



## Dassault Systemes Highway for CATIA and CADD5 CCWAY - (CATIA V5R19 SP3) Version 2 Release 19 Modification Level 0

Dassault Systemes Highway for CATIA and CADD5 (CCWAY V2) offers a bi-directional interfacing environment between Dassault Systemes CATIA V5 and CADD5. The primary characteristic of CCWAY is direct access to CADD5 parts or Product Structure assemblies without using intermediate files like IGES, VDA, Set or STEP. Processing time is faster by reducing the number of steps in the translation process and by eliminating the intermediate files and temporary disk space. A CADD5 4X or 5 double precision part can be created from a CATIA 3D CATPart and read by CADD5, or, in the other direction, a CADD54X/5 part can be translated into a CATIA V5 CATPart. In the CADD5 to CATIA direction, all explicit and parametric 3D geometric and topological entities, including solids, are managed.

CCWAY can be configured to translate CADD5 library figures to CATParts when translating Nodal figure, Subfigure, and Subassembly instances in a CADD5 part. In this case, CCWAY will translate the CADD5 part to a CATPart and place the CATPart(s) created from the CADD5 figures in a new CATProduct document.

CCWAY translates CADD5 non-graphic properties into Knowledgeware features using the CADD5 prop file for decoding any properties defined by the customer. A CAA interface is provided to allow customers access to the CADD5 non-graphic properties during a translation. A sample implementation of the interface provided as source code with CCWAY creates CATIA Knowledgeware features from the non-graphic properties.

CCWAY translates CADD5 Product Structure assemblies directly into CATIA V5 CATProduct files. If a CADD5 part file does not exist for a node, but a CADD5 Graphic ASCII File (GAF) or Graphic Binary File (GBF) does, then CCWAY can translate GAF/GBF file into a CATIA Graphical Representation (CGR) file. In the other direction, CCWAY translates CATProduct files into CADD5 Product Structure assembly files. CCWAY will also translate any part files and subassemblies referenced by the base assembly, if required. For increased performance a single CATIA session is used for translating any parts and subassemblies.

CCWAY provides a batch utility for translating CADD5 GAF and GBF files into CATIA CGR files. The translator can be configured to create a single CGR file from the CADD5 graphics file or create CGR files for each object in the graphics file.

CCWAY extends the CATIA V5 logical file naming convention provided by DLNames to CADD5 files and CVPATHs.

CCWAY has two interfaces, batch and interactive. The interactive interface provides a CATIA V5 workbench that can be added to the CATIA Start menu, offering a user interface consistent with the interactive CATIA product. The batch interface allows direct access to the CCWAY translators using a shell or batch script.

The CCWAY CATIA workbench allows the user to perform an interactive analysis of CADD5 parts while running in a CATIA interactive environment. It is possible to analyze the CADD5 part and display the CADD5 geometrical data. For example, the user can

analyze the control points of a CADD5 curve for comparison with the resulting CATIA curve. CCWAY allows the user to check the quality of the converted data interactively.

CCWAY is offered on Windows® XP for 32-bit and 64-bit platforms, the AIX® operating system for the RS/6000® family of products, the Solaris operating system for the SUN™ platform and HP-UX operating system for the HP platform.

## Specified Operating Environment

### Hardware Requirements

#### Hardware Requirements in a Windows Environment

Any configuration certified with CATIA Version 5 R19 SP3 at General Availability dates and the following components which are required for program installation:

- CD-ROM drive
- Minimum of 25MB disk space

#### Hardware Requirements in an AIX Environment

Any configuration certified with CATIA Version 5 R19 SP3 at General Availability dates and the following components which are required for program installation:

- CD-ROM drive
- Minimum of 25MB disk space

#### Hardware Requirements in an HP-UX Environment

Any configuration certified with CATIA Version 5 R19 SP3 at General Availability dates and the following components which are required for program installation:

- CD-ROM drive
- Minimum of 25MB disk space

#### Hardware Requirements in an SUN Environment

Any configuration certified with CATIA Version 5 R19 SP3 at General Availability dates and the following components which are required for program installation:

- CD-ROM drive
- Minimum of 25MB disk space

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## Programming Requirements

### Common Software Requirements

CCWAY is designed to operate with CATIA Version 5, Release 19 Service Pack 3 in the respective environments and requires the same level of Operating System software and patches that this level of CATIA requires.

Minimum programming configurations are stated below for each platform.

### Microsoft Windows 32-bit Environment:

- Windows XP Professional SP2

### Microsoft Windows 64-bit Environment:

- Windows XP Professional x64 edition

### AIX 32-bit Environment:

- AIX 5.3 Maintenance Level 03 (using 64-bit kernel) with the following components:
  - XL C/C++ Enterprise Edition V8.0.0 Run-Time Environment
  - XL Fortran Enterprise Edition V10.1.0 for AIX Run-Time

### HP-UX Environment:

- HP 11iv1 (11.11) December 2004 with the following components and patches:
  - HP-UX Technical Computing OE (TCOE) Component, December 2004
  - Hardware Enablement Patches for HP-UX 11i v1, December 2004
  - GOLD Applications Patches for HP-UX 11i v1, December 2004
  - GOLD Base Patches for HP-UX 11i v1, December 2004
  - PHCO\_31923 libc cumulative header file patch
  - PHCO\_33360 libc cumulative patch
  - PHKL\_31918 fsadm;ACL;locking order;8K mount;readdir
  - PHNE\_32477 ONC/NFS General Release/Performance Patch
  - PHSS\_29483 HP aC++ Compiler (A.03.52)
  - PHSS\_31271 (PA2.0 only) PEX 5.1/Starbase/Hardcopy Run
  - PHSS\_31274 (PA2.0 only) Starbase/Hardcopy Dev
  - PHSS\_31275 (PA2.0 only) OpenGL 1.1 Dev
  - PHSS\_32573 HP aC++ -AA runtime libraries (aCC A.03.61)
  - PHSS\_32928 (PA2.0 only) 3D Common Run
  - PHSS\_32934 (PA2.0 only) OpenGL 1.1 Run

- PHSS\_32939 Xserver cumulative patch
- PHSS\_33033 ld(1) and linker tools cumulative patch

### SUN Environment:

- Solaris 10 H/W 03/05 (SPARC) with the following patch applied:
  - 199280-06 CD# 1.6

### All Environments

- CATIA Version 5, Release 19 Service Pack 3
- Dassault Systemes License Use Management (LUM)
  - If CCWAY's LUM compound licenses are used, then License Use Management (LUM) Application Runtime Kit (ARK) Version 4.6.6 or later on Solaris, HP-UX, or 32-bit Windows, or Version 4.6.8 or later on AIX or 64-bit Windows is required on each workstation CCWAY is installed on.

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## Licensed Program Materials Availability

- Restricted materials - No. This licensed program is available without source licensed program materials. It is available in object code only.

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## Supplemental Terms

### Type/Duration of Program Services (also referred to as "Support Services")

You will find all necessary information including processes, on Dassault Systemes web site :

<http://www.3ds.com/terms/support-policies>

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## Designated Machine Identification

No

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## Test Period

No

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## Use-Based Charges/Usage Restrictions

Charges for this program are based on the number of users logged on at any time. The total number of users logged on may not exceed the number for which you have been authorized. If the total number exceeds your authorization, you must notify Dassault Systemes and obtain additional authorizations.

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