



# SPINFIRE CONVERT

Powered by Theorem Technology

## User Guide CADDs <> NX

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## Contents

<b>Overview of SpinFire Convert .....</b>	<b>3</b>
<i>About SpinFire Convert.....</i>	<i>3</i>
<b>The CADD5 &lt;&gt; NX Translator.....</b>	<b>5</b>
<i>Primary Product Features.....</i>	<i>5</i>
<i>Primary Product Benefits.....</i>	<i>6</i>
<b>Getting Started.....</b>	<b>7</b>
<i>Documentation &amp; Installation Media.....</i>	<i>7</i>
<i>Installation.....</i>	<i>7</i>
<i>License Configuration.....</i>	<i>7</i>
<i>Using the Product.....</i>	<i>7</i>
<b>Using the Product.....</b>	<b>8</b>
<i>Default Translations.....</i>	<i>8</i>
Default Translation – via the Unified Interface .....	8
Default Translation – via the Command Line .....	9
<b>Translator Customization .....</b>	<b>10</b>
<i>Common Options for CADD5 to NX.....</i>	<i>10</i>
CADD5 Read Arguments .....	10
NX Write Arguments .....	11
CADD5 - NX Entity Masking Arguments .....	12
CADD5 - NX General Arguments .....	13
<i>Common Options for NX to CADD5.....</i>	<i>14</i>
NX Read Arguments.....	14
CADD5 Write Arguments.....	15
NX - CADD5 Entity Masking Arguments .....	16
NX - CADD5 General Arguments .....	17
<i>CADD5 to NX Arguments List.....</i>	<i>18</i>
CADD5 Read Arguments .....	18
NX Write Arguments .....	19
<b>NX to CADD5 Advanced Arguments .....</b>	<b>19</b>
<i>NX Read Arguments.....</i>	<i>19</i>

## Overview of SpinFire Convert

### About SpinFire Convert



**SpinFire Convert** is a world leader in the field of Engineering Data Services and Solutions. This leadership position stems from the quality of our technology and the people in the company. Quality comes not only from the skills and commitment of our staff, but also from the vigorous industrial use of our technology & services by world leading customers.

We are proud that the vast majority of the world's leading Automotive, Aerospace, Defense, Power Generation and Transportation companies and their Supply chains use our products and services daily. Working closely with our customers, to both fully understand their requirements and feed their input into our development processes has significantly contributed to our technology and industry knowledge.

SpinFire Convert has strong relationships with the major CAD and PLM vendors, including Autodesk, Dassault Systemes, ICEM Technologies (a Dassault company), PTC, SolidWorks, Spatial Technology and Siemens PLM Software. These relationships enable us to deliver best-in-class services and solutions to engineering companies worldwide.

## CAD PROCESSING PRODUCTS



*Automatically Process and Publish Inbound CAD files (Formerly CAD Publisher)*

- [Documentation](#)
- [Knowledge Base](#)
- [Archived Documentation](#)



*Seamless data exchange between CAD and Visualization (Formerly Theorem CADTranslate & CADPublish)*

- [Documentation](#)
- [Knowledge Base](#)
- [Archived Documentation](#)

## CAD VIEWING PRODUCTS



*Comprehensive interrogation of 2D and 3D CAD Files (Formerly Spinfire Ultimate)*

- [Documentation](#)
- [Knowledge Base](#)
- [Archived Documentation](#)



- [Documentation](#)
- [Knowledge Base](#)
- [Archived Documentation](#)

## The CADD5 <> NX Translator

The CADD5 - NX translator may be installed on a number of machines each accessing a central network-floating license.

The CADD5 - NX Translator is a bi-directional converter between the PTC's CADD5 5 CAD Application and Siemens Designcenter NX 2512 CAD Application.

It enables the user to convert all forms of 3D Mechanical Design Geometry and Assembly data, together with system defined attribute information, colour information, between these two systems.

The translator can be invoked in either an interactive or batch mode with the command line interface allowing the conversion process to be integrated into any process-oriented operation. Alternatively, from SpinFire Convert version 18.0 the conversion process may be operated by using the new Unified Interface.

### Primary Product Features

- Converts all types of geometry, wire frame, surfaces, trimmed surfaces (faces) and solid models.
- Converts assembly structure between both systems.
- Converts attribute data including colour and layer information.
- Integrated with the NX installation.
- The conversion process can be run Interactively, Batch Mode or using the Unified Interface
- Command line interface allows process integration.
- Data can be filtered by layer and entity type during processing. Geometry can be filtered and selectively processed.

## Primary Product Benefits

- Being a direct database converter all pre and post processing is eliminated, saving time.
- Reduce costs due to processing time and increase overall conversion success levels by filtering input data and focusing the conversion to only those elements required.
- Reduce costs and risks associated to accessing the wrong version of data by integrating the conversion process into a related business process.
- With over 30 years of industrial use SpinFire Convert (formally Theorem) translation products robustness and quality is well proven, reducing your business risk.

This document will focus specifically on guidance for the use of the Spinfire Convert for CADD5 – NX product. For information regarding any SpinFire Convert product ranges please contact: [sales-spinfire.applications@techsoft3d.com](mailto:sales-spinfire.applications@techsoft3d.com)

## Getting Started

### Documentation & Installation Media

The latest copy of the User Guide documentation can be found on our web site at:  
<https://docs.techsoft3d.com/spinfire/convert/index.html>

Each product has a specific link that provides user documentation in the form of PDF and Tutorials.

The latest copy of SpinFire Convert software can be found via the link above and by searching for the specific product. Each product has a specific link to the Product Release Document, which contains a link to the download location of the installation CD.

Alternatively, you can request a copy of the software to be shipped on a physical CD.

### Installation

The installation is run from the .msi file download provided. For full details of the installation process, visit <https://docs.techsoft3d.com/spinfire/convert/index.html> and select UI from the product selection list.

### License Configuration

To run any product a valid license file is required. The Flex License Manager is run from the .msi file download provided. For full details of the installation process, visit <https://docs.techsoft3d.com/spinfire/convert/index.html>

### Using the Product

To use the product, follow the documented steps found in this document or follow the online video tutorials which can be found from <https://docs.techsoft3d.com/spinfire/convert/index.html>

## Using the Product

### Default Translations

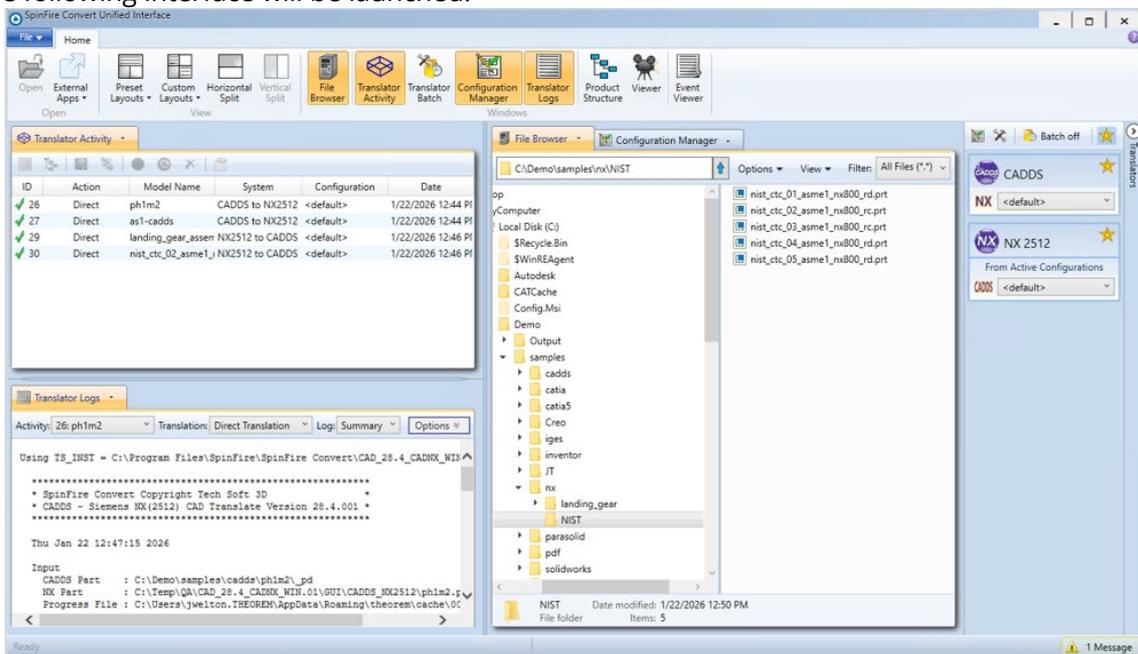
#### Default Translation – via the Unified Interface

The Unified Interface can be started via the Start Menu – if a shortcut was added during installation.

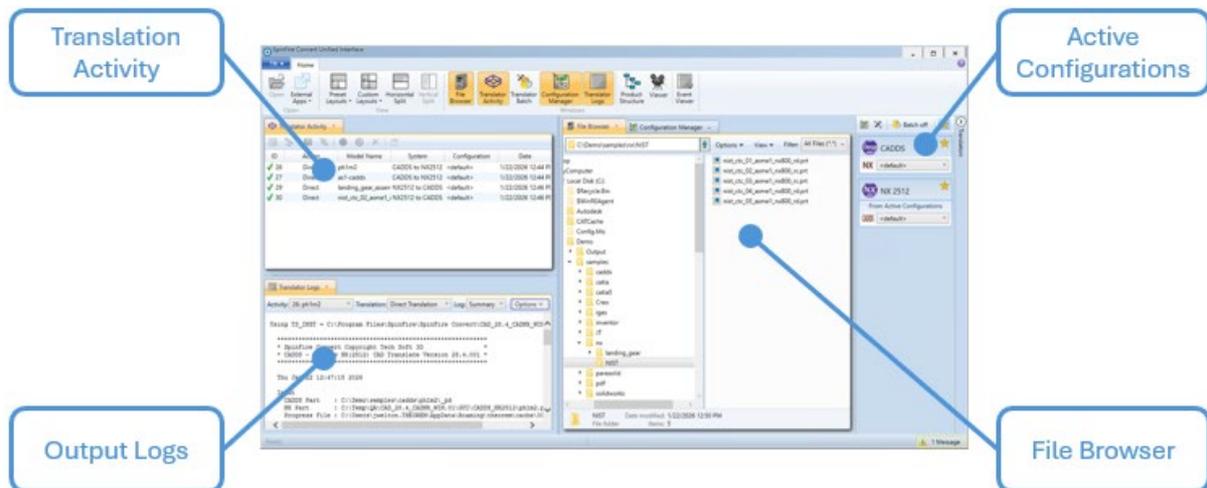
Alternatively, the Unified Interface can be run via a Windows Explorer selection in:

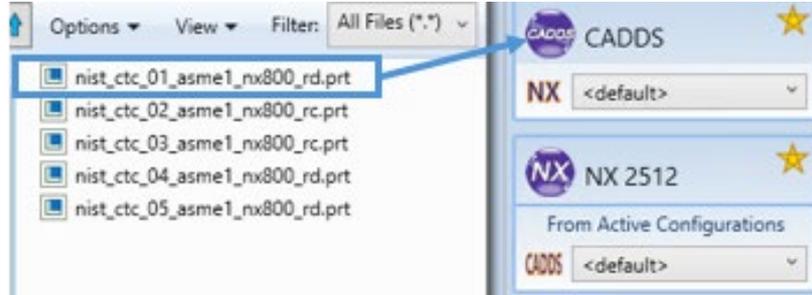
**<UI\_installation\_directory>\bin\Unified\_Interface.cmd**

The following interface will be launched:



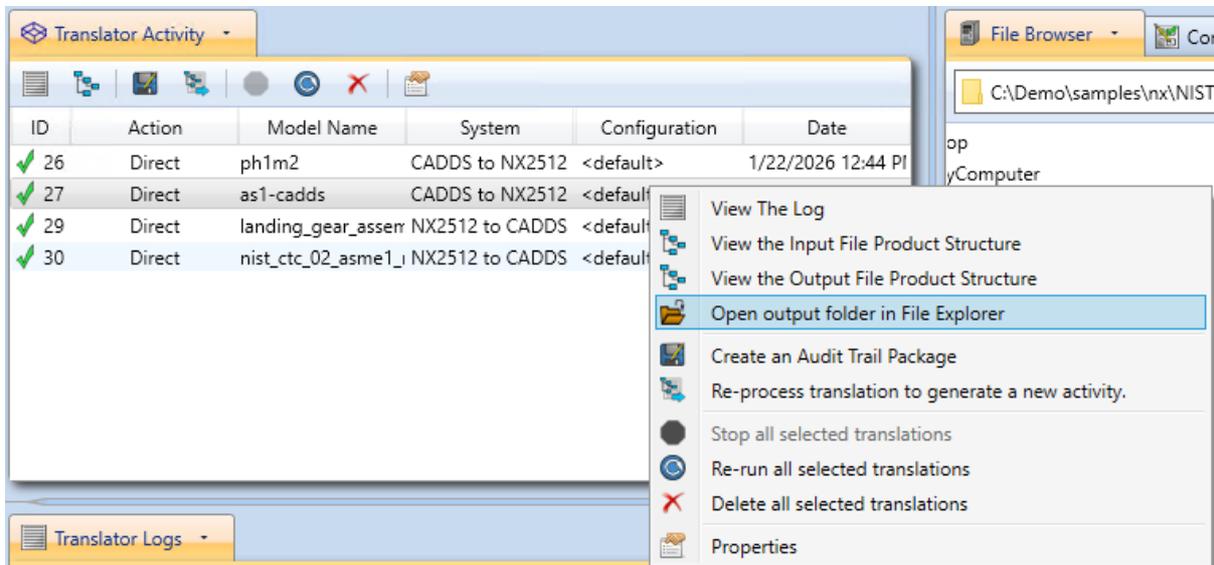
The default layout is split into 4 primary areas, which can be altered to the users prefer: The simplest way to translate from CADDs or NX is to drag a file from the file Browser Pane on to the Active Configurations for the translation you require.





On completion, the Unified Interface will display the activity information and details from the log file created during the translation, if requested, in the Translation Activity and Output Log panes, respectively.

The generated output data can be located by selecting the translation from the Activity pane and opening the output folder:



### Default Translation – via the Command Line

Running a translation via the command line can be carried out via the **cad\_run.cmd** file located in the **<installation\_directory>\bin** directory. The format of the command is as follows when translating from CADD5 to NX:

```
<Translator_installation_directory>\bin\cad_run.cmd CADD5_NX2512 -i <input_file> -o
<output_file> progress_file "<Path_to_progress_log\>.txt"
```

The format of the command is as follows when translating from NX to CADD5:

```
<Translator_installation_directory>\bin\cad_run.cmd NX2512_CADD5 -i <input_file> -o
<output_file> search_path "<parts_dir1>";"<Parts_dir2>" progress_file
"<Path_to_progress_log\>.txt"
```

## Translator Customization

SpinFire Convert allows the information that is read from the source system and written to the target system to be tailored via a set of user specified arguments. Commonly used arguments are supported via the Unified Interface, with Advanced Arguments being described within this document for use in the Unified Interface or via the Command Line invocation.

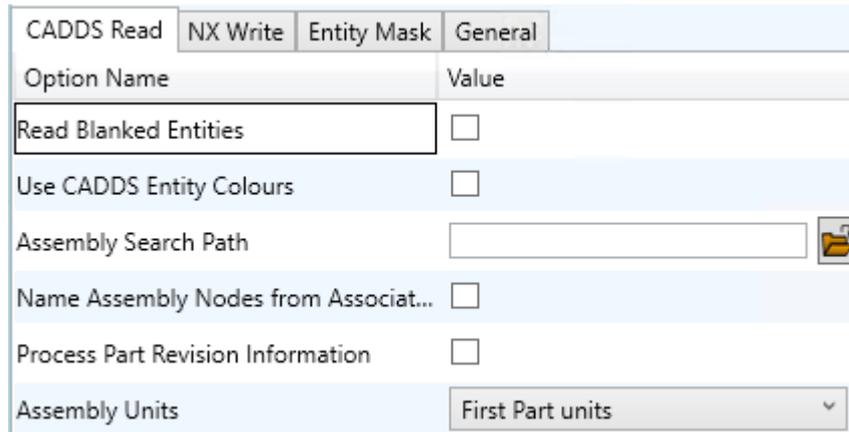
### Common Options for CADD5 to NX

Within the Configuration Manager pane of the Unified Interface, arguments that can be specified when publishing CADD5 data into NX are grouped into 4 areas:

- CADD5 Read – Those arguments that affect how data is read from CADD5
- NX Write – Those arguments that affect how the data is written to NX
- Entity Mask – Those arguments that allow specific read entities to be masked
- General – Those arguments that are common to ALL Publishing activities regardless of source data.

#### *CADD5 Read Arguments*

The image below shows the CADD5 Read arguments that are available, with their default settings:



Option Name	Value
Read Blanked Entities	<input type="checkbox"/>
Use CADD5 Entity Colours	<input type="checkbox"/>
Assembly Search Path	<input type="text"/> 
Name Assembly Nodes from Associat...	<input type="checkbox"/>
Process Part Revision Information	<input type="checkbox"/>
Assembly Units	First Part units 

Each of these options is described below:

Option	Description
<b>Read Blanked Entities</b>	Read Blanked Entities/Files (Default is off). <ul style="list-style-type: none"> <li>• Command Line Syntax: <ul style="list-style-type: none"> <li>○ on_blank</li> </ul> </li> </ul>
<b>Use CADD5 Entity Colours</b>	Use CADD5 Entity Colours instead of Part colours (Default is off). <ul style="list-style-type: none"> <li>• Command Line Syntax:</li> </ul>

	<ul style="list-style-type: none"> <li>○ ecol</li> </ul>
<b>Assembly Search Path</b>	Defines the locations of assembly components. <ul style="list-style-type: none"> <li>• Command Line Syntax:                         <ul style="list-style-type: none"> <li>○ search_path &lt;path1&gt;;&lt;path2&gt;</li> </ul> </li> </ul>
<b>Name Assembly Nodes from Associated Geometry File</b>	Name Assembly Nodes from Associated Geometry File. <ul style="list-style-type: none"> <li>• Command Line Syntax:                         <ul style="list-style-type: none"> <li>○ mapitem</li> </ul> </li> </ul>
<b>Process Part Revision Information</b>	For assemblies only (Default is off). <ul style="list-style-type: none"> <li>• Command Line Syntax:                         <ul style="list-style-type: none"> <li>○ read_rev</li> </ul> </li> </ul>
<b>Assembly Units</b>	Specify the Units when reading an assembly (Default setting will use first part units). <ul style="list-style-type: none"> <li>• Command Line Syntax:                         <ul style="list-style-type: none"> <li>○ assy_units mm</li> <li>○ assy_units inch</li> </ul> </li> </ul>

### NX Write Arguments

The image below shows the Write NX arguments that are available, with their default settings:

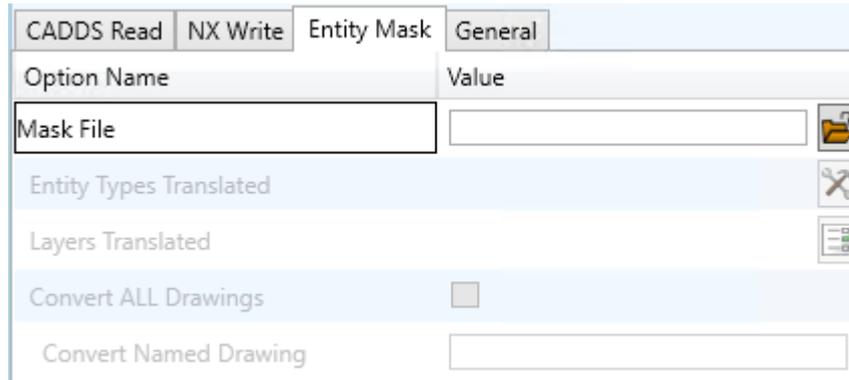
Option Name	Value
Delete Existing Sub-parts	<input type="checkbox"/>
Concatenate Assembly Name	<input type="checkbox"/>
Produce Tessellated Output	<input type="checkbox"/>

Each of these options is described below:

Option	Description
<b>Delete Existing Sub-parts</b>	Delete existing sub-parts. <ul style="list-style-type: none"> <li>• Command Line Syntax                         <ul style="list-style-type: none"> <li>○ delete_parts (to enable, default is off)</li> </ul> </li> </ul>
<b>Concatenate Assembly Name</b>	Concatenate Assembly Name TO Output Filename. <ul style="list-style-type: none"> <li>• Command Line Syntax                         <ul style="list-style-type: none"> <li>○ concat_assy (to enable, default is off)</li> </ul> </li> </ul>
<b>Produce Tessellated Output</b>	Produce Tessellated NX file <ul style="list-style-type: none"> <li>• Command Line Syntax                         <ul style="list-style-type: none"> <li>○ tess_output (to enable, default is off)</li> </ul> </li> </ul>

### CADD5 - NX Entity Masking Arguments

The image below shows the Masking arguments that are available, with their default settings:



Each of these options is described below:

Option	Description
<b>Mask File</b>	Specifies the Mask File to be written to, that can be referenced by future translations. A Mask file MUST be specified if masking is required. The first line in this file is OFF ALL ENT: <ul style="list-style-type: none"> <li>Command Line Syntax:                             <ul style="list-style-type: none"> <li>Mask &lt;path\filename&gt;</li> </ul> </li> </ul>
<b>Entity Types Translated</b>	Specifies a selection list from which to select which entity types are to be processed. The following types are available: POI, LIN, ARC, CON, CUR, SUR, FAC, SOL <ul style="list-style-type: none"> <li>Mask File Syntax:                             <ul style="list-style-type: none"> <li>Add any of the above to the specified mask file, one entry per line prefixed by the word ON, e.g. ON POI to ensure they are considered in the translation</li> </ul> </li> </ul>
<b>Layers Translated</b>	Select layers to translate. <ul style="list-style-type: none"> <li>Mask File Syntax:                             <ul style="list-style-type: none"> <li>A single entry of ON ALL LAY must precede any Layer Mask command.</li> <li>Add a list or range of numbers representing layer to be processed to the specified mask file to ensure they are NOT considered in the translation e.g. OFF LAY 114,149,166,167,168</li> </ul> </li> </ul>
<b>Convert ALL Drawings</b>	Convert All Drawings. <ul style="list-style-type: none"> <li>Command Line Syntax:                             <ul style="list-style-type: none"> <li>draft</li> </ul> </li> </ul>
<b>Convert Named Drawing</b>	Convert Drawing by Name.

	<ul style="list-style-type: none"> <li>• Mask File Syntax:                             <ul style="list-style-type: none"> <li>○ ON DRA &lt;name&gt;</li> </ul> </li> </ul>
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### CADDs - NX General Arguments

The image below shows the General arguments that are available, with their default settings.

Option Name	Value
Mass Properties	<input type="checkbox"/>
Drawings	<input type="checkbox"/>
Out-of-range Layers	Map To Layer
Layer Number	256
Retain Assembly Structure	<input checked="" type="checkbox"/>
Advanced	

Each of these options is described below:

Option	Description
<b>Mass Properties</b>	Allows Mass Property information to be read from the source data and written as attributes ( <i>Default is OFF</i> ) <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ mprops</li> </ul> </li> </ul>
<b>Drawings</b>	Translate All Drawings ( <i>Default is off</i> ) <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ draft</li> </ul> </li> </ul>
<b>Out-of-range Layers</b>	Maintain the assembly structure during translation. ( <i>Default is ON</i> ) <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ base_layer &lt;int&gt;</li> <li>○ cycle_layer</li> </ul> </li> </ul>
<b>Retain Assembly Structure</b>	Maintain the assembly structure during translation. ( <i>Default is ON</i> ) <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ offditto – to turn off</li> </ul> </li> </ul>
<b>Advanced</b>	Allows any of the Command Line Advanced arguments documented to be passed to the Unified Interface invocation.

## Common Options for NX to CADD5

Within the Configuration Manager pane of the Unified Interface, arguments that can be specified when publishing NX data into CADD5 are grouped into 4 areas:

- NX Read – Those arguments that affect how the data is written to NX
- CADD5 Write – Those arguments that affect how data is read from CADD5
- Entity Mask – Those arguments that allow specific read entities to be masked
- General – Those arguments that are common to ALL Publishing activities regardless of source data.

### *NX Read Arguments*

The image below shows the CADD5 Read arguments that are available, with their default settings:

Option Name	Value
Reference Set	<input checked="" type="checkbox"/>
Read Attributes	<input type="checkbox"/>
Read NX names	<input type="checkbox"/>
Colour Processing	Derive Instance Colour

Each of these options is described below:

Option	Description
<b>Reference Set</b>	Enabled reference set processing. <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ ref_set (enabled – Default)</li> <li>○ no_ref_set</li> </ul> </li> </ul>
<b>Read Attributes</b>	Read NX detail user attributes. <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ read_attr</li> </ul> </li> </ul>
<b>Read NX names</b>	Read NX entity names, if they exist. <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ read_name</li> <li>○ no_read_name (disabled – Default)</li> </ul> </li> </ul>

<b>Colour Processing</b>	How to process colour. <ul style="list-style-type: none"> <li>• Command Line Syntax:                         <ul style="list-style-type: none"> <li>○ derive_instance_colour</li> <li>○ use_body_colour</li> <li>○ use_instance_colour</li> </ul> </li> </ul>
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### CADD5 Write Arguments

The image below shows the Write NX arguments that are available, with their default settings:

Option Name	Value
Part Format	CADD5 4X
Part Precision	Double
Geometry Type	NURBS
Simplify Geometry Tolerance	
Explode	<input type="checkbox"/>
Overwrite	<input type="checkbox"/>
Concatenate Name	<input type="checkbox"/>

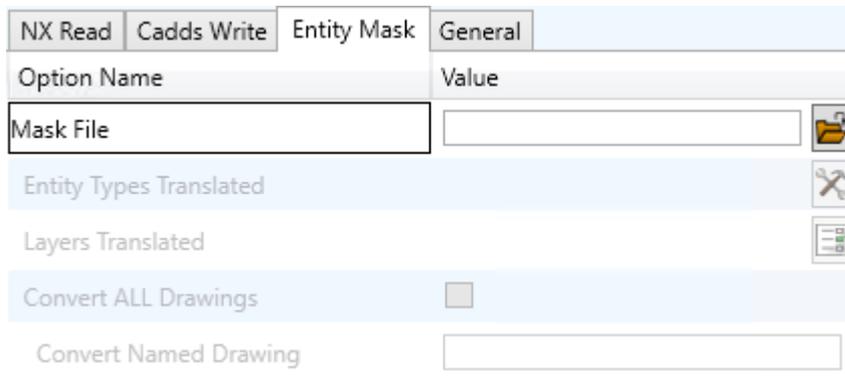
Each of these options is described below:

Option	Description
<b>Part Format</b>	Specifies the format of the output (Default is CADD5 4X). <ul style="list-style-type: none"> <li>• Command Line Syntax                             <ul style="list-style-type: none"> <li>○ CADD55</li> </ul> </li> </ul>
<b>Part Precision</b>	Specifies the precision when writing CADD5 4 format (Default is Double). <ul style="list-style-type: none"> <li>• Command Line Syntax                             <ul style="list-style-type: none"> <li>○ single</li> </ul> </li> </ul>
<b>Geometry Type</b>	Defines the geometry type ( <i>Default is NURBS</i> ). <ul style="list-style-type: none"> <li>• Command Line Syntax                             <ul style="list-style-type: none"> <li>○ asd</li> </ul> </li> </ul>
<b>Simplify Geometry Tolerance</b>	Simplify the geometry (e.g. 0.001 in input part units). <ul style="list-style-type: none"> <li>• Command Line Syntax                             <ul style="list-style-type: none"> <li>○ c4simplify</li> </ul> </li> </ul>
<b>Explode</b>	Explode Solids to Faces (Default is off). <ul style="list-style-type: none"> <li>• Command Line Syntax</li> </ul>

	<ul style="list-style-type: none"> <li>○ split_brep_faces</li> </ul>
<b>Overwrite</b>	<p>Overwrite Existing Parts.</p> <ul style="list-style-type: none"> <li>• Command Line Syntax <ul style="list-style-type: none"> <li>○ overwrite</li> <li>○ no_overwrite (Default)</li> </ul> </li> </ul>
<b>Concatenate Name</b>	<p>Concatenate Assembly Name.</p> <ul style="list-style-type: none"> <li>• Command Line Syntax <ul style="list-style-type: none"> <li>○ concat_assy</li> <li>○ no_concat_assy (Default)</li> </ul> </li> </ul>

### NX - CADD5 Entity Masking Arguments

The image below shows the Masking arguments that are available, with their default settings:



Each of these options is described below:

Option	Description
<b>Mask File</b>	<p>Specifies the Mask File to be written to, that can be referenced by future translations. A Mask file MUST be specified if masking is required. The first line in this file is OFF ALL ENT:</p> <ul style="list-style-type: none"> <li>• Command Line Syntax: <ul style="list-style-type: none"> <li>○ Mask &lt;path\filename&gt;</li> </ul> </li> </ul>
<b>Entity Types Translated</b>	<p>Specifies a selection list from which to select which entity types are to be processed. The following types are available: POI, LIN, ARC, CON, CUR, SUR, FAC, SOL</p> <ul style="list-style-type: none"> <li>• Mask File Syntax: <ul style="list-style-type: none"> <li>○ Add any of the above to the specified mask file, one entry per line prefixed by the word ON, e.g. ON POI to ensure they are considered in the translation</li> </ul> </li> </ul>

<b>Layers Translated</b>	Select layers to translate. <ul style="list-style-type: none"> <li>Mask File Syntax:                         <ul style="list-style-type: none"> <li>A single entry of ON ALL LAY must precede any Layer Mask command.</li> <li>Add a list or range of numbers representing layer to be processed to the specified mask file to ensure they are NOT considered in the translation e.g. OFF LAY 114,149,166,167,168</li> </ul> </li> </ul>
<b>Convert ALL Drawings</b>	Convert All Drawings. <ul style="list-style-type: none"> <li>Command Line Syntax:                         <ul style="list-style-type: none"> <li>draft</li> </ul> </li> </ul>
<b>Convert Named Drawing</b>	Convert Drawing by Name. <ul style="list-style-type: none"> <li>Mask File Syntax:                         <ul style="list-style-type: none"> <li>ON DRA &lt;name&gt;</li> </ul> </li> </ul>

### NX - CADDs General Arguments

The image below shows the General arguments that are available, with their default settings.

NX Read	Cadd's Write	Entity Mask	General
Option Name	Value		
Mass Properties	<input type="checkbox"/>		
Drawings	<input type="checkbox"/>		
Out-of-range Layers	Map To Layer		
Layer Number	256		
Retain Assembly Structure	<input checked="" type="checkbox"/>		
Advanced			

Each of these options is described below:

Option	Description
<b>Mass Properties</b>	Allows Mass Property information to be read from the source data and written as attributes ( <i>Default is OFF</i> ) <ul style="list-style-type: none"> <li>Command Line Syntax:                         <ul style="list-style-type: none"> <li>mprops</li> </ul> </li> </ul>
<b>Drawings</b>	Translate All Drawings ( <i>Default is off</i> ) <ul style="list-style-type: none"> <li>Command Line Syntax:                         <ul style="list-style-type: none"> <li>draft</li> </ul> </li> </ul>
<b>Out-of-range Layers</b>	Maintain the assembly structure during translation. ( <i>Default is ON</i> )

	<ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ base_layer &lt;int&gt;</li> <li>○ cycle_layer</li> </ul> </li> </ul>
<b>Retain Assembly Structure</b>	Maintain the assembly structure during translation. <i>(Default is ON)</i> <ul style="list-style-type: none"> <li>• Command Line Syntax:                             <ul style="list-style-type: none"> <li>○ offditto – to turn off</li> </ul> </li> </ul>
<b>Advanced</b>	Allows any of the Command Line Advanced arguments documented to be passed to the Unified Interface invocation.

## CADD5 to NX Arguments List

### *CADD5 Read Arguments*

Each of these options is described below.

Option	Description
Maintain Blanked Entities	Read blanked entities and maintain their show/hid state Default is OFF <ul style="list-style-type: none"> <li>• Command Line Syntax</li> <li>• maintain_blancked</li> </ul>
Use CADD5 Entity Colours	Use CADD5 entity colours rather than part colours <ul style="list-style-type: none"> <li>• Command Line Syntax:</li> <li>• ecol</li> </ul>
Assembly Search Path	Specify the search paths that contain assembly parts <ul style="list-style-type: none"> <li>• Command Line Syntax:</li> <li>• SEARCH_PATH "PATH1;PATH 2;PATH3"</li> </ul> OR SEARCH_PATH <Filename> Where the file contains per line the paths to search i.e. PATH1 PATH2 PATH3
Name Assembly Nodes from Associated Geometry File	<ul style="list-style-type: none"> <li>• Command Line Syntax: Default is OFF</li> <li>• mapitem</li> </ul>
Process Part Revision Information	Read assembly revision info from _ps file <ul style="list-style-type: none"> <li>• Command Line Syntax:</li> <li>• read_rev</li> </ul>
Assembly Units	Specify the units when reading an assembly <ul style="list-style-type: none"> <li>• Command Line Syntax:</li> <li>• assy_units &lt;mm/inch&gt;</li> </ul>

### NX Write Arguments

CMD LINE Option	Purpose	Data Type	Default
<b>poly_sol/no_poly_sol</b>	For gco Fsolids produce Facetted bodies (else attempt brep)	Flag	off
<b>heal_ug &lt;tol&gt; [def tol = 0.0095/units]</b>	attempt a UG heal on the created body (if nocheck on)	Flag	off
<b>keep_all_bodies/no_keep_all_bodies</b>	If input solid gets created as a solid after sewing, plus one or more tiny sheet bodies, keep or delete these	Flag	on (keep all)
<b>nocheck</b>	Don't check created Parasolid geometric entities	Flag	off
<b>no_brep_prep</b>	Prepare solids switched off	Flag	on (surfs read as nurbs+prep)
<b>pstolmodel &lt;num&gt;/nopstolmodel [def num = 3]</b>	Enable Parasolid tolerant modeling	Flag	on
<b>pssew &lt;tol&gt;/nosew</b>	Sew failed breps and opensols	Flag	on
<b>csg_prep &lt;tol&gt; [def tol = 0.000001*scale]</b>	Prepare CSG Primitives	Flag	off
<b>csg_shift &lt;tol&gt; [def tol = 0.000001*scale]</b>	Change CSG Shift Distance	Flag	off
<b>csgfix</b>	Fix CSG Primitives	Flag	off
<b>ps_fix_small/no_fix_ps_small</b>	Remove small edges, sliver and spike faces in breps	Flag	off
<b>ps_fix_osol/no_ps_fix_osol</b>	Remove small edges, sliver and spike faces in opensolids	Flag	off

## NX to CADDs Advanced Arguments

### NX Read Arguments

CMD LINE Option	Purpose	Data Type	Default
<b>read_name</b> <b>no_read_name</b>	Read UG entity names (if they exist)	Flag	off
<b>part_layer</b>	Process As Saved part layers, else All	Flag	ALL
<b>read_pmi</b>	Read PMI as stroked data	Flag	off

<b>noprep/prepsol</b>	Prepare solids switched off / on	Flag	on (surfs read as nurbs+prep)
<b>rd_native_edge/no_read_native_edge</b>	Read native edge curves	Flag	off (read as nurbs curves)
<b>trim_face_surfs/no_trim_face_surfs</b>	Trim surface to face	Flag	off (don't trim)
<b>ugdiags</b>	Switch on validate read to progress file	Flag	off
<b>read_diags</b>	Switch on read diagnostics to progress file	Flag	off
<b>no_mergen</b>	No Parasolid merging of entities	Flag	on (merge)
<b>checksol/nochecksol</b>	Check Parasolid entities before read	Flag	off (don't check)
<b>noprep/prepsol</b>	Prepare solids switched off / on	Flag	on (surfs read as nurbs+prep)
<b>mprops</b>	Read Mass Props	Flag	off
<b>draft</b>	Process 2D drawings	Flag	off