DWF Settings in Autodesk Vault 2008

Introduction

In Autodesk® Vault or Autodesk® Productstream® software, the check-in process creates a DWF™ representation of the CAD file, used for viewing and markup purposes.

In previous releases of Autodesk® Inventor™ and Vault software, the DWF file would be created with the last settings used in Autodesk Inventor, potentially causing performance problems or inconsistent results.

To address this issue the Vault Client in Autodesk® Vault 2008 creates an XML (Extensible Markup Language) file the first time a DWF file is created using Autodesk Inventor. This XML file stores the settings that are used for the creation of DWF files by Autodesk Vault using Autodesk Inventor.

This document describes the XML file used and settings in the XML file.

Note: No graphical user interface exists in Autodesk Vault to change the settings in the XML file. Changing the settings in the XML file is not a fully tested and supported feature in Autodesk Vault.

Settings File

The file that contains the settings used during DWF publishing is located on the client computer, in the application data folders.

The file, named *Publish Options.xml*, is located in *C:\Documents and Settings\<User Name>\Application Data\Autodesk\VaultCommon*.

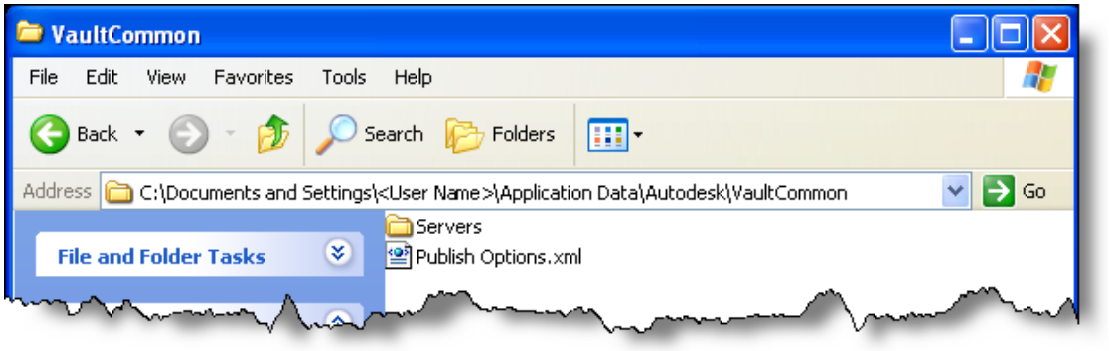


Figure 1

The *Publish Options.xml* file is an XML file. This is a standard, neutral format often used to store data that is reasonably readable by humans and program applications. XML files can be edited with an ASCII text editor, such as Notepad.

Inside the Settings File

When the *Publish Options.xml* file is opened in a text editor, several types of information are displayed. The following sections describe these types of data.

XML Header

The first two lines in the XML file contain header information (Figure 2). These lines should *not* be edited. Editing these lines may cause the XML data to be invalid.

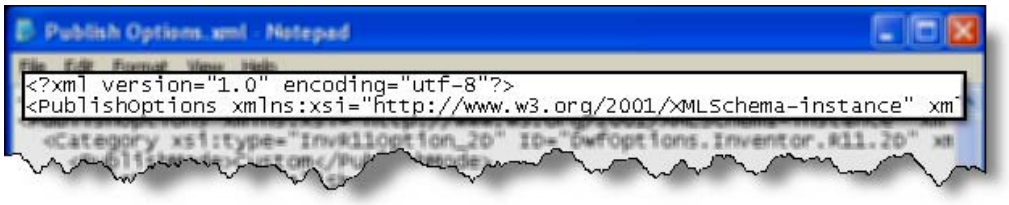


Figure 2

Categories

The settings in the XML file are separated into categories. These categories represent the different Autodesk Inventor releases, as well as 2D and 3D data.

For example, the category InvR2008Option_2D contains the options for 2D data (IDW and DWG™ files) opened in Autodesk Inventor 2008.

The XML lines containing </Category> represents the end of a category (Figure 3).

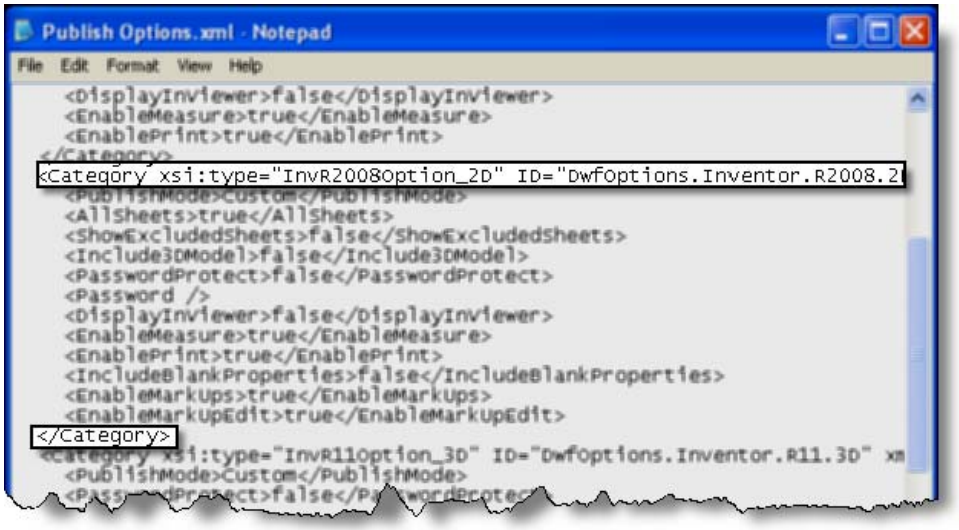


Figure 3

The categories in the settings file are as follows:

Release	Data Type	Type Name
11	2D	InvR11Option_2D
11	3D	InvR11Option_3D
11 DWF Extension	2D	InvR11DwfOption_2D
11 DWF Extension	3D	InvR11DwfOption_3D
2008	2D	InvR2008Option_2D
2008	3D	InvR2008Option_3D

The category information should *not* be edited. Editing the category type or ID may cause the category to be unreadable by the publishing application.

Within each category are the applicable options and option values. Because each release of Autodesk Inventor has different options available when creating DWF files, each category has different ways to represent those options.

Publish Options

This section describes each option available in the settings file. Each option may appear in more than one section in the file, depending on whether the option is applicable to the corresponding Autodesk Inventor release.

Property	Value Type	Description
AllSheets	True/False	A Boolean property that causes the IDW or DWG file to create all of the present sheets in the DWF file, when set to true.
BOMPartsOnly	True/False	A Boolean property that includes the BOM (bill of materials) data for all parts in a flattened format, when set to true.
BOMStructure	True/False	A Boolean property that causes the BOM data from an assembly of all parts and subassemblies in a structured format, when set to true.
ComponentProperties	True/False	A Boolean property that causes the properties for individual components in an assembly to include properties information, when set to true.
DisplayInViewer	True/False	A Boolean property that displays the DWF file in the viewer after creation, when set to true. This property should not be set to true because it may interfere with the functions of the Vault.
EnableMarkUpEdit	True/False	A Boolean property that sets a flag in the DWF file that allows or disallows editing markups.
EnableMarkUps	True/False	A Boolean property that sets a flag in the DWF file that allows or disallows adding markups.
EnableMeasure	True/False	A Boolean property that sets a flag in the DWF file that allows or disallows measuring data in the DWF viewer.
EnablePrint	True/False	A Boolean property that sets a flag in the DWF file that allows or disallows printing in the DWF viewer.
Include3DModel	True/False	A Boolean property that includes the 3D model information in the DWF files created from a 2D file, when set to true.
IncludeAllMembers	True/False	A Boolean property that includes all members of an iPart or iAssembly in the DWF file, when set to true.

Property	Value Type	Description
IncludeAnimations	True/False	A Boolean property that includes the animations within a presentation in the DWF file, when set to true.
IncludeBlankProperies	True/False	A Boolean property that includes properties with no value in the DWF file, when set to true.
IncludeDesignViews	True/False	A Boolean property that includes all design views in the DWF file, when set to true.
IncludePositionalReps	True/False	A Boolean property that includes all positional representations in the DWF file, when set to true.
MassProperties	True/False	A Boolean property that calculates and stores the physical properties of the model in the DWF file, when set to true.
LargeAssemblyMode	True/False	(See Large Assembly Mode section of this document.)
Password	Text	A property that stores the password that is set when the password protect property is set to true.
PasswordProtect	True/False	A Boolean property that locks the DWF file with a password. The password used is defined in the password property. This property should not be set to true, because it may affect operation of the Vault.
PublishMode	Text	A property that stores the mode to be used when publishing the DWF file. There are three valid values that may be set for this property: Custom, Complete, and Express. These values correspond to the options available in Autodesk Inventor. When set to Custom, the values in the XML file are followed.
SheetMetalFlatPattern	True/False	A Boolean property that includes the flat pattern model in the DWF file, when set to true.
SheetMetalStyleInformation	True/False	A Boolean property that includes the sheet metal style information in the DWF file, when set to true.
ShowExcludedSheets	True/False	A Boolean property that includes sheets set as No Print in the DWF file, when set to true.
WeldmentPreparation	True/False	A Boolean property that includes 3D weldment preparation information in the DWF file, when set to true.
WeldmentSymbols	True/False	A Boolean property that includes 3D weldment symbols in the DWF file, when set to true.

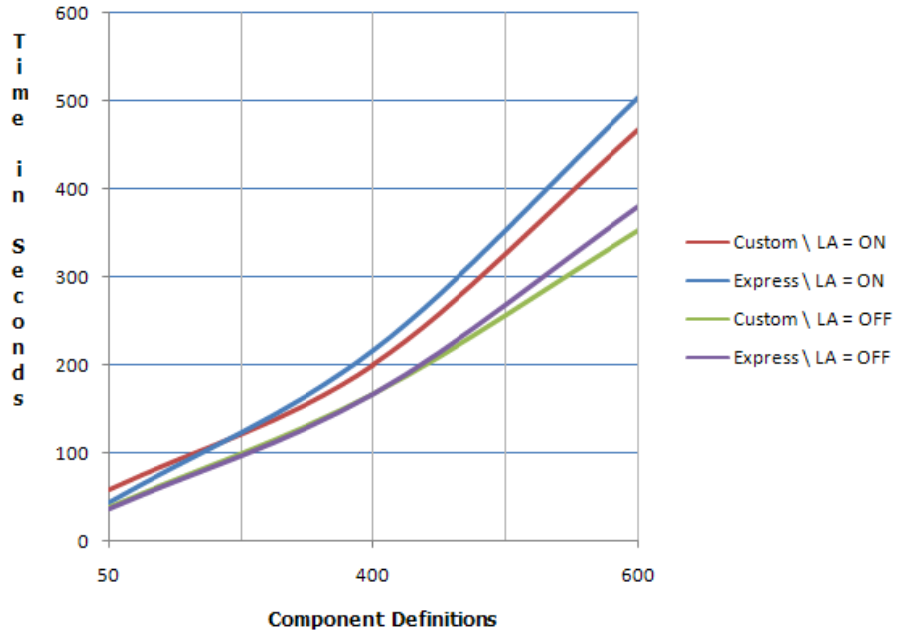
Large Assembly Mode

One of the properties available to be set in the XML settings file is Large Assembly Mode. This property is set to false (off) by default. The value for this property is honored even if Publish Mode is not set to Custom.

Large Assembly Mode causes Autodesk Inventor to manage its memory usage differently when publishing assembly files. This capability can improve performance and stability when working with very large assemblies. However, when this mode is used with smaller assemblies, performance may be affected.

The mode used depends on several factors, such as size of assemblies, number of large assemblies, and type of data in the assemblies. There is no absolute rule as to which mode should be used.

To help users decide which mode to use, testing was done on sample data sets. The following chart shows the results of the testing.



Each line in the chart represents four combinations of two settings. Custom is equal to using custom mode with the default settings. Express is equal to using express mode. LA represents Large Assembly Mode, and is either on or off.

As the chart shows, different settings may be more effective, depending on the size of the majority of the assemblies used.