

CrossCad/Ware - CAD API for your application

CAD import	
3Shape DCM	Inventor
ACIS	JT
CADDS	OBJ
CATIA V4 2D	Parasolid
CATIA V4 3D	PLMXML 3D
CATIA V5 2D	ProCera
CATIA V5 3D	ProE / Creo Parametric 2D
CATIA V6 2D	ProE / Creo Parametric 3D
CATIA V6 3D	Cercon
CEREC - Sirona Dental	Solid Edge
CGR	SolidWorks 3D
DWG / DXF 3D	STEP
IGES	UG NX 2D
	UG NX 3D
	VDA

CrossCad /Ware SDK



CAD export
CATIA V4 3D
CATIA V5 3D
CGR
JT
Parasolid
STEP
STL

Datakit solution

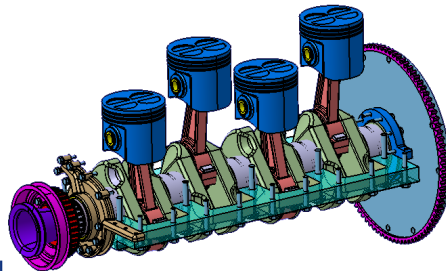
Provides you a fully-documented Application Programming Interface to enable **interoperability among CAD systems**.

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

- Assembly
- Capture
- Harness
- Part
- Piping
- Cabling
- Drawing
- Tubing
- Scenes
- Geometry
- Features
- Kinematics
- Topology
- Embedded
- Mock up
- PMI, FD&T
- faceted model
- Preview...

Why select Datakit libraries?

- **Quickness** of data treatment
- **Easy** to integrate
- Does **not require CAD license**
- **Independent** from CAD API
- **Transparent** to the end users
- **Portable**
- Advanced **functionalities**
- Access **multi formats** CAD data, native or neutral
- **Large range of entities** covered (geometry, assemblies, PMI, features, kinematics...)
- **Control** of the whole conversion process
- A **unique and straightforward code** in your application for all formats



```
Start API
Dtk_API * MyAPI = Dtk_API::StartAPI();
And Open Document
MyAPI->OpenDocument (inInputFile, outDoc);
```

Datakit data structure

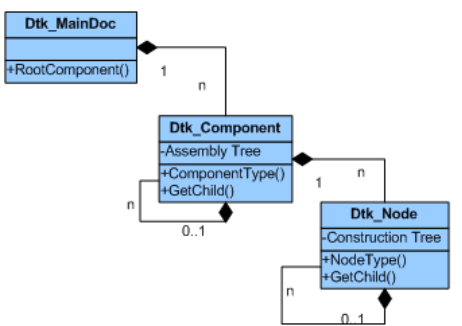
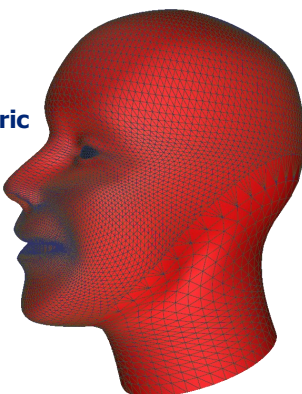
Datakit libraries are based on a generic data structure:

- Component, instantiation Node
- Body Node represents Brep and Wireframe
- Mesh Node represents Tesselated Geometry
- FdtAnnotation Node represents a set of FDT/GDT entities
- Drawing Node represents an additional orthonormal basis
- LayerFilter Node represents a set of visible layers
- Preview Node represents a jpeg picture for model
- ...

Tesselation library is provided

This component is a library to integrate in a CAD environment. Its main functions are :

- **Analyze the geometry** of a CAD model
- Built automatically the **topology** according to a given **geometric tolerance**
- **Point out any geometric connectivity defaults** larger than the given tolerance
- Tools to **define domains**
- A basic set of automatic **triangulation methods**
- A basic set of **checking and correction methods** of the mesh.



This structure is detailed in our specific documentation for libraries (DtkAPI.chm).

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