Publishing Options for Autodesk Vault 2009

Introduction

When a CAD file is checked into Autodesk Vault, the vault client publishes a DWF of the file. In previous releases, Autodesk Vault published DWF files using the last settings in the application used for check in. In Autodesk Vault 2009, the vault client creates an XML file the first time it publishes a DWF. The XML file contains performance-friendly default settings for publishing DWFs of files checked in from Autodesk Inventor or any of the AutoCAD® verticals. You can customize the settings in the XML file to optimize publishing performance for your environment.

This document describes the layout of the XML file and provides information on the different publishing options available.

Note: No graphical user interface exists within 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 within Autodesk Vault.

The Publish Options File
No The XML file, Publish Options.xml, is located on the client computer in C:\Documents and Settings\‹User Name›\Application Data\Autodesk\VaultCommon. It can be edited with any ASCII text editor, such as Notepad.

Publish Options.xml contains an XML header and is divided into application-specific categories. Within each category is a list of publishing options and values that are used to create DWFs.

The XML Header
An The first two lines in the XML file contain header information. Do not edit these lines. Editing these lines could render the XML file invalid.
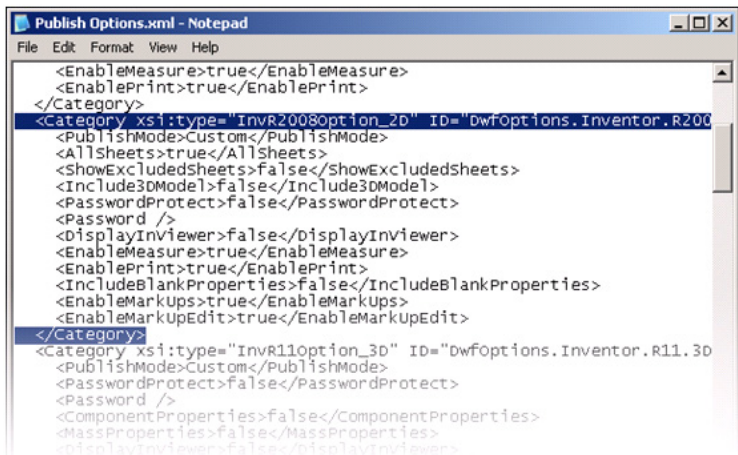

Categories
The XML file contains settings specific to the application that first generated it. Settings for other applications are not available until those applications are used to check in data. For example, if you use Autodesk Inventor to check in a CAD file but have not checked in files using any of the AutoCAD verticals, the XML file contains only settings specific to Autodesk Inventor. Once you use an AutoCAD application to check in a file, the XML file contains the available AutoCAD settings.

The settings in the XML file are separated into categories. Within each category are publishing options applicable to a particular product. Every category begins with ‹Category...› and concludes with ‹/Category›. Each category represents a different application used to check in CAD files. For Autodesk Inventor, the categories are divided by both release and 2D and 3D data.

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

The following table lists the categories in the order that they appear in the XML file.

Category Type	Release	Data
InvR11Option_2D	Inventor R11	2D
InvR11Option_3D	Inventor R11	3D
InvR11DwfOption_2D	Inventor R11 DWF Extension	2D
InvR11DwfOption_3D	Inventor R11 DWF Extension	3D
InvR2008Option_2D	Inventor R2008	2D
InvR2008Option_3D	Inventor R2008	3D
InvR2009Option_2D	Inventor R2009	2D
InvR2009Option_3D	Inventor R2009	3D
ACADCommonPublish Option	All AutoCAD	2D and 3D
ACADPageSetupOption_ Base	AutoCAD®	2D and 3D
ACADPageSetupOption_ Mechanical	AutoCAD® Mechanical	2D and 3D
ACADPageSetupOption_ Electrical	AutoCAD® Electrical	2D and 3D
ACADPageSetupOption_ MDT	AutoCAD® Mechanical Desktop®	2D and 3D
ACADAutoLoader	Autodesk® Autoloader	2D and 3D

Note: Do not edit the category type. Editing the category type or ID could render the category unreadable by the publishing application.

Autodesk Inventor 2D Options

The following table describes the Autodesk Inventor 3D data publishing options.
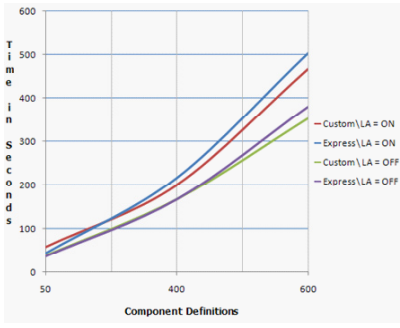
Note: By default, the settings in the XML file override the DWF creation settings for Autodesk Inventor. To use Autodesk Inventor settings instead, refer to the PublishMode option.

Property	Type	Description
AllSheets	Boolean	Set this property to True (default) to create all of the present sheets in the IDW file. Set this property to False to create only the current sheet.
DisplayInViewer	Boolean	Set this property to True to display the DWF file in the viewer after creation. The default value is False.
DWFType	String	This property specifies whether the created file is a DWF or a DWFx. The default value is DWF. *Note: Only available for Autodesk Inventor 2009.*
EnableMarkUpEdit	Boolean	This property enables (True) or disables (False) the ability to edit markups in a DWF. The default value is True.
EnableMarkUps	Boolean	This property enables (True) or disables (False) the ability to add markups to a DWF. The default value is True.
EnableMeasure	Boolean	This property enables (True) or disables (False) the ability to measure data in the DWF viewer. The default value is True.
EnablePrint	Boolean	This property enables (True) or disables (False) the ability to print from the DWF viewer. The default value is True.
Include3DModel	Boolean	Set this property to True to include the 3D version of the model in the DWF. The default setting is False.
IncludeBlankProperties	Boolean	Set this property to True to include properties with no value in the DWF file. The default value is False.
OverrideSheetColor	Boolean	Set this property to True to use the values defined in SheetColorRed, SheetColorGreen, and SheetColorBlue to color the DWF background. The default value is False (no background color). *Note: Only available for Autodesk Inventor 2009.*
PublishMode	String	This property stores the mode that is used to publish the DWF file. There are three valid values for this property: Custom, Complete, and Express. These values correspond to the options available in Autodesk Inventor. *Note: When this property is set to Custom (default), the values set in the XML file override those in Autodesk Inventor or the AutoCAD verticals.*
SheetColorBlue	Integer	This property defines how much blue is included in the background. The integers range from 0 to 255. The default is 255. *Note: Only available for Autodesk Inventor 2009.*
SheetColorGreen	Integer	This property defines how much green is included in the background. The integers range from 0 to 255. The default is 255. *Note: Only available for Autodesk Inventor 2009.*
SheetColorRed	Integer	This property defines how much red is included in the background. The integers range from 0 to 255. The default is 255. *Note: Only available for Autodesk Inventor 2009.*
ShowExcludedSheets	Boolean	Set this property to True to include sheets set as No Print in the DWF file. The default value is False.

Autodesk Inventor 3D Options

The following table describes the Autodesk Inventor 3D data publishing options.

Note: By default, the settings in the XML file override the DWF creation settings for Autodesk Inventor. To use Autodesk Inventor settings instead, refer to the PublishMode option.

Property	Type	Description
BOMPartsOnly	Boolean	Set this property to True to include the BOM data for all parts in a flattened format. The default setting is False.
BOMStructure	Boolean	Set this property to True to force the BOM data from an assembly of all parts and subassemblies into a structured format. The default setting is False.
ComponentProperties	Boolean	Set this property to True to include the property information for the individual components in an assembly. The default value is False.
DisplayInViewer	Boolean	Set this property to True to display the DWF file in the viewer after creation. The default value is False.
DWFType	String	This property specifies whether the created file is a DWF or a DWFx. The default value is DWF. *Note: Only available for Autodesk Inventor 2009.*
EnableMarkUpEdit	Boolean	This property enables (True) or disables (False) the ability to edit markups in a DWF. The default value is True.
EnableMarkUps	Boolean	This property enables (True) or disables (False) the ability to add markups to a DWF. The default value is True.
EnableMeasure	Boolean	This property enables (True) or disables (False) the ability to measure data in the DWF viewer. The default value is True.
EnablePrint	Boolean	This property enables (True) or disables (False) the ability to print from the DWF viewer. The default value is True.
FacetQuality	String	This property defines the resolution of the DWF. Available settings are High, Medium (default), and Low. *Note: Only available for Autodesk Inventor 2009.*
IncludeAllMembers	Boolean	Set this property to True to include all members of an iPart or iAssembly in the DWF file. The default value is False.
IncludeAnimations	Boolean	Set this property to True to include animations within a presentation in the DWF file. The default value is False.
IncludeBlankProperties	Boolean	Set this property to True to include properties with no value in the DWF file. The default value is False.
IncludeDesignViews	Boolean	Set this property to True to include all Design Views in the DWF file. The default value is False.
IncludePositionalReps	Boolean	Set this property to True to include all Positional Representations in the DWF file. The default value is False.

Property	Type	Description
LargeAssemblyMode	Boolean	Set this property to True to improve performance and stability when working with large assemblies. Note: Some performance degradation can occur when this mode is used with smaller assemblies. The default value is False. Consider the size of the assemblies, the number of large assemblies, and the type of data in the assemblies when deciding which mode to use. The following chart shows the results of several sample data set tests. Each line represents a combination of two settings: Custom mode with LargeAssemblyMode (LA) turned On or Off and Express mode with LargeAssemblyMode turned On or Off. Note: This property is honored even if PublishMode is not set to Custom.
MassProperties	Boolean	Set this property to True to calculate and store the physical properties of the model in the DWF file. The default value is False.
PublishMode	String	This property stores the mode that is used to publish the DWF file. There are three valid values for this property: Custom, Complete, and Express. These values correspond to the options available in Autodesk Inventor. Note: When this property is set to Custom (default), the values set in the XML file override those in Autodesk Inventor.
PublishScreenshot	Boolean	Set this property to True to take a screen shot of a 3D drawing and publish it as a flat image in the DWF file. The image cannot be rotated or marked up. This property is used in conjunction with the ScreenshotDPI property. The default value is False. Note: Only available for Autodesk Inventor 2009.
ScreenshotDPI	Integer	ScreenshotDPI is an integer value that determines the DPI of the screenshot taken when the PublishScreenshot property is enabled. Note: Only available for Autodesk Inventor 2009.
SheetMetalFlat Pattern	Boolean	Set this property to True to include the flat pattern model in the DWF file. The default value is False.
SheetMetalStyle Information	Boolean	Set this property to True to include the sheet metal style information in the DWF file. The default value is False.
WeldmentPreparation	Boolean	Set this property to True to include 3D weldment preparation information in the DWF file. The default value is False.
WeldmentSymbols	Boolean	Set this property to True to include 3D weldment symbols in the DWF file. The default value is False.

Autodesk AutoCAD Options

There are two types of categories for the AutoCAD verticals in the XML file: a common category that contains options that are global for all of the AutoCAD verticals and individual categories containing application-specific options.

Common AutoCAD Options

The options listed in the ACADCommonPublishOption category affect all of the AutoCAD verticals. The following table describes the common options.

Property	Type	Description
IncludeLayerInfo	Boolean	Set this property to True to include the layering information in the DWF file so that the layers are viewable. The default value is False.
InitializeLayouts	Boolean	Set this property to True (default) to initialize the layouts in files and ensure that they conform to current layout standards. This property is especially important in enforcing legacy fidelity with older CAD files or when files are added to a vault using Autoloader.
LogFilePath	String	Set this property to the path where you want to store the DWF.
PlotStampOn	Boolean	Set this property to True to enable plot stamping and place a plot stamp on a specified corner of each drawing and/or log it to a file. The default setting is False.
UsePageSettingsFromUserDwg	Boolean	Set this property to True to ignore all other settings in the XML file and use the settings from the publishing application. The default value is False.
VisualizationType	String	This property specifies whether the file created at check-in is a DWF or a DWFx. The default value is DWF.

Application-specific AutoCAD Options

Unlike the ACADCommonPublishOption settings, the application-specific options are not shared with the other AutoCAD applications. For example, if you want quality set to Medium for AutoCAD Electrical and High for AutoCAD Mechanical, you must modify the setting for each corresponding application category.

The following table describes the AutoCAD application-specific publishing options.

Property	Type	Description
CenterthePlot	Boolean	Set this property to True (default) to center the drawing on the page.
DrawingOrientation	String	This property sets the drawing orientation. Available options are Portrait and Landscape (default).
FitTopaper	Boolean	Set this property to True (default) to fit the drawing to the paper on which it is printed.
HidePaperspaceObjects	Boolean	Set this property to True to hide objects in the paper space viewport. The default setting is False.
IncludeLayouts	Boolean	Set this property to True to include all layouts in the visualization file. The default setting is True for all AutoCAD verticals except AutoCAD Electrical.
IncludeModelSpace	Boolean	Set this property to True to include the model space in the visualization file. The default setting is True for all AutoCAD verticals except for AutoCAD basic.
PaperSizeinInch	String	This property determines the size in inches of the paper that is used. Enter the internal name (not the display name) of the paper size defined in the plot configuration file (PC3). For example, for 11 X 17 inch paper, you would enter ANSI_B_(11.00_x_17.00_Inches).
PaperSizeinmm	String	This property determines the size in millimeters of the paper that is used. Enter the internal name (not the display name) of the paper size defined in the plot configuration file (PC3). For example, for A4 paper, you would enter ISO_A4_(210.00_x_297.00_MM).
PlotObjectLineWeight	Boolean	Set this property to True to include object line weights in the image. The default setting is False.

Property	Type	Description
PlotPaperspaceLast	Boolean	Set this property to True (default) to plot model space geometry first, rather than paper space geometry. Enabling this option changes the location of the Model tab in files with Layout and Model.
PlotStyleTable	String	Enter the name of the plotter or plotter configuration file (PC3) that you want to use. This value is empty by default.
PlotUpside_down	Boolean	Set this property to True to plot the drawing so that it is rotated 180 degrees. The default setting is False (no rotation).
PlotwithPlotStyles	Boolean	Set this property to True to use the plot styles information when creating the DWF. The default setting is False.
Quality	String	This property sets the display quality of the DWF file. The valid values are: Draft, Preview, Normal (default), Presentation, and Maximum.
ScaleLineWeights	Boolean	ScaleLineWeights, when set to True, scales the line weights to print scale. The default setting is False.
ShadePlot	String	This property specifies the shaded plotting options. Available options are: AsDisplayed, Wireframe, Hidden, and Rendered.
WhatToPlot	String	This property determines the plot area. Available settings are Display, Extents, and Layout (default). *Note: Layout is treated as Limits when in model space.*

Autodesk Autoloader Options
The following table describes the Autodesk Autoloader publishing options.

Note: Use the default settings in PublishOptions.xml when checking files in with Autodesk Autoloader to ensure legacy fidelity.

Property	Type	Description
IncludeLayouts	Boolean	Set this property to True (default) to include all layouts in the visualization file.
IncludeModelSpace	Boolean	*Set this property to True to include the model space in the visualization file. The default setting is True.*

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