Overview

STUDEC 3DWEB is a 3D solution designed for technical data display. It is fully integrated in your authoring production flow, parallel to your 2D illustration workflow.

Applications

3DWEB provides end users with easy:
- IPC display,
- Maintenance task display,
- 3D browsing,
- 3D animations.

Benefits

- Enhance the appearance of your application whatever the domain: technical documentation, training viewer, demonstration and more.
- Zero deployment cost: it works with no plugins for any latest version of HTML 5 compliant browsers.
- Zero hardware cost: 3DWEB uses only standard technologies including HTML5, WEBGL, JavaScript, and does not require specific hardware.
- Easy integration in your application: the example below shows this integration in an S1000D 4.1 Interactive Electronic Technical Publication.
- Secured: 3DWEB internal format is specific and cannot be used by another tool. It protects your 3D data from retro-engineering.
- High Performance: 3DWEB displays 12 frames per seconds for 2 500 000 polygons. Our streaming technology is 4 to 8 times faster than competing products to load and display 3D models.

Product

3DWEB includes:
- An authoring user guide.
- STUDEC 3DWEB Converter converts 3D data from CAD tools into 3D format.
- STUDEC 3DWEB Browser framework and API is integrated in your WEB application to display 3D model, compliant with Angular and JQUERY.

Converter features

- Model optimization
- Compliant with Cortona CAD tools, CATIA composer (1)
- Texture and background colour definition
- Crease angle optimization
- Statistics
- Command line

Browser framework features

- Compliant with latest HTML 5 browsers, including IPad and Android browsers
- Developer guide
- Compliant with W3D models
- Real time texturing, rotation, zoom, span, fly
- Viewpoint manager: 3D animation, view point, play/pause, real time texturing, object opacity
- Event manager for 3-button mouse and multi-touch
- Automatic 2D hotspot display
- Fast loading with streaming technology
- Object picker, Colour picker
- Clip pan on 3 axes
- Screenshot for printing
- Phantom management

(1) Included in next version