

# **ANARK NX ADAPTER**

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# SUPPORTED FEATURES WITHIN THE ANARK NX ADAPTER

Anark Advanced MBD CAD Adapa Last Date Validated:	9/26/2024		
File Types Supported:	.prt		
rite Types Supporteu.	.рп		
Multi-CAD Supported Features	<u> </u>		_\
Category			Notes
Product Geometry	Part Geometry	YES	
Product Geometry	Part Bodies	YES	
CAD Entity Color	Part Body Color (color per body)	YES	
CAD Entity Color	Part color	YES	
CAD Entity Color	Part Face color	YES	
CAD Entity Color	Assembly Occurrence face color (set at assembly level)	NO	
			- NX Specific: Assembly occurrence part color partially supported
CAD Entity Color	Assembly Occurrence part color (set at assembly level)	PARTIAL	when using "Synchronize Subassembly Properties -> Display"
CAD Entity Color	Component Transparency/Opacity	NO	
CAD Entity Color	GDT Color	YES	
CAD Entity Color	Supplemental Geometry Color	PARTIAL	ANARK DOESN'T IMPORT DATUM PLANE COLOR
Product Metadata	Product Attributes (Custom Parameters, File Properties, etc)	YES	
Product Metadata	Semantic Attributes for GD&T	YES	
Supplemental Geometry	Datum Planes	YES	
Supplemental Geometry	Fixed Size Datum Planes	YES	
Supplemental Geometry	Axis Systems	YES	
Supplemental Geometry	Fixed Size Axis Systems	YES	
Supplemental Geometry	Dashed lines: axes, witness lines, etc	PARTIAL	
Supplemental Geometry	Supp Geometry Surfaces	YES	
GD&T	Flat to screen notes	YES	
GD&T	Graphical GD&T (3D dimensions, tolerances, notes, tables, weld symbols, etc.	YES	
GD&T	GD&T->Part Associations	YES	
GD&T	GD&T->Occurrence Associations	YES	
GD&T	GD&T->Face Associations	YES	
GD&T	GD&T->Occurrence Face Associations	YES	
GD&T	GD&T->FEATURE CONTROL FRAMEGTOL Datum Reference Associations	YES	Implicit associations; user not required to define in CAD
GD&T	GD&T->Datum Associations	YES	implicit associations, user not required to define in OAD
GD&T	GD&T->Supp Geometry Associations	YES	
GD&T	GD&T->Supple Geometry Associations  GD&T->Edge Associations	YES	
Views	Views	YES	
Views	Entity visibility; ability to hide/show various entities in a view or capture	YES	
Views	View Placement (ie. Exploded)	YES	
/iews	Views with Folded and Flat Patterns (Supporting Sheet Metal)	NO YES	
/iews	Views with Complex Sections		
/iews	View-Specific Bodies	YES	
Cross Sections	Cross Sections: Single Plane	YES	
Cross Sections	Cross Sections: 2 Plane (NX + JT Only)	YES	
Cross Sections	Cross Sections: Box (NX + JT Only)	YES	
Cross Sections	Cross Sections: Selective Sections	NO	
NX/JT Specific Supported Feature		l .me	
NX	Apply Reference Sets to All Assembly Levels	YES	
NX	Import Scope, Tables and Legacy PMI	YES	
NX	Import Scope, Layers	YES	
NX	Import Scope, Reference Sets	YES	
NX	Import Scope, Section Views	NO	
NX	Merge Bodies	YES	
NX	Cross Section Specifics	YES	
mport / Output and Other Option			
Anark Collaborate	Importable to Anark Collaborate without Desktop publishing	NO	
Output Option	GD& T Show On Top	NO	
mport Options	Level Of Detail Settings	YES	
	Import Scope, GD&T	NO	
mport Options		VEO	
Import Options Import Options	Import Scope, Supplemental Geometry	YES	
mport Options	Import Scope, Supplemental Geometry Import Scope. Attributes	YES	
mport Options mport Options	Import Scope. Attributes		
mport Options		YES	



#### SUPPORTED FEATURES WITHIN THE ANARK JT ADAPTER Anark Advanced MBD CAD Adapater Feature Support for JT Files 9/26/2024 Last Date Validated: File Types Supported: .jt Multi-CAD Supported Features Category ▼ Feature Name **▼** Notes Supported Product Geometry Part Geometry Product Geometry Part Bodies CAD Entity Color Part Body Color (color per body) CAD Entity Color Part color CAD Entity Color Part Face color CAD Entity Color Assembly Occurrence face color (set at assembly level) - JT Specific: Assembly occurrence part color partially supported CAD Entity Color Assembly Occurrence part color (set at assembly level) PARTIAL when using "Synchronize Subassembly Properties -> Display" CAD Entity Color Component Transparency/Opacity CAD Entity Color GDT Color ANARK DOESN'T IMPORT DATUM PLANE COLOR Supplemental Geometry Color PARTIAL CAD Entity Color Product Metadata Product Attributes (Custom Parameters, File Properties, etc) Product Metadata Semantic Attributes for GD&T Datum Planes Supplemental Geometry Supplemental Geometry Fixed Size Datum Planes Supplemental Geometry Axis Systems Supplemental Geometry Fixed Size Axis Systems Supplemental Geometry Dashed lines: axes, witness lines, etc Supplemental Geometry Supp Geometry Surfaces Flat to screen notes GD&T Graphical GD&T (3D dimensions, tolerances, notes, tables, weld symbols, et VES GD&T GD&T->Part Associations GD&T GD&T->Occurrence Associations GD&T GD&T->Face Associations GD&T GD&T->Occurrence Face Associations GD&T GD&T->FEATURE CONTROL FRAMEGTOL Datum Reference Associations Implicit associations; user not required to define in CAD GD&T GD&T->Datum Associations GD&T GD&T->Supp Geometry Associations GD&T GD&T->Edge Associations Views Views Views Entity visibility; ability to hide/show various entities in a view or capture Views View Placement (ie. Exploded) Views with Folded and Flat Patterns (Supporting Sheet Metal) Views Views with Complex Sections Views View-Specific Bodies Cross Sections Cross Sections: Single Plane Cross Sections: 2 Plane (NX + JT Only) Cross Sections Cross Sections: Box (NX + JT Only) Cross Sections Cross Sections Cross Sections: Selective Sections NX/JT Spec NX Brep/precise or lightweight import options Import / Output and Other Option Anark Collaborate Importable to Anark Collaborate without Desktop publishing Output Option GD& T Show On Top Import Options Level Of Detail Settings Import Options Import Scope, GD&T Import Scope, Supplemental Geometry Import Options Ignore "Suppressed" Entities Import Options Combine Disjoint Bodies

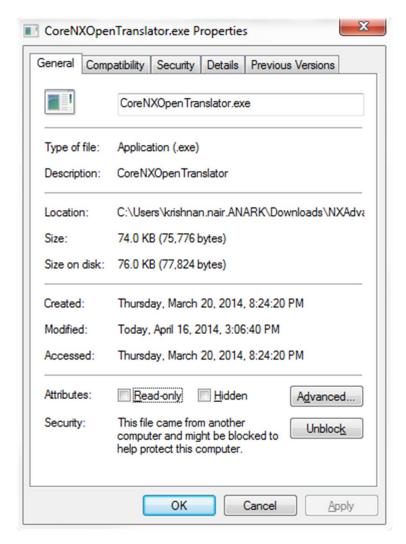


## **SECURITY**

After **CoreNXOpenTranslator.exe** is extracted from the zip file, right click on the file, select Properties, and check whether there is a security warning ("This file came from another computer and might be blocked to help protect this computer") as shown below. If there is a warning, click on the "Unblock" button.

This must be done at most once for each file and then the exe files can be copied to different machines.

If you do not perform this step, a translator which is built on .NET will not run as a full trust application and the import will fail. The warning is created by the built-in Windows zip extractor tool, so this might not be an issue if you use another tool to extract the zip file.





### **ANARK WORKSTATION INSTRUCTIONS**

The Anark NX Adapter for Anark Workstation uses the NX Open API to translate NX files. Therefore, a working version of NX from one of the following released series: NX2206 Series (NX2206.9220), NX2212 Series (NX2212.9140), NX2306 Series(NX2306.8900), NX2312 Series(NX2306.7022), NX2406 (NX2406.6000), NX2412 (NX2412.1700) must be installed on the same machine as Anark Workstation to use the adapter. Also, NX Open libraries require .NET Framework 4.7.2 (if it is not installed on the computer, it can be obtained from the Microsoft download center https://www.microsoft.com/en-us/download/details.aspx?id=49981).

For the NX2306 Series, we do not recommend using versions earlier than NX2306.7002.

NX license features that are required to run the Anark NX Adapter include:

- "gateway"
- "solid modeling"
- "geometic\_tol"
- "assemblies"

To install the Anark NX Adapter for Anark Workstation:

- 1. Copy the file CoreNXOpenTranslator.exe to the folder where Anark Workstation is installed.
- 2. This step is required the first time that the Anark NX Adapter is installed, and it is not necessary to perform this step when upgrading. If the file, NXAdvancedFormat.dll.config, does not already exist in the [Anark Workstation installation path]\Formats folder, copy it from the ZIP into the [\*]\Formats folder.
- 3. Verify that "NXBaseDirectory" in the file, NXAdvancedFormat.dll.config (XML file) -- (which is located in the [Anark Workstation installation path]\Formats folder), is set to the appropriate installed Version of NX ( by default, it is set to:

  C:\Program Files\Siemens\NX2206).

If NX is installed in a different folder, or if a different version of NX is installed, modify the value element in the XML file to represent the appropriate installed location/Version of NX:

4. To load the NX file, select the "NX Advanced MBD" format from Import file dialog before loading the file.



### **ANARK PUBLISH INSTRUCTIONS**

The Anark NX Adapter for Anark Publish uses the NX Open API to translate NX files.

A working version of NX from one of the following released series NX2206 Series (NX2206.9220), NX2212 Series (NX2212.9140), NX2306 Series(NX2306.8900), NX2312 Series(NX2306.7022), NX2406 (NX2406.6000), NX2412 (NX2412.1700) must be installed on the same machine as Anark Workstation to use the adapter. Also, NX Open libraries require .NET Framework 4.7.2 (if it is not installed on the computer, it can be obtained from the Microsoft download center https://www.microsoft.com/en-us/download/details.aspx?id=49981).

For the NX2306 Series, we do not recommend using versions earlier than NX2306.7002.

NX license features that are required to run the Anark NX Adapter include:

- "gateway"
- "solid\_modeling"
- "geometic\_tol"
- "assemblies"

To install the Anark NX Adapter for Anark Publish:

- 1. Copy the file **CoreNXOpenTranslator** to the folder **[Anark Publish installation path]\CadTransformerWebInterface\bin\**.
- 2. This step is required the first time that the Anark NX Adapter is installed, and it is not necessary to perform this step when upgrading. If the file, NXAdvancedFormat.dll.config, does not already exist in the [Anark Publish installation path]\CadTransformerWebInterface\bin\Formats folder, copy it from the ZIP to the [\*]\CadTransformerWebInterface\bin\Formats folder.
- Verify that "NXBaseDirectory" in the file, NXAdvancedFormat.dll.config (XML file) (located in [Anark Publish installation path]\CadTransformerWebInterface\bin\Formats folder), is set to the appropriate installed Version of NX ( by default, it is set to:
   C:\Program Files\Siemens\NX 1980 ).

If NX is installed in a different folder, or if a different version of NX is installed, modify the value element in the XML file to represent the appropriate installed location/Version of NX:

