Autodesk®
DWF™ Viewer

Features and Benefits

Today's competitive business environment requires project members to efficiently share complex data across teams in different locations and coordinate design reviews within tight schedules. For viewing and printing intelligent design data, use the free* **Autodesk® DWF™ Viewer**, because only DWF™ will do.

DWF™ technology is purpose-built to share complex design information while maintaining its integrity at 1/10 the size of other file formats. The Autodesk DWF Viewer provides a free solution for users to view and print 2D and 3D drawings, maps, and models published to DWF from Autodesk design applications or with the free* Autodesk® DWF™ Writer.

This document details the features and benefits of Autodesk DWF Viewer 6 and 6.5.

Contents

Autodesk®

High Performance, High-Fidelity Viewing

DWF preserves the fidelity and integrity of the original file, supporting up to 60 million dpi—precision required for accurate presentation and measurement of engineering designs. The Autodesk® DWF™ Viewer uses the same rendering engine as the AutoCAD® family of products for accurate viewing and printing of DWF™ files. With Autodesk DWF Viewer, you can easily view and navigate drawings, maps, and models—including 3D models published from Autodesk design applications—without needing the software that created them.

Full Visual Fidelity

DWF files appear as they would in the originating design software. DWF Viewer supports high-performance graphics with real-time dynamic pan, zoom, and 3D orbit.

View Multisheet DWF Files

View multiple published sheets or layouts in a single, compact DWF file. Select list, thumbnail, bookmark or markup views. View DWF files that include raster images and other project-related information created for a particular audience.

View 3D Mechanical and Machine Designs

View the cross-sections of mechanical or machine designs to understand how the parts are assembled. Also interactively pull apart individual parts of a model to visualize internal parts and then return them to the original position.

View 3D DWF Files

View and navigate 3D models published from Autodesk design applications or the Autodesk DWF Writer in a compact lightweight format.

- Pan, zoom, and orbit
- Show or hide components, show as transparent, isolate components
- Select wireframe and shaded views
- Navigate assembly or building structures
- View object properties
- Select perspective and orthographic projections

View DWF Map Books

View, navigate, and print DWF map books published from Autodesk Map® 3D 2006. DWF map books include index sheets and hyperlinks to quickly navigate the map.

View and Navigate DWF Markups

Increase the efficiency of the design review workflow, viewing and tracking markups made by team members. On the markup tab, view markups made with Autodesk® DWF™ Composer.

Intuitive Interface and Navigation

Streamlined user interface provides easy navigation and design information not available with paper. Use thumbnails, bookmarks, and index list of sheets to navigate.

Hyperlink Support

Quickly navigate between sheets and views using the embedded hyperlinks. Navigate sheets using hyperlinks automatically published from Autodesk® Revit® products, or any of the AutoCAD family of products.

Accurate and Flexible Printing

Choose from rich printing options, providing the same print fidelity as the CAD application from which the DWF™ file was published.

Print-Ready

DWF files are print-ready and do not require additional object enablers, xrefs, plot styles, and so forth. They print as they would from the originating design application.

Highest Resolution

DWF files support up to 60 million dpi, for high-resolution viewing and printing.

2D and 3D Printing

Print multisheet DWF files or selected views from a 3D DWF model.

Print Preview

Easily select paper sizes and preview the sheet, view, or model to be printed before sending a DWF file to the printer.

Print to Original or Specified Scale

Flexible print scaling options accommodate a variety of final output sizes, well beyond 8.5x11”. Multiple scale options are available at print time.

Tile Printing

Print a drawing that is larger than the paper size. DWF printing features enable you to automatically tile large prints to a smaller paper size, and then simply use indicators to line them up.

Printer Hardware Integration

Autodesk partners with large-format printer vendors, including HP and Océ, to speed the performance and ease of printing DWF files.

Access Design Intelligence

Take advantage of Autodesk's CAD expertise and the integration of DWF™ into every major Autodesk design application when you share DWF files. Unlike JPG, TIFF, or PDF, DWF files retain the intelligent design data of the original drawing, map, or model. As a result, work is shared accurately, retaining drawing scale, precise design coordinates, sheet details, along with object, component, and markup properties.

Publishing Features from Autodesk Applications

Built-in publishing features from Autodesk applications enable DWF files to retain the crucial design information designers want to share with their project or product team.

Integrated 3D Publishing with Autodesk Design Applications

Preserve the design intent of 3D models created with Autodesk design software. Easily publish and view 3D models from Autodesk Inventor®, including perspective and orthographic projections, wireframes, and shaded views. The following Autodesk applications support 3D DWF publishing:

- AutoCAD® 2006
- Autodesk® Architectural Desktop 2006
- Autodesk® Building Systems 2006
- Autodesk® Civil 3D® 2006
- Autodesk Inventor® 9 and 10
- Autodesk® Land Desktop 2006
- Autodesk® Mechanical Desktop® 2006
- Autodesk® Revit® Building 8
- Autodesk® Revit® Structure
- Autodesk® VIZ 2006
- Autodesk® 3ds Max® 8

One-Click Publishing

One-click, multisheet publishing from all Autodesk products and the DWF Writer makes it easy to share designs as DWF files.

Compact Multisheet File

DWF enables multiple sheets to be published to a single DWF file, simplifying the distribution and sharing of complex design data.

High-Performance Compression

DWF files are smaller, include more design information and are faster to transmit than either native design files or widely known alternatives such as PDF. This capability enables design professionals to share their designs quickly and efficiently. It also reduces storage and archiving needs.

Files published to DWF are highly compressed, while maintaining the fidelity of the original CAD file. A single DWF file is often 1/20 the size of multiple DWG files. DWF files are also often 1/10 the size of the same files published to PDF.

Publishing Object Properties

Share the detailed design data embedded in the designs.

Publish object properties from AutoCAD 2006–based products, Autodesk Inventor, Autodesk VIZ, and other design applications, including Solidworks® 2005, Pro/ENGINEER® Wildfire 2.0, CATIA, and UGS Solid Edge.

Share Only Published Views

DWF files are similar to paper plots—by default they include only what the designer intends to share. Protect the intellectual property of your designs by publishing only what you want to share.

Object definitions, metadata, block attributes, or properties are not included unless published by the CAD user.

Password Protection and Encryption

DWF files are secure, helping protect the intellectual property of the original design.

Select a password before publishing the DWF file. The Autodesk® DWF™ Viewer opens DWF files only with the correct password.

Open, Customizable Technology

DWF is an open file format. The DWF™ specification, plus the libraries to read, write, view, query, and print DWF files, is available for free from the Autodesk website. In addition, Autodesk® DWF™ Viewer can be embedded as an ActiveX® control in web pages, third-party applications, and Microsoft® applications, and customized via APIs (application programming interfaces). For more information on these capabilities visit the Developer Center at www.autodesk.com/dwf-developers.

Microsoft ActiveX Control

Supports viewing and embedding in Microsoft applications with full functionality. Embed DWF files in Internet Explorer, PowerPoint®, Word, or Excel documents with pan, zoom, and all other functionality. Host DWF files on websites to share plans, maps, and parts catalogs.

Microsoft Office Drag-and-Drop Support

Easily share drawings, maps, and models in PowerPoint presentations, Word documents, or Excel files by simply dropping the DWF file into the application window.

Windows Explorer Integration

Preview, search, print, and email DWF files directly from Windows Explorer.

Custom Error Reporting

Easily generate a report that summarizes errors, and submit the information directly to Autodesk.

Application Programming Interface (API)

Customize DWF Viewer for use within websites and third-party applications. Navigate to a specific page or view, control layer visibility, show or hide the toolbar and context-sensitive menus, and customize viewer behavior.

DWF Toolkit

The DWF specification is published and available to any developer free of charge to build applications with DWF. The DWF Toolkit, available at www.autodesk.com/dwftoolkit, includes C++ source code for reading and writing DWF files for Windows, Mac OS X and Linux users.

View Designs with Precision

Built-in publishing features from Autodesk applications enable DWF files to retain the detailed design information designers want to share with their project or product team.

View 3D Cross Sections

View the 3D cross-sectioning internal parts of mechanical or machine designs to understand how the parts are assembled.

View 3D Move and Rotate

Also interactively pull apart individual parts of a mechanical or machine model to visualize internal parts and then return them to their original location.

View Object Properties

- Block attributes and properties
- Object data and database links

Help improve teamwork and efficiency, accessing intelligent design data. Access object properties such as door size, height, and materials from the Properties window published from the AutoCAD 2006 family of products and Architectural Desktop, or object data, database links, and feature classification names from Autodesk Map 3D.

Sort Object Properties

Improve the sharing of intelligent design data. Organize object properties with categories, sorting to identify groups of object properties like Furniture (name, description, number) or Manufacturer (cost, model, color) for bills of materials, change orders, and other needs.

View 3D Component Properties and Mass Properties

Contribute to improved teamwork and efficiency among Autodesk Inventor users, enabling product teams to access crucial design data. Access component and mass properties such as part number, dimensions, materials and manufacturer, center of gravity, density, mass, and volume published from Autodesk Inventor software.

Access Markup Properties

Help increase the efficiency of the design review process, accessing detailed feedback from team members involved in the process.

View markups and markup properties published from Autodesk® DWF™ Composer, including date and timestamp with reviewer information.

View Sheet Properties

Access sheet properties such as sheet name, drawing author, and timestamp through the Properties window.

Password Protection

When security is a concern, DWF and Autodesk DWF Viewer support password-controlled access to DWF files.

*This product is subject to the terms and conditions of the end-user license agreement that accompanies download of this software.