

TRANSMAGIC™ 3D CAD TRANSLATION SOLUTION

Reuse 3D CAD Content to Support Training, Maintenance and Operations

The NGRAIN 3D file format is optimized for Web deployment with the ability to significantly compress and reduce file size by up to 95%. It is highly interactive and does not require additional hardware for users on desktops, laptops, tablet PCs, and PDA devices. In addition, the NGRAIN format is secure, protecting intellectual property and preventing reverse engineering.

The TransMagic solution translates 3D CAD data to the compressed, secure, and interactive NGRAIN format, which is optimized to meet training requirements. TransMagic enables defense manufacturer's training departments to repurpose 3D CAD data within NGRAIN.

COST EFFECTIVE 3D CAD TRANSLATION

- High quality, accurate translation of CAD files to NGRAIN
- Easy-to-learn user Windows interface - start translating files in 15 minutes
- Automated geometry repair system
- Optional batch conversion for fast translation turnaround of multiple files
- Regular updates to support new CAD versions

EDIT AND OPTIMIZE 3D CAD FOR TRAINING

- Delete parts from the assembly
- Merge multiple parts into one component
- Color parts
- Specify translation settings, including target model dimensions and visual quality
- Create 2D images including wireframe, hidden line, transparency, redline and annotations

COMPLETE 3D CAD TRANSLATION

The conversion process translates the following data into NGRAIN format:

- Geometry
- Colors and normals
- Hierarchy and part names
- Position, orientation and scale

FILE FORMATS SUPPORTED

The following CAD formats are supported and read into TransMagic and translate to NGRAIN:

TransMagic BASIC

- IGES - .igs
- STEP - .stp
- ACIS - .sat
- Parasolid - .x_t
- HSF - .hsf
- StereoLithography - .stl

TransMagic ELEMENT

Includes all formats supported in BASIC, plus:

- Pro/ENGINEER - .asm, .prt
- Unigraphics - .prt
- SolidWorks - .sldasm, .sldprt
- Inventor - .ipt, .iam

TransMagic CATIA v4 Add-on

- CATIA v4 - .model, .exp, .session

TransMagic CATIA v5 Add-on

- CATIA v5 - .CATPart, .CATProduct

Additional Formats Supported

- 3D Studio Max
- AutoCAD
- I-DEAS
- MicroStation
- SolidEdge
- Mechanical Desktop

SYSTEM REQUIREMENTS

- Memory: 256 MB RAM (1GB recommended)
- Processor: Intel® Pentium® II (Pentium 4 recommended)
- Operating System: Microsoft® Windows NT (Windows 2000 or XP recommended)

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