

CrossCad/Ware - CAD API for your application

Datakit solution

Datakit provides a fully-documented API to enable **interoperability especially among CAD systems but also other applications.**

The toolkit allows to extract the characteristics of CAD data (2D or 3D) to integrate them in your application, or to write native and neutral CAD formats from your application data.

API, full documentation, sample sources and C++ based project are provided.

Inputs	
3DVIA / CATIA	IFC
SOLIDWORKS Composer	IGES
3Shape DCM	Inventor
ACIS	JT
CADD	Navisworks
CATIA V4 2D	OBJ
CATIA V4 3D	Parasolid
CATIA V5 2D	PLMXML
CATIA V5 3D	ProE / Creo Parametric 2D
CATIA V6 / 3DEXPERIENCE 2D	ProE / Creo Parametric 3D
CATIA V6 / 3DEXPERIENCE 3D	Revit
CEREC - Sirona Dental	Rhino
CGR	Robcad
Creo View	Solid Edge 2D
DWG / DXF 2D	Solid Edge 3D
DWG / DXF 3D	SOLIDWORKS 2D
FBX	SOLIDWORKS 3D
Fusion 360	STEP
gITF	STL
	UG NX 2D
	UG NX 3D
	VDA



Outputs
3DXML
3MF
ACIS
CADD
CATIA V4 3D
CATIA V5 3D
CGR
COLLADA
DXF
EMF
FBX
gITF
IFC
IGES
JT
OBJ
Open CASCADE
Parasolid
PDF 2D
PDF 3D
PRC
Robcad
SOLIDWORKS 3D
STEP
STL
UG NX 3D
Unisurf
VDA
VRML

Why select Datakit API?

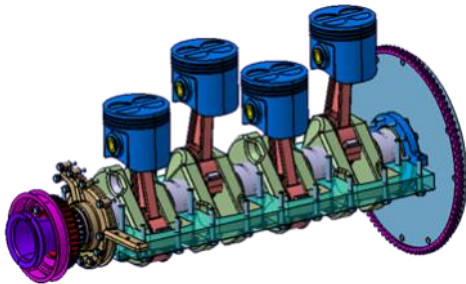
- Access **multi formats CAD data**, native or neutral with a **single API**
- **Easy to integrate** in your application
- Does **not require CAD licenses**
- **Control** of the whole conversion process
- Advanced **functionalities**
- **Large range of entities** covered
- **Quickness** of data treatment
- **Independent** from CAD API
- **Transparent** to the end users
- **Portable**
- Possibility to **stand out from your competitors**, by providing innovative features

For all types of software

Datakit technology can be useful for any ISV wanting to **integrate CAD data** in its application.

All domains can benefit from it, including:

- Visualization
- Simulation
- Metrology
- Dental
- CAD
- CAM
- CAE
- CAQ
- BIM
- EDA
- PLM
- ERP
- ...



Type of data supported

- **Assembly structures, BOM**
- **Mesh** representation (for visualization)
- **Product Manufacturing Information** (PMI, FD&T, GD&T, 3D tolerancing)
- Embedded faceted model
- **Metadata** (Material, Supplier, Cost...)
- **File previews** as 2D thumbnail (JPEG / PNG / GIF)
- **Parts**
- **Drawings**
- **Geometry**
- **Topology**
- **Capture**
- **Piping**
- **Tubing**
- **Features**
- **Harness**
- **Cabling**
- **Scenes**
- **Mock up**
- **File properties**
- **Product Data**
- ...

Two integration methods

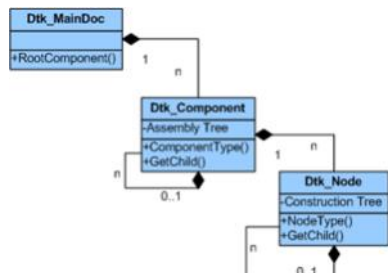
CrossCad/Ware SDK toolkit allows Independent Software Vendors to integrate completely all CAD data into their own process. This gives a powerful grasp on the transferred data.

CrossCad/Ware File To File transfers CAD data using intermediary files. It is an easy solution to test the robustness and the capabilities of the components.

Datakit data structure

Datakit libraries are based on a generic data structure.

This structure is detailed in our specific documentation.



Various business models

Datakit offers **several business models** taking account of your growth and the increase of your sales volume, to establish each time **an equal partnership.**

Compiler, OS

- Visual Studio .NET, **Windows** 32 & 64 bit
- Gcc, **Mac OS, Linux** 32 & 64 bit
- Contact us for other platforms