

CADverter for CATIA V5 - CADDS

Product Release Version 22.1



USER GUIDE

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Overview of CADverter

About Theorem

Theorem Solutions 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.

Theorem Solutions is an independent UK headquartered company incorporated in 1990, with sales and support offices in the UK and USA. Theorem 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.

What is CADverter?

CADverter is one of 5 core Theorem brands which consist of:



CADverter

Direct translation of 3D data to or from an alternate CAD, Visualization or Standards Based format



Multi-CAD

Interactive integration of non-native 3D data formats into the native CAD system



Visualize 3D

Direct translation of 3D data for the purpose of Visualization







Publish 3D

The creation of documents enriched with 3D content



Process Automation

Applications to automate any Data Exchange and collaboration processes

The CATIA V5 Bi-directional CADDS Translator

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

Theorem's CADverter product for CATIA V5 to CADDS is a direct database converter between Dassault Systemes CATIA V5 and PTC's CADDS. It enables the user to convert all forms of mechanical design geometry, as well as assembly and attribute information, between these two systems.

The CATIA V5-CADDS CADverter product can be purchased as a uni-directional, CATIA V5 to CADDS, or CADDS to CATIA V5 product, or as a bi-directional product. It can be used in a batch mode, from a standard GUI Interface, offering combined viewing, data filtering and translation capabilities.

The CADverter directly accesses native CATIA V5 parts and assemblies using the Dassault Systemes supported programming interface. Assembly structure details and geometry colour information is retained during translation.

Primary Product Features

- Converts all types of geometry, wire frame, surfaces, trimmed surfaces (faces) and solid models
- Converts assembly structure between the systems
- Converts attribute data including colour and layer information
- The conversion process can be run in Batch mode
- Data can be filtered by layer and entity type
- Geometry can be filtered and selectively processed

Primary Product benefits?

• Direct conversion between CATIA V5 and CADDS reduces processing time, simplifies integration and retains accuracy of the model







- The integrated viewing capability enables visually verification, pre and post translation
- The integrated data filtering options allows selected data ONLY to be processed, enabling optimisation of translations and time savings
- By converting all forms of geometry no data is lost, eliminating the time required to recreate missing data
- With over 20 years industrial use Theorem's product robustness and quality is well proven, reducing your business risk

This document will focus specifically on guidance for the use of the CADverter for CATIA V5 – CADDS product. For information regarding any of Theorem's product ranges please contact <u>sales@theorem.com</u>





Getting Started

Documentation

The latest copy of this documentation can be found on our web site at:

http://www.theorem.com/Documentation

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

Installation Media The latest copy of Theorem software can be found via our web site at:

http://www.theorem.com/Product-Release-Notes

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 CD or ZIP file download provided.

Currently, there are 2 distinct installation stages that are required.



To install the translator, select the *Setup.exe* file and follow the installation process. For a full guide to the process, please see our 'Translator Installation Process' demonstration video located <u>here</u>.



In addition, the Theorem Unified Interface will also need to be installed. The installation process is the same as for the Translator. For a full guide to the process, please see our 'Translator Installation Process' demonstration video located <u>here</u>.

License Configuration



In order for the translation to run successfully, the Theorem license file provided to you needs to be configured using FlexLM. For a full guide to this process, please see our 'FlexLM License Set Up and Configuration' demonstration video located <u>here</u>.





Running the Product

Once configured and licensed, the product is ready to be run.

Prior to running the product CATIA V5 must have been started at least once to allow CATIA V5 licenses to be accessed. All specific CATIA V5 environment configuration details are documented in <u>Appendix A</u> of this document.

There are 2 distinct ways of running the translator:

• Via the Theorem Unified Interface



The Unified Interface offers a Desktop Environment that allows CAD and Visualization data to be viewed pre and post translation

Via the Command Line



The Command Line Interface provides a direct method of invoking the translator. It can be used via a DOS shell or called via a third party application as part of a wider process requirement.





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 CATIA V5 or CADDS is to drag a file from the file Browser Pane on to the Active Configurations for the translation you require.

					1	🐔 📄 Batch off	
sai	mples\catia5\NIST	Options 🕶	View 👻 Filter:	All Files (*.*) 🗸	CADDS	CADDS	*
^	Name	Size Type	Date Modified		Erc	m Active Configurat	ions
	mist_ctc_01_asme1_ct5210_rd.CATPart	KB CA	14/06/2016 17:00				
	mist_ctc_02_asme1_ct5210_rc.CATPart	NB CA	14/06/2016 17:00		V5	CATIA V5R25	
	inist_ctc_03_asme1_ct5210_rc.CATPart	KB CA'	14/06/2016 17:00			<default></default>	~
	inist_ctc_04_asme1_ct5210_rd.CATPart	KB CA'	14/06/2016 17:00				_
	inist_ctc_05_asme1_ct5210_rd.CATPart	KB CA'	14/06/2016 17:00		V5	CATIA V5R22	*
	NIST_MBE_Model_Disclaimer.txt	KB Tex	14/06/2016 17:00	·	Fre	m Active Configurat	ions
					0000	delauit>	
					V5	CATIA V5R24	*
					Fre	m Active Configurat	ions
Ì				I	CADDS	<default></default>	~

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 CATIA V5 to CADDS:

<Translator_installation_directory>\bin\cad_run.cmd CATIA5[XX]_CADDS <input_file> <output_file>





The format of the command is as follows when translating from CADDS to CATIA5:

<Translator_installation_directory>\bin\cad_run.cmd CADDS_CATIA5[XX] <input_file> <output_file>

(Note! Replace the [XX] seen in the example with the version of CATIA V5 you are using. E.g. for CATIA V5 R28, change to CATIA528):

CP1.	Command Prompt	-		×
C:\>C:\Theorem\CAD_19.3_CADCA5 CAD_19.3_CADCA5_WIN.01\samples :\Cadverter-output\nist_ctc_01	_WIN.01\bin\cad_run.cmd CATIA525_CADD \catia5\NIST\nist_ctc_01_asme1_ct5210 _asme1_ct5210_rd_	S C:∖T. _rd.CA	heor TPar	•em∖∧ •t C

The example above will translate a CATIA V5 sample file provided within the installation and produce the following screen output:

CAV.	Co	ommand Prompt	_ 🗆 🗙	
C:\Users\martin>C:\Theorem\CAD_19.3_CADCA5_UIN.01\bin\cad_run.cmd CATIA525_CADDS C:\Theorem\CAD_19.3_CADCA5_UIN.01\samples\catia5\NIS\nist_ctc_01_asme1_ct5210 ertem-output\nist_ctc_01_asme1_ct5210_rd_log Arming IS_INST_defined in general environment Marning CATIAU5R25_INST defined in general environment Sourcing Theorem Environment from :- C:\Theorem\CAD_19.3_CADCA5_WIN.01\bin\\ts_env.bat Stting IN_INST_defined in glacesal environment Jsing IS_INST_defined in general environment Surging IS_INST_defined from :- Using IS_INST_defined in JacStract, Strats Jsing IS_INST_defined in JacStrats Jsing IS_INST_SCACA5_WIN.01 Jsing CATIAU5_INST_CCACA_ADDS\CAULAS_UND.61 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.61 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.61 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.61 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.61 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.61 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.65 Using CATIAU5_INST_CCACA_ADDS\CAULAS_UND.65 Using CATIAU5_INST_CACACADS_UND.65 Using CATIAU5_INST_CACACADS_UND.65 USING CAULAS_UND.64 Launching Translation please wait				
**************************************	Solutions Lim Verter Version	**************************************		
Wed Jul 27 15:23:27 2	2016			
Input CATIA5 Document : C:\Theorem\CAD_19.3_ _rd.CATPart GADDS Part : (Progress File : (Input CAIIA5 Document : CYIA5 Document : C*XIA60rem*CAD_19.3_CADCA5_VIN.01\samples\catia5\NIST\nist_ctc_01_asme1_ct5210 _rd:CAIF2mat_ctc_01_asme1_ct5210_rd CADDS Part : C*\Caduerter=output\nist_ctc_01_asme1_ct5210_rd Progress File : C*\Caduerter=output\nist_ctc_01_asme1_ct5210_rd			
CATIA US Library Ver. : 19.3.001 GATIA VS Build Release: B25.SP0 64 U4 option license available SCAN option license Available CATIA US Cache Mode . Disabled				
CATIA US Env Name : TheoremCatia5R25 CATIA US Env Dir : C:\Users\martin\AppData\Roaming\DassaultSystemes\CATEn				
v CATIA V5 Saved Versio	on: V5R21 SP0	BD 04-14-2011.20.00		
List of gco entities	:-			
Type Total	Standalone	Subordinate		
Arcs108Lines284Curves22Surfaces14Cones4Cylinders53Planes80Faces151Edges414Vertices270Bsolids1	1	108 284 222 14 53 80 151 414 414 278		
* CADDS file success * CADDS file success * C:Sadverter-output **********************************	in memory	*********************************		

The file will be output to the target location. In this case: C:\\nist_ctc_01_asme1_ct5210_rd/_pd





CADverter Customization

CADverter 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 CATIA V5 to CADDS

Within the Configuration Manager pane of the Unified Interface, arguments that can be specified when publishing CATIA V5 data into CADDS are grouped into 4 areas:

- CATIA V5 Read Those arguments that affect how data is read from CATIA V5
- CADDS Write Those arguments that affect how the data is written to CADDS
- 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





CATIA V5 Read Arguments

The image below shows the CATIA V5 Read arguments that are available, with their default settings:

Description:	
CATIA V5 Read Cadds Write Entity Mask	General
Option Name	Value
Retain Assembly Structure	\checkmark
Read FTA Reference Geometry	\checkmark
Maintain CATIA V5 Instance Names	

Option	Description
Retain Assembly Structure	Enables Assembly Structure to be retain. Default is ON. Disabling this option will remove all assembly structure and collapse ALL geometry into a single selectable object o Command Line Syntax: • off_ditto – to turn off
Read FTA Reference Geometry	 Enables reading of FTA Reference Geometry (<i>Default is Off</i>) Command Line Syntax: read_geometry – to turn on
Maintain CATIA V5 Instance Names	<pre>Honours CATIA V5 Tools->Options->Infrastructure- >Product Structure->Nodes Customization panel settings (Default is Off) o Command Line Syntax: ditto_naming V5 - to turn on</pre>





CADDS Write Arguments

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

Description:		
CATIA V5Read Cadds Write Entity Mask General		
Option Name	Value	
Part Format	CADDS 4X	~
Part Precision	Double	~
Geometry Type	NURBS	~
Simplify Geometry Tolerance		
Explode		
Overwrite		
Concatenate Name		

Option	Description
Part Format	Defines the format of the output file to be cadds4x or cadds5 - Default is cadds4x O Command Line Syntax Cadds5
Part Precision	Specifies the output part to be written in single or double precision Default is double • Command Line Syntax • single
Geometry Type	 Defines whether NURBS or ASD geometry is written – default is NURBS o Command Line Syntax asd
Simplify Geometry Tolerance	Tolerance value for CADDS simplify of psurfs Default tol =0.001 in part units o Command Line Syntax • c4simplify <tol></tol>
Explode	Explode brep to faces Default off • Command Line Syntax • split_brep







Overwrite	Overwrite existing parts default=use existing parts o Command Line Syntax <i>no_overwrite – use existing parts</i> <i>overwrite – overwrite existing parts</i>
Concatenate Name	 concatenate top level assy name to all subcomponents default= no_concat_assy o Command Line Syntax concat_assy/no_concat_assy





CATIA V5 to CADDS Entity Masking Arguments

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

Description:	
CATIA V5Read Cadds Write Entity Mask General	
Option Name	Value
Mask File	
Entity Types Translated	×
Layers Translated	
Convert NO SHOW Geometry	
Convert NO SHOW Structure	
Convert NO SHOW PMI	

Option	Description	
Mask File	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: • Command Line Syntax: • Mask <filename></filename>	
Entity Types Translated	 Specifies a selection list from which to select which entity types are to be processed. The following types are available: "POI", "CUR", "SKI", "SOL", "ISO", "TEX", "AXI" Command Line Syntax: 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 	
Layers Translated	 Specifies a selection list from which to select which layers are to be processed. Command Line Syntax: A single entry of ON ALL LAY Must precede any Layer Mask command 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
Convert NO SHOW Geometry	Enables Hidden geometry to be processed (Default = Off) Command Line Syntax: Add the following entry to the Mask file ON NOSHOW
Convert NO SHOW Structure	Enables Hidden Assembly Structure to be processed (Default = Off) • Command Line Syntax: • Add the following entry to the Mask file ON NOSHOW STR
Convert NO SHOW PMI	Enables Hidden PMI to be processed (<i>Default = Off</i>) • Command Line Syntax: • Add the following entry to the Mask file • ON NOSHOW PMI





CATIA V5 to CADDS General Arguments

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

Description:		
CATIA V5Read Cadds Write Entity Mask General		
Option Name	Value	
Mass Properties		
Out-of-range Layers	Map To Layer 🗸	
Layer Number	256	
Advanced		

Each of these options is described below:

Description

Option

Mass PropertiesAllows Mass Property information to be read from the source data and written as attributes to the PDF document. Default is OFF.
Out-of-rangeHow to handle layers from the input system that are out-of-range inLayersthe output system. Default is 'Map To Layer'oCommand Line Syntax:
Layers the output system. Default is 'Map To Layer' O Command Line Syntax:
o Command Line Syntax:
 Map To Layer: Default
 Layer Modulus (Cycle): cycle_layer
Layer Number A secondary option used with Out-of-range Layers when 'Map To Layer' is selected. Allows the layer number to be specified. Default is 256. O Command Line Syntax:
■ base_layer 256
AdvancedAllows any of the Command Line Advanced arguments documentedbelow to be passed to the Unified Interface invocation





Common Options for CADDS to CATIA V5

Within the Configuration Manager pane of the Unified Interface, arguments that can be specified when publishing CATIA V5 data into CADDS are grouped into 4 areas:

- CADDS Read Those arguments that affect how data is read from CADDS
- CATIA V5 Write Those arguments that affect how the data is written to CATIA5
- 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

CADDS Read Arguments

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

Description: CADDS Read CATIA V5 Write Entity Mask General	
Option Name	Value
Maintain Blanked Entities	
Use CADDS Entity Colours	
Assembly Search Path	
Name Assembly Nodes from Associated Geometry File	
Process Part Revision Information	
Assembly Units	First Part units

Option	Description
Maintain Blanked Entities	Read blanked entities and maintain their show/hid state Default is OFF Command Line Syntax maintain_blanked
Use CADDS Entity Colours	 Use CADDS entity colours rather than part colours Command Line Syntax: ecol
Assembly Search Path	Specify the search paths that contain assembly parts
Name Assembly Nodes from Associated Geometry File	 Command Line Syntax: Default is OFF mapitem







Process Part Revison	Read assembly revision info from _ps file
Information	 Command Line Syntax:
	 read_rev
Assembly Units	Specify the units when reading an assembly
	 Command Line Syntax:
	assy_units <mm inch=""></mm>





CATIA V5 Write Arguments

The image below shows the CATIA V5 Write arguments that are available, with their default settings:

Description:	
CADDS Read CATIA V5 Write Entity Mask G	eneral
Option Name	Value
Output Geometry File Type	CATPart ~
Write Face Colours	
Show Reference Planes	
Retain Assembly Structure	\checkmark
Property Mapping File	

Option	Description
Output Geometry File Type	Output Geometry file type. Default is CATPart. Command Line Syntax CATPart: output_type CATPart Model: output_type model Cgr: output_type cgr Igs: output_type igs CATShape: output_type CATShape Tessellated: create_cgr
Write Face Colours	 Writes face colours. Default is ON. Command Line Syntax FACE_COLOUR SOLID_COLOUR – to turn off
Show Reference Planes	Creates reference planes. Default is OFF. Command Line Syntax • Show: <i>dont_blank_planes</i>
Retain Assembly Structure	Maintain assembly structure in derive output (Default is ON). Command Line Syntax o off_ditto
Property Mapping File	Assign a property mapping file Command Line Syntax o cad_prop_map_file [Path to file]





CADDS to CATIA V5 Entity Masking Arguments

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

Description: CADDS Read CATIA V5 Write Entity Mask General		
Option Name	Value	
Mask File	2	
Entity Types Translated	×	
Layers Translated		

Option	Description
Mask File	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: • Command Line Syntax: • Mask <filename></filename>
Entity Types Translated	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" • Command Line Syntax: • 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
Layers Translated	 Specifies a selection list from which to select which layers are to be processed. Command Line Syntax: A single entry of ON ALL LAY Must precede any Layer Mask command. 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





CADDS to CATIA V5 General Arguments

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

Description:	
CADDS Read CATIA V5 Write Entity Mask General	
Option Name	Value
Advanced	

The option is described below:

Option	Description
Advanced	Allows any of the Command Line Advanced arguments documented below to be passed to the Unified Interface invocation





Appendix A – CATIA V5 Configuration

Introduction

This Appendix details how to define and configure the CATIA V5 and Theorem environment to work together.

Conventions

Release of CATIA V5

To indicate a release of CATIA V5 the notation <XX> shall be used. This needs to be replaced with the specific release to be used i.e. 25, 26, 27, 28 or 29.

Platform specific directory

Within the installation directory of CATIA V5 there is a platform specific directory i.e. win_b64. This directory shall be referred to as *OSDS* in this Appendix.

Theorem Installation directory

The Theorem translator installation directory is set at installation time in the translator *ts_env.bat* file. This directory shall be noted as *<%TS_INST%>* in this Appendix.

CATIA V5 Installation Directory

Upon installation of a CATIA V5 product the user will be asked to specify the installation directory. This is the directory which contains the platform specific <OSDS> directory.

Having selected the CATIA V5 installation directory via the browse button, the installation process will record the location of the CATIA V5 installation directory in the ts_env.bat file. This file is located in the Theorem translator installation directory. If the location of CATIA V5 subsequently changes, the translator can be guided to the changed location by modifying this file using a text editor to modify the *ts_env.bat* that is located in the translator installation directory.

If no entry is included for DSLICENSING a warning dialog will be displayed which warns of the empty field. Selecting **Yes** to continue will allow the installation to continue.







Running CATIA V5 Translators

Before running the translator the user must run CATIA V5 interactively at least once to configure the CATIA V5 environment and license settings. This can be achieved by running the catia5r<XX>_start script as follows:

%TS_INST%\bin\catia5r<XX>_start.cmd

Once CATIA has been run the Translator can run as described in the relevant product User Guide.

CATIA V5 Environment DIRENV & ENV

The default location for CATIA V5 to store its global environment files is in the global directory:

Windows XP:

C:\Documents and Settings\All Users\Application Data\DassaultSystemes\CATEnv

Windows 7 & 8:

C:\ProgramData\DassaultSystemes\CATEnv

Or

%APPDATA%\CATEnv

You can find this location by running:

%CATIAV5_INST%\<OSDS>\code\bin\setcatenv -h

The environment files are named in the form CATIA.V5RN.B<XX>.txt

If when installing CATIA V5 the default environment file location was replaced with another location then this location needs to be indicated to the CADverter by defining in the *ts_env.bat* the environment variable CATIAV5_DIRENV:

set CATIAV5_DIRENV=/some/directory

If the Theorem installation is needed to support multiple releases of CATIA. Then the user can define release specific locations using:

set CATIAV5R<XX>_DIRENV=/some/directory

The Theorem translator will attempts to create its own environment file called *TheoremCatia5R<XX>.txt*. The user must therefore have write permission to the CATEnv directory. If this is not possible an existing environment file can be specified using the variable **CATIAV5_ENV**. e.g.

set CATIAV5_ENV=CATIA.V5R19.B19

Note. the extension **.txt** is not required. The user can specify a release specific name using **CATIAV5R<XX>_ENV** e.g.





set CATIAV5R19_ENV=CATIA.V5R19.B19

Checking the CATIA V5 Environment

A script is provided to check that the CATIA V5 environment is set up correctly. In a command window run the command script:

%TS_INST%\bin\checkcatia5r<XX>env.cmd

Checking the Theorem Shared Library

A script is provided to ensure that the CATIA V5 environment is compatible with the Theorem shared library. In a command window run the command script:

%TS_INST%\bin\checkcatia5r<XX>cadverter.cmd

A successful output is an indication that the location for CATIA V5 has been specified to the Theorem translator correctly and that the correct version of the Theorem CATIA V5 translator products have been installed.

