

[...]

## Problem

When adding new or checking in updated files/designs to the Vault, the Vault server would not write or update the Inventor iProperties (part number, title, designer etc) to the Vault database.

## Cause

Using Sysinternals' Process Monitor, file- and registry access on the Vault server were monitored while checking in files from the Vault client. The following problem was identified:

Time of	Process Name	PID	Operation	Path	Result	Detail
11:39:33.67	w3wp.exe	13360	RegOpenKey	HKU\S-1-5-20_CLASSES\Wow6432Node	ACCESS DENIED	
11:39:33.69	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	
11:39:33.70	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Execute/Traverse, Synchron
11:39:33.70	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	
11:39:33.70	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Read Data/List Directory, Synchron
11:39:33.70	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Execute/Traverse, Synchron
11:39:34.21	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	
11:39:34.21	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Execute/Traverse, Synchron
11:39:34.21	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	
11:39:34.21	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Read Data/List Directory, Synchron
11:39:34.21	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Execute/Traverse, Synchron
11:39:34.42	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	
11:39:34.42	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Execute/Traverse, Synchron
11:39:34.42	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	
11:39:34.42	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Read Data/List Directory, Synchron
11:39:34.42	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	ACCESS DENIED	Desired Access: Execute/Traverse, Synchron

## Solution

W3wp.exe is the Internet Information Service. It executes propfilterwrapper.dll and propfiltermapperlib.dll, responsible for reading the iProperties from the design files and writing the information to the Vault database. The dll-file is launched using the "NETWORK SERVICE" system account, which did not have the required file permissions to the "E:\Program Files (x86)\Autodesk" folder structure.

The "Network Service" account was granted read+execute permissions to "E:\Program Files (x86)\Autodesk"

Time of Day	Process Name	PID	Operation	Path	Result	Detail
12:45:50.9278811 PM	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	CreationTime: 8/17/2007 3:53:08 AM
12:45:50.9282302 PM	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	Desired Access: Execute/Traverse, Synchron
12:45:50.9283359 PM	w3wp.exe	13360	QueryStandardInformationFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	AllocationSize: 114,688, EndOfFile: 1
12:45:50.9284498 PM	w3wp.exe	13360	CloseFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	
12:45:50.9288007 PM	w3wp.exe	13360	QueryOpen	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	CreationTime: 8/17/2007 3:53:08 AM
12:45:50.9291224 PM	w3wp.exe	13360	CreateFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	Desired Access: Read Data/List Directory, Synchron
12:45:50.9292792 PM	w3wp.exe	13360	CloseFile	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	
12:45:50.9295317 PM	w3wp.exe	13360	Load Image	E:\Program Files (x86)\Autodesk\Data Management Server 2008\Server\Components\propfilterwrapper.dll	SUCCESS	Image Base: 0x2b70000, Image Size: 1

After this configuration change, iProperties were successfully written to the Vault database. [...]

Using the Autodesk Data Management Tool, the Re-index command was then run to update the iProperties for all the files in Vault.