Oceans SDK – Data Support

Oceans SDK (OSDK) is a CAD-independent technology that allows easy integration of 3D CAD data assets in enterprise applications. It provides both *read & edit* API for native multi-CAD data.

OSDK is a first of its kind component that allows enterprise application vendors to propagate changes done to file parameters & properties in their software, back to the CAD side, thereby updating the source CAD data and repairing broken file references.

OSDK Read API provides access to the following data:

Assemblies
- Hierarchy
- Configurations
- File References
- File Summary
- File Version
- File Persistence Data
- File Units
- Properties
- Preview Image

Parts
- Visualization data
- Configurations
- File Summary
- File Version
- File Persistence Data
- File Units
- Properties
- Preview Image

Drawing
- File Summary
- File Version
- File Persistence Data
- File Units
- Properties
- Preview Image

OSDK Edit API allows for the following:

Assemblies
- Rename Referred File
- Edit File Summary
- Add Properties
- Edit Properties
- Delete Properties
- Edit Instance Name
- Edit Configuration Name

Parts
- Rename Referred File
- Edit File Summary
- Add Properties
- Edit Properties
- Delete Properties
- Edit Configuration Name

Drawing
- Rename Referred File
- Edit File Summary
- Add Properties
- Edit Properties
- Delete Properties
- Edit Drawing Sheet Name

Supported File Formats

CAD Formats	File Formats	Version (Read)	Version (Edit)
CATIA V5	*.CATPart, *.CATProduct, *.CATDrawing, *.CATShape, *.CGR	V5 R10 to V5-6R2020 (R30)	R19 to V5-6R2016 (R26)
CATIA V6	*.3dxml	R2010x to R2017x	-
SOLIDWORKS	*.sldprt, *.prt, *.sldasm, *.asm, *.slddrw, *.drw	2001plus to 2020	2012 to 2016
Siemens NX	*.prt	UG 15 to NX 1899	NX 8.0 to NX 10
Autodesk Inventor	*.ipt, *.iam, *.idw	R11 to 2020	-
PTC Creo	*.prt.*, *.asm.*, *.drw.*, *.xpr.*, *.xas.*	18 to Creo 6.0	-
Solid Edge	*.par, *.asm, *.psm, *.dft	18 to 2020	-
JT	*.jt	6.4 to 10.5	-

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