

Simcenter 3D 2019.1 series update

Welcome to Simcenter 3D

December 2019

Dear Customer:

We are proud to release the latest Maintenance Software Fix, Simcenter 3D 2019.1 v1867.5000, of our product development solution. With this release, we continue to provide innovative ways to deliver solutions that meet the next generation of your product design, development, and simulation challenges. The new version of Simcenter 3D is robust and powerful, and it delivers advanced technologies for product design, development, and simulation in a single, multidisciplinary platform. It preserves best-in-class customer deployment readiness and builds on the productivity and stability achievements of the previous release.

Sincerely,

Your Simcenter 3D Release Team

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NOTICES

Simcenter 3D Automatic Update

Automatic updates will not be available for releases on Simcenter 3D 2019.1 Series after Simcenter 3D 2019.1-1867, including Simcenter 3D 2019.1-1867.5000. Users who are on 2019.1-1867 with automatic update option turned on will be notified to download and install the Simcenter 3D 2020.1 release. If any release on the Simcenter 3D 2019.1 Series is preferred, users must download the release from the GTAC Download Server.

Enhancements (ER) in Maintenance Software Fix Releases

No enhancements are included in Maintenance Software Fix Releases (any release on the Simcenter 3D 2019.1 Series following Simcenter 3D 2019.1-1867).

SIMCENTER 3D 2019.1-1867.5000

2019.1-1867.5000 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
NXMANAGER	11
CAM	9
DRAFTING	8
TC_FEATURES	6
ASSEMBLIES	5
KDA	5
PMI	4
ROUTING_GENERAL	4
DESIGN	3
CORRUPTED_PARTS	1
TRANSLATOR	1
ANIMATION_DES	1
GATEWAY	1
Grand Total	59

For a cumulative list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

SIMCENTER 3D 2019.1-1867.4740

2019.1-1867.4740 PROBLEM REPORTS (PR)

Please see the table below for the PR updates included in this release.

PR Number	Description	Application	Function	Sub_Function
8429780	CGM is not created when saving parts in NX + TC Integ	DRAFTING	FILE_OPS	CGM_DRAWING
9478287	View NX1847 ugpert in TC cannot find CGM DATA	DRAFTING	FILE_OPS	CGM_DRAWING
9506858	CGM Data are not saved in the PRT file from NX1863	DRAFTING	FILE_OPS	CGM_DRAWING
9558040	CGM view shows previous version	DRAFTING	FILE_OPS	CGM_DRAWING
9626353	Saving Drawing fails to generate the CGM data	DRAFTING	FILE_OPS	CGM_DRAWING

For a cumulative list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

SIMCENTER 3D 2019.1-1867.4720

2019.1-1867.4720 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

PR Number	Description	Application	Function	Sub_Function
9512158	PTS part remains work part after added to assembly, making it an assembly	KDA	REUSE_LIBRARY	ADD_REUSE_COMP

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

SIMCENTER 3D 2019.1-1867.4701

2019.1-1867.4701 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
DRAFTING	11
ROUTING_GENERAL	9
ASSEMBLIES	8
CAM	7
NXMANAGER	4
TRANSLATOR	3
KDA	3
TC_FEATURES	2
SYSENG	2
DESIGN	2
NX_SHEET_METAL	2
SIMCENTER	1
GATEWAY	1
Total	55

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

SIMCENTER 3D 2019.1-1867.4400

2019.1-1867.4400 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
ASSEMBLIES	3
SIMCENTER	2
CAM	8
DESIGN	1
DRAFTING	6
GATEWAY	1
KDA	4
NXMANAGER	3
ROUTING_ELEC	1
ROUTING_MECH	1
SYSENG	3
TRANSLATOR	7
Total	40

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

SIMCENTER 3D 2019.1-1867.4100

2019.1-1867.4100 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
ASSEMBLIES	8
ROUTING_GENERAL	5
DRAFTING	3
PMI	1
NXMANAGER	1
Total	18

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

SIMCENTER 3D 2019.1-1867

2019.1-1867 UPDATES

Simcenter 3D Automatic Update

Automatic updates will be available for the Simcenter 3D 2019.1-1867 release and onwards.

2019.1-1867 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
ASSEMBLIES	2
SIMCENTER 3D	3
CAM	9
CMM_INSPECTION	1
DESIGN	2
GATEWAY	3
NX_SHEET_METAL	10
NXMANAGER	3
PMI	3
ROUTING_ELEC	1
ROUTING_GENERAL	1
SHIP_DESIGN	4
TC_FEATURES	1
TRANSLATOR	2
Total	45

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

2019.1-1867 ENHANCEMENT REPORTS (ER)

No ERs were included in this update.

Routing PLMXML Export/Import

Version 1, April 5, 2019

Introduction

We have added the capabilities to explicitly export/import Routing electrical connector/connection data to/from various datasets under an Item Revision in Teamcenter. The dataset type, the dataset relation, and named reference type are all configurable via the Routing electrical preferences in the appview file.

In previous versions of NX, it was only possible to export Routing electrical connector/connection data to a dataset named "Routing Electrical Data" under an Item Revision as it was being saved. Also, it was only possible to import the Routing electrical connection/connection data from this pre-defined dataset named if it had been saved with the Item Revision.

Configuration

The user can configure the dataset type and dataset relation to the item revision through the "Electrical_Preferences" section of the electrical appview file, like in the example below:

```
<PLMXML_DATASET_TYPE>  
    NX Routing  
</PLMXML_DATASET_TYPE>
```

Similarly, the relation that the dataset has with the item revision is specified like:

```
<PLMXML_DATASET_RELATION>  
    IMAN_manifestation  
</PLMXML_DATASET_RELATION>
```

And the named reference type can be specified as:

```
<PLMXML_NAMED_REFERENCE_TYPE>  
    NXRoutPlmXml  
</ PLMXML_NAMED_REFERENCE_TYPE >
```

From NX1872 onward, the existing functionality to automatically export PLMXML on save will use the above settings as well, though the name of the dataset and named reference will remain as is.

Command Location

The commands to export/import the connection/connector data to/from an Item Revision will be available under the existing commands available from the Component Navigator and Connection Navigator

1. RMB->"Export to PDM"
2. RMB->"Import from PDM"

Currently, "Export to PDM" is only available if there is at least one component in the component navigator or at least one connection in the connection navigator. It will be greyed out on the RMB menu options on the Connection/Component Navigators if there is no data to export.

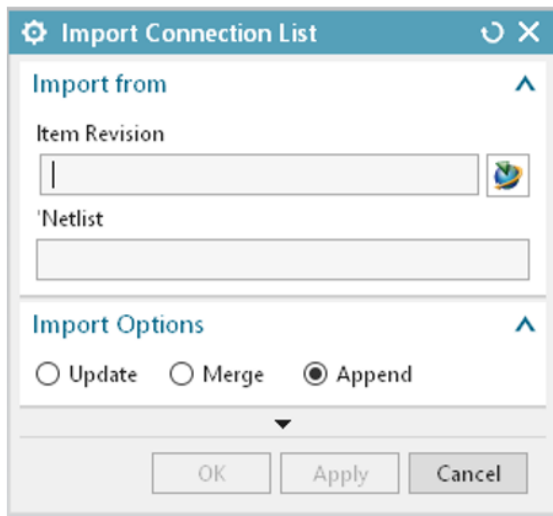
It will also be available from the main menu:

- Tools -> Connection List -> Import from PDM System
- Tools -> Connection List -> Export to PDM System
- Tools -> Component List -> Import from PDM System
- Tools -> Component List -> Export to PDM System

If invoked from the Connection List or Component List menus on the main menu toolbar, it will never be greyed out, but a warning dialog will popup stating "Routing: Part file contains no electrical data" and it will then immediately exit the command.

Usage

When the "Import from PDM" command is invoked, the following dialog appears:



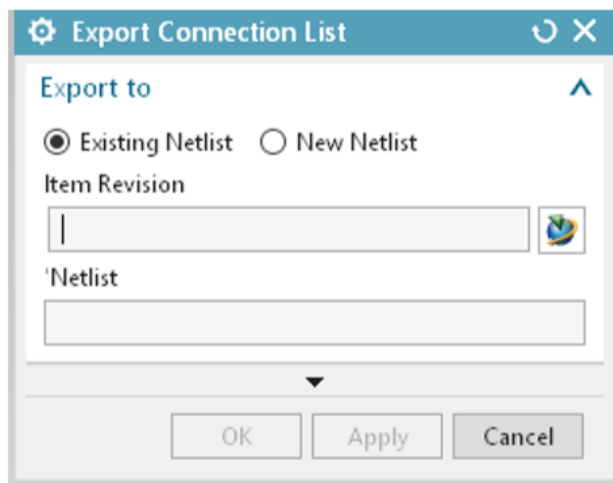
Within this dialog, you specify the inputs to import a PLMXML file with connection/connector data into the current NX routing session. The inputs are:

1. The dataset and its associated item/revision in Teamcenter from which the data is being imported from
2. The import mode, Update/Merge/Append.

The import mode behavior is as follows:

- **Append:** adds all the connections and/or connectors imported to the existing set of connections and/or connectors in the session. It creates new connectors and/or connections for each connector and/or connection imported.
- **Merge:** maps any imported connections and/or connectors imported to the existing set of connections and/or connectors in the session. This option will create any connections and/or connectors that don't exist in the session and map the imported connectors and/or connections to either existing connectors and/or connections or the newly created one.
- **Update:** overwrites any matching connections and/or connectors in the session with the imported connections and/or connectors that match. It will create any connections and/or connectors that don't exist in the session as needed.

When the “Export to PDM” command is invoked, the following dialog appears:



Within this dialog, you specify the inputs to export a PLMXML file with connection/connector data into the dataset of an item/revision in Teamcenter. The inputs are:

1. If you are overwriting and “Existing Netlist” dataset or creating a “New Netlist” dataset on the item/revision to be exported to
2. The item/revision to create the dataset on OR to overwrite an existing dataset for
3. The name of the new dataset to create on the item/revision OR the name of the existing dataset on the item/revision to overwrite

Reverting to Old Behavior

If the user desires to maintain the old behavior under the existing commands, the user needs to set the environment variable “UGII_ROUTING_OLD_PDM_EXCHANGE=1”. With this environmental variable set, the above-mentioned commands will take their old forms, and the new commands will be named “Export PLMXML to Teamcenter” and “Import PLMXML from Teamcenter”.

SIMCENTER 3D 2019.1-1863

2019.1-1863 UPDATES

Simcenter 3D Automatic Update

Automatic updates will be available for the Simcenter 3D 2019.1-1863 release and onwards.

2019.1-1863 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
ASSEMBLIES	10
SIMCENTER 3D	9
CAM	9
SYSENG	6
KDA	5
DRAFTING	5
ROUTING_GENERAL	4
ADD_FIXED_PLANE	4
DESIGN	3
NXMANAGER	3
SIMCENTER NASTRAN	2
SHIP_DESIGN	1
CORRUPTED_PARTS	1
DMU	1
Total	63

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

2019.1-1863 ENHANCEMENT REPORTS (ER)

No ERs were included in this update.

SIMCENTER 3D 2019.1-1859

2019.1-1859 UPDATES

Simcenter 3D Automatic Update

The issue where the Simcenter 3D Automatic Update feature did not have Simcenter 3D 2019.1-1855 available for download is addressed in Simcenter 3D 2019.1-1859. Automatic updates will be available for the Simcenter 3D 2019.1-1863 release and onwards.

Teamcenter

The issue where the Associate to NX and Disassociate from NX buttons are not available in the Active Workspace web client in NX is addressed in NX 1859. When NX is integrated with Teamcenter 11.6, the Associate to NX and Disassociate from NX buttons are available in the Active Workspace web client in NX by setting the PLE_AnalysisRequest_CopyAttribute preference in Teamcenter.

2019.1-1859 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
SYSENG	11
CAM	9
ASSEMBLIES	8
NXMANAGER	6
ROUTING_GENERAL	6
SIMCENTER 3D	4
DESIGN	3
MECHATRONICS	2
GATEWAY	2
KDA	1
NX_SHEET_METAL	1
DRAFTING	1
CMM_INSPECTION	1
ROUTING_ELEC	1
Total	56

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

2019.1-1859 ENHANCEMENT REPORTS (ER)

No ERs were included in this update.

SIMCENTER 3D 2019.1-1855

2019.1-1855 UPDATES

2019.1-1855 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
CAM	20
DESIGN	7
ROUTING_ELEC	4
ROUTING_GENERAL	3
ROUTING_MECH	2
SIMCENTER 3D	2
ASSEMBLIES	2
STUDIO_DESIGN	1
SYSENG	1
DRAFTING	1
Total	43

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included with the release documents.

2019.1-1855 ENHANCEMENT REPORTS (ER)

No ERs were included in this update.

SIMCENTER 3D 2019.1-1851

2019.1-1851 UPDATES

SFB-SIMCENTER-8007912

The issue where NXGateway.exe was falsely flagged by a few virus checkers in Simcenter 3D 2019.1 is addressed in Simcenter 3D 2019.1-1851.

The fix addresses the issue with the virus checker and also renames the utility to Siemens Cloud Connector Service (SccS.exe). After you download the Simcenter 3D 2019-1851, the Simcenter 3D MSI installer will remove the old executable and replace it with the new executable.

SFB-SIMCENTER-8007977

NX File->Open and File->Import of Catia V5 files (*.CATProduct and *.CATPart) will contain no geometry if the Current directory (as seen in the system log file) is a read-only directory. The recommended temporary work around is to set the environment variable SCA_TMP_DIR to a writable directory prior to starting Simcenter 3D.

2019.1-1851 PROBLEM REPORTS (PR)

Please see the table below for a summary of the PR updates included in this release.

Application	Count of PR Number
NX_SHEET_METAL	9
DESIGN	8
CAM	7
SYSENG	5
MFG_LINE_DESIG	4
ASSEMBLIES	4
CLASSIFICATION	3
ROUTING_GENERAL	3
CAE	3
ROUTING_ELEC	2
NXMANAGER	2
CMM_INSPECTION	2
GATEWAY	2
KDA	1
ADV_SHEET_METAL	1
DRAFTING	1
Total	57

For a detailed list of PR fixes, see Fixed_Problem_Reports.csv included in the release documents.

2019.1-1851 ENHANCEMENT REPORTS (ER)

Please see below for a list of enhancements included in this release.

ER

- 8395265 - Fixed Unfolded Length Type for Resize Bend Radius changes geometry of the part

2019.1 SERIES PRS WITH SOFTWARE FIELD BULLITEN (SFB) ADDRESSED

PR	Short Description	SFB	Fixed Version
8394502	Incorrect bolt force and moment results in Simcenter Nastran SOL 401	SFB-NX_NASTRAN-8007761	v1859
8398783	Symmetry option for PCOMP not correct in SOL 402	SFB-NX_NASTRAN-8007889	v1859
8401732	Incorrect loads used in SOL 402 if model only has preload subcases	SFB-NX_NASTRAN-8007891	v1859
8551170	NX Nastran 12 outputs incomplete op2	SFB-NX_NASTRAN-8007892	v1859
8555240	Invalid Nastran deck when using Magnitude/Phase input to a Table Field	SFB-SIMCENTER-8007764	v1851
9364444	Incorrect SPC Forces for SOL 401 Cyclic Symmetry Solutions	SFB-NX_NASTRAN-8008274	v1859
9371180	Incorrect Bolt Preload in SOL 401 and 101 for ETYPE 2	SFB-NX_NASTRAN-8009128	v1859
9330459	Crash Caused by Ply Sketcher Graphical Display Memory Issue	SFB-SIMCENTER-8007536	v1851
8405847	Corruption of Assembly FEM (.afm) and Simulation (.sim) files in Simcenter 3D 2019.1	SFB-SIMCENTER-8008249	v1855
9388953	Incorrect Contact Tangential Contact Stiffness in SOL 401	SFB-NX_NASTRAN-8008769	v1859

SIMCENTER CUSTOMER SUPPORT

Installation assistance

For additional installation assistance, or to report any problems, contact the Simcenter Customer Support.

Website:

<http://support.industrysoftware.automation.siemens.com/gtac.shtml>