dec-2022	Released
<a href="#">NX2206custom_RevB</a>	12-Jun-2022	Fixed an issue in Compress Assembly (now V1.0.2.0)
<a href="#">NX2206custom_RevA</a>	4-Jun-2022	Released
<a href="#">NX2007custom_RevA</a>	20-Dec-2021	Released
<a href="#">NX1980custom_RevB</a>	22-Jun-2021	Update to startup files
<a href="#">NX1980custom_RevA</a>	22-Jun-2021	Released
<a href="#">NX1953custom_RevA</a>	18-May-2021	Released
<a href="#">NX1926custom_RevA</a>	30-Jul-2020	Released
<a href="#">NX1899custom_RevA</a>	8-Jan-2020	Released
<a href="#">NX1872custom_RevB</a>	5-Jun-2019	Fixed some startup scripts
<a href="#">NX1872custom_RevA</a>	2-June-2019	Released
<a href="#">NX1847custom_RevB</a>	12-Feb-2019	Fixed issue where NXcustom resides in a UNC path.
<a href="#">NX1847custom_RevA</a>	10-Feb-2019	Released
<a href="#">NX120custom_RevE</a>	27-Feb-2017	Restored startup folders in Site and Group Dir's and fixed issue in NX120tess.config due to issues with JT Export
<a href="#">NX120custom_RevD</a>	30-Nov-2017	Fixed the Column Configuration scripts
<a href="#">NX120custom_RevC</a>	17-Nov-2017	Changed check on the START_DIR, Fixed UGII_BASE_DIR check and removed CAMauxiliary folder for customization
<a href="#">NX120custom_RevB</a>	2-Nov-2017	Change to NX120routing_env.dat due to change of default location for Routing Files
<a href="#">NX120custom_RevA</a>	31-Oct-2017	Released
<a href="#">NX110custom_RevC</a>	21-Aug-2016	Added check for accessibility of reading the registry for the NX installation folder
<a href="#">NX110custom_RevB</a>	19-Aug-2016	Added the CMMresource folder in the standard configuration
<a href="#">NX110custom_RevA</a>	19-Aug-2016	Released

## WHAT'S NEW IN NXCUSTOM\_V1.0.0

1. Introduction of NX version independent release
2. Introduction of “hooks” in script to allow addition of custom scripting
3. Added CMD as an application
4. Improved the support of Simcenter 3D only installations

---

### 1. INTRODUCTION OF NX VERSION INDEPENDENT RELEASE

This is the first version where there is no numbered NXxxxxlibrary in the distribution. The goal is to use a template library that comes with the distribution to build your own library, for the version you use.

This will also make the update to a newer version a lot simpler, because you can start with a copy of the previous library and migrate the content to your new version.

When no correct library folder is found, NXstart will notify you to create one from the supplied template folder.

For more information on how to use this, see the NXcustom README.pdf.

---

### 2. INTRODUCTION OF “HOOKS” IN SCRIPT TO ALLOW ADDITION OF CUSTOM SCRIPTING

There are several entry points in the NXstart.bat where a custom script can be executed.

This mechanism also replaces the standard NXstart\_customer.bat file in previous versions. Just moving the file to the correct location will reinstate this functionality.

Currently there are 3 locations where you can insert your own code without editing the NXstart.bat file.

For more information see the “Added support for executing custom scripts with hooks” in the NXcustom README.pdf.

---

### 3. ADDED CMD AS AN APPLICATION

The CMD application option allows you to open a command prompt with the NX configuration settings active.

This can be useful when you need a command prompt that contains the entire NX configuration for the execution of a utility for instance.

---

### 4. IMPROVED THE SUPPORT OF SIMCENTER 3D ONLY INSTALLATIONS

Several changes have been made to the logic to handle Simcenter 3D only installations.

If there is only a Simcenter 3D installation found, you can only launch the packages that belong to Simcenter 3D (NX, VIEW, SIMCENTER3D and SIMVIEWER).

Please be aware that a Simcenter 3D install has limited design functionality and is not equal to a full NX install.

## WHAT'S NEW IN NX2406CUSTOM\_REVA

1. Minor bugfix to NXstart script
2. Support for NX Launcher reinstated
3. Dedicated folder for Bitmaps

---

### 1. MINOR BUGFIX TO NXSTART SCRIPT

The bug where datasets were not opening from AW has been fixed.

---

### 2. SUPPORT FOR NX LAUNCHER REINSTATED

The NX Launcher that comes with NX2406 is supported by NXcustom.

Currently only the native mode has been tested, but the idea is that it also should support the Teamcenter connections from NX Launcher, but those have not been tested yet. You are free to try the Teamcenter environment and report possible found issues back to us.

For further information see the “Use with Siemens NX Launcher” section in the “NX2406\_README” document.

---

### 3. DEDICATED FOLDER FOR BITMAPS

There has always been a setting in the NX\_env.dat file for UGII\_BITMAP\_PATH, but this environment variable was pointing to a legacy KF folder in the library. The UGII\_BITMAP\_PATH is now pointing to a new Bitmaps folder in the NX2406library folder. When you are using bitmaps inn toolbars, menu's or other custom applications, you can put those in this folder.

Please also check the readme in the Bitmaps folder to get more information.

## WHAT'S NEW IN NX2312CUSTOM\_REV1

1. Fixed bug in check for TCIN variables.
2. Added variables for SALT and CDLMD licenses.

---

### 1. FIXED BUG IN CHECK FOR TCIN VARIABLES

A bug which had TCIN variables being checked before they were set has been fixed.

---

### 2. ADDED VARIABLES FOR SALT AND CDLMD LICENSES

SALT\_LICENSE\_SERVER and CDLMD\_LICENSE\_FILE variables are now supported.

## WHAT'S NEW IN NX2312CUSTOM\_REV8

1. Added support for Teamcenter configuration files
2. Added support for Library configuration files
3. Moved all templates into a separate folder
4. Updated Compress Assembly
5. Removed Archive (legacy startup) files

---

### 1. ADDED SUPPORT FOR TEAMCENTER CONFIGURATION FILES

The Teamcenter configuration variables can optionally be configured in a Teamcenter configuration file.

When all the variables are already set by Teamcenter before NX is launched from the RAC or AWS, this file can be omitted, but when it is required to directly start NX in managed mode, these variables can be configured in a configuration file.

See the section “Launching NX directly in NXmanager Mode” in the Readme for more details.

---

### 2. ADDED SUPPORT FOR LIBRARY CONFIGURATION FILES

Since NXstart allows to be started with different version and libraries, it is possible to put a part of the NX configuration in a NXlibrary.conf that resides in the NXxxxxlibrary folder itself.

See the section “Use of the NXlibrary.conf” in the Readme for more details.

---

### 3. MOVED ALL TEMPLATES INTO A SEPARATE FOLDER

In earlier versions, some config templates were located directly in the “...\\NXstartup” folder and the extension had to be removed, to activate it. In the new layout, all those templates have moved into the “...\\NXstartup\\Configuration\_Templates” folder. This reduces the renaming of files. Just copy the template to the correct folder and make your adjustments to it.

See the applicable sections in the Readme for more details.

---

### 4. UPDATED COMPRESS ASSEMBLY

There has been a minor update to Compress Assembly to get a more descriptive error message, when you try to launch it when no part is open. No change in user interaction. See the updated documentation in the “...\\Plugins\\CompressAssembly” folder.

---

### 5. REMOVED ARCHIVE (LEGACY STARTUP) FILES

All legacy startup files (“Archive” folder) have now been removed from the “...\\NXstartup” folder. If there is still need for the legacy files, please download an older version of NXcustom and take the files from there at your own discretion.

## WHAT'S NEW IN NX2312CUSTOM\_REV1

1. Added support for Teamcenter integration into NXstart.bat
2. Utilities renamed to Plugins
3. Added support for \*env.dat files in plugins
4. Menu customization moved from Toolbars & Menuscript into Plugins folder
5. Support for named libraries
6. Added support for executing custom script with your company specific settings
7. Support for associating .prt files with NXstart.bat
8. Removed NX\_env\_routing.dat file and moved the just one setting into the NX\_env.dat file

---

### 1. ADDED SUPPORT FOR TEAMCENTER INTEGRATION INTO START.BAT

NXstart.bat is now fully capable of handling the integration of NX with Teamcenter.  
It now supports the handling of calls from Active Workspace and the Teamcenter Rich Client.  
See the "NX2312\_README.pdf" for more details.

---

### 2. UTILITIES RENAMED TO PLUGINS

Since the folder now allows for menu customization also, it is more obvious to name the folder "Plugins".

---

### 3. ADDED SUPPORT FOR \*ENV.DAT FILES IN PLUGINS

In the plugins folder you can now also have an extra "\*env.dat" files that declares the environment files for your plugin.  
See the "README Plugins.txt" file in the "Plugins" folder for more details.

---

### 4. MENU CUSTOMIZATION MOVED FROM TOOLBARS & MENUSCRIPT INTO PLUGINS FOLDER

To make menu customization more centralized, the content of the "Toolbars" and "Menuscript" folders have been merged into the "Plugins\NXcustomToolbar" folder.  
When you have your own customization in the "Toolbars" and/or "Menuscript" folders, these have to be merged into the Plugins folder.

---

### 5. SUPPORT FOR NAMED LIBRARIES

It is now possible to use multiple NXxxxxlibraries by using the "\_name" extension (ie. NX2312library\_test).  
This allows you to have multiple NX libraries for the same version, for testing or a specific customer/supplier.  
The secondary library can be chosen by adding the argument "/libname <NXCUSTOM\_LIBNAME>".

Use "NXstart.bat /h" for more details or check the "Valid Arguments" section in "NX2312\_README.pdf"

---

### 6. ADDED SUPPORT FOR EXECUTING CUSTOM SCRIPT WITH YOUR COMPANY SPECIFIC SETTINGS

The addition of a NXstart\_customer.bat file allows for more complex environment configuration than the NXstart.conf file can support. If the additional complexity is needed, scripting should be done in the NXstart\_customer.bat file, NOT the NXstart.bat file! The NXstart.bat file will call the NXstart\_customer.bat file if it exists.

---

### 7. SUPPORT FOR ASSOCIATING .PRT FILES WITH NXSTART.BAT

It is now possible to relate the NXstart.bat file to .prt files within Windows. By running the set\_PRT\_association.bat file as administrator on a workstation, the association will be set and double-clicking to open a .prt file within Windows Explorer will cause a new NXcustom NX session to open if no session is open.

For more information, see the section "Associating Part Files" in the "NX2312\_README.pdf" file.

---

## 8. REMOVED NX\_ENV\_ROUTING.DAT FILE AND MOVED THE JUST ONE SETTING INTO THE NX\_ENV.DAT FILE

To prevent additional maintenance to the “NX\_env\_routing.dat” file, since this whole section is already available “...\\NX2312\\UGII\\ugii\_env\_ug.dat” file, this “NX\_env\_routing.dat” has been removed.

The changes to activate the NXcustom “Routing” folder is just one line in the “NX\_env.dat file.

See the “README Routing.txt” file in the “Routing” folder for more details.

## WHAT'S NEW IN NX2306CUSTOM\_REV0

1. Fix start from AW issue
  2. Fix NX mapped install issue
  3. Added support for multicharacter argument switches
- 

### 1. FIX START FROM AW ISSUE

Fixed issue with starting NXcustom from AW. The fix requires running the set\_link\_from\_AW.bat script after updating to this version of NXcustom.

---

### 2. FIX NX MAPPED INSTALL ISSUE

Previous versions of the NXstart script would not recognize mapped installations of NX. This issue has been resolved.

---

### 3. ADDED SUPPORT FOR MULTICHA RACTER ARGUMENT SWITCHES

This new feature in the NXstart script allows the use of multicharacter argument switches while still supporting existing single character switches. The NXstart.conf.default file has been updated with comments indicating the additional switches, and the default value for NXCUSTOM\_USER\_OVERRIDE\_ARGS has been changed as the multicharacter switches are now the primary switches used in the script. If you have an NXstart.conf file, modify your NXCUSTOM\_USER\_OVERRIDE\_ARGS to use the multicharacter switches instead of the single character switches. Single and multicharacter switches are supported as arguments passed to NXstart.bat.

## WHAT'S NEW IN NX2306CUSTOM\_REV1

1. Fix in check for NX Launcher that was causing error for missing UGII\_BASE\_DIR

---

### 1. FIX IN CHECK FOR NX LAUNCHER THAT WAS CAUSING ERROR FOR MISSING UGII\_BASE\_DIR

With adding the fallback method for checking the UGII\_BASE\_DIR a small error was introduced in the logic.  
This has been fixed in the NXstart.bat version 2023.07.14.

## WHAT'S NEW IN NX2306CUSTOM\_REV B

1. Minor update to NXstart.bat to support legacy libraries
2. Edits in menu customization

---

### 1. MINOR UPDATE TO NXSTART.BAT TO SUPPORT LEGACY LIBRARIES

Since the legacy libraries and the A revision of the NX2306library are using the NXCUSTOM\_NUMBER environment variable, the script generates this variable now also again.

Additionally, there is a fallback for finding the correct UGII\_BASE\_DIR for the chosen NX version.

---

### 2. EDITS IN MENU CUSTOMIZATION

Menu customization in revision A was also relying on NXCUSTOM\_NUMBER, but is not using its successor NXCUSTOM\_APPLICATION\_VERSION

The pointer to the old NX2306.bat file has been replaced with a pointer to the NXstart.conf file.

A new entry to edit the NX\_CMM\_auto\_env.dat file has been added.

## WHAT'S NEW IN NX2306CUSTOM\_REVA

1. New consolidated script to start NXcustom.
2. New configuration file for easy customization of NXcustom start parameters.
3. Levels of variable overriding.
4. User definable NX window title with ability to include detailed software version.

### 1. NEW CONSOLIDATED SCRIPT TO START NXCUSTOM

To reduce the number of scripts and add flexibility to the startup of the applications in NXcustom, a new NXstart.bat file has been introduced. The NXstart.bat file replaces many .bat files from previous versions, and will continue to be enhanced in future versions to consolidate scripts further. Additionally, the script is designed to be version independent, so this script may be used with any continuous release version of NX.

At present, NXstart.bat replaces:

- NXxxxx.bat
- NXxxxx\_CAM\_Express.bat
- NXxxxx\_Group1\_CAD.bat
- NXxxxx\_Group2\_CAM.bat
- NXxxxx\_Group3\_CAE.bat
- NXxxxx\_MechatronicsConceptDesigner.bat
- NXxxxx\_SE\_CAM\_Pro.bat
- NXxxxx\_Viewer.bat
- NXcustom\_General\_Launcher.bat
- SExxxx\_NXxxxx.bat
- NX\_common.bat

### 2. NEW CONFIGURATION FILE FOR EASY CUSTOMIZATION OF NXCUSTOM START PARAMETERS

Along with the new NXstart.bat, NXstart.conf is introduced. The purpose of NXstart.conf is to separate script logic from configurable parameters. In theory, NXstart.bat should never need editing by an administrator, while the NXstart.conf file is intended for administrators to edit. NXstart.conf.default is delivered as a sample NXstart.conf file, where each delivery of the .default file results in no risk to a customized NXstart.conf file being overwritten when updating NXcustom.

### 3. LEVELS OF VARIABLE OVERRIDING

With the new NXstart.bat and NXstart.conf come four levels of starting configuration:

- NXstart.bat – Default configuration is provided within so no NXstart.conf is required.
- NXstart.conf – Designated place for configuration to take place at the administrator level. Here administrators can also specify via the NXCUSTOM\_USER\_OVERRIDE\_ARGS environment variable which parameters are able to be overridden at the user level.
- NXCUSTOM\_START\_ARGUMENTS – This environment variable may be set by users to specify arguments they would like to pass to the start script, overriding those set by default or in NXstart.conf. Only arguments which have been approved for override at the administrator level via the NXCUSTOM\_USER\_OVERRIDE\_ARGS environment variable can be overridden at the user level.
- Arguments passed directly to NXstart.bat – Arguments passed to the start script can override parameters set at any previous level. Only arguments which have been approved for override at the administrator level via the NXCUSTOM\_USER\_OVERRIDE\_ARGS environment variable can be overridden at the user level.

### 4. USER DEFINABLE NX WINDOW TITLE

NX window titles may now be easily customized. Precise software version information can be included in the window title by setting a variable in the NXstart.conf file. Additionally, a custom string may be appended to the window title either by setting a variable in NXstart.conf, or using an argument passed to the start script. Either, neither, or both features may be used.

## WHAT'S NEW IN NX2212CUSTOM\_REVA

1. Fixed an issue in Compress Assembly (now V1.0.3.0)
2. Added logic to locate Solid Edge installation folder automatically
3. Drafting Standards standard behavior changed

---

### 1. FIXED AN ISSUE IN COMPRESS ASSEMBLY (NOW V1.0.3.0)

An issue with large assemblies has been fixed in this release.

---

### 2. ADDED LOGIC TO LOCATE SOLID EDGE INSTALLATION FOLDER AUTOMATICALLY

The scripts that access Solid Edge, now automatically determine the location where Solid Edge is installed. A manual backup is still available in case there is no access to the registry.

---

### 3. DRAFTING STANDARDS STANDARD BEHAVIOR CHANGED

The behavior of drafting standards has changed, and from now on, the original drafting standards will automatically come from the OOTB folder. Only the custom drafting standards are saved in NXcustom and the group and site standards, will go into the respective folders.

See for more details the “Drafting Standards” section in the NX2212\_Readme.pdf

## WHAT'S NEW IN NX2206CUSTOM\_REV8

1. Fixed an issue in Compress Assembly (now V1.0.2.0)

---

### 1. FIXED AN ISSUE IN COMPRESS ASSEMBLY (NOW V1.0.2.0)

Due to a minor issue in locating the installed 7-Zip version, the code has been updated, and it now only refers to the supplied version of 7-Zip.

## WHAT'S NEW IN NX2206CUSTOM\_REV1

1. Replaced “UGZip Assembly” by new “Compress Assembly”
2. Added “Utilities” to easily add your own custom utilities
3. Added support for Active Workspace integration

---

### 1. REPLACED “UGZIP ASSEMBLY” BY NEW “COMPRESS ASSEMBLY”

The legacy “UGZip Assembly” tool has been replaced by “Compress Assembly” the old tool is still available but will not be updated anymore.

Thanks to Eric Magray who created this new tool. If you find an issue, or you have ideas for enhancements on this tool, please let us know.

---

### 2. ADDED “UTILITIES” TO EASILY ADD YOUR OWN CUSTOM UTILITIES

The “Utilities” folder is added to easily add your own custom tools with menuscript.  
It has a script that helps you keep the Utilities.dat file up to date.

See the “Utilities” section in NX2206\_Readme.pdf for more details on its usage.

---

### 3. ADDED SUPPORT FOR ACTIVE WORKSPACE INTEGRATION

There is now also support to launch NXcustom from Active workspace.

See the “Active Workspace Support” section in NX2206\_Readme.pdf for more details on how to activate this.  
This might require Administrative rights on the client to enable this.

## WHAT'S NEW IN NX2007CUSTOM\_REVA

1. Update to Drafting Standards
2. Updated Documentation of Overriding user preferences

---

### 1. UPDATE TO DRAFTING STANDARDS

There are minor updates in the Drafting Standards that have been updated.

---

### 2. UPDATED DOCUMENTATION OF OVERRIDING USER PREFERENCES

The capability to override the user preferences has been enhanced.

It is referenced in the Readme document, but you can also find it [Customizing the NX installation \(siemens.com\)](http://Customizing the NX installation (siemens.com)).

## WHAT'S NEW IN NX1980CUSTOM\_REV8

1. Update to NX\_Launcher and NX\_common script

---

### 1. UPDATE TO NX\_LAUNCHER AND NX\_COMMON SCRIPT

To better support the “Start in” functionality there are minor changes made to the NX\_common.bat file.

Also the “Start in” parameter USE\_START\_DIR is removed from the NXcustom\_General\_Launcher.bat file since it otherwise will always default to the NX Launcher installation folder.

Changing the “Start In” folder of the NX Launcher Shortcut has no influence.

## WHAT'S NEW IN NX1980CUSTOM\_REVA

1. Minor updates to NX\_tess.config

---

### 1. MINOR UPDATES TO NX\_TESS.CONFIG

Due to changes in the JT format, this file has been updated.

When you are transferring your own customizations to the file from a previous version, make sure that the file does not miss any keywords or that obsolete keywords are still there. This might have a negative influence the JT Translator behavior.

## WHAT'S NEW IN NX1953CUSTOM\_REVA

1. Automatic detection of the sub folders of CMMresource
2. "Start In" functionality by default disabled

---

### 2. AUTOMATIC DETECTION OF THE SUB FOLDERS OF CCMRESOURCE

Similar to the CAMresource folder, also the CMMresource folder now supports automatic detection.  
for more details read the "CMM Inspection" section in the Readme document.

Thanks to "Joe Gesualdi", who supplied the adjusted env file for CMM.

---

### 3. "START IN" FUNCTIONALITY BY DEFAULT DISABLED

Due to issues with several customers, the start in functionality has changed.

There have been some changes to make it more stable with UNC paths, but to prevent more issues it is disabled by default. For those who want to keep on using the "Start In" capability of the shortcut, please read the "Use of "Start In" folder with Shortcuts" section in the Readme document.

## WHAT'S NEW IN NX1926CUSTOM\_REV4

1. Refresh of the NX\_tess.config file to latest standards
2. Introduction of a NXcommonlibrary folder to store version independent data
3. Support for the Implementation of the Group & Site preferences
4. Cleanup NX\_env.dat, removing outdated variables

---

### 1. REFRESH OF THE NX\_TESS.CONFIG FILE TO LATEST STANDARDS

Since the introduction of JT v10, some settings in the NX\_tess.config file have become obsolete. Additionally I removed a lot of overrides and kept the changes relative to the original to a minimum to maintain as much as possible to the standard settings.

You are still free to make all the edits you like to suit your environment.

---

### 2. INTRODUCTION OF A NXCOMMONLIBRARY FOLDER TO STORE VERSION INDEPENDENT DATA

To further simplify the migration to a newer version, the NXcommonlibrary folder is introduced.

In this folder is a separate NX\_common\_env.dat file controls the settings that can be moved to this folder.

So, when you want to make a reference to the NXcommonlibrary in your "NX\_common\_env.dat" file use:

```
 ${NXCUSTOM_COMMON_LIB}
```

And when you want to make a reference to the NX2212library in your "NX\_env.dat" file use:

```
 ${NXCUSTOM_LIB}
```

You are free to move other content of which you know you can use them across different versions to this folder also.

Make sure that the folders you add, are set into the "NX\_common\_env.dat" and removed from the "NX\_env.dat" file.

For future versions, it is intended to keep pointing by default to this folder, so this data does not have to be duplicated, when you work with multiple versions.

---

### 3. SUPPORT FOR THE IMPLEMENTATION OF THE GROUP & SITE PREFERENCES

Since NX1919 there is support to control the User Preferences from Group & Site level.

These locations are controlled by UGII\_GROUP\_DIR & UGII\_SITE\_DIR.

However, due to an issue in the latest versions, the variables above must be set on system level or in a script. Therefore the 2 variables are set in the "NX\_common.bat" script, and the ones in the "NX\_env.dat" file don't work at this moment.

If you don't want to use the Preferences override, please comment line 102 in the "NX\_common.bat" file:

```
:: set UGII_SITE_DIR=%NXCUSTOM_CUSTOMER_DEFAULTS_DIR%\Site
```

See the "ENFORCING USER PREFERENCES" section in the README document on how this works.

---

### 4. CLEANUP NX\_ENV.DAT, REMOVING OUTDATED VARIABLES

Over the years a lot of custom environment variables were gathered in the NX\_env.dat file. Many of those have become obsolete over the years or have been replaced by Customer Defaults, and have therefore no function anymore.

Those have been deleted from the "NX\_env.dat" file.

When accidentally a variable has been removed, that you were still using, please copy this from one of your older environments.

## WHAT'S NEW IN NX1899CUSTOM\_REVA

1. Universal Script for use with NX Launcher
  2. Automatic detection of the sub folders of CAMresource
  3. Replaced old Bounding Block to new Bounding Body in menu customization
- 

### 1. UNIVERSAL SCRIPT FOR USE WITH NX LAUNCHER

With this version a universal script has been supplied that you can use together with NX Starter (available since NX1872).

This script lets the NX Launcher automatically select the correct NXcustom configuration that belongs to the NX Base version (NX1847, NX1872, NX1899, etc.).

For more information see the section “Use with Siemens NX Launcher” in the README.

---

### 2. AUTOMATIC DETECTION OF THE SUB FOLDERS OF CAMRESOURCE

To reduce the data to be managed during updates for NX CAM, NXcustom now automatically detects the folders that are present in the CAMresource folder.

For more information see the section “Manufacturing” in the README.

---

### 3. REPLACED OLD BOUNDING BLOCK TO NEW BOUNDING BODY IN MENU CUSTOMIZATION

Before the Bounding Body command became available there was a Bounding Block command added to the CAM geometry drop down menu.

This menu customization was overwriting the new Bounding Body command.

## WHAT'S NEW IN NX1872CUSTOM\_REV2

1. Fixed some startup scripts.

---

### 1. FIXED SOME STARTUP SCRIPTS.

The support for the “Start in” of the shortcut required some minor changes in the Startup scripts.

The NX1872.bat was updated, but all the other samples missed this change.

The following code in the Startup script:

```
set NXCUSTOM_DIR=%~dp0
set NXCUSTOM_DIR=%NXCUSTOM_DIR:\NXstartup\=%
```

Was changed into:

```
set NXCUSTOM_START_DIR=%~dp0
set NXCUSTOM_DIR=%NXCUSTOM_START_DIR:\NXstartup=%
```

When this change is not done, that script fails to start NXcustom in a proper way.

## WHAT'S NEW IN NX1872CUSTOM\_REVA

1. Added support for the "Start in" functionality of shortcuts.
2. Fixed issue with location of UGII\_SITE\_DIR when using managed mode.

---

### 1. ADDED SUPPORT FOR THE "START IN" FUNCTIONALITY OF SHORTCUTS.

When a shortcut is used to determine the "Start in" folder, this folder is being used.

However, when the "Start in" location is the same (default behavior) as the start script itself or the "Start in" folder that is defined, does not exist, the "Start in" folder is determined by NXcustom in the following order:

1. %HOMEDRIVE%%HOMEPATH%\NX
2. %HOMEDRIVE%%HOMEPATH%
3. %TC\_TMP\_DIR%
4. %UGII\_TMP\_DIR%
5. %TEMP%

The first one found, is the one that is used.

To fully disable the Windows shortcut "Start in" functionality and use the NXcustom method, change the following line in your start script:

```
set USE_START_DIR=%cd%
```

into:

```
:: set USE_START_DIR=%cd%
```

---

### 2. FIXED ISSUE WITH LOCATION OF UGII\_SITE\_DIR WHEN USING MANAGED MODE.

When using NXcustom in managed mode, it now correctly responds to the:

```
set NXCUSTOM_MANAGED_CUSTOMER_DEFAULTS=true
```

setting in the NXcommon.bat file.

## WHAT'S NEW IN NX1847CUSTOM\_REV2

1. Fixed issue where NXcustom resides in a UNC path.

---

### 1. FIXED ISSUE WHERE NXCUSTOM RESIDES IN A UNC PATH.

The use of pushd and popd commands was introduced in the scripts to be able to trim the last directory name (no matter what the name was) of the full path. However, this is not a very stable solution in an environment where NXcustom is located on a UNC path. A temporary drive is created in this case and after popd that is removed again.

The code has been simplified and now it should work on all environments again. The only back draw is that the NXstartup folder name is not allowed to be renamed.

## WHAT'S NEW IN NX1847CUSTOM\_REV4

1. Removed distribution of Navigator Columns.
2. Reorganized Folder structure and added logic to simplify migration to versions of NXcustom beyond NX1847
3. Added "NX\_CUSTOM\_" prefix to all NXcustom environment variables.
4. Added logic to reporting some environment variables in the NXcustom command window in case they are set later in a NX\_env.dat file.
5. Converted About and Main readme file to pdf.

---

### 1. REMOVED DISTRIBUTION OF NAVIGATOR COLUMNS.

Since the latest version of NX is using a Text file to store the user preferences, instead of the registry in the previous versions, the mechanism to export and import the Column Configuration is not working anymore. To continue this functionality, the code around it must be rewritten, and probably will require additional 3rd party code to parse the text file and make it work again.

Hoping to have this back a.s.a.p.

---

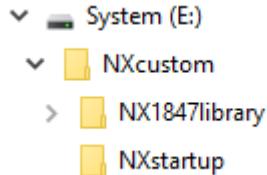
### 2. REORGANIZED FOLDER STRUCTURE AND ADDED LOGIC TO SIMPLIFY MIGRATION TO VERSIONS OF NXCUSTOM BEYOND NX1847

To support easier migration to newer versions of NX beyond NX1847 the folder structure has been changed.

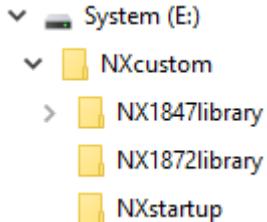
Also most of file names in the NXxxxxlibrary folder will not have the NX version number in the name anymore.

The NXcustom folder should become the root of all the NXcustom's to be released as of from now.

The structure for NXcustom will look like:



With the update to NX1872 the structure will look like:



The new startup scripts will be added to the existing NXstartup folder. They will still have the NX base version number in the naming (ie. NX1847.bat, NX1872.bat, etc).

Additional code has been added to the NX\_common.bat file to verify that the NX version to be started is the version that is expected. Since the naming of the Installation folder will not anymore after a base version update. This check is required to keep the configuration consistent.

---

### 3. ADDED "NXCUSTOM\_" PREFIX TO ALL NXCUSTOM ENVIRONMENT VARIABLES.

Due to the introduction of more and more environment variables that have the prefix NX\_ and some of these now overlap with one in NXcustom, this new release all environment variables that are needed for NXcustom internally will have the NXCUSTOM\_ prefix to prevent (future) conflicts with internal NX variables that might start with NX\_.

Also, this makes it easier to distinguish them from all other variables, and NX will still report them in the log file.

---

### 4. ADDED LOGIC TO REPORTING SOME ENVIRONMENT VARIABLES IN THE NXCUSTOM COMMAND WINDOW IN CASE THEY ARE SET LATER IN A NX\_ENV.DAT FILE.

Before NX is started from the scripts it can be useful to report the value of an environment variable that is not set the scripts, but later by NX when it is reading all the \*.dat files during startup.

Since this mechanism allows logic and cannot always be accurately predicted, the env\_print command of NX is used to retrieve this value even before NX is started.

---

### 5. CONVERTED ABOUT AND MAIN README FILE TO PDF.

Since it is almost common that every windows system has a PDF reader in place, the 2 main documents have been replaced by a PDF version. The buttons in the NXcustom ribbon are also launching the PDF file from NX, if there is an application installed that is attached to the .pdf file extension.

When there is really a need for a text-based version of the future documents, it can be delivered on demand, but it will be a text version of the PDF document. Any images in the PDF will be lost in the text-based version.

## WHAT'S NEW IN NX120CUSTOM\_REV1:

1. Restored startup folders in Site and Group Dir's.
2. Fixed issue in NX120tess.config due to issues with JT Export.

---

### RESTORED STARTUP FOLDERS IN SITE AND GROUP DIR'S.

Due to the missing "startup" folders in the default UGII\_GROUP\_DIR and UGII\_SITE\_DIR, the capability to set the customer defaults got lost.

This is now fixed.

---

### FIXED ISSUE IN NX120TESS.CONFIG DUE TO ISSUES WITH JT EXPORT.

Changes in the NX12 format of the tessUG.config file, resulted in issues during JT Export.

These changes have been implemented in the NX120tess.config file and the changes relative to the OOTB version can be found in NX120tess.config\_mods.txt

JT Export should now work correctly again.

## WHAT'S NEW IN NX120CUSTOM\_REV2:

1. Fixed the Column Configuration scripts.

---

### FIXED THE COLUMN CONFIGURATION SCRIPTS.

The scripts that store the Column Configurations were using reading the NX11 configuration settings instead of NX12.

This is now fixed.

## WHAT'S NEW IN NX120CUSTOM\_REV1:

1. Changed check on the START\_DIR in the NX120common.bat file
  2. Fixed Check on UGII\_BASE\_DIR. This was not working correctly, when there was a space in the pathname
  3. Removed the CAMauxiliary folder from the standard configuration
- 

### CHANGED CHECK ON THE START\_DIR IN THE NX120COMMON.BAT FILE

The check on the START\_DIR was done by checking if it contained a value. This has been changed to checking the existence of the path in the variable.

Also, the %HOMEDRIVE%%HOMEPATH% (The Home folder of the user) has been added to the folders to be used.

### FIXED CHECK ON UGII\_BASE\_DIR. THIS WAS NOT WORKING CORRECTLY, WHEN THERE WAS A SPACE IN THE PATHNAME

There were some issues with the check on the location of the NX install. Whenever there was a space in the pathname, the check failed, and it reported an error.

Where required, the variables are not quoted to prevent the error from happening.

### REMOVED THE CAMAUXILIARY FOLDER FROM THE STANDARD CONFIGURATION

Since the auxiliary folder is one that not really contains data that needs editing and for the configuration, and on the other hand contains a lot of code that could be updated by a maintenance release or maintenance pack, it is better not to promote to add this folder to the custom configuration.

When there still is a need to customize this folder, it is free to do so. Keep in mind that adding this might result in a configuration that has "out of date" executables in the configuration that could result in an unstable NX configuration.

## WHAT'S NEW IN NX120CUSTOM\_REV2:

1. Change location of NX\_ROUTE\_DIR

### CHANGE LOCATION OF NX\_ROUTE\_DIR

In the Previous versions of NX the default locations of the Routing files were directly under the \${UGII\_BASE\_DIR} folder.

In NX12 the Routing files have moved one level down to the \${UGII\_BASE\_DIR}\Routing folder.

For NXcustom this sub folder was already being used for a long time.

This change has been made in the NX120routing\_env.dat file.

## WHAT'S NEW IN NX120CUSTOM\_REV4:

1. Removed "set UGII\_ROUTE\_UGMANAGER\_MODE=FALSE" from the batch files
2. Moved output to command screen to NX120common.bat file
3. Moved "set UGII\_ROUTING\_KIT\_UNITS=metric" to NX120common.bat file
4. Added Option to select location of User Files
5. Several Alignments and code cleanup in \*.bat files
6. Enhanced the search code for the NX install

---

### REMOVED "SET UGII\_ROUTE\_UGMANAGER\_MODE=FALSE" FROM THE BATCH FILES.

Since the variable is already declared in the "NX120env\_routing.dat" file, the additional setting in the batch file may lead to confusion.

The setting is now located at a central location, so multiple edits in batch files is not required anymore.

---

### MOVED OUTPUT TO COMMAND SCREEN TO NX120COMMON.BAT FILE

The reporting of the environment variables is now moved to the bottom of the NX120common.bat file.  
When you want to add more environment variables to the output, make the changes in the file above.

---

### MOVED "SET UGII\_ROUTING\_KIT\_UNITS=METRIC" TO NX120COMMON.BAT FILE

The reporting of the environment variables is now moved to the NX120common.bat file.  
When you want to add more environment to the output, make the changes in that file.

---

### ADDED OPTION TO SELECT LOCATION OF USER FILES

It is now possible to select several default locations where you want to store the NX User Profile data.  
Also it is easier to just set another location to store the User files.

NXcustom will automatically create some subfolders to store the data when they do not exist.  
For this reason the UGII\_USER\_PROFILE\_DIR environment variable has been removed from the NX120env.dat file.

For more information see the REAMDE.txt section "User Files"

---

### SEVERAL ALIGNMENTS AND CODE CLEANUP IN \*.BAT FILES

If you trying to find settings of variables in one of the bat files and cannot find them anymore, please check the NX120Library\NX120common.bat file.

There is a big chance that you will find it there.

A large piece of the common file contains logic that is required to make NXcustom work.

Please be careful with editing parts of the script between the lines:

```
:: **** DO NOT EDIT THE FOLLOWING LINES UNLESS YOU KNOW WHAT YOU ARE DOING (start) ****
```

and

```
:: **** DO NOT EDIT THE PREVIOUS LINES UNLESS YOU KNOW WHAT YOU ARE DOING (end) ****
```

---

## ENHANCED THE SEARCH CODE FOR THE NX INSTALL

Updated the code so it can also fall back on an existing UGII\_BASE\_DIR when all other options fail.  
If this is not sufficient, the user can change the value manually in the NX120common.dat file.

## WHAT'S NEW IN NX110CUSTOM\_REV4:

1. Changed location of NX Executables and dll's to new nxbin location.
2. Added support for rollout of centrally defined column configuration for the:
  - ANT (Assembly Navigation Tool)
  - PNT (Part Navigation Tool)
  - ONT (Operation Navigation Tool)
3. Added a new more preferred method of configuring the File New Tabs.
4. Removed OOTB VisualReporting Files
5. Added CMMResource to the configurator

---

### CHANGED LOCATION OF NX EXECUTABLES AND DLL'S TO NEW NXBIN LOCATION.

All executables that were in previous versions located in the UGII\_ROOT\_DIR have been moved to the %UGII\_BASE\_DIR%\nxbin folder.

The UGII\_ROOT\_DIR is therefore deprecated.

All locations that previously have been defined by %UGII\_ROOT\_DIR% are now moved to either %UGII\_BASE\_DIR%\nxbin or %UGII\_BASE\_DIR%\ugii depending on its purpose.

If you have scripts or environment variables that still rely on the UGII\_ROOT\_DIR, please refer in this version to one of the 2 new locations mentioned above here.

---

### ADDED SUPPORT FOR ROLLOUT OF CENTRALLY DEFINED COLUMN CONFIGURATION FOR THE ANT (ASSEMBLY NAVIGATION TOOL)

It is now possible to deploy a centrally configured ANT column configuration.

Once deployed, backup file(s) of the current settings are created in the

%UGII\_USER\_PROFILE\_DIR%\%NX\_CUSTOM\_VERSION%\_ANT\_COLUMNS\_BACKUP folder, so the ANT will not be reset the next time on startup.

The ANT configuration is stored for Native and Managed configurations.

---

### ADDED SUPPORT FOR ROLLOUT OF CENTRALLY DEFINED COLUMN CONFIGURATION FOR THE PNT (PART NAVIGATION TOOL)

It is now possible to deploy a centrally configured PNT column configuration.

Once deployed, backup file(s) of the current settings are created in the

%UGII\_USER\_PROFILE\_DIR%\%NX\_CUSTOM\_VERSION%\_PNT\_COLUMNS\_BACKUP folder, so the PNT will not be reset the next time on startup.

---

### ADDED SUPPORT FOR ROLLOUT OF CENTRALLY DEFINED COLUMN CONFIGURATION FOR THE ONT (OPERATION NAVIGATION TOOL)

It is now possible to deploy a centrally configured ONT column configuration.

Once deployed, backup file(s) of the current settings are created in the

%UGII\_USER\_PROFILE\_DIR%\%NX\_CUSTOM\_VERSION%\_ONT\_COLUMNS\_BACKUP folder, so the ONT will not be reset the next time on startup.

The ONT configuration is stored for all 4 (Program, Tool, Geometry and Method) views.

---

### ADDED A NEW MORE PREFERRED METHOD OF CONFIGURING THE FILE NEW TABS.

The old File New Template configuration completely replaced the OOTB configuration.

The newly preferred configuration only needs files to add or replace OOTB templates.

Updates to OOTB pax files during updates will automatically flow into your configuration

See the "README Templates.txt" file in the NX110custom\NX110library\Templates folder for more details.

---

#### REMOVED OOTB VISUALREPORTING FILES

Since there was no customization in the Supplied Visual Reporting folder, this has been removed.

In the Readme it shows how the Visual reporting can be setup if it is required.

---

#### ADDED CMMRESOURCE TO THE CONFIGURATON

On request, the CMM inspection resource (CMMresource) folder has been added to the configuration.

See the "README CMMresource.txt" file in the NX110custom\NX110library\CMMresource folder for more details.