

Advanced Configuration Guide for Autodesk® data management server

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Introduction

The Advanced Configuration Guide contains additional information for setting up the Autodesk® data management server 2011. The topics in this guide relate to the Autodesk® data management server and can be used for all versions of Vault 2011 unless otherwise noted in the instructions for each configuration. As these topics cover advanced configurations, some familiarity with IT procedures is assumed. For more information, refer to the Autodesk® data management server implementation and Managing Your Data guides.

Installing Autodesk data management server 2011

For standard installation configurations, consult the Autodesk data management server 2011 Implementation guide.

Customizing your Autodesk data management server 2011 installation

To customize your installation perform the following:

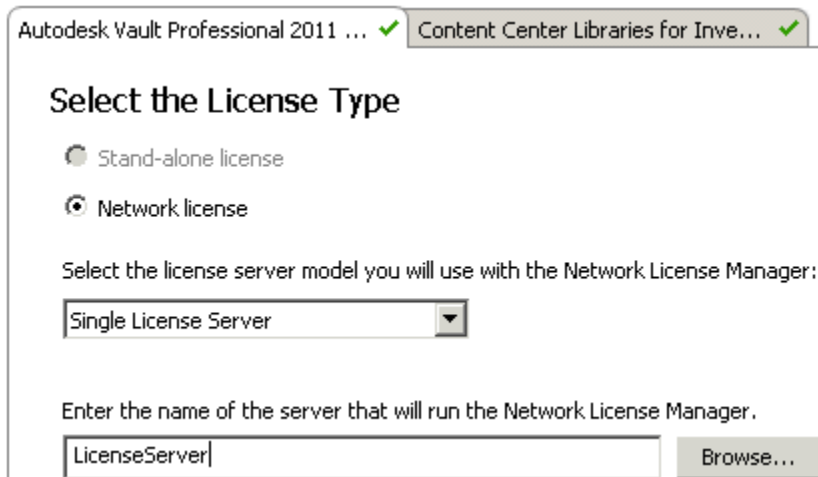
1. When you get to the Review – Configure – Install section in the Installation wizard, select the **Configure** button next to the product drop-down list.

Select a product to configure:



PRO Autodesk Vault Professional 2011 (Server) [v] Configure

2. In the next screen, select the Autodesk data management server 2011 tab. The four configuration pages will allow you to configure the license server name (if applicable), SQL connection settings, installation paths, and IIS port.



Autodesk Vault Professional 2011 ... ✓ Content Center Libraries for Inve... ✓

Select the License Type

☐ Stand-alone license

☒ Network license

Select the license server model you will use with the Network License Manager:

Single License Server [v]

Enter the name of the server that will run the Network License Manager.

LicenseServer [v] Browse...

3. You will also have the option to set the SQL sa password during installation by checking the box next to Use my SQL credentials.
 This will need to be entered if the AutodeskVault SQL instance was installed prior to the Autodesk data management server with a sa password other than the default **AutodeskVault@26200. Additionally, you can specify the impersonation user account if desired.

Credentials

☒ Use default SQL user ID and password

User ID: Password: Confirm password:

☐ Use default Windows user name and password

User Name: Password: Confirm password:

4. Vault Server 2011 has the option to automatically configure IIS to a port other than the default HTTP port, 80.

IIS Configuration

☐ Use default IIS configuration

Website Name: Port Number:

Note: Port 8080 is a common alternate http port.
However you can use any unused port between 1-65535.

5. Select the **Configuration Complete** button in the lower right corner of the dialog to return to the Review – Configure – Install dialog. This will then show you the current settings that will be used during the installation. Confirm your custom settings and select **Install** to start the installation.

Current settings:

Autodesk Vault Professional 2011 (Server) Settings	
Server type:	IIS
License type:	Network License
- License server type:	Single Server License
- License server:	LicenseServer
Database type:	Use local SQL
SQL installation location:	SQL already installed
SQL database location:	SQL instance already exists; database will be migrated
Server path:	C:\Program Files (x86)\Autodesk\ADMS Professional
Desktop shortcut:	Yes
Interactive mode:	Show failures or warnings
Default SQL credentials:	Yes
Default User credentials:	No (Custom)
Use default IIS configuration:	No (Custom)
- IIS website name:	Autodesk Data Management
- IIS port number:	8080

Installing Autodesk data management server 2011 with other web applications using a different .NET version

The Autodesk data management software will usually coexist with other web applications in the Default Web Site of IIS. However, there are certain applications that require a different .NET Framework version. This section illustrates how you can configure the Autodesk data management server Virtual directory to run under a different .NET version in the Default Application pool. You cannot run two different versions of .NET Framework in the same application pool with IIS 6.0. To work around this limitation, you will need to create a second application pool, and then configure it to run .NET Framework 2.0. Prior to running the Autodesk data management server installation you will have to configure the Default Web Site to use .NET 2.0.

Internet Information Services (IIS) 6

Note: Changing this setting will disable all other virtual folders under the Default Web Site to use .NET 2.0 until you change it back to the required .NET version for that application.

Open the IIS management console.

1. Open each virtual directory and note the .NET version that it is configured to use.
2. Right-click the Default Web Site and select Properties.
3. On the ASP.NET tab, select the **.NET 2.0.50727** from the drop-down list and click OK.
4. Install Autodesk data management server 2011.

To create an Application Pool

1. Open **IIS Manager** in the **Administrative Tools** of the **Control Panel**.
2. Right-click the **Application Pools** folder. Click **New Application Pool**.
3. In the **Application pool ID** field, enter **AutodeskAppPL**.
4. Select the **Use existing application pool** as template radio button and use the **DefaultAppPool** as a template.
5. Click the **OK** button to apply the changes.

To assign the new Application Pool

1. Expand the **Default Web Site** and navigate to the **AutodeskDM\Services** virtual directory.
2. Right-click on the **Services** directory and select **Properties**.
3. In the **Directory** tab, change the **Application Pool** drop-down to the newly created **AutodeskAppPL** Application Pool.
4. **Apply** the changes and close the properties of the Services virtual directory.

To reset the .NET Framework version

1. Open the properties of the **Default Web Site**.
2. In the **ASP.NET** tab, select the original .Net version from the drop-down list. **Note:** If you are changing this from .NET 2.0 to a different version you will have to reconfigure the AutodeskDM\Services virtual directory back to .NET 2.0.
3. Re-check all Virtual directories to make sure the correct .NET version is configured for the application.

Internet Information Services (IIS) 7

To create an Application Pool

6. Open **IISManager** in the **Administrative Tools** of the **Control Panel**.
7. Right-click the **Application Pools** folder. Click **Add Application Pool**.
8. In the **Name** field, enter **AutodeskAppPL**.
9. Leave the other two fields at their default and make sure **Start application pool immediately** is selected.
10. Click the **OK** button to apply the changes.

To assign the new Application Pool

5. Expand the **Default Web Site** and navigate to the **AutodeskDM\Services** virtual directory.
6. Right-click on the **Services** directory and select **Manage Application -> Advanced Settings**.
7. Under **General**, change the Application Pool to **AutodeskAppPI**
8. Hit OK to apply the changes and close the properties of the Services virtual directory.

Installing Microsoft SQL Server prior to Autodesk data management server 2011

Autodesk data management 2011 installs the Microsoft SQL 2008 SP1 Express Edition of SQL if it is unable to find an existing SQL instance named **AutodeskVault**. If you plan on running a full SQL version with Vault Server 2011, it can be installed prior to the installation of Vault Server 2011.

Note: This installation process may require the server to reboot multiple times. Please be sure you are able to perform the necessary reboots. Also, if you use a custom password for the SQL SA account, you will need to specify this password during the installation of the Autodesk data management server. Please see the [Customizing your Autodesk data management server 2011 Installation](#) section in this document.

Use the following steps for **Microsoft SQL 2005**:

1. Start the installation process for Microsoft SQL 2005 Server.
2. The installation process installs any necessary prerequisites and begins running the pre-installation checks. Note any errors and take the necessary corrective actions before continuing.
3. In the **Components to Install** dialog, select **SQL Server Database Services**. To modify the installation path, click **Advanced**.
 - a. In the Feature Selection dialog, you can expand the Database Services options and change the location of the data files directory.
4. In the **Instance Name** dialog, enter the name of the instances as **AutodeskVault**.

Note: If you install SQL without using this instance name, the Autodesk data management server installation will create its own instance of SQL Server called **AutodeskVault** using Microsoft SQL Express 2008 SP1. It will **NOT** recognize any SQL instance not named **AutodeskVault**.

ADVANCED CONFIGURATION GUIDE

5. In the Service Account dialog, specify the Local System account or if you plan on performing backups and restores to remote locations, specify a Domain User account for the SQL Server.
6. In the Authentication Mode dialog, select **Mixed Mode** authentication and set the SA password. The default password used during a default installation for the SA password is **AutodeskVault@26200**.

Note: If you use a different SA password, you will need to use the **use my SA Credentials** option in the [Customizing your Autodesk data management server 2011 Installation](#) section in this document.

7. Download and install SQL 2005 SP3 and applicable hot fixes from Microsoft's web site. The database engine version will be 9.0.4### once SP 3 has been successfully installed.

Use the following steps for installing **Microsoft SQL 2008**:

1. Start the installation process for Microsoft SQL 2008 Server by selecting **New SQL Server stand-alone installation or add features to an existing installation** from the installation menu.
2. The installation process installs any necessary prerequisites and begins running the pre-installation checks. Note any errors and take the necessary corrective actions before continuing.
3. In the Feature Selection window, select **Database Engine Services**. You can also specify the installation location at this point.
4. In the Instance Configuration window, select Named instance and enter the name as **AutodeskVault**.

Note: If you install SQL without using this instance name, the Autodesk data management server installation will create its own instance of SQL Server called **AutodeskVault** using Microsoft SQL Express 2008 SP1. It will **NOT** recognize any SQL instance not named **AutodeskVault**.

5. In the Server Configuration window, select the Service Accounts tab.
 - a. Specify the **NT AUTHORITY\NETWORK SERVICE** account for the SQL Server Database Engine. The local system account is also acceptable to use. If you plan on performing backups and restores to remote locations specify a Domain User account. Set the Startup Type to Automatic.

Server Configuration
Specify the configuration.

Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete

Service Accounts **Collation**

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Database Engine	NT AUTHORITY\NETW		Automatic

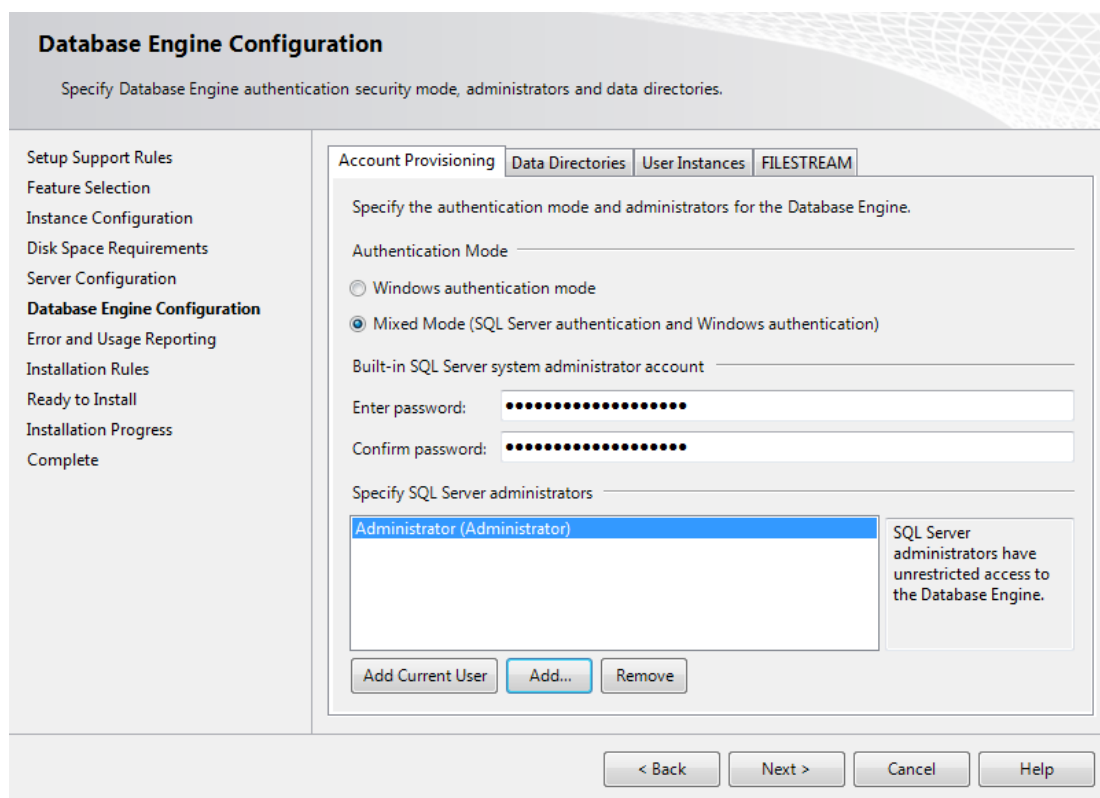
Use the same account for all SQL Server services

These services will be configured automatically where possible to use a low privilege account. On some older Windows versions the user will need to specify a low privilege account. For more information, click Help.

Service	Account Name	Password	Startup Type
SQL Server Browser	NT AUTHORITY\LOCA...		Disabled

< Back Next > Cancel Help

6. In the Database Engine Configuration window, select the Account Provisioning tab.
 - a. Select **Mixed Mode** authentication and set the SA password. The default password used during a default installation for the SA password is **AutodeskVault@26200**.
 - b. Add the local administrator account (or desired account) as a SQL Server administrator. **Only Windows users entered in this dialog will have full rights when logging into the SQL server. All other Windows logins will be treated as a guest account.**



Note: If you use a different SA password, you will need to use the **use my SA Credentials** option in the Customizing your Autodesk data management server 2009 Installation section in this document.

7. Verify the installation options chosen and **Install**. Once the installer has finished, it can be closed.
8. Download and install SQL 2008 SP1 and applicable hot fixes from Microsoft's web site if needed. The database engine version will be 10.0.2### once SP 1 has been successfully installed.

Reconfiguring SQL Logins

If you don't have a domain password policy, you can skip this section. If your domain has a password policy configured, you must use a password that complies with the policy. After the installation is complete, reset the sa password to **AutodeskVault@26200** and uncheck the **Enforce password policy** check box. It is also necessary to create a SQL login account named **VaultSys**. To create this account:

1. Open the **Microsoft SQL Server Management Studio**.
2. Expand the **Security -> Logins** folder.
3. Right-click on the Logins folder and select **New Login**.
4. Type **VaultSys** for the login name.
5. Select **SQL Server Authentication**.
6. Type **SuperMan769400006!** as the password.

7. **Uncheck** the box for Enforce password policy.

Login Properties - VaultSys

Select a page: General, Server Roles, User Mapping, Securables, Status

Script Help

Login name: VaultSys Search...

☐ Windows authentication

☒ SQL Server authentication

Password:

Confirm password:

☒ Specify old password

Old password:

☒ Enforce password policy

☐ Enforce password expiration

☐ User must change password at next login

☐ Mapped to certificate

☐ Mapped to asymmetric key

☒ Map to Credential

Mapped Credentials

Credential	Provider
------------	----------

Add Remove

Default database: master

Default language: English

OK Cancel

Connection

Server: .\AUTODESKVAULT

Connection: sa

[View connection properties](#)

Progress

Ready

8. Select the **Server Roles** page.
9. Check the boxes next to the following roles:
 - **dbcreator**
 - **processadmin**
 - **setupadmin**
10. Click **OK** to create the account.

Installing SQL Server on a Domain Controller

Referencing the following Microsoft Article:

<http://msdn.microsoft.com/en-us/library/ms143506.aspx>:

Installing SQL Server on a Domain Controller

For security reasons, Microsoft recommends that you do not install SQL Server 2008 on a domain controller. SQL Server Setup will not block installation on a computer that is a domain controller, but the following limitations apply:

- On Windows Server 2003, SQL Server services can run under a domain account or a local system account.
- You cannot run SQL Server services on a domain controller under a local service account or a network service account.
- After SQL Server is installed on a computer, you cannot change the computer from a domain member to a domain controller. You must uninstall SQL Server before you change the host computer to a domain controller.
- After SQL Server is installed on a computer, you cannot change the computer from a domain controller to a domain member. You must uninstall SQL Server before you change the host computer to a domain member.
- SQL Server failover cluster instances are not supported where cluster nodes are domain controllers.
- SQL Server Setup cannot create security groups or provision SQL Server service accounts on a read-only domain controller. In this scenario, Setup will fail.

Upgrading Autodesk data management server 2011 to Full SQL Server

When upgrading to the full version of Microsoft SQL Server, it is assumed the appropriate IT and engineering staff required to allow access to the server and client systems, as well as to allow periodic system restarts are available. It is also recommended that you perform the upgrade in a test environment prior to performing the upgrade on the production environment. The client side systems are needed to verify that the upgrade has been performed successfully.

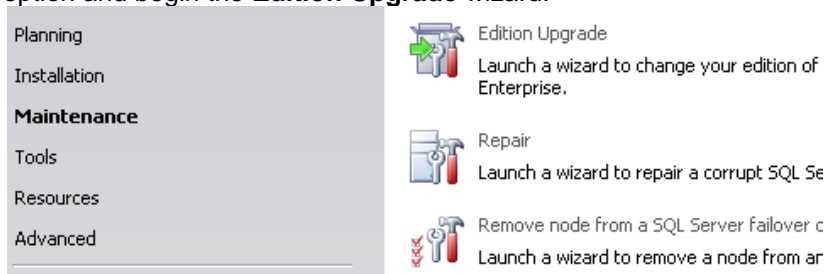
The server upgrade can be performed at any time after Autodesk data management server has been installed. The server may need to be rebooted one or two times during the upgrade process.

During the upgrade, the SQL server instance and the Autodesk Vault Server Services are shut down. Anyone logged into the vault at the time is automatically disconnected. Make sure all users are logged out of the Autodesk data management server. The upgrade will not affect the state of checked out files, nor will it modify the database structure, state of the files, or parent child relationships.

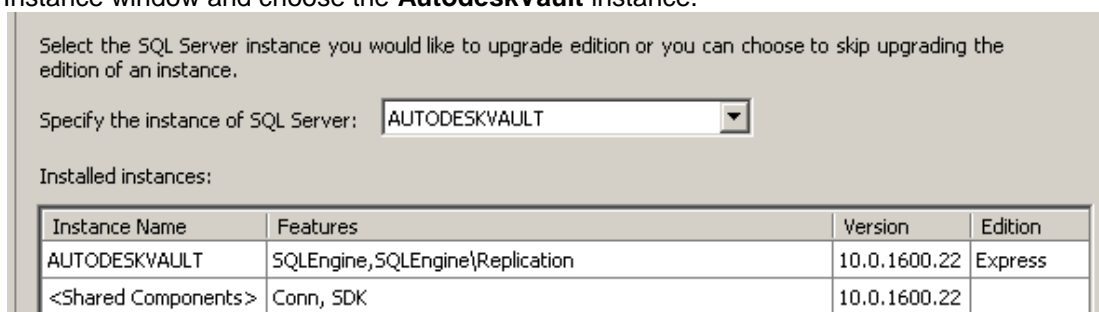
Before upgrading the SQL server, perform a backup from the Autodesk data management server Console application. For more information on backing up data, see the Autodesk data management server console Help.

Upgrading MS SQL Express 2008 to Full MS SQL 2008

1. Launch **Setup** from the Full SQL 2008 installation media. Select the **Maintenance** option and begin the **Edition Upgrade** wizard.



2. Verify version and or product key for Full SQL 2008 and proceed to the Select Instance window and choose the **AutodeskVault** instance.



3. Upgrade the Instance. Once the instance has been upgraded, you can install the SQL Management Studio by returning to the “Installation” option and being the **New SQL Server stand-alone installation or add features to an existing installation** wizard.
4. Download and apply SQL 2008 SP1 if needed.

Upgrading MS SQL 2005 to MS SQL 2008

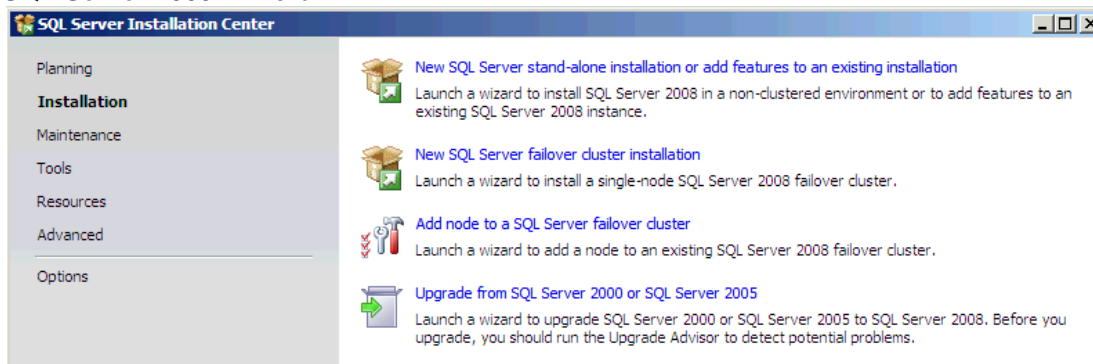
Microsoft does not support migrating directory from MS SQL 2005 Express to MS SQL 2008 Standard or Enterprise. Potential migration paths include upgrading from MS SQL 2005 Express to MS SQL 2005 Full to MS SQL 2008 Full, and MS SQL 2005 to MS SQL 2008 Express to MS SQL 2008 Full. Additional migration paths can be found here:

<http://msdn.microsoft.com/en-us/library/ms143393.aspx> Also note that SQL 2008 may require several restarts to complete installation.

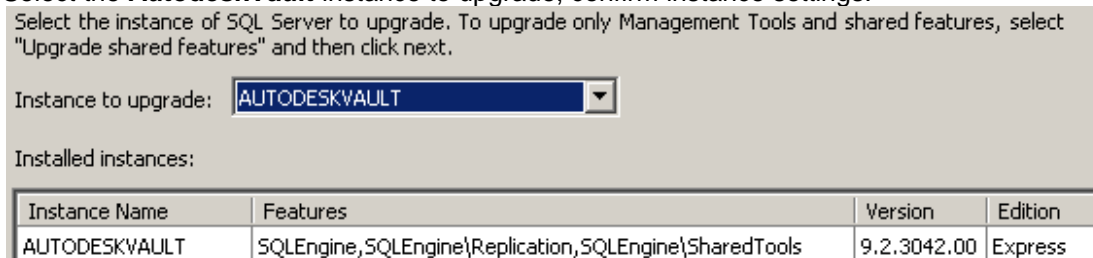
Upgrading from SQL 2005 Express to SQL 2008 Express

1. Download SQL 2008 Express from <http://www.microsoft.com> or insert your SQL 2008 Express installation media. The SQL 2008 Express installer is located on the Vault 2011 installation media under **<MEDIA>\x86\Support\Sql2008Express**. Please note that you may be required to install Windows Installer 4.5 prior to SQL 2008 Express (KB942288).

2. Select the “**Installation**” option and begin the “**Upgrade from SQL server 2000 or SQL Server 2005**” Wizard.



3. Continue through the pre-installation process. Pre-request files and services will be updated. Setup Support Rules will be processed.
4. Select the **AutodeskVault** instance to upgrade, confirm instance settings.



5. **Continue** through Disk Space requirements, Upgrade rules, and Upgrade Process. Setup will complete and upgrade the AutodeskVault SQL instance to SQL 2008 Express.
6. Verify that SQL 2008 SP1 is installed. If it is not, please download and install it from <http://www.microsoft.com>.

Upgrading from SQL 2005 Express to Full SQL 2008

1. Download SQL 2008 Express from <http://www.microsoft.com> or insert your SQL 2008 Express installation media. The SQL 2008 Express installer is located on the Vault 2011 installation media under **<MEDIA>\x86\Support\Sql2008Express**. Please note that you may be required to install Windows Installer 4.5 prior to SQL 2008 Express (KB942288).
2. Select the “**Installation**” option and begin the “**Upgrade from SQL server 2000 or SQL Server 2005**” Wizard.



3. Continue through the pre-installation process. Pre-request files and services will be updated. Setup Support Rules will be processed.

4. Select the **AutodeskVault** instance to upgrade, confirm instance settings.

Select the instance of SQL Server to upgrade. To upgrade only Management Tools and shared features, select "Upgrade shared features" and then click next.


Instance to upgrade: **AUTODESKVAULT**

Installed instances:

Instance Name	Features	Version	Edition
AUTODESKVAULT	SQLEngine,SQLEngine\Replication,SQLEngine\SharedTools	9.2.3042.00	Express


5. **Continue** through Disk Space requirements, Upgrade rules, and Upgrade Process. Setup will complete and upgrade the AutodeskVault SQL instance to SQL 2008 Express.


Information about the Setup operation or possible next steps:


 Your SQL Server 2008 upgrade completed successfully.

6. Launch **Setup.exe** from the Full SQL 2008 installation media. Select the **Maintenance** option and being the **Edition Upgrade** wizard.

Planning
Installation
Maintenance
Tools
Resources
Advanced

 Edition Upgrade
Launch a wizard to change your edition of Enterprise.

 Repair
Launch a wizard to repair a corrupt SQL Se

 Remove node from a SQL Server failover c
Launch a wizard to remove a node from ar

7. Verify version and or product key for Full SQL 2008 and proceed to the Select Instance window and choose the **AutodeskVault** instance.

Select the SQL Server instance you would like to upgrade edition or you can choose to skip upgrading the edition of an instance.

Specify the instance of SQL Server: **AUTODESKVAULT**

Installed instances:

Instance Name	Features	Version	Edition
AUTODESKVAULT	SQLEngine,SQLEngine\Replication	10.0.1600.22	Express
<Shared Components>	Conn, SDK	10.0.1600.22	

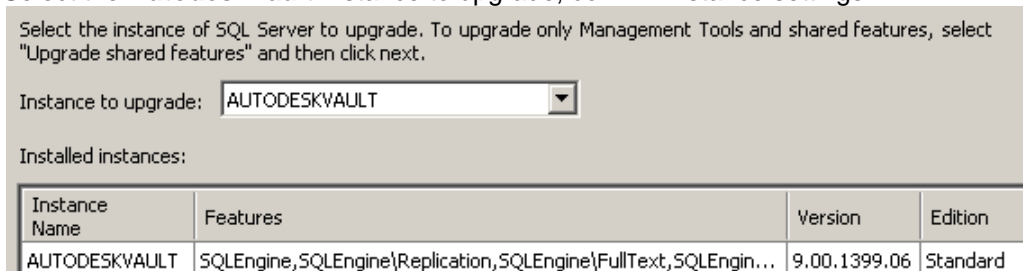
8. Upgrade the Instance. Once the instance has been upgraded, you can install the SQL Management Studio by returning to the "Installation" option and being the "New SQL Server stand-alone installation or add features to an existing installation" wizard.
9. Verify that SQL 2008 SP1 is installed. If it is not, please download and install it from <http://www.microsoft.com>.

Upgrading from Full SQL 2005 to Full SQL 2008

1. Select the **Installation** option and begin the **Upgrade from SQL server 2000 or SQL Server 2005 Wizard**.



2. Continue through the pre-installation process. Pre-request files and services will be updated. Setup Support Rules will be processed.
3. Select the **AutodeskVault** instance to upgrade, confirm instance settings.



4. **** Please note, if you do not see the “Database Engine Services” listed as a component to be migrated, you are not following an accepted migration path.** Acceptable migration paths are listed here <http://msdn.microsoft.com/en-us/library/ms143393.aspx>



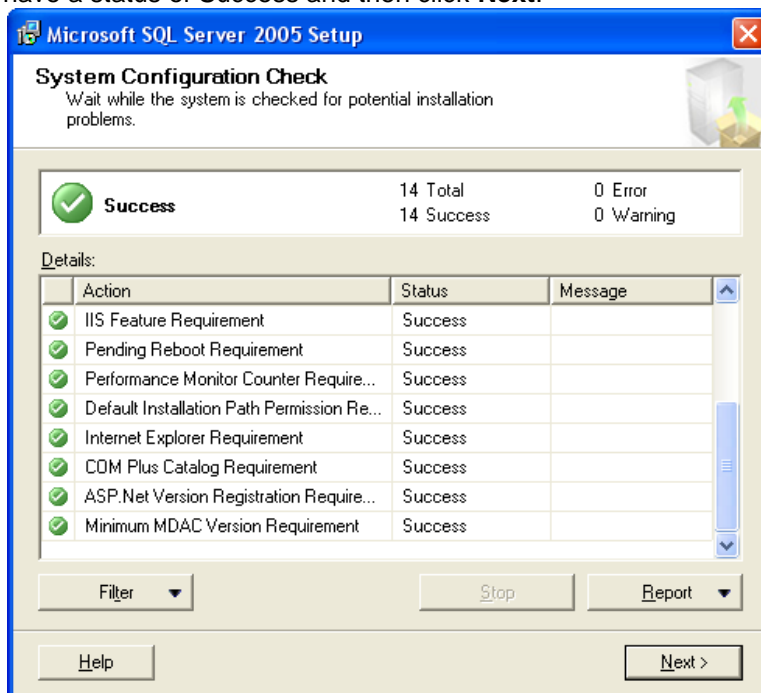
5. Continue through Disk Space requirements, Upgrade rules, and Upgrade Process. Setup will complete and upgrade the AutodeskVault SQL instance to Full SQL 2008.
6. Verify that SQL 2008 SP1 is installed. If it is not, please download and install it from <http://www.microsoft.com>.

Upgrading MS SQL 2005 Express to Full MS SQL 2005

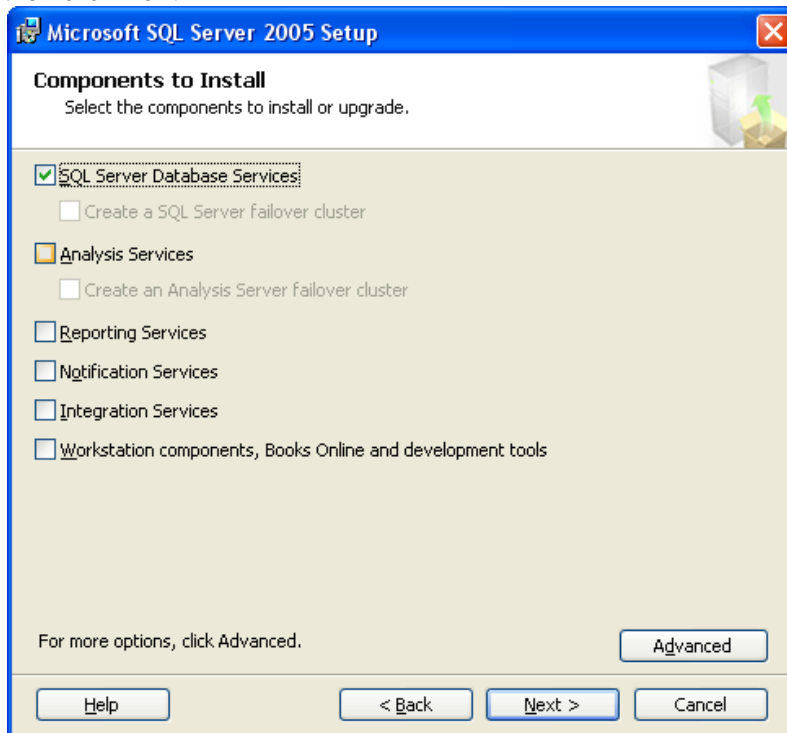
7. Insert your MS SQL 2005 installation disc into the drive and start the installation wizard. It installs the required pre-requisites first then begins the installation process.



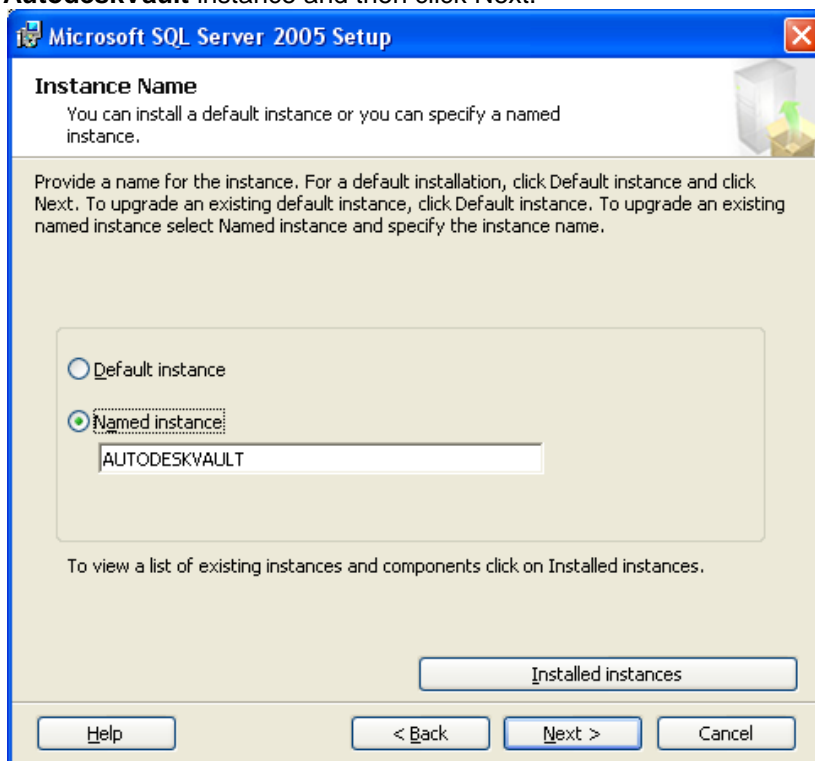
8. Click **Next**. The wizard performs a system configuration check. Verify that all checks have a status of Success and then click **Next**.



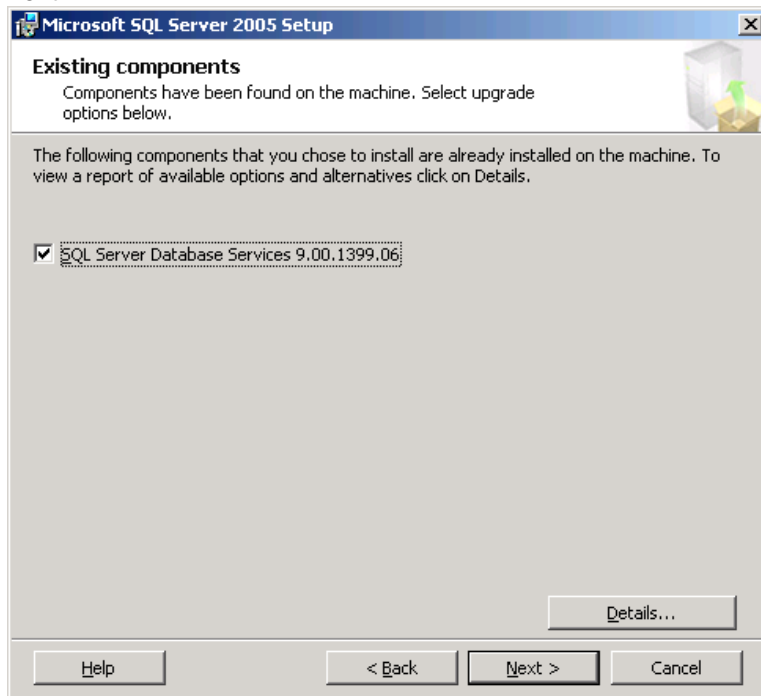
9. In the Components to Install dialog, check the **SQL Server Database Services** and then click **Next**.



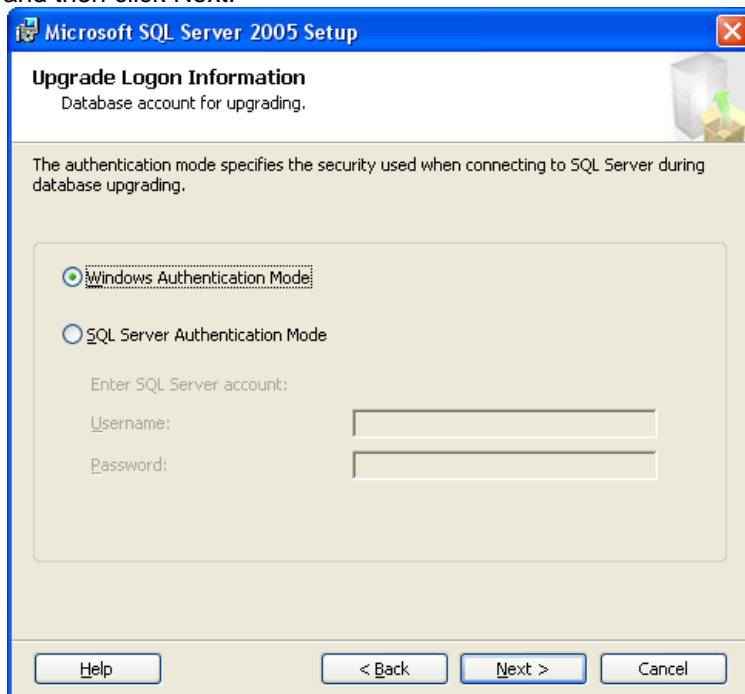
10. In the Instance Name dialog, select the **Named instance** radio button and type **AutodeskVault** or you can select the Installed instances button and select the **AutodeskVault** instance and then click Next.



11. The Existing components dialog lists the SQL Server Database Services that are going to upgrade. **Check** the box next to the **SQL Server Database** and then click Next.

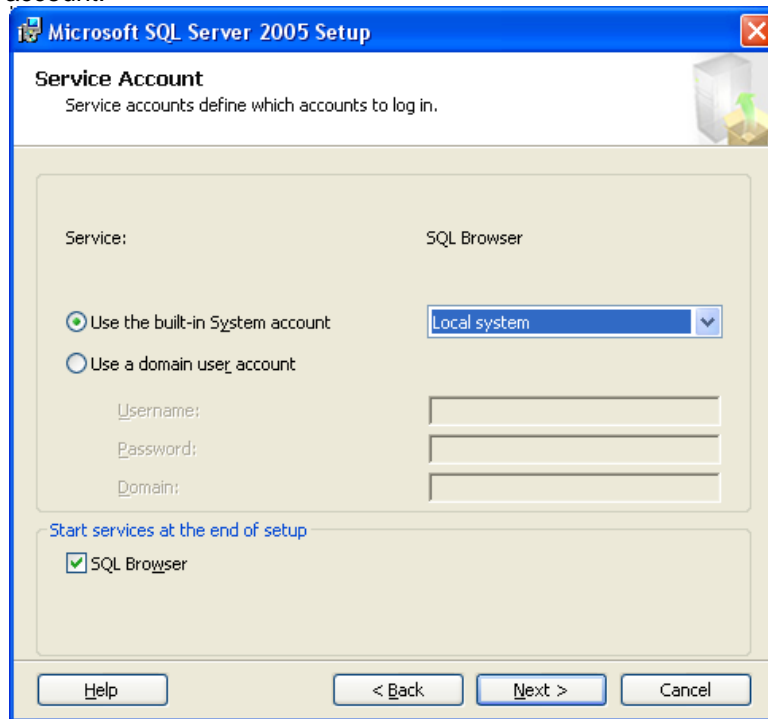


12. The Upgrade Logon Information dialog prompts you for an account that will be used to perform the upgrade. You should be logged in with an account that has local Administrative privileges on the server. Select the **Windows Authentication Mode** and then click Next.

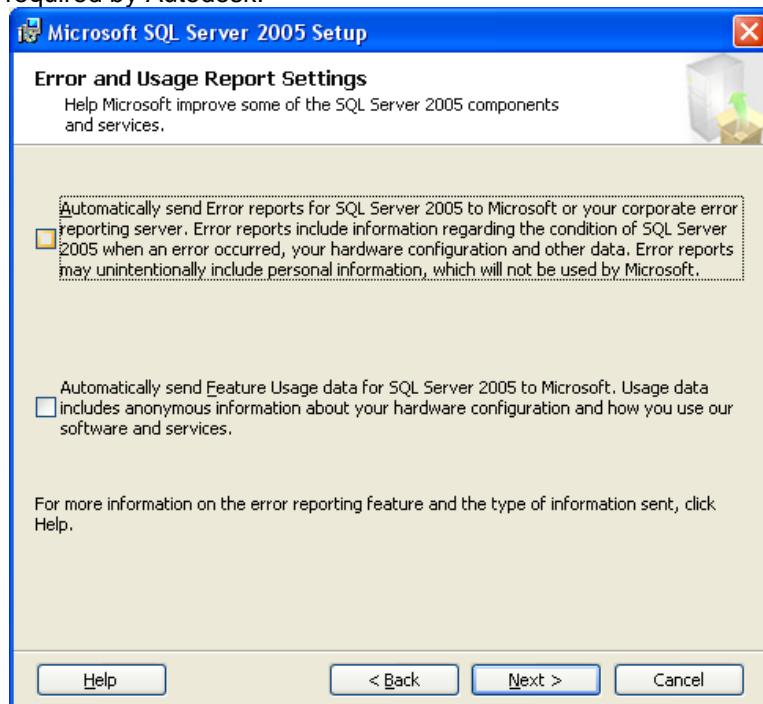


13. In the Service Account dialog, select either a built-in System account or a domain user account to run the SQL Browser. Click Next.

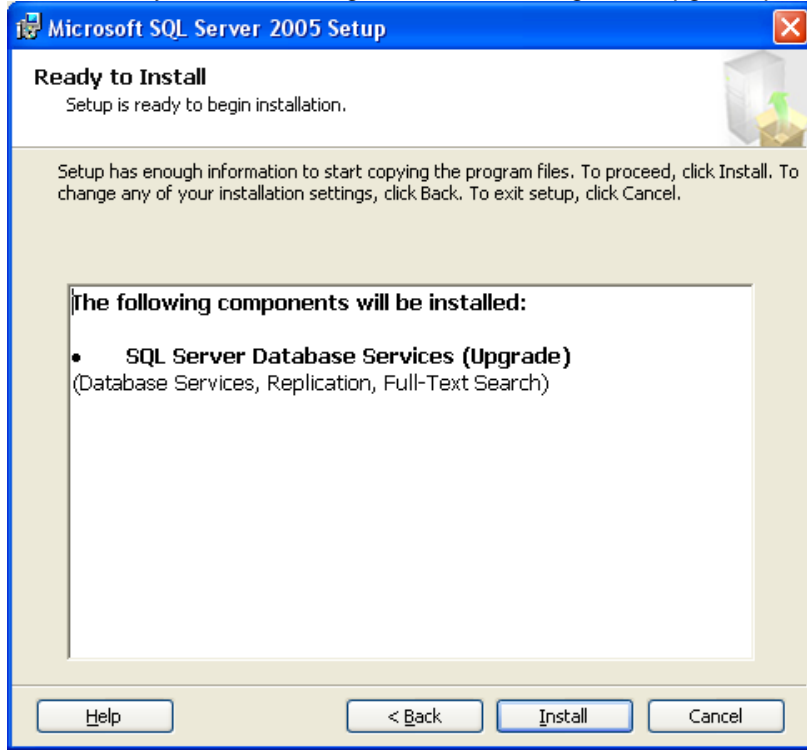
Note: If you were previously using a user account to run the SQL Server Service, select Use a domain user account radio button and fill in the required fields with that account.



14. The Error and Usage Report Settings dialog displays optional settings that are not required by Autodesk.



15. On the Ready to **Install** dialog, click Install to begin the upgrade process.



16. Download and install MS SQL 2005 SP3 from Microsoft's web site, if needed.

Note: For optimum performance, create a SQL Maintenance Plan after performing this upgrade. Follow the steps in the [Creating a SQL Maintenance Plan](#) section.

Upgrading MS SQL 2005 Express SP2 or higher to full MS SQL Server 2005 SP3

To upgrade a SQL Express 2005 SP2 installation to a full version of SQL 2005, using a disc which doesn't include a service pack, SP2 or higher, you can use one of the following methods:

Note: An Autodesk data management server console backup is recommend prior to performing either of these methods.

Method 1

1. Open a command prompt and navigate to the directory where the full version of SQL setup is located.
2. Type **SETUP.EXE SKUUPGRADE=1**" (this is case sensitive).
3. Start the upgrade and select the **AutodeskVault** instance.
4. After the upgrade is complete, apply SQL Service Pack 3.

Method 2

1. Create a full backup of your vault using the Autodesk data management server Console.

Note: In later steps you will be deleting all of your vault databases. You should validate that this backup is able to be restored on a test server before proceeding. **Do not continue if your test restore fails.** Correct any problems you have with the backup prior to continuing these steps.

2. After the test restore is successful, open the Autodesk data management server Console and delete all vaults and libraries listed. Then select Detach Master Vault from the Tools menu.
3. Make sure all users are logged out of the vault.
4. Completely uninstall SQL 2005 Express. This includes the following applications in this order:
 - a. Microsoft SQL Server 2005

Note: If you have more than one instance of SQL Express installed, be sure to only uninstall the AutodeskVault instance and DO NOT uninstall any other part of SQL after this step is complete.
 - b. MS SQL Server Native Client
 - c. MS SQL Server VSS Writer
 - d. MS SQL Server 2005 Backward Compatibility
 - e. MS SQL Server Setup Support Files
5. Delete the SQL Express folders from Program Files (including data files). If your Vault databases are located on a different drive, be sure to delete the files in this location as well. ****Do this ONLY if you are not using any other SQL Express instances.**
6. Install the full version of SQL 2005 with an AUTODESKVAULT instance as in the **Install MS SQL Server Prior to Installing Autodesk data management server** section.
7. Install Microsoft SQL 2005 SP3.
8. Restore the backup that you created in step 1 using Autodesk data management server Console.

If you have any difficulty removing the MS SQL Express instance, refer to Microsoft Knowledgebase article 909967 to help manually remove this instance.

Note: For optimum performance, create a SQL Maintenance Plan after performing this upgrade. Follow the steps in the [Creating a SQL Maintenance Plan](#) section.

Assigning SQL a custom TCP/IP Port

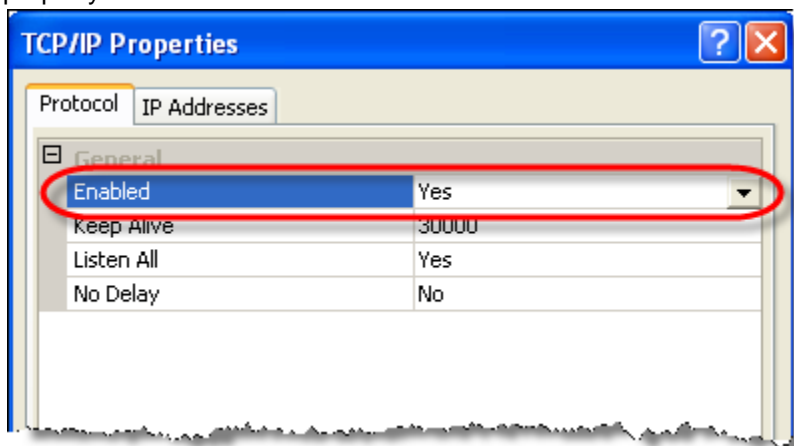
This section outlines the steps to set SQL to a non-standard TCP/IP port.

SQL Server 2008

1. Install full SQL Server 2008 as per the Advanced Configuration Guide.
2. On the server where SQL is installed, start the **SQL Server Configuration Manager**.
3. In the SQL Server Configuration Manager dialog, expand the **SQL Server Network Configuration** and select **Protocols for AUTODESKVAULT**.
4. In the right pane double-click on the **TCP\IP** protocol to open its properties.
5. In the TCP\IP Properties dialog, select the **Protocol** tab and change the Enabled property to **Yes**.
6. Select the **IP Addresses** tab.
7. Scroll down to the bottom of the dialog until you get to the **IPAll** section.
8. Change the TCP Port field to the port you desire.
9. Apply your changes and select **OK** to close the TCP\IP Properties dialog.
10. In the SQL Server Configuration Manager dialog, select the **SQL Server Services** section in the left pane.
11. Select **SQL Server (AutodeskVault)** in the right-pane, right-click on it and select **Restart**.

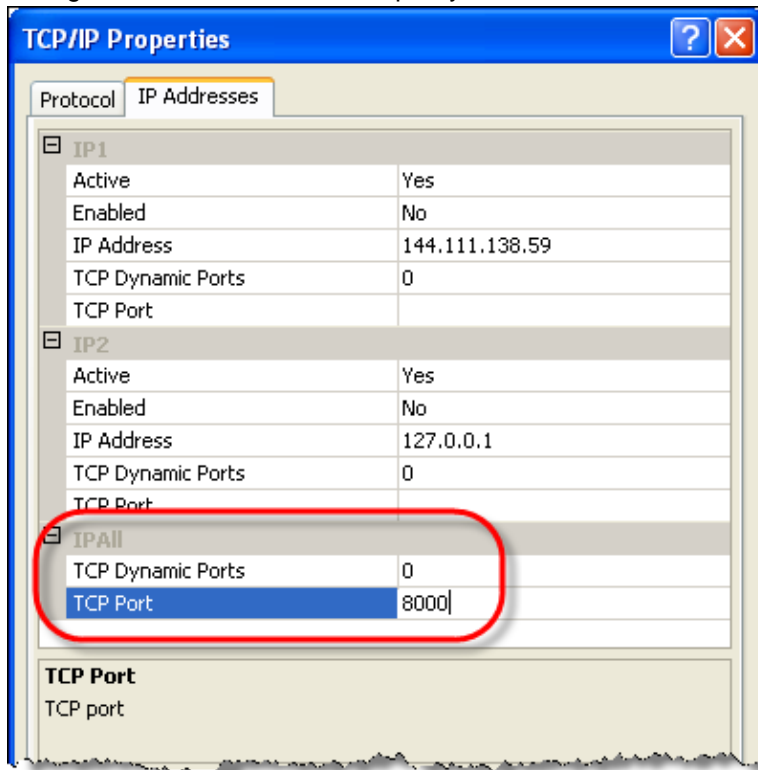
SQL Server 2005

1. Install full SQL Server 2005 as per the Advanced Configuration Guide.
2. On the server where SQL is installed, start the **SQL Server Configuration Manager**.
3. In the SQL Server Configuration Manager dialog, expand the **SQL Server 2005 Network Configuration** and select **Protocols for AUTODESKVAULT**.
4. In the right pane double-click on the **TCP\IP** protocol to open its properties.
5. In the TCP\IP Properties dialog, select the **Protocol** tab and change the Enabled property to **Yes**.



6. Select the **IP Addresses** tab.
7. Scroll down to the bottom of the dialog until you get to the **IPAll** section.

8. Change the TCP Port field to the port you desire.

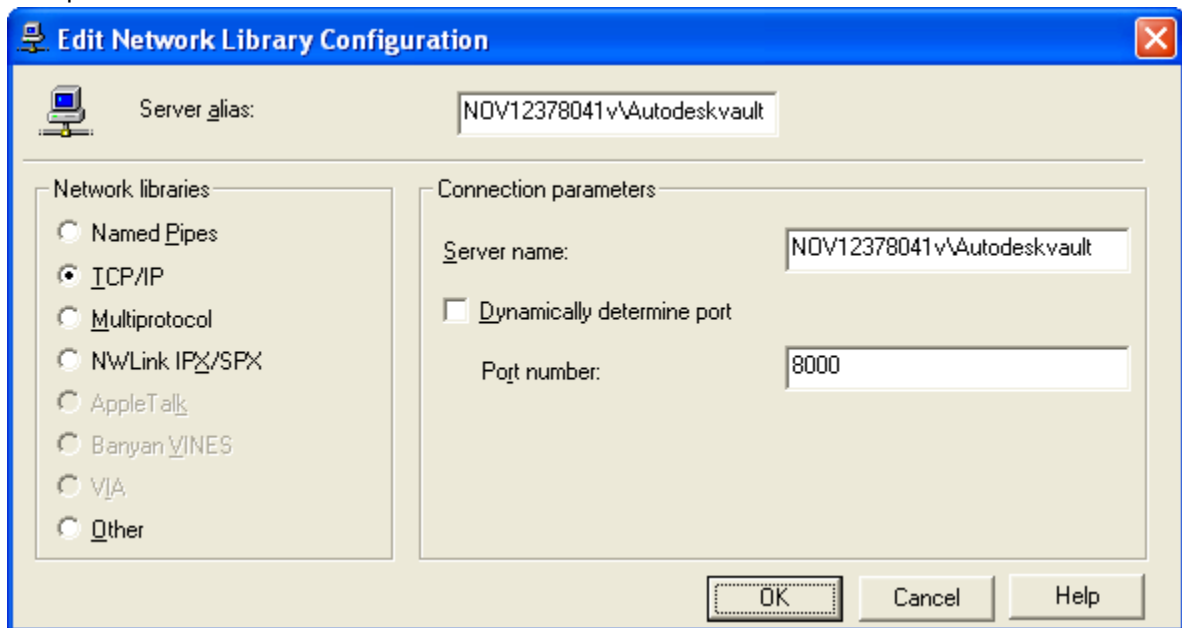


9. Apply your changes and select **OK** to close the TCP\IP Properties dialog.
10. In the **SQL Server Configuration Manager** dialog, select the **SQL Service 2005 Services** section in the left pane.
11. Select **SQL Server (AutodeskVault)** in the right-pane, right-click on it and select **Restart**.

Autodesk data management server

1. Run C:\Windows\System32\cliconfig from and the **SQL Server Client Network Utility**.
2. In the **SQL Server Client Network Utility** dialog, select the **Alias** tab.
3. In the **Alias** tab, select the **Add** button.
4. In the **Edit Network Library Configuration** dialog, select **TCP/IP** under Network Libraries.
5. In the **Server alias** box type the name of the server where SQL is installed along with the instance name.

6. **Uncheck** the **Dynamically** determine port and enter the port number you configured in step 8 above.



7. Click the **OK** button to apply the settings.
8. **Start** your Autodesk data management server **installation**.

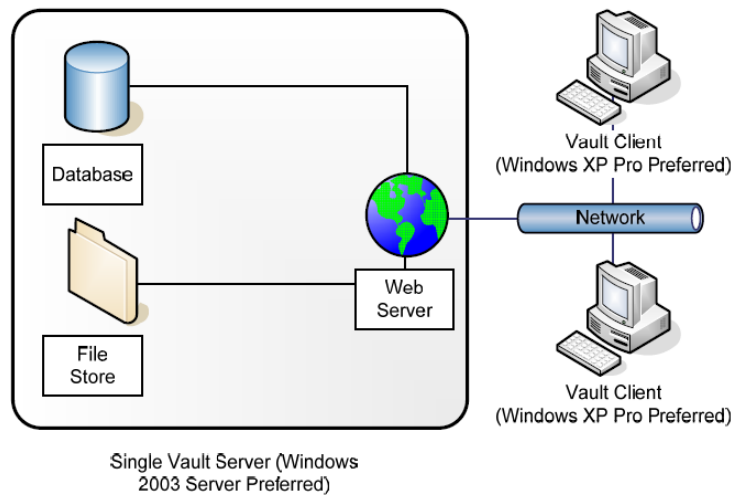
SQL Maintenance Plans

This section has been moved to the Autodesk Vault Wiki "[Perform Vault Maintenance](#)"

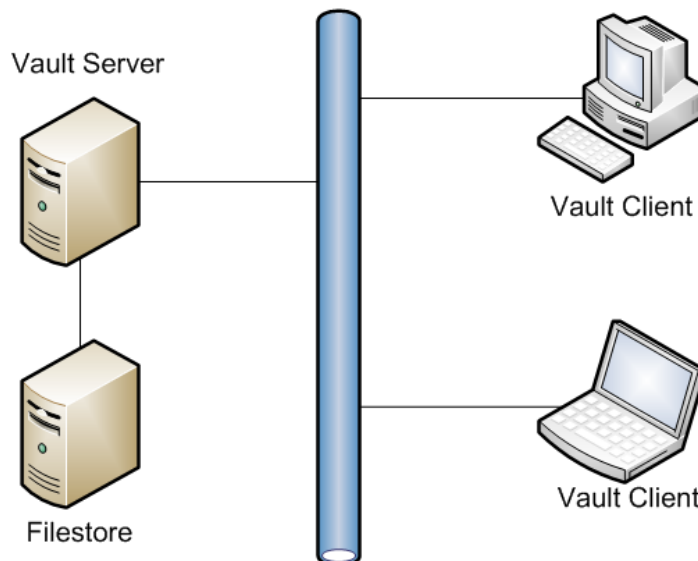
Managing a remote file store

To move the location of your file store to a mapped drive or remote shared location:
The vault supports two basic file store configurations:

1. File store located on the Autodesk data management server.



2. File store located on a remote file server that has a shared folder.



A remote file server can be used for hosting the file store and/or backing up and restoring vault data. This section describes the steps required to configure a remote file store.

Moving the file store to a mapped drive or remote share

For simplicity purposes, the computer hosting Autodesk data management server is called **DMMachine** and the computer hosting the remote file store is called **FSMachine**. The domain name is **MyDomain**. We are also assuming that the server where Autodesk data management server is installed is a member server and not a domain controller.

If you have the Autodesk data management server installed on a domain control, the AutodeskVault domain account is used and you can go the Moving the File Store section below.

Create a new domain user account.

1. Open the Active Directory Users and Computers and select an Organizational Unit (OU) to create the account in.
2. Create an account named AutodeskRemote. Set the password to match your domain password policy and set the password to never expire.

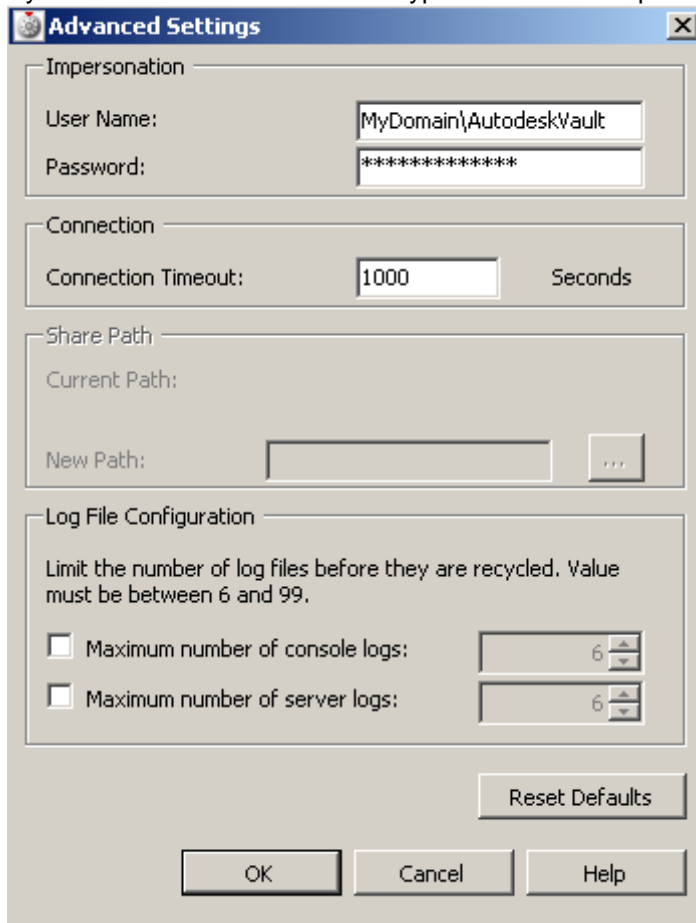
Create a remote share.

1. Open Windows Explorer on the FSMachine and create a directory called VaultData.
2. Right-click on the folder and select Properties.
3. Go to the Sharing tab and create a new share named VaultData.
4. Click Permissions and set the AutodeskRemote, Network Service, and System user to Full Control.
5. Click OK in the Permissions for Share dialog box.
6. Go to the Security tab and add the AutodeskRemote account and set it to Full Control permission.

Setting the new account in the Autodesk data management server Console

1. On the DMMachine, open the Autodesk data management server Console.
2. From the File menu, select Stop Web Service.
3. Select Tools > Administration.
4. In the Advanced Settings tab select the Settings button next to Advanced Configuration settings.

5. In the Advanced Settings dialog, change the User Name to MyDomain\AutodeskRemote and type in the selected password.



The image shows the 'Advanced Settings' dialog box with the following sections:

- Impersonation**
 - User Name: MyDomain\AutodeskVault
 - Password: *****
- Connection**
 - Connection Timeout: 1000 Seconds
- Share Path**
 - Current Path:
 - New Path: [Empty text box] [Browse button]
- Log File Configuration**
 - Limit the number of log files before they are recycled. Value must be between 6 and 99.
 - ☐ Maximum number of console logs: 6
 - ☐ Maximum number of server logs: 6

Buttons at the bottom: OK, Cancel, Help, and a 'Reset Defaults' button above them.

6. Apply the changes and then click OK.

Moving the vault file store

1. Select the vault which you would like to move to a different location.
2. Select Actions > Move File Store.
3. Set the New File Store Location field to [\\FSMachine\VaultData](#).
4. Click OK.

Reconfigure IIS Worker Process and Application Pool

IIS 6

1. Open the Active Directory Users and Computers and select an Organizational Unit (OU) to create the account in.
2. Create an account named **AutodeskID**. Set the password to match your domain password policy
3. Make the **AutodeskID** account a member of the **IIS_WPG** local group on DMMachine.
4. Give AutodeskID account Full Control permissions to the **%SystemRoot%\Temp** directory on DMMachine.
5. Give the AutodeskID account Full Control permissions to the [\\FSMachine\VaultData](#) remote file store directory.
6. Open Internet Information Services (IIS) Manager and create a new Application Pool named **AutodeskAppPL**.
7. Open the properties of the AutodeskAppPL Application Pool and go to the **Identity** tab.
8. Add the domain account AutodeskID, set the password and apply the changes.
9. Expand the Default Web Site and navigate to the AutodeskDM\Services virtual directory.
10. Right-click on the Services directory and go to the **Directory** tab.
11. Change the Application Pool pull-down to the newly created **AutodeskAppPL** Application Pool.
12. Apply the changes and close the properties of the Default Web site.
13. Close the IIS Manager.
14. Open a Command prompt and type **IISRESET**.
15. Add new files to the vault and verify that the properties are able to be indexed.

IIS 7

1. Open the Active Directory Users and Computers and select an Organizational Unit (OU) to create the account in.
2. Create an account named **AutodeskID**. Set the password to match your domain password policy
3. Make the **AutodeskID** account a member of the **IIS_WPG** local group on DMMachine.
4. Give AutodeskID account Full Control permissions to the **%SystemRoot%\Temp** directory on DMMachine.
5. Give the AutodeskID account Full Control permissions to the [\\FSMachine\VaultData](#) remote file store directory.
6. Right click on the Application Pools and select Add Application Pool.
7. In the Add Application Pool dialog, name the application pool **AutodeskAppPL** and keep the other options at their default.
8. In the Applications Pool listing, find your newly created application pool and right click on it.
9. Select the Advanced Settings.

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10. Under Process Model, Select Identity and change the Identity to use the Domain account (AutodeskID) that you created earlier.
11. Expand the Default Web Site and navigate to the AutodeskDM\Services virtual directory.
12. Right-click on the Services directory and select Manage Application -> Advanced Settings.
16. Change the Application Pool to the newly created **AutodeskAppPL** Application Pool.
17. Apply the changes and close the properties of the Default Web site.
18. Close the IIS Manager.
19. Open a Command prompt and type **IISRESET**.
13. Add new files to the vault and verify that the properties are able to be indexed

Installing Autodesk data management server 2011 on Windows Vista™ and Windows 7

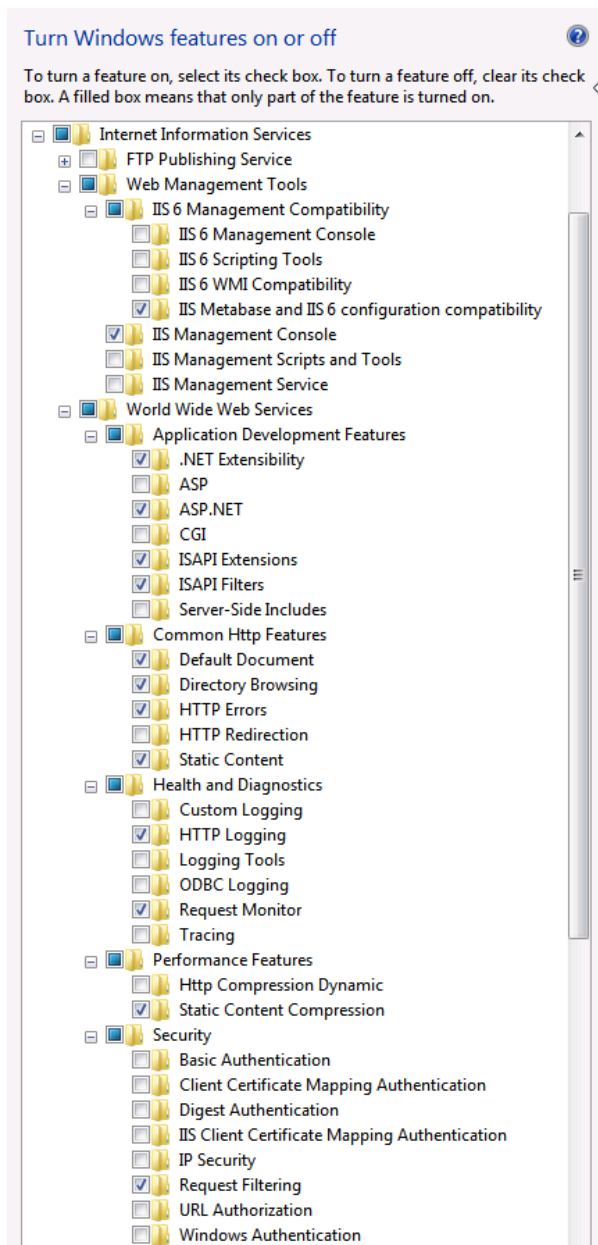
Note: IIS 7.0 has a limit of 10 simultaneous requests on non-server OS editions. When the connection limit is reached, the request is queued until the number of currently processing requests drops below the limit. IIS then will take the first request in the queue and starts to process it. Previous versions of IIS would return an **Error 403.9 Access Forbidden – Too many users are connected**.

Configuring Internet Information Services (IIS) 7.0

If you will be using Microsoft® Internet Information Services (IIS) 7.0 with Autodesk data management server, IIS 7.0 may be configured before you install Autodesk data management server. IIS 7.0 can be installed by the Autodesk data management server 2011 installation process as well. If you are installing IIS 7.0 manually, follow the steps below to configure the system options:

Windows Vista / 7








































1. From the Windows Start menu select **Settings > Control Panel**.
2. In the Control Panel, double-click **Programs and Features**.
3. In the **Programs and Features** group, click **Turn Windows Features On or Off**.
4. If prompted to allow the application to run, click **Continue**.
5. Select the following options underneath **Internet Information Services**:
IIS Metabase and IIS 6 configuration compatibility; **IIS Management Console**;
.NET Extensibility; **ASP.NET**; **ISAPI Extensions**; **ISAPI Filters**; **Default Document**; **Directory Browsing**; **HTTP Errors**; **Static Content**; **HTTP Logging**;
Request Monitor; **Static Content Compression**; **Request Filtering**.



Windows 2008 / 2008 R2

1. From the Windows Start menu select **Server Manager**.
2. Under **Roles Summary** select **Add Role**.
3. Select **Web Server (IIS)** and add the following **Roles**:

Role Services: 22 installed

Role Service	Status
 Web Server	Installed
 Common HTTP Features	Installed
 Static Content	Installed
 Default Document	Installed
 Directory Browsing	Not installed
 HTTP Errors	Installed
 HTTP Redirection	Not installed
 Application Development	Installed
 ASP.NET	Installed
 .NET Extensibility	Installed
 ASP	Not installed
 CGI	Not installed
 ISAPI Extensions	Installed
 ISAPI Filters	Installed
 Server Side Includes	Not installed
 Health and Diagnostics	Installed
 HTTP Logging	Installed
 Logging Tools	Not installed
 Request Monitor	Installed
 Tracing	Not installed
 Custom Logging	Not installed
 ODBC Logging	Not installed
 Security	Installed
 Basic Authentication	Not installed
 Windows Authentication	Installed
 Digest Authentication	Not installed
 Client Certificate Mapping Authentication	Not installed
 IIS Client Certificate Mapping Authentication	Not installed
 URL Authorization	Not installed
 Request Filtering	Installed
 IP and Domain Restrictions	Not installed
 Performance	Installed
 Static Content Compression	Installed
 Dynamic Content Compression	Not installed
 Management Tools	Installed
 IIS Management Console	Installed
 IIS Management Scripts and Tools	Not installed
 Management Service	Not installed
 IIS 6 Management Compatibility	Installed
IIS 6 Metabase Compatibility	Installed
IIS 6 WMI Compatibility	Not installed
IIS 6 Scripting Tools	Not installed
IIS 6 Management Console	Not installed

User Account Control

If you plan to schedule automatic backups using ADMS Console, the User Account Control settings in Windows Vista \ 7 \ 2008 \ 2008 R2 must be configured to allow applications to run without prompting for administrator permission. **Note:** Configuring the following settings will affect all of the applications on your computer. All applications will be run without prompting for administrator approval.

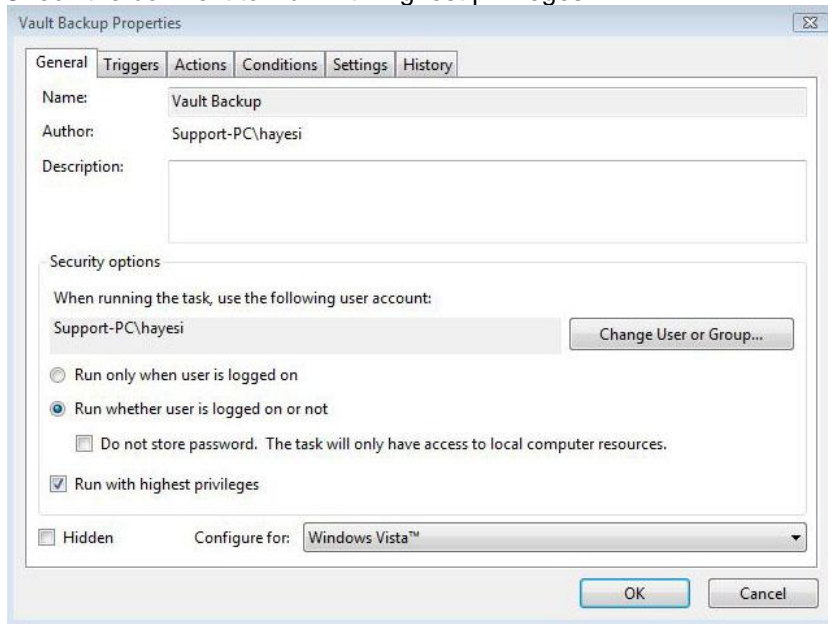
1. From the Windows Start menu, type **Run**.
2. In the Run dialog box, enter **secpol.msc**. Click OK.
3. When you are prompted to allow the security policy application to run, click Continue.
4. In the **Local Security Policy** dialog box, expand:-
 - a. **Security Settings**
 - **Local Policies**
 - **Security Options**
5. Locate the **User Account Control: Behavior of the Elevation Prompt for Administrators** policy and right-click it.
 - a. Click **Properties**.
 - Select **Elevate without Prompting**, and then click OK.
6. Locate the **User Account Control: Run All Administrators in Admin Approval Mode** policy and right-click it.
 - a. Click **Properties**.
7. Select **Disable**, and then click OK

Additionally, portions of the UAC can be disabled through control panel.

Configuring Automatic Backups

To configure automatic backups perform the following steps:

1. Open the **Task Scheduler** in the **Administrative Tools** of the Control Panel.
2. Create a **Basic Task** and fill in the necessary information in the dialog box and select the batch file you created for the backup.
3. When you get to the Summary dialog, check the box next to Open the Properties dialog for this task when I click Finish.
4. In the General tab of the task you just created, select the radio button next to Run whether user is logged on or not.
5. Check the box next to Run with highest privileges.



The following is an example of a backup script you can use for a local SQL Server.

```
@ECHO OFF
REM PROVIDING THE BEST RESULTS FOR BACKING UP THE VAULT
REM DELETE B AND CASCADE A BACKUP SUBDIRECTORIES
RMDIR /Q /S "C:\Backup\Vault\B"
REN C:\Backup\Vault\A B
REM CREATE A NEW DIRECTORY FOR THE BACKUP
MKDIR "C:\Backup\Vault\A\"
REM START THE BACKUP PROCESS (THIS IS ONE LINE OF TEXT)
"C:\Program Files\Autodesk\ADMS 2011\ADMS Console\Connectivity.ADMSConsole.exe" -
Obbackup -B"C:\Backup\Vault\A" -VUadministrator -VP<password> -S
NET STOP MSSQL$AUTODESKVAULT
NET START MSSQL$AUTODESKVAULT
```

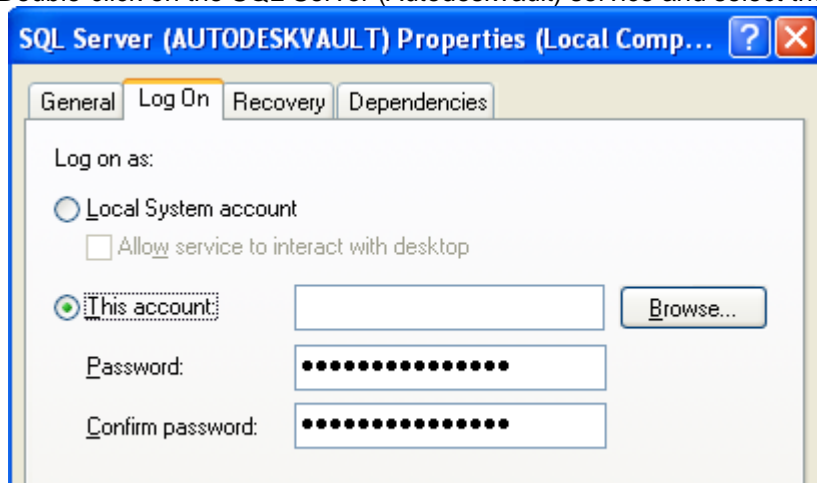
Note: Unlike previous versions of Autodesk data management server, you no longer need to stop the web services before you perform a backup. You can also use the **-DBSC** switch in the Autodesk data management server Console line to exclude the standard content libraries from being backed up during this process.

Setting up a remote backup location

If you plan to back up your vault data to a remote share, follow the steps in the [Creating a new domain user account](#), [Create a remote share](#) and [Setting the new account in the Autodesk data management server Console](#) sections in this document. After that is complete, you will have to modify the SQL Service to use a domain account using the following steps:

Note: The new domain account created for these steps needs to be added to the default SQL users group for the AutodeskVault instance. The group created by SQL 2005 is called SQLServer2005MSSQLUser\$<computername>\$AUTODESKVAULT.

1. Double-click the Services icon in the Administrative Tools in the Control Panel
2. Double-click on the SQL Server (Autodeskvault) service and select the Log On tab.



3. Select the This Account radio button and enter a domain account in the form of Domain_Name\Domain_account (with the correct password).

NOTE: If you change the service's login credentials, you will be prompted to restart the MS SQL Server service. Please do so for changes to take effect. In addition, ensure that clients are not using the Autodesk data management server before restarting SQL Server."

4. Verify that the account specified has write access on the share to which you are backing up.

Configuring a remote Vault connection using FQDN

To configure the Vault Server to allow remote connections over the internet using a Fully Qualified Domain Name (FQDN):

1. Create a DNS "A" or host record for your current FQDN with your ISP.
2. Install Autodesk data management server on your server and verify that it works properly.
3. On your server, open the Internet Information Services Manager and expand the Websites folder.
4. Right-click on the website that contains the AutodeskDM virtual directory. Click Properties.
5. In the Properties dialog box, click the Website tab.
6. On the Website tab, click Advanced.
7. In the Advanced Website Identification dialog box, under the Multiple identities for the website, click Add.
8. In the Add/Edit Web Site Identification dialog box, select the correct IP address that will interact with the website.
9. Enter the TCP port you want to use. If this is not port 80, then your clients will have to add ":-<port#>" at the end of the FQDN in order for the connection to work.
10. In the Host Header value, enter the FQDN.
11. Click OK to close each dialog box.

Note: Additional settings may be required for your router or firewall. Check with your IT department for the necessary changes.

How to increase the timeout values on the Autodesk data management server

As the vault database increases in size, you may have to modify some timeout values on the server to allow for the server to process more data. Increase the timeout values for client and server functions:

1. Open Windows Explorer and navigate to the **C:\Program Files\Autodesk\ADMS Product 2011\Server\Web\Services** directory.
2. Create a backup copy of the **Web.config** file.
3. Open the **Web.config** file with Notepad and look for the following line:

```
190 <timeouts connection="120" defaultCommand="360" longCommand="1800" />
```

Note: these values may be different, depending on the size of the vault and the speed of the server it is installed on. Higher values may be necessary.

4. **Save** the Web.config file.
5. Open a command prompt and type **IISRESET**.

Note: If you increase the defaultCommand value higher than **1000**, you must increase the **executionTimeout** value to an equal or higher value. This is found on the following line:

```
171 <httpRuntime maxRequestLength="51200" executionTimeout="1000" />
```

Running Autodesk data management server with SSL

Setting up the Autodesk data management server to use SSL (Secure Socket Layer) is a two step process.

1. On the DM Server machine, install the certificate and setup the website SSL preferences.
2. Verify that the clients can communicate properly with SSL.

Configuring the DM Server machine

It is outside of the scope of this document to instruct you how to setup SSL under IIS. For more information, visit the following web resources. Note that some steps may be different depending upon the version of Windows that you are currently using.

- Obtaining Server Certificates -
<http://technet2.microsoft.com/WindowsServer/en/library/86120d58-f2c2-4a1b-8b70-8bee6a5227981033.mspx?pf=true>
* When creating the certificate, you will need to specify the Common Name for your web site. If your Vault will be accessible from the Internet, use the FQDN (Fully Qualified Domain Name) as the common name (ex. vault.abccorp.com). If you are connecting internally only, you can use the computer name of the DM server as the common name.
- Installing the Server Certificate -
<http://technet2.microsoft.com/WindowsServer/en/library/36d88d14-7dad-4168-a342-58aee9b536021033.mspx?pf=true>

By default, the Autodesk data management server installer does not configure the AutodeskDM Virtual Directory to require SSL. After the certificate has been installed on the Default Web Site, users are able to login to the Autodesk data management server using both secured and unsecured connections.

Unsecured logins can be accomplished by using localhost, 127.0.0.1, machine name or IP address in the server field of the login dialog.

Secured logins must use the common name to which the certificate was issued.

If Vault Web Client is installed on the server, clients will need to access it from their web browser with `https://servername/AutodeskDM/Webclient`.

Configure the AutodeskDM Virtual Directory to require SSL Access

NOTE: The following procedure uses the Internet Information Services Manager to configure the AutodeskDM Virtual Directory to require SSL for access.

1. Log into the computer hosting the Data Management Server as a local or domain administrator.
2. From the Start Menu, select Settings > Control Panel.
3. Double-click Administrative Tools, and then double click Internet Information Services.
4. Click Web Sites under your server name.
5. Select the Default Web Site and expand it. This web site must have the certificate you created installed to it.
6. Right-click the AutodeskDM virtual directory and click Properties.
7. Select the Directory Security tab.
8. Click Edit under Secure Communications.

NOTE: If the View Certificate button is unavailable, the certificate that you created has not been installed on the AutodeskDM Virtual Directory's parent web site. Install a certificate before continuing with the rest of this process.

9. Click Require secure channel (SSL). Clients browsing to this directory must now use HTTPS.
10. Click OK.
11. Click OK.
12. If the Inheritance Overrides dialog is displayed, click Select All and then click OK. The new security settings are applied to all subdirectories of the AutodeskDM virtual directory.
13. Close the Internet Information Services Console.

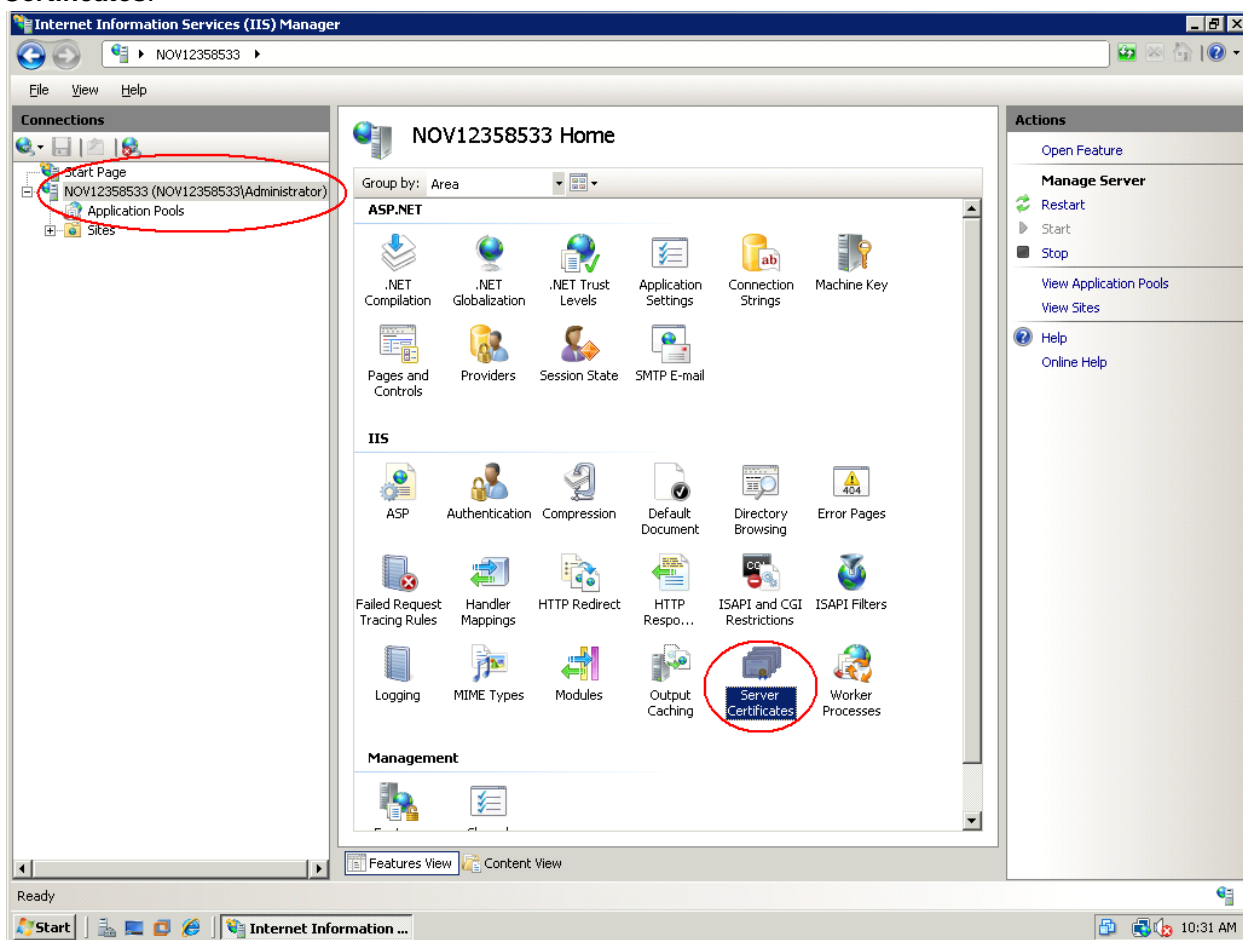
Configure IIS 7.0 with an SSL Certificate.

Configure the Server.

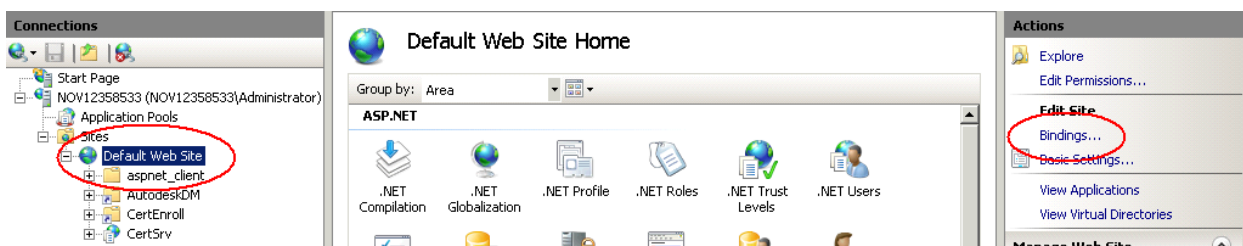
NOTE: The following procedure uses the Internet Information Services (IIS) Manager to configure IIS7 to require SSL for access.

1. Log into the computer hosting the Data Management Server as a local or domain administrator.
2. From the Start Menu, select **Control Panel**.
3. Double-click the **Administrative Tools**, then double click the **Internet Information Services (IIS) Manager**.

4. Select the IIS server listed on the left hand pane, and then double-click **Server Certificates**.



5. If you already have a certificate from a Certificate Authority, you can **Import** your certificate by using the **Actions** pane on the right hand side of the **Server Certificates** window. You can also create a **Self-Signed Certificate** from the **Actions** pane.
NOTE: The remainder of this document outlines using a Self-Signed Certificate named **AutodeskDM**.
6. Select **Create Self-Signed Certificate**. Name the certificate **AutodeskDM**, click **OK**.
7. Expand the **Sites** tree and select the website that is hosting the AutodeskDM virtual Directory. In the image below, the website is **Default Web Site**. Select **Default Web Site** and click **Bindings** from the **Actions** pane.



8. Click **Add** and change the type to **https** and change the SSL Certificate to **AutodeskDM** (or your imported certificate.) Click **OK**

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9. If you wish to restrict all non SSL vault communication, click the **http** binding and select **remove**.
10. Close the **Internet Information Services (IIS) Manager**.

Configuring a Client Computer with Internet Explorer 7

To verify that the SSL client/server communication is properly setup, open Internet Explorer and browse to <https://<servername>>. If the connection is not working, the Security Alert dialog box is displayed.






There is a problem with this website's security certificate.

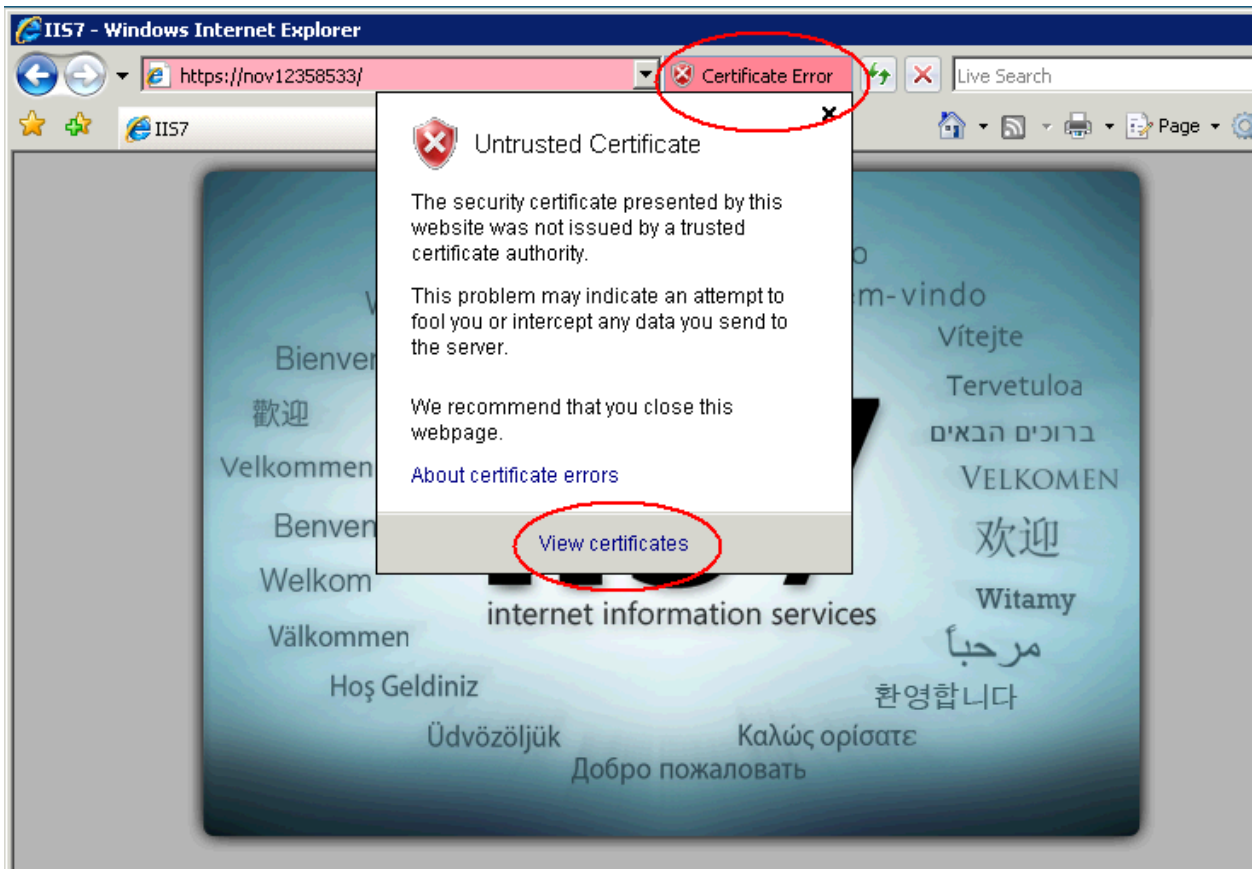
The security certificate presented by this website was not issued by a trusted certificate authority.

Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.

We recommend that you close this webpage and do not continue to this website.

-  [Click here to close this webpage.](#)
-  [Continue to this website \(not recommended\).](#)
-  [More information](#)

1. Click **Continue to this website (not recommended).**
2. Click the **Certificate Error** message next to the Address bar and choose **View Certificates**.



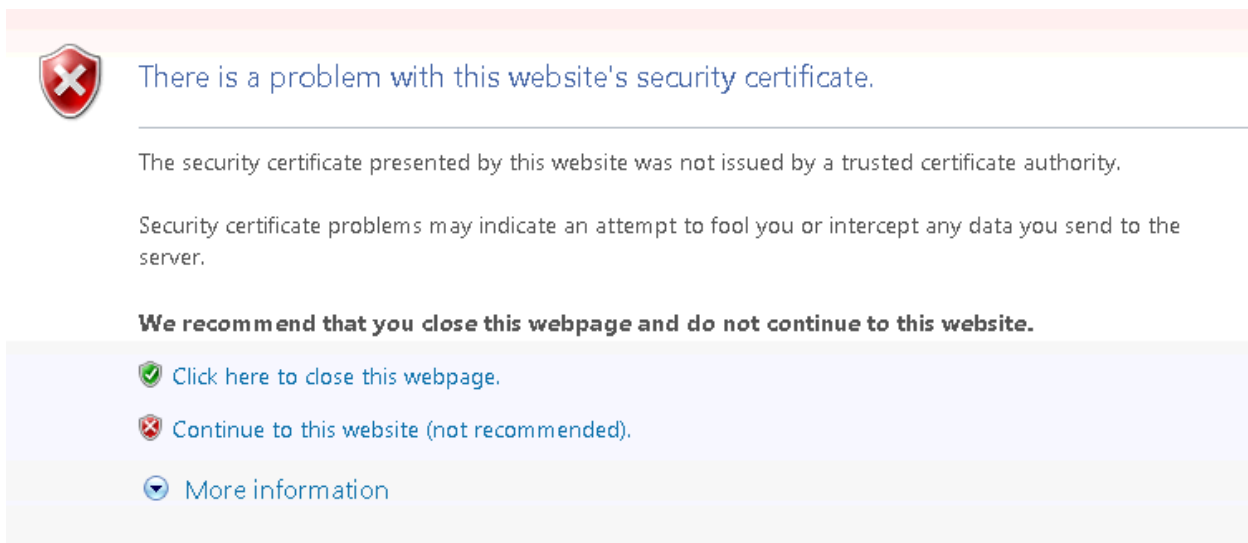
3. Click **Install Certificate**.

4. Follow the **Certificate Import Wizard** and **Place** the certificate in the **Trusted Root Certification Authorities**.
5. Allow the certificate to finish loading by selecting **Yes** at the following prompt, if asked.



Configuring a Client Computer with Internet Explorer 8

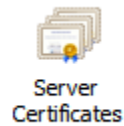
To verify that the SSL client/server communication is properly setup, open Internet Explorer and browse to <https://<servername>>. If the connection is not working, the Security Alert dialog box is displayed.



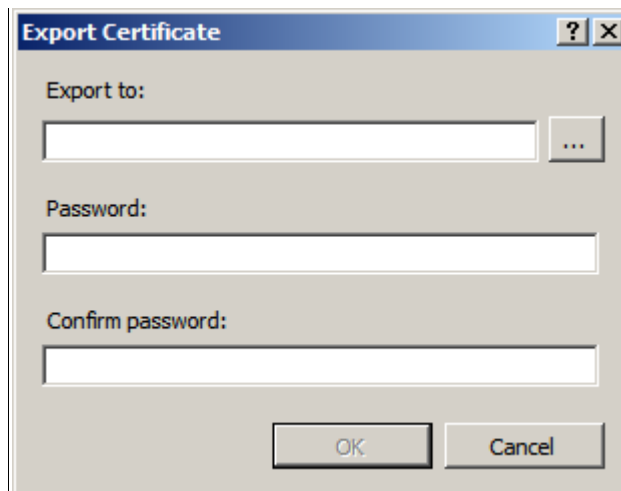
1. Click **Continue to this website (not recommended)**.
2. Export the certificate from the server.

ADVANCED CONFIGURATION GUIDE

- a. Open IIS Manager from Control Panel -> Administrative Tools -> Internet Information Services Manager.
- b. Highlight the computer name.
- c. On the right hand side find the Server Certificates Option and double click.



- d. Find the certificate that you are using in the list and highlight it.
- e. Right click and select Export.
- f. Select a shared location to save the certificate and enter a password for the certificate.

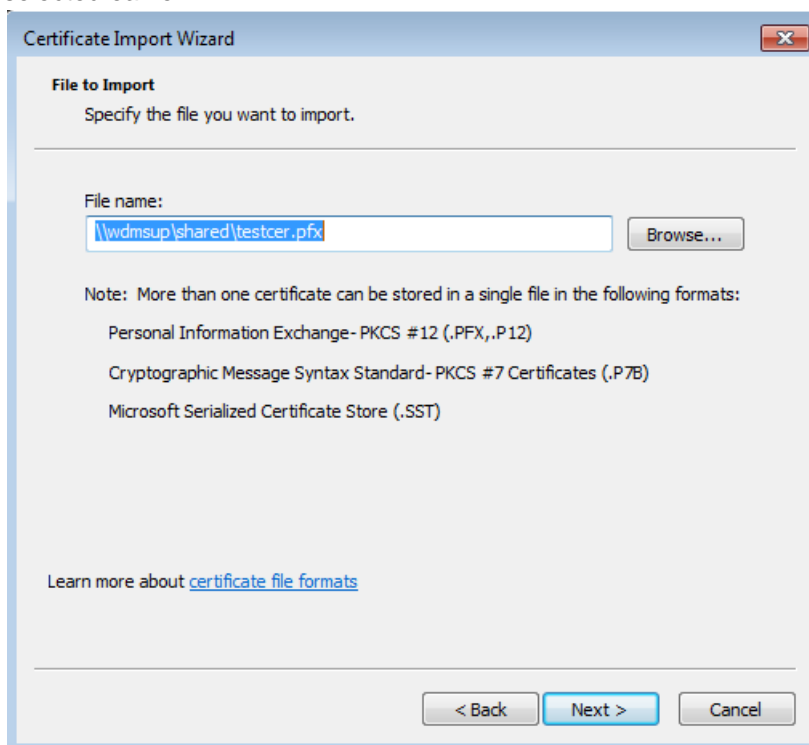


3. Open the share from the client PC and find the newly created certificate.

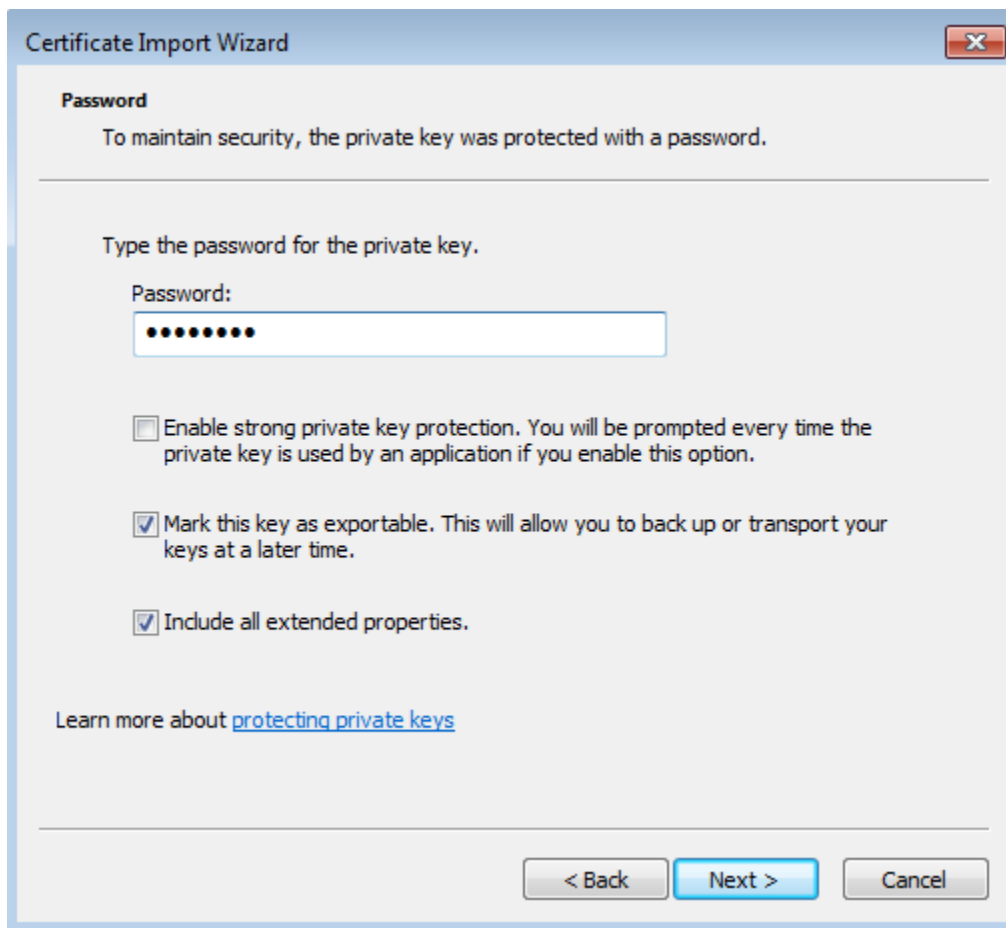
4. Double click to open the certificate and start the Certificate Import Wizard.



5. Click next on the File to import screen as the file shown should be the certificate you selected earlier.



6. Enter the password you created for the certificate when you exported it from the server.



The image shows a Windows-style dialog box titled "Certificate Import Wizard". The main heading is "Password". Below it, a message states: "To maintain security, the private key was protected with a password." A horizontal line separates this from the next section. The next section says "Type the password for the private key." followed by a label "Password:" and a text input field containing ten black dots. Below the input field are three checkboxes:

- ☐ Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.
- ☒ Mark this key as exportable. This will allow you to back up or transport your keys at a later time.
- ☒ Include all extended properties.

 At the bottom left, there is a link: "Learn more about [protecting private keys](#)". At the bottom right, there are three buttons: "< Back", "Next >" (highlighted in blue), and "Cancel".

7. Select Place all Certificates in the following store and select the Trusted Root Certification Authorities.
8. Finish the wizard.

Login from client applications using SSL

1. In the Log in dialog box, enter your user name, password, and the name of the database.
2. For the name of the server, specify the machine name of the server with the prefix: `https://`. For example:
 - ☐ If you are using the default SSL port 443: `https://ServerName`
 - ☐ If you are using a different SSL port: `https://ServerName:XXX` where XXX is the SSL communication port number.

NOTE: The secured login depends on the certificate issued to the server machine. If it is issued for the machine name, then only `https://ServerName` will work. Otherwise, if the certificate is issued for a dedicated IP, then only `https://serverIPAddress` will work as a secure vault login.

Using Vault with a Proxy Server

This section describes setting up a proxy to enable successful Autodesk Client/Server data communication.

If a client machine connects to the web server through a proxy server, then all calls to the Autodesk data management server from any Autodesk client will fail. To have a successful Autodesk Client/Server communication, you need to bypass the proxy server.

Change the proxy settings in Internet Explorer 7.x, 8.x

1. Open **Internet Explorer**.
2. From the **Tools** menu, select **Internet Options**.
3. Select the **Connections** tab.
4. Click **LAN Settings**.
5. If **Automatically Detect Settings** is selected, remove the check box.
6. If the **Use a proxy server for your LAN** check box is enabled, turn on the **Bypass proxy server for local addresses** check box.
7. Click the **Advanced** button next to the **Port** field.
8. In the Proxy Setting dialog, add the server name and IP address into the **Exceptions** field.
9. Click **OK**.
10. Click **OK**.
11. Click **OK** to close Internet Options.

All addresses without a period, for example: `http://webserver`, will bypass the proxy and be resolved directly.

If Internet Explorer continues to connect to the assigned HTTP proxy server, then the HTTP proxy address may contain a period. If this happens, configure the proxy server to use a host name.

Configure the proxy server to use a host name

1. Follow steps 1-5 above for changing the proxy settings in Internet Explorer.
2. If the "Address" field is <http://webserver.domainname.com> or <http://10.0.0.1>, then change it to <http://webserver> only.
3. Click OK and close Internet Explorer Options.

For more information on advanced proxy bypass configurations:

- Read Microsoft Knowledge Base article 262981: [Internet Explorer Uses Proxy Server for Local IP Address Even if the 'Bypass Proxy Server for Local Addresses' Option Is Turned On](#)
- Read the Microsoft document [Working with Proxy Servers](http://technet.microsoft.com/en-us/library/cc939852.aspx) (<http://technet.microsoft.com/en-us/library/cc939852.aspx>)

Bypassing a Proxy Server with the Application config file

By default HttpWebRequest's uses the proxy setting specified inside of Internet Explorer. You can change those settings by going to Control Panel -> Internet Options -> Connections Tab -> LAN Settings Button. You can disable auto detection by un-checking the "Automatically Detect Settings" button. In most cases this allows the client application to function properly. However, in some cases you may experience slow connectivity and delayed responses from the application when connected to Autodesk data management server. There is an option to disable proxy configuration through your application.exe.config file:

In this example, for Inventor, the config file is located in the following directory. Each client application has a similar config file. Make a backup copy of the file and then edit the file using Notepad.exe ONLY.

"C:\Program Files\Autodesk\Inventor 2011\Bin\Inventor.exe.config"

Add this line of code to the file:

```
<system.net>  
  <defaultProxy>  
    <proxy autoDetect="False"/>  
  </defaultProxy>  
</system.net>
```

After you have added the text, save and close the file. The changes will take effect the next time the application is started.

Autodesk data management server Log Files

This section shows you where to find the various log files and other files used for troubleshooting potential problems with Autodesk Vault.

For the purposes of this section, we refer to the %temp% folder. This is the temp folder location defined for the Windows user account that is logged in on the computer. By default, this folder is located in the following location for Windows XP and Server 2003

C:\Documents and Settings\ACCOUNTNAME\Local Settings\Temp

And the following location for Windows Vista, 7, Server 2008, and Server 2008 R2.

C:\Users\ACCOUNTNAM\AppData\Local\Temp

In this example, ACCOUNTNAME is the name of your user account in Windows.

Vault server log files

There are primarily two different log files to look for in this location. Each of these is described in full detail below.

Folder location and file names:

Microsoft Windows™ XP / Server 2003 - **C:\Documents and Settings\All Users\Application Data\Autodesk\VaultServer\FileStore**

Microsoft Vista™ / Windows 7 / Server 2008 / Server 2008 R2 -
C:\ProgramData\Autodesk\VaultServer\Filestore

Vlog-YYYYMMDD.txt

Any server-side problems relevant to Check-in, Check-out, Get Latest Version, Undo Check-out, Advanced Search and other operations performed from within Vault Explorer or one of the supported product add-ins are written into these log files.

ADMSConsoleLog-YYYYMMDD.txt

Any server-side problems relevant to backup, restore, re-index, purge or other operations performed within Autodesk data management server Console are written into these logs.

Emaillog-YYYYMMDD.txt

Email sent from the server.

Autodesk data management server 2011 installation log files

During the installation of Autodesk data management server there may be errors reported the by the diagnostic tool or during the installation itself. These errors are recorded in log files.

Pre-check log:

%temp%\EDMlog

Prechecks.xml

Prechecks.xsl

Autodesk Vault <Version> 2011 client installation logs:

%temp%

Autodesk Vault <Version> 2011 Install.log

Autodesk Vault <Version> 2011 Setup.log

Autodesk Vault <Version> 2011 server installation logs:

%temp%

Autodesk Vault <Version> 2011 (Server) Install.log

Autodesk Vault <Version> 2011 (Server) Setup.log

Autodesk Server Diagnostic Tool Log files

If you run the Autodesk Server Diagnostic Tool, the log files are located in the %temp%\EDMLog directory.

Autodesk Server Diagnostic Tool:

%temp%\EDMLog

DiagTool.xml

DiagToolLog.xsl

Microsoft SQL Server log files

Folder location and file names:

C:\Program Files\Microsoft SQL Server\%SQL_INSTANCE%\LOG

Errorlog

Errorlog.1

Errorlog.2

Errorlog.3

The SQL logs are named sequentially with the most recent (current) file being named errorlog followed by errorlog.1 then errorlog.2 and so on.

DWG iFilter Log files

There are log files maintained by the various iFilters used when performing some Vault operations like re-index. These log files can be helpful when troubleshooting problems with block attributes or properties not indexing as expected in Vault Explorer.

Folder location and file names:

Depending on your server setup, your iFilter log files may be contained in a different location.

C:\Windows\Temp\ OR %TEMP%

DWGFILT.*.log

Indexing Block Attributes (DWG files)

When troubleshooting problems with DWG block attributes not indexing in a vault, you'll also want to find the FilterConfig.xml. This file is created when you index block attributes in the Autodesk data management server Console and is found in the following location:

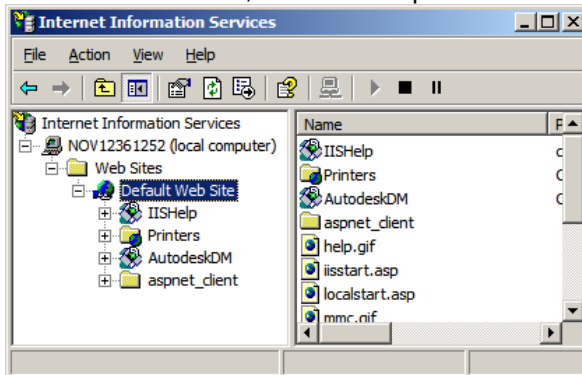
Folder location and file name:

C:\Program Files\Autodesk\Data Management Server
(X)\Server\Web\Services\FilterConfig.xml

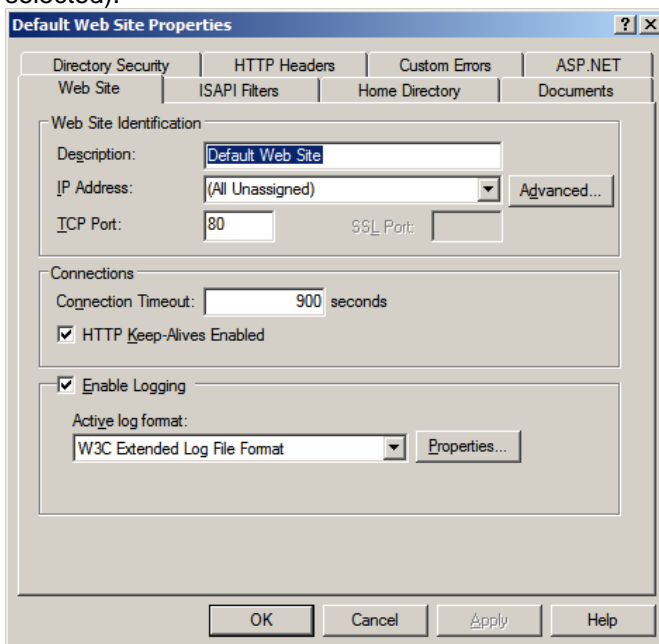
Customize W3C Extended Logging

The W3C Extended log file format is the default log file format for IIS. It is a customizable ASCII text-based format. You can use IIS Manager to select which fields to include in the log file. [\[W3C Extended Log File Format\]](#)

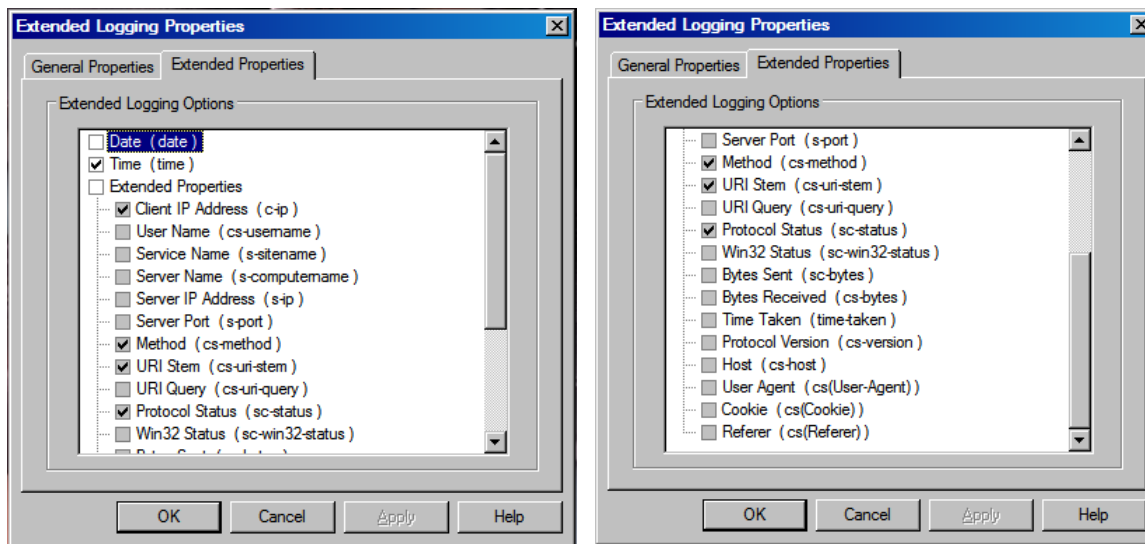
1. From the Windows Start menu, select Control Panel > Administrative Tools > Internet Information Services
2. In IIS Manager, expand the local computer, expand the Web Sites folder, right-click the Default Web site, and click Properties.



3. On the Web Site tab, select the Enable logging check box (if it is not already selected).



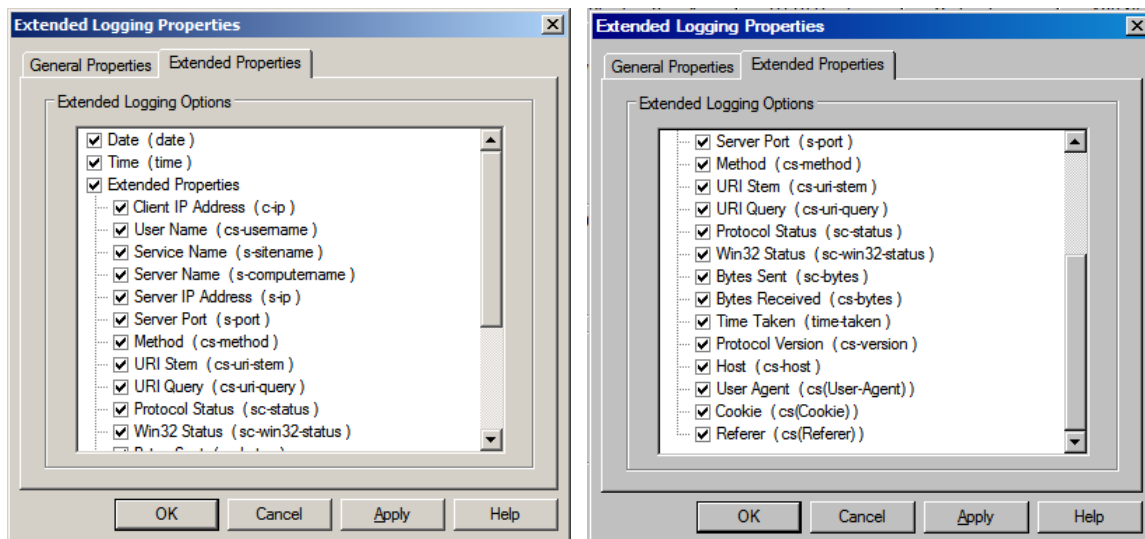
- In the Active log format drop-down list, select W3C Extended Log File Format and click the Properties button.



(BEFORE)

NOTE: Before changing the extended properties, write down or take snapshots of currently selected W3C properties in case of wanting to go back to the original state in the future.

- On the Advanced tab (for Windows 2003 server) or Extended Properties tab (for Windows XP), select logging **ALL** properties.

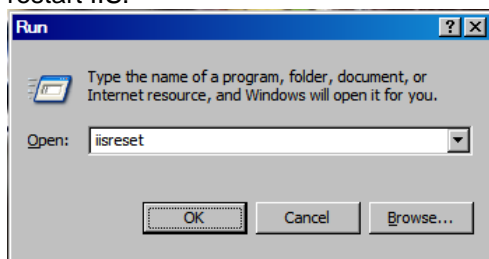


(AFTER)

- Click OK and close IIS Manager.

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7. From the Windows Start menu, select Run. Type: **iisreset** and then click OK to restart IIS.



8. IIS logs are located in the following directories:
 - a. C:\WINDOWS\system32\LogFiles\W3SVC1 – for the Default Web site communication.
 - b. C:\WINDOWS\system32\LogFiles\HTTPERR – for IIS errors logs.

Vault Collaboration and Professional 2011 Multisite Replication

This section addresses topics specifically related to the unique environments associated with replicating data to multiple work sites.

Scalability of Replication

Replication uses a single database for all sites and replicates the file store to each location. This architecture has distinct advantages in ease of implementation, end user experience and the instantaneous nature of the information availability. This architecture is not suited to multiple sites that are distributed over great distances or poor networks. It is recommended that the replication environments are not distributed across multiple continents.

If you are unsure of the appropriateness of Replication in your environment you can easily estimate the performance. The performance can be gauged between two remote sites by browsing a network share between the sites. If the responsiveness of the remote share is deemed acceptable for daily access Replication should also be acceptable. Vault communicates via http which is more efficient than the default windows system which is observed when browsing a remote share.

Content Center in a Replicated Environment

Introduction

Autodesk Inventor Standard Content is delivered in the form of library databases that are hosted by the Autodesk data management server. Users access these library databases through Inventor to automatically create selected library components as Inventor part files. Once instantiated these components are stored in a folder defined by the Inventor project file. When the assembly is then checked into Vault, the instantiated Content components are also checked into Vault.

In a Replicated Autodesk Vault environment we can tune the performance of Content Center by altering the configuration of the Inventor project file.

Assumptions

The following examples assume all software including the Content has been installed. These examples also assume the reader has a functional understanding of how Content is instantiated and referenced. If required please reference the Content Center help files.

The following diagrams show the SQL server as a separate computer for clarity. SQL Server may be on a separate computer or on the Autodesk data management server, either case is supported and has no impact on the workflows detailed in this document.

Private Content Center Folder

The default configuration when using Inventor is for each client to have a private Content folder.

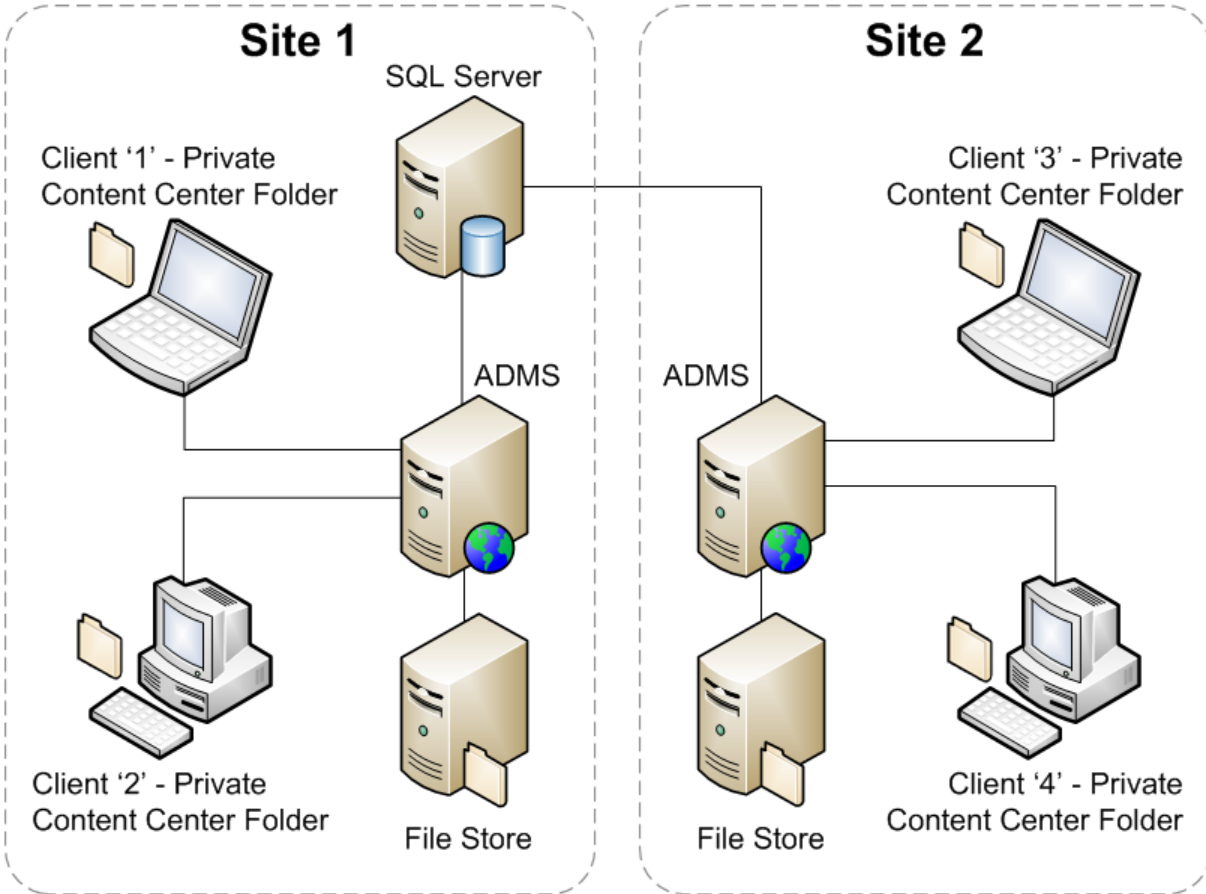
Advantages:

- Suitable for assemblies that have a high volume of Content components by eliminating network traffic for existing local components.
- Allows each user to have only the content they use in their Private Content Folder.

Disadvantages:

- Consumes considerable disk space on the client
- Each client must instantiate each referenced component in their Private Content Folder

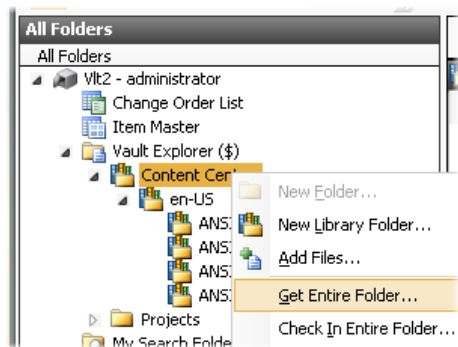
Private Content Example



1. Client 1 creates an instance of a component from the Content Center database. The instanced part file is written to the Private Content Center folder located on the client computer.
2. User checks in the instanced component as part of an assembly. The Content part is copied into the Vault file store.
Note: Keeping the part file in the local folder will remove the delays, for this user, due to instancing the part file or copying it from the file store.
3. Client 2 inserts the same component that Client 1 used. Since the part does not yet exist in the Private Content Center Folder for Client 2 it must be instanced from the database.
4. Once instanced the assembly may be checked into Vault. Vault knows that this component already exists and will resolve the assembly with the existing component in the file store.
5. During the scheduled replication at each Autodesk data management server the Content components will be copied to the local file store at each site.
6. Client 3 inserts the same component that Client 1 & 2 have previously used. The component must be instanced from the remote database. This is the same process as Client 2 in step 3 but the instantiation delay may be increased based upon the distance and network latency between the client and the SQL Server.

Seeding the Content Center Folders

The re-instancing of existing components can be avoided by performing a **Get Entire Folder** from the Vault thick client. This will seed the Content Center Folder with all instanced Content that has been checked into the Vault. This applies to both the Private and Shared Content Center Folders. In environments where new content is created frequently it may be advantages to perform this operation on regular basis.



Revision History

Revision	Comments	Date
1.0	Initial Release - Network	4/20/2010
1.1	Updated IIS 7 information, configuration	
1.2	Updated layout, log file and iFilter information, and added initial Connected Workgroups.	7/24/2010
1.3	Reviewed	8/30/2010
1.4	Reviewed – removed IE 6 outdated information	9/16/2010
1.5	Reviewed	9/20/2010
1.6	Updated SQL Maintenance Plan	5/18/2011
1.7	Modified Proxy Section	5/27/2011
1.8	SQL Maintenance Plan Moved to Vault Wiki	9/3/2012