

Export parts and assembly files with maximised data with Datakit solutions

Datakit develops and offers a wide range of solutions for writing native, standard (BREP or mesh) formats for exchanging CAD files for design, manufacturing, visualisation, rendering, BIM, etc.

Formats	Versions	Extensions
3DXML	xml 1.0	.3dxml
3MF		.3mf
ACIS	5-8, 10-31, 33	.sat
Catia V5	R14, R19, R20, R21 and V5- 6R2012 to V5-6R2024	.CATPart, .CATProduct
CGR	R14 & R19	.cgr
COLLADA	V1.4	.dae
FBX	7.4	.fbx
gITF	Version 2.0	.gltf and .bin or .glb
IFC	IFC2x3 or IFC4	.ifc
IGES		.igs
TL	8.0 - 9.0 to 9.5 - 10.0 to 10.10	.jt
NX/Unigraphics	NX5, NX1980 and NX2212	.prt
OBJ		.obj
Parasolid	up to v37.1	.x_t .x_b
PDF	V1.7	.pdf, .u3d or .prc
PLM XML		.plmxml
SOLIDWORKS	R2006	.sldprt, .sldasm
STEP	AP203 (Edition 1, 2), AP214 (Edition 3), AP242 (Edition 1, 3), AP242 BOXML	.stp .step .stpZ .stpx .stpxZ

The structure of the assembly with the names of the different parts, multiple references, metadata (part attributes, user attributes) and/or meshes entities can be exported.

With JT, STEP and PDF, users also have access to the PMI (dimensioning and tolerancing data) they need for inspection and machining.



The analytic nature of all primitive surfaces (planes, cylinders, cones, spheres, torus) and derived surfaces (offsets, revolution surfaces, rouled surfaces, swept surfaces) is preserved. This increases the precision and lightness of the viewing. And if part of the geometry needs to be changed, you can sketch and trim directly from the file.

Datakit's solutions are designed for enterprises (design offices, design, etc.) or software companies, who then embed them in their own applications.

These solutions enable different services to collaborate successfully with each other and with their partners, regardless of the hardware and software platform, in order to :

- share files and digital mock-ups during reviews with interdisciplinary teams,
- export a part of the files or assemblies to partners without transferring the complete assembly,
- mark up projects for adjustments and validate versions at very different stages, from sketch to prototype,
- access tolerancing data for measurement, quality control, manufacturing operations, etc.
- browse, view, verify or evaluate models, and simulate their manufacturing or implementation in a virtual environment,
- save files for archiving purposes ...

Datakit's write libraries are embedded by software companies and machine manufacturers, mainly for native formats (Catia V5, CGR, NX, SOLIDWORKS, 3DXML). Then, come the standard formats (mostly JT, STEP and PDF) and, more recently, 3MF for

additive manufacturing, COLLADA for web applications, FBX, OBJ, glTF, for realistic rendering or representation, and IFC for BIM.

Convertors for use in industry or embedded by software companies and machine manufacturers benefit from ongoing support from Datakit's R&D teams with quarterly releases (new version compatibility and/or additional entities).

To find out more: solutions@datakit.com