

SQL Data Transfer Guide

Microsoft SQL Server Compatible
February 2016

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Introduction

This document will guide you through the installation and configuration of the SQL Data transfer application.

The application automatically downloads the SQL data products to which you subscribe, for each of the vehicle types CAR, Light Commercial, HGV and Motorcycles a separate database is created (PUB_CAR, PUB_LIGHTS, etc...).

The application has been designed to work on SQL2008 but can be used on SQL Server 2000 / 2005 / SQL Express 2005 / SQL 2008 / SQL 2008 R2 / SQL 2012 - see notes below regarding specific servers.

Pre-requisites

Requirement Checklist:

Component	Requirement
Microsoft SQL Server	<p>The application you will install has been tested on the following servers: SQL Server 2000/2005 SQL Express 2005 SQL 2008/SQL 2008 R2 SQL 2012 onwards (see note above)</p> <p>You will need one of these as an absolute minimum. The Operating System of the server must be Windows 2000 Server or above.</p> <p>You may however experience some installation problems with SQL 2012 onwards which (we believe) is caused by Microsoft tightening security, resulting in passwords failing, and a manual work-around is required.</p> <p>Express editions have the limitations on size of database, because of the volume of NVD data, express isn't suitable.</p> <p>SQL Server 2008 Express - Database limit is 4GB SQL Server 2008 R2 Express - Database limit is 10GB SQL Server 2012 Express - Database limit is 10GB</p>
.NET Framework	The application requires .NET Framework v3.5 as a minimum.
Windows Server	The application can run on the same SQL Server but if it is running on a separate machine, the operating system must be Windows XP or above.

Disk Space Requirements:

Depending on the individual subscriptions, the disk space requirements for the application and database will vary but the following is a rough estimate:-

Component	Requirement
Base Application	The application downloads data files from a web service which contains the cap data. The server where the application is installed requires at least 5GB of free disk space.
SHARED Database	The application download process uses this database which requires approximately 100MB of disk space.
CARS Database	If you subscribe to the data products for Car, a typical monthly update for all data sets is 1GB, which could grow to be in excess of 500GB, especially over the course of a number of years.
LIGHTS Database	If you subscribe to the data products for LCV, a typical monthly update for all data sets is 133MB, which could grow to be in excess of 100GB, especially over the course of a number of years.
BIKES Database	The bikes database is significantly smaller than the Cars & LCV databases, but a typical monthly update for all data sets available is in the region of 12MB
HEAVIES Database	The Heavies database is significantly smaller than the Cars & LCV databases, but a typical monthly update for all data sets available is in the region of 33MB.
IMPORTED CARS Database	The Imported Cars database is significantly smaller than the Cars & LCV databases, but a typical monthly update for all data sets available is in the region of 3MB
CARAVANS Database	The Caravan database is significantly smaller than the Cars & LCV databases, but a typical monthly update for all data sets available is in the region of 3MB

This table will help you calculate in advance the likely disk space requirements for your subscriptions.

Application

The application downloads data files from a web service which contains the cap data.

IMPORTANT: The server where you run the application from **MUST** have at least 5GB of free disk space.

Database

The application will create several databases dependent on what subscription you have and for what vehicle types.

The application always creates a PUB_SHARED database and this will take approximately 100MB of disk space. This database is used by the application to manage the download process.

If you have a New Vehicle Data CAR subscription for instance the application will create a PUB_CAR database as well. This database will require at least 18GB of disk space.

The amount of disk space required by the cap database is dependent on your subscriptions. The more subscriptions you have the more disk space will be required. If you have all product

subscriptions and have this for a number of years the PUB_CAR database could grow to be in excess of 500GB.

The above table lists all the databases to which a customer can subscribe which provides an indication for their disk space requirements.

Before you deploy the SQL data transfer application you need to consider which vehicle / products subscriptions you have to determine how much SQL server disk space you need for the application to work correctly to begin with AND going forward as the databases will increase in size every day/month as the data gets refreshed by the application.

The application has been tested on SQL Server 2000 / 2005 / SQL Express 2005 / SQL 2008 / SQL 2008 R2 / SQL 2012.

If you have an NVD subscription the SQL database may go beyond the SQL Express limit of 10GB. Therefore, SQL Express is not advised if you want to consume this data.

Internet Connection

As the application downloads files across the internet, some being up to 200MB in size you will require a broadband internet connection of at least 5MB download speed.

Before you begin

You will need to obtain your cap subscriber ID and password as you will need to input this to configure the application.

Please see high level installation steps below for your awareness. This provides an overview of what they might need to do to get the application and databases up and running.

Further details are continued within the document.

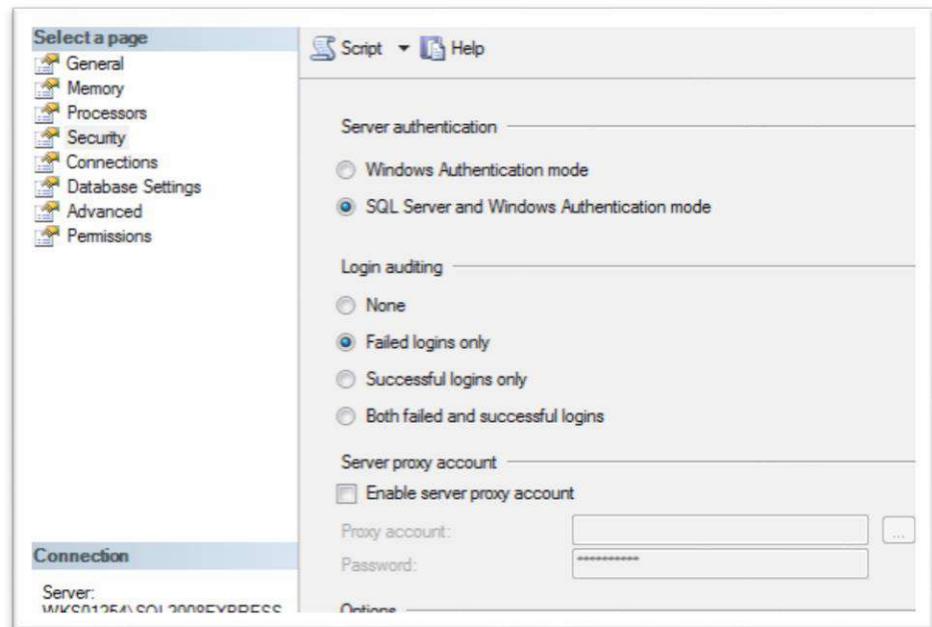
Step	Description
1. Install Microsoft SQL Server	You may or may not have Microsoft SQL Server installed which meets the requirements in section 2. If you already have SQL Server, you can skip this step and proceed directly to step 2.
2. Configure SQL Server	You must setup the security of SQL Server to work with both Windows and SQL Server Authentication. If you already have this setup, you can skip this step and proceed directly to step 3.
3. Install .NET Framework	You may or may not have the .NET Framework installed which meets the requirements in section 2. If you already have the .NET Framework, you can skip this step and proceed directly to step 4.
4. Checking .NET Framework	You need to check that the correct version of the .NET Framework is installed.
5. Download and Configure Data Transfer Application	You need to download, install and configure the data transfer application.

SQL Server Security Setup – Existing Database Server (step 2)

The SQL server you are using must be set up to work with both windows and SQL server authentication (often referred to as mixed mode). This is because the application uses SQL Server Authentication.

An example of how to see which security mode you are using and how to change it is shown below. The below screenshot is from SQL 2008 Express.

You get to this property page by right clicking the server, clicking properties and then clicking security on the left.

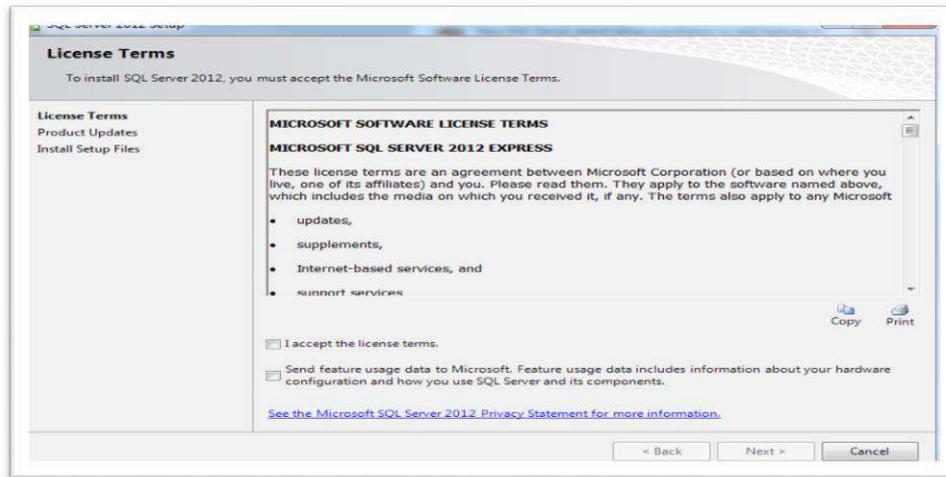


Example of setting up SQL Server Express 2012 (step 1)

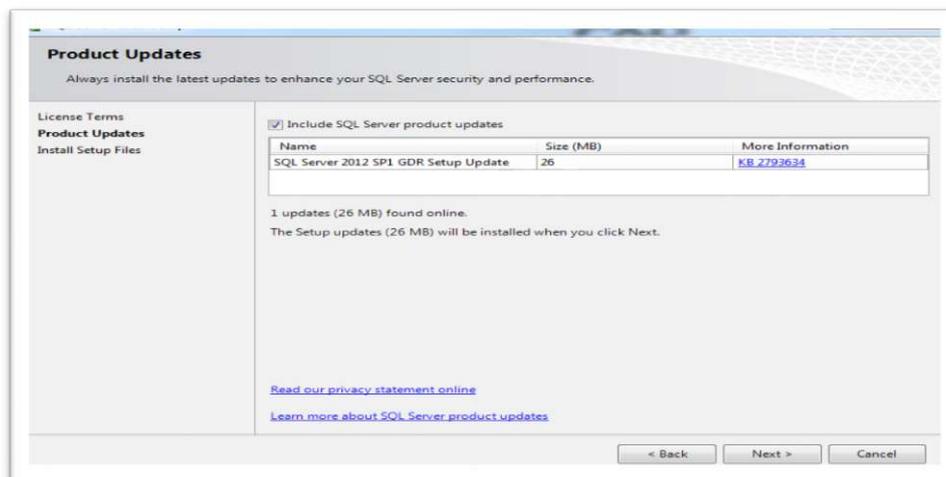
1. Choose 'New SQL Server stand-alone installation'.



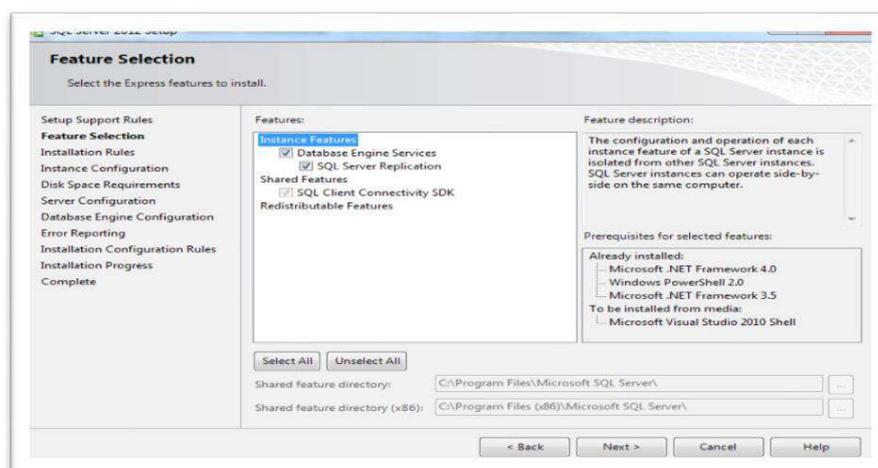
2. Read and accept End User License Agreement. Click “Next” to continue.



3. Install any necessary windows updates as shown below. Click “Next” to continue

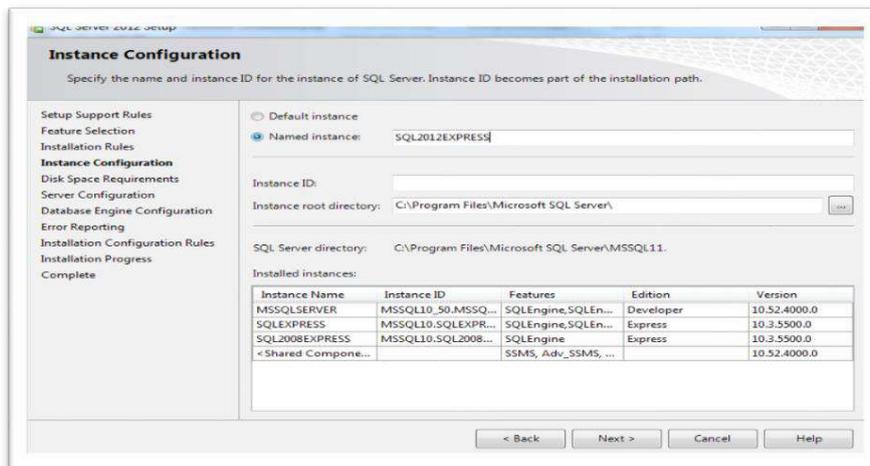


4. Feature Selection below. The SQL Server Replication option is optional. Click “Next” to



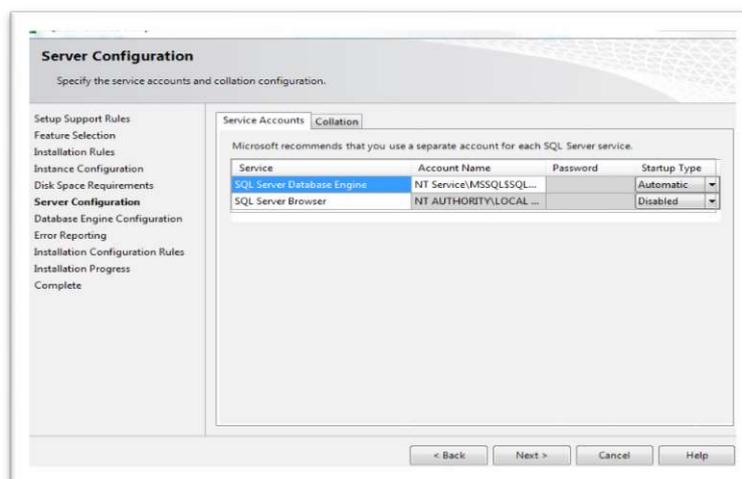
continue.

5. Instance configuration below. Enter an instance name similar to the below. Click “Next” to

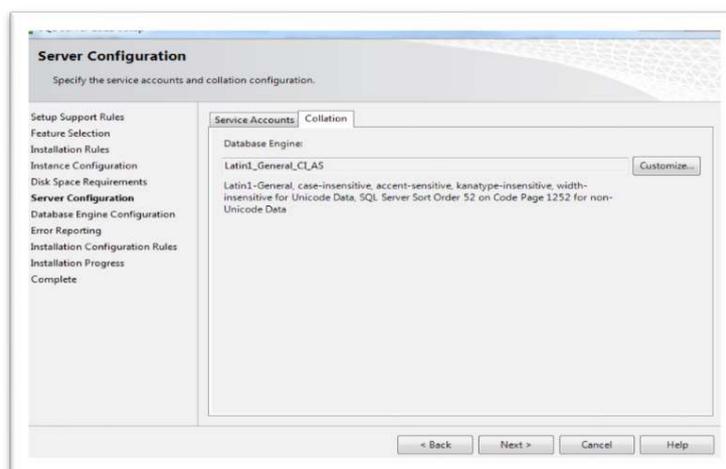


continue.

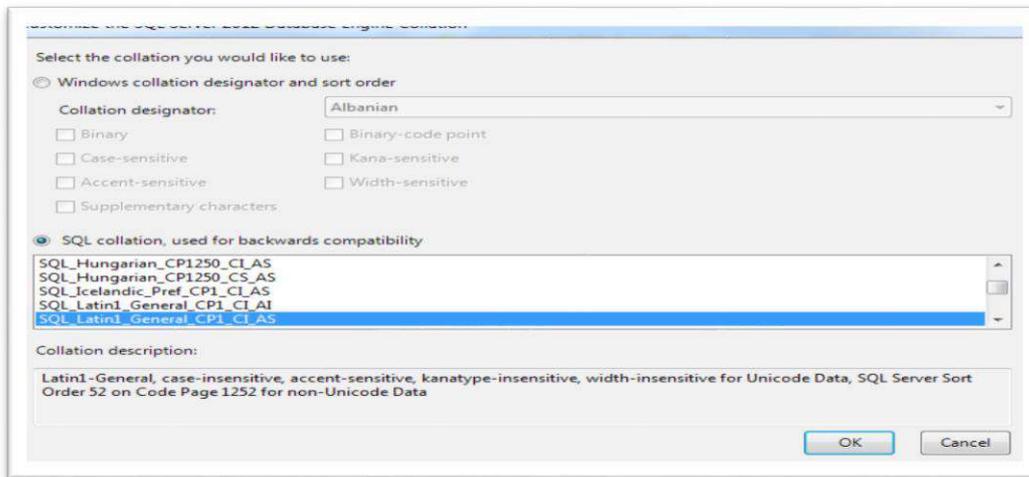
6. Server Configuration below. Amend the windows account that runs the SQL server service if required.



Click on the collation tab and you will be shown the below:-



Change the collation to 'SQL_Latin1_General_CP1_CI_AS' by clicking on customise - you will then see the following screen to be able to choose a SQL collation as shown below:

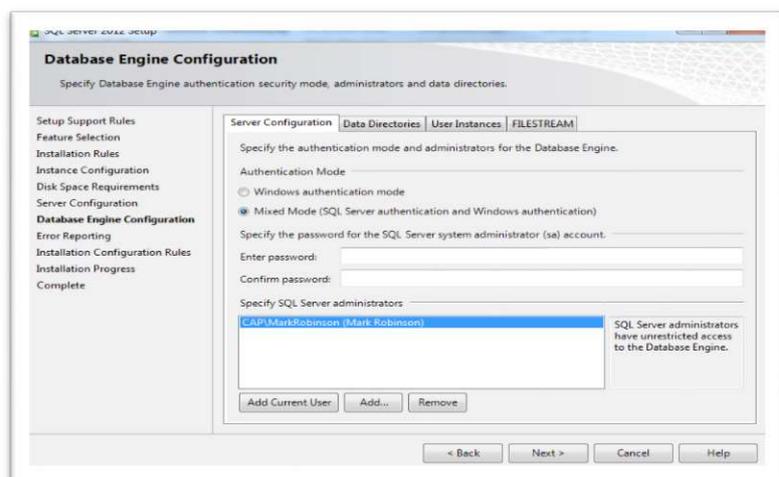


Click "Ok" Then click "Next" to continue.

7. Database Engine Configuration below. Amend the Authentication Mode to "Mixed Mode" (both Windows and SQL Server).

The password for the System Administrator account or "sa" must meet the Microsoft SQL Server strong password requirements:

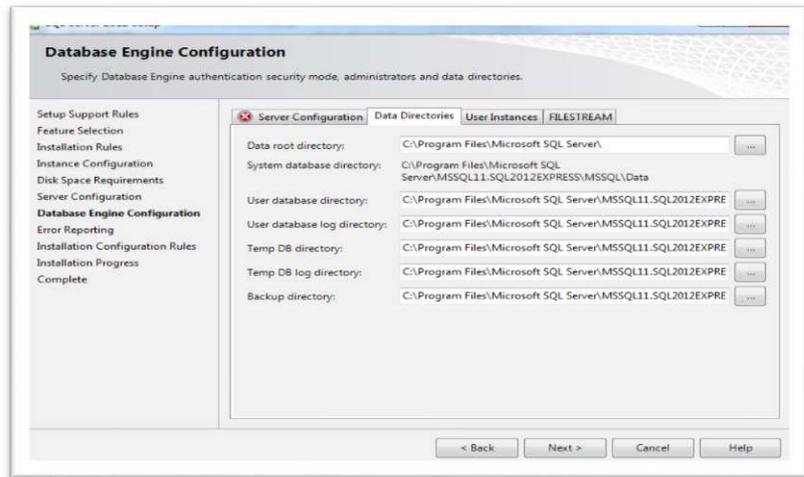
- Does NOT contain all or part of 'the user's name
- IS more than eight characters in length
- Contains characters from at least THREE of the following categories
 - o English uppercase characters (A to Z)
 - o English lowercase characters (a to z)
 - o Base 10 digits (0-9)
 - o Non-alphabetic characters (for example: !, \$, #, %)



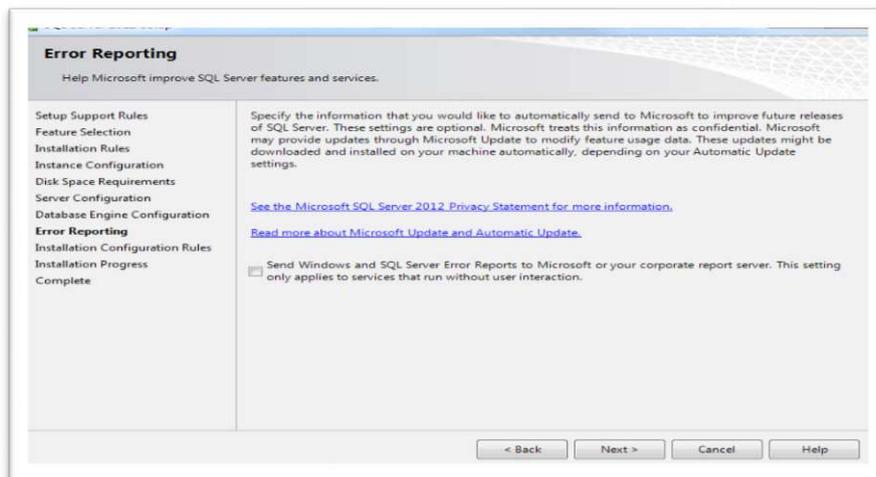
If you click on the "Data Directories" tab you can amend the default folders where the SQL server data files (data and transaction logs) will be stored on the file system.

You need to make sure that the drives on which these folders reside meet the minimum disk space requirements.

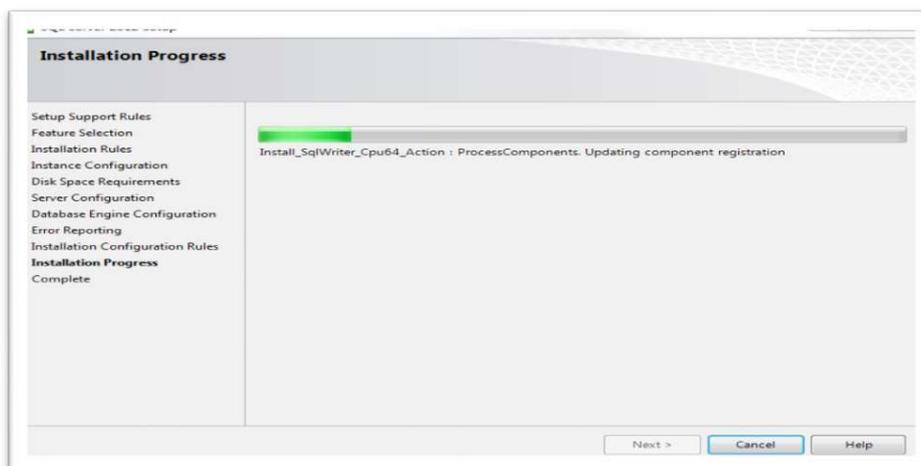
Click “Next” to continue.



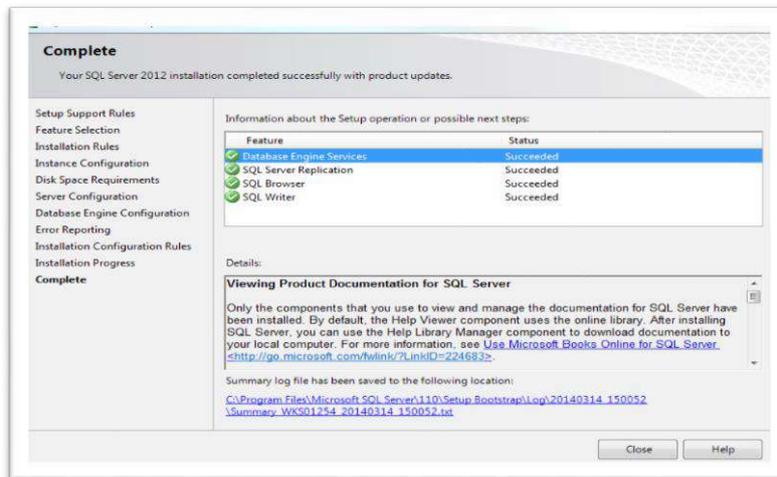
8. Define Error and Usage Report settings. Click “Next” to continue.



SQL server will now install and show progress as in the screenshot shown:-



1. Once it's installed you should see a success screen as shown:



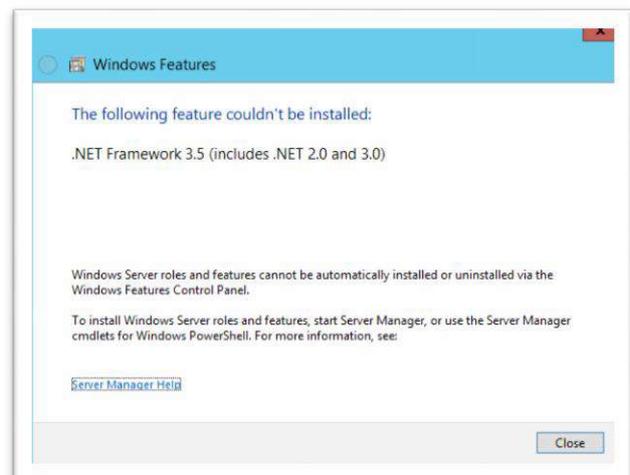
SQL Data transfer Application Installation Pre-requisites server 2012

IMPORTANT - Windows 2012 ONLY ships in 64 bit. This can affect the behaviour of applications as the application is built in 32 bit mode.

Copying Data transfer from another machine onto server 2012

If you copy the Data Transfer folder from a previous machine onto server 2012 and don't install the dot net framework you will see the following message:

It's also advisable remove the datatransfer.xml file from the data transfer folder as this causes issues.

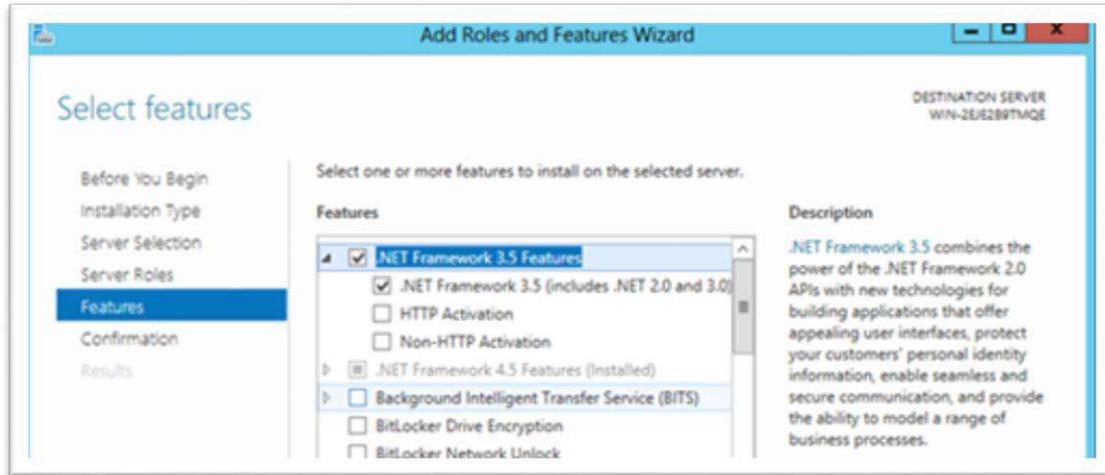


Installing .NET Framework 3.5 on windows server 2012 (step 3)

The process on Windows Server 2012 is accomplished using the Add Roles and Features Wizard:

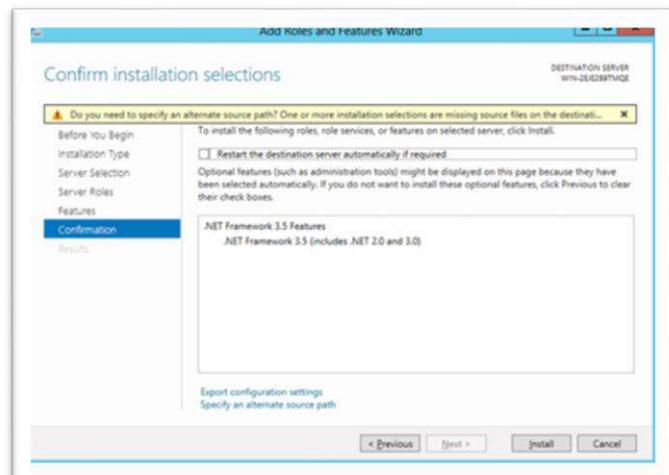
1. In Server Manager, click Manage, then select Add Roles and Features.
2. Click Next at the 'before you begin' screen.
3. At the 'Select installation type' screen, select Role-based or feature-based installation and click Next.
4. On the Select destination server screen, select the target server and click Next.
5. On the Select server roles screen, click Next.

- On the Select features screen, check the box next to .Net Framework 3.5 Features and click Next. If you expand the tree it looks like this:



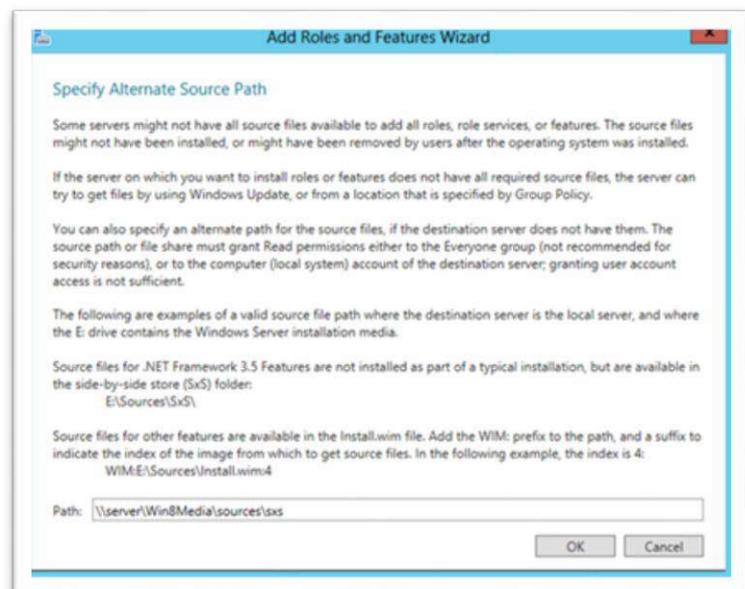
- On the Confirm installation selections screen, a warning will be displayed asking "Do you need to specify an alternate source path?...".

If the target machine does not have access to Windows Update, click the Specify an alternate source path link to specify the path to the \sources\sxs folder and click OK:



See the below article on how to get the dot net sxs files:-

<http://www.danielclasson.com/install-net-framework-35-server-2012/>



8. After you have specified the alternate source, or if the target machine has access to Windows Update, click Install.

Note that the Add Roles and Features Wizard gives the administrator the option to specify an alternate resource, whereas the Turn Windows features on or off dialog does not. In most environments, administrators will deploy standard images of client machines that include the necessary features, or they will configure Group Policy to specify the installation source for Features on Demand.

Administrators can also use Deployment Image Servicing and Management (DISM) or Powershell cmdlets to enable the feature. DISM can be used to install the feature on individual computers, or to install it on an image that will be deployed to multiple computers.

Here are some sample DISM commands to enable and get the status of the .Net Framework 3.5 feature:

```
Dism /online /get-featureinfo /featurename:NetFx3
Dism /online /enable-feature /featurename:NetFx3 /All
Dism /online /enable-feature /featurename:NetFx3 /All /LimitAccess
/Source:x:\sources\sxs
Use /All to enable all parent features of the specified feature
Use /LimitAccess to prevent DISM from contacting WU/WSUS
Use /Source to specify the location of the files needed to restore the feature.
```

(x: is the drive letter of the installation media or mapped network share that contains a copy of the installation files)

Check the .NET Framework installation

There are many methods for checking if the .NET Framework is installed and it's the correct version.

The best method requires you to load the Registry Editor and locate the following key name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v3.5

If the key is present, you can proceed to step 5.

SQL Data transfer Application Installation Pre-requisites other windows versions

The setup should be similar to Server 2008 R2 but if you are unsure about anything please contact cap hpi support with the version of SQL server you wish to install.

SQL Data transfer Application Installation (step 5)

The software is designed to work installed on either: -

- o The same PC/Server as the SQL Server instance is installed on (preferred).
- o Or on another PC/Server in the network.

1. Create a directory on the PC/Server (e.g. c:\datatransfer)
2. Go to <http://business.cap.co.uk/subscribers/sql> and login with your subscriber Id and password, as supplied by support@cap.co.uk.

On the left hand side, click on SQL (located under Help and Support).

Click on the large button labelled "Download Data Transfer Application" This will download a zip file containing the application files.

Unzip the contents of the file into the directory created in step 1.

3. Create a directory called "ProcessData" (e.g. c:\datatransfer\processdata). This directory is used by the application to hold and process the downloaded data / software packages.

Note: The directory contents are emptied when the application runs.

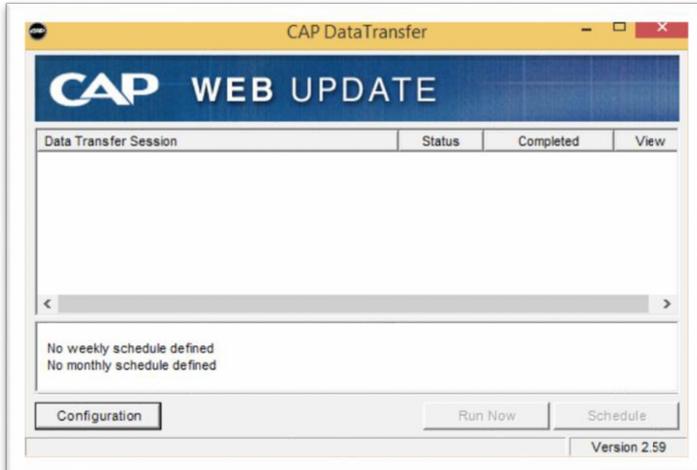
Note: The windows account which is going to run the application MUST have full control over the "ProcessData" folder. This is because the application uses this folder to download / unzip and deleted files from this folder.

4. On the PC/Server running SQL Server, create a directory for the SQL database and log files (e.g. e:\sqldata, e:\sqllogs).
5. Add a shortcut to the application (datatransferloader.exe) on the desktop.

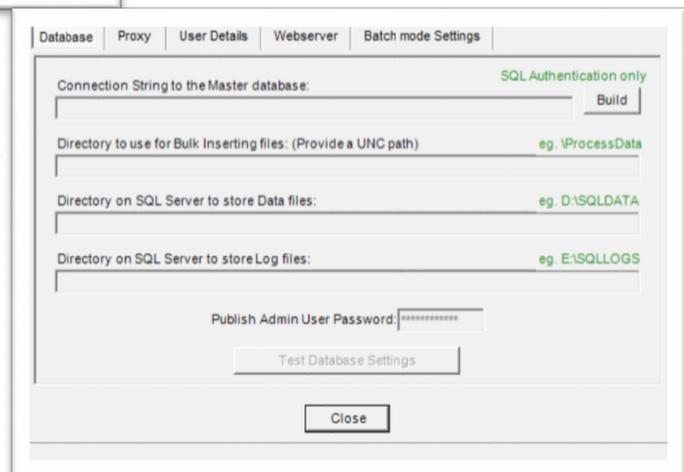
NOTE: The datatransferloader.exe is a stub application which loads the highest numbered (latest version) datatransfer executable in the application directory.

SQL Datatransfer Configuration

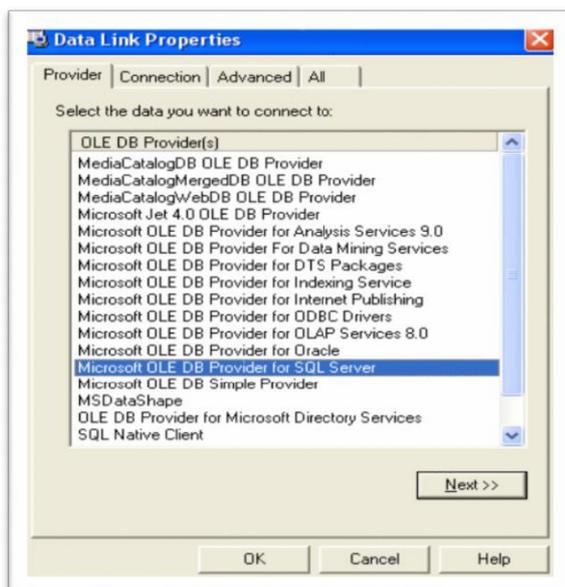
Run the application (either using the shortcut created above or using datatransferloader.exe) then click on the configuration button.



The first stage of the configuration is to enter the database settings. Click on the “database” tab, then click on the ‘BUILD’ button to configure the database connection string.



On the provider tab:
Select 'Microsoft OLE DB Provider for SQL Server'.



On Connection Tab:

- Enter or select the SQL Server name
- Select 'Use a specific user name and password'

You must use SQL Authentication. It is recommended that you use the sa account or an account with similar permissions.

The username you use must have privileges to create databases, bulk insert and create new users.

The user specified here does not need to be 'sa' but it must be a SQL login which has access to the server roles, public and sysadmin. Hence, a new SQL login can be created and specified in the username and password options below.

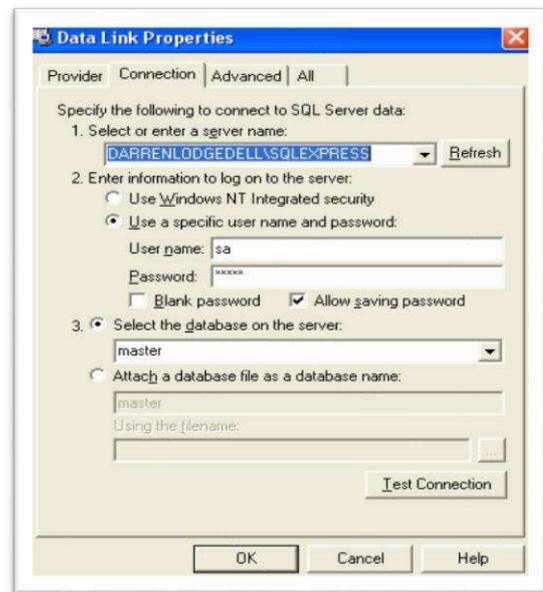
Make sure the password meets the minimum password requirements as detailed previously.

You must also tick the checkbox labelled 'Allow saving password'

Select the 'master' database.

Click 'Test Connection'. If the settings are correct, you should get the following message "Test connection succeeded".

You can leave the 'Advanced' and 'All' tabs as set by default. Click "OK" to save the settings.



Define the "ProcessData" directory, as created earlier in [step 5.3](#)

Examples:

If the Application is running on the same PC/Server as the SQL server c:\datatransfer\processdata

If the application is running on another PC/Server. Enter the path in UNC format. Make sure that the windows account you are going to use to run the application through task scheduler has FULL permissions to the below folder

- o \\machine\directory
- o If you specify a UNC path, ensure it is valid by entering the path in say, Windows Explorer, so you can be certain that it is a valid path and you have access to it, otherwise it might return an Access Denied error.

Define the SQL Data and Log directories, as created in step 5.4

Enter the publishAdmin username password. This needs to satisfy Microsoft's strong password policy as previously detailed.

If you are using SQL Server 2012 (or later) you will have to configure the publishAdmin account manually using SQL Server Management Studio. You then need to type the password for the Publish Admin account you created in to the box on the Databases screen of the Datatransfer Configuration

All details should now be entered, see example shown:

Click the “Test Database Settings” button. If successful, you should get the following message “Database configuration properties test succeeded”.

Note: If you do not get the “succeed” message do not continue. Check the configuration you input especially the SQL login you input on the SQL Server security setup.

The next stage of configuration is to configure the proxy settings. Click on the “proxy” tab.

If you connect to the internet via a proxy, tick the checkbox called “Proxy Required” and enter the proxy details in the appropriate textbox.

Click the “Save Proxy Settings” button. If successful, you should get the following message “Proxy Settings Saved Ok.”

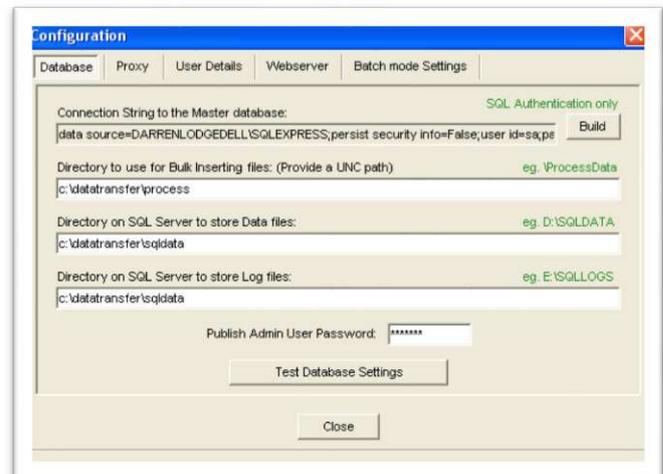
Note: If you restrict access to websites within your proxy server you will need to add the following websites / web pages to your allowed list:

Web Sites:

www.cap-hpi.com

Web Pages:

www.capdownload.co.uk/cap_datatransfer_webservice/datatransfer_webservice.aspx



The Web Server settings should be updated before the user settings. The tab displays information about the servers used by the application.

Click the button “Test Webserver Settings” to retrieve a list of available download servers.

It is possible to enter a value into cap Primary Server and this is the value that is used by the application.

If the application shows something other than <http://www.capdownload.co.uk>, you can enter this value in cap Primary Server.

The screenshot shows the 'Webserver' tab in the Configuration window. It features two text input fields: 'CAP Primary Server' and 'CAP Download Servers'. Both fields contain the URL 'http://www.capdownload.co.uk'. Below these fields is a 'Test Webserver Settings' button, and at the bottom right is a 'Close' button.

The next stage of configuration is to enter the user details.

Click on the “user details” tab.

Please enter the Subscriber Id and Password as supplied by support@cap.co.uk, along with an email address to send any error reports.

To save the user details, click the “Test User Profile Settings” button.

If successful, you should get the following

message “User profile configuration properties test succeeded” and receive an email from support@cap-hpi.com

The screenshot shows the 'User Details' tab in the Configuration window. It contains three input fields: 'Subscriber ID' with the value '0', 'Password', and 'Email address'. Below the email field is the text '(for sending error reports)'. At the bottom, there are buttons for 'Test User Profile Settings' and 'Close'.

To configure the batch mode settings, click on the “Batch Mode Settings” tab.

Tick the checkbox next to the options you wish to receive email notifications of.

Click “Save Batch Settings” to save these settings.

The screenshot shows the 'Batch mode Settings' tab in the Configuration window. It contains a text area with the following text: 'When the application is started using a /BATCH command line parameter, the software will start and immediately check for any new data to download. Once any new data has been imported (or no new data is found), the application will then close. You can use batch mode if you do not wish to leave the software running constantly, or if you prefer to schedule the download using a third party scheduler such as Windows Scheduler.' Below this are two unchecked checkboxes: 'Email me a notification when the application starts in batch mode' and 'Email me a report after the application completes in batch mode'. At the bottom, there are buttons for 'Save Batch Settings' and 'Close'.

The application should now be configured, please close the configuration dialog.

You must follow these steps to setup the application to run as a scheduled task.

Additionally, the timing of a scheduled task is critical, so when you follow these steps, take into account when there might be other tasks running on the server. There are separate instructions for setting up the scheduled task on both Windows Server 2012 and Windows Server 2008.

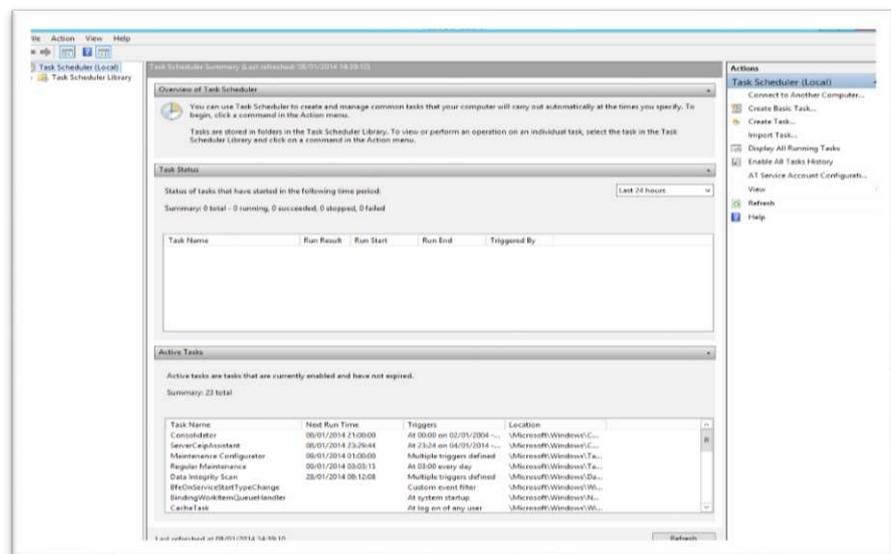
Setup Application to run from scheduler (Batch Mode) – Server 2012

The application can be run in batch mode via a scheduler program (e.g. Windows Scheduled Tasks) or command line operation running “DataTransferLoader.exe/BATCH”

To setup SQL data transfer to run in batch mode via a windows scheduled task you follow the following instructions.

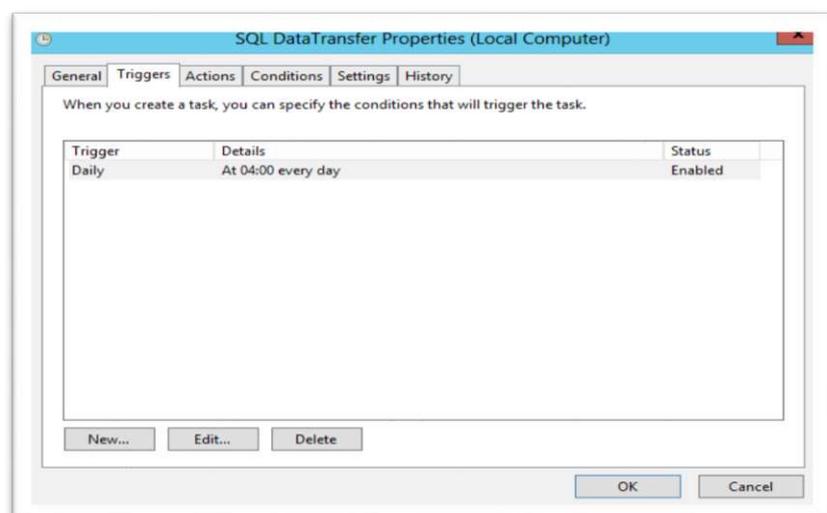
Firstly go to - Start, Control Panel, System and Security, Administrative Tools, Schedule task.

You will then see the screen shown:-



Click on ‘Create Task’ on the right. Setup the task as per the screenshots below. (The screenshots displayed show it has been set up on internal cap server 2012 servers).

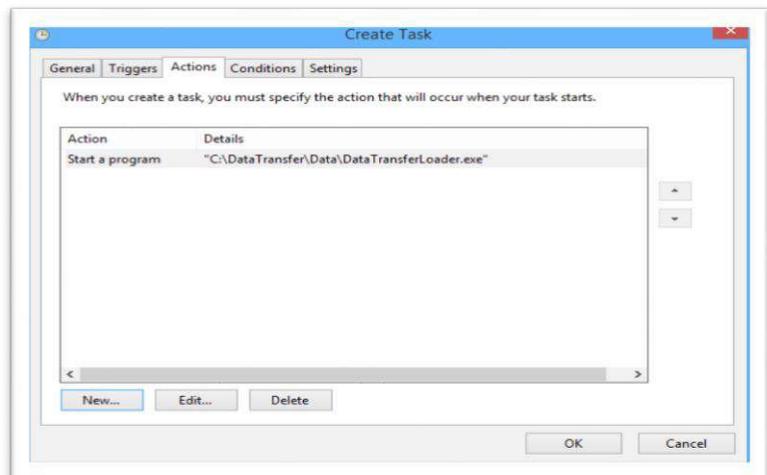
The user account which is used to run the scheduled task is critical as they must have the necessary privileges to read and write to the folders that were specified in the [configuration of the application](#).



The timing of the task is essential, so you should make sure you change it to an appropriate time when the scheduled task is created.

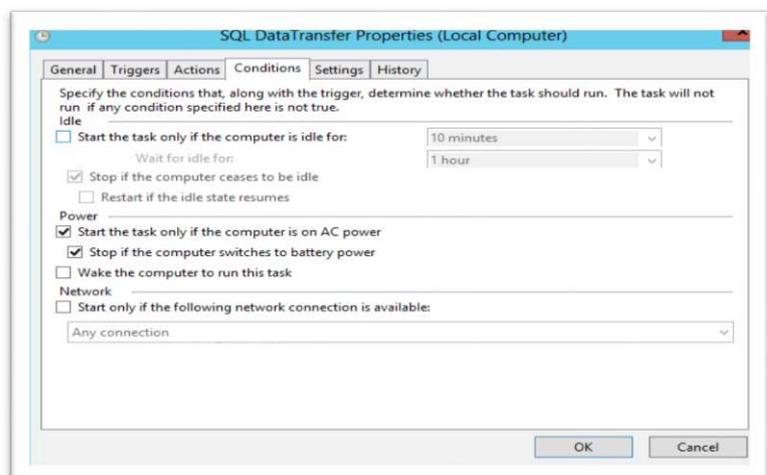
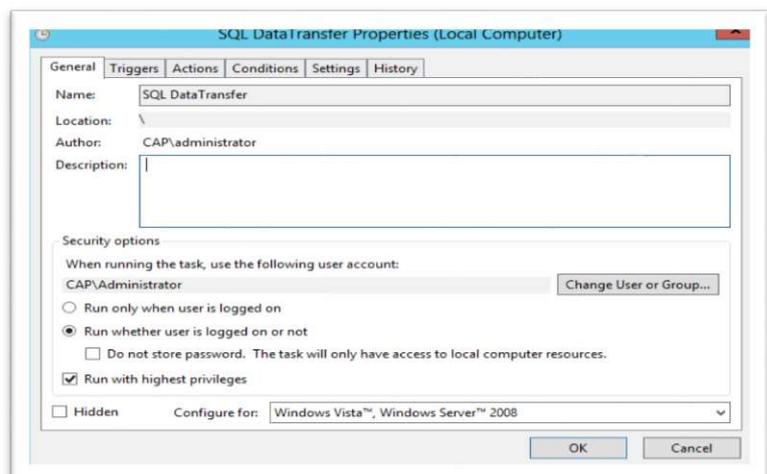
We recommend that you perform the update outside of business hours (e.g. between 12 am and 8 am).

We build daily products between Monday and Friday evenings. All monthly products are available three working days before the start of each month.



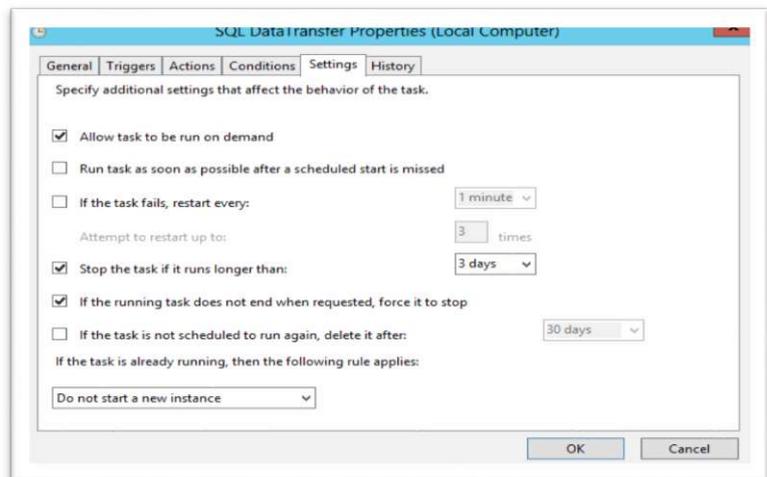
The advantages of updating in batch mode are that you do not need to have the application running all the time.

When the application is run in batch mode, the application will check for any packages waiting to be downloaded and will download them.



Setup Application to run from scheduler (Batch Mode) – Other Windows Versions

The setup should be similar to the steps shown above, but if you are unsure about anything please contact cap support with the version of windows you are using and whether you intend to setup the download folder and SQL server on the same machine.



Run Application Manually

The application allows the user to manually start the process of checking for / download of any outstanding product packages.

To do this, on the application's main screen click on the "Run Now" button.

While the update is in progress, the application will show a log of events.

The user can cancel the update process by clicking on the "Cancel" button.



View Download Logs

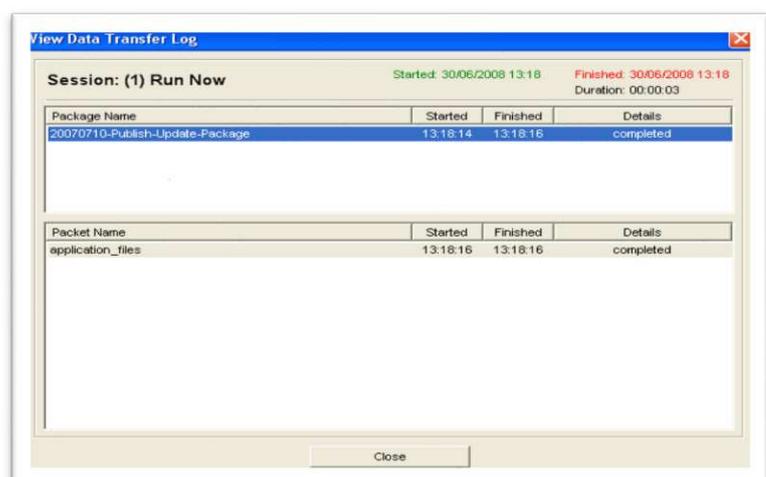
The application allows the user to view log file information for any download session.

By clicking on "log" of any entry in the session history on the main screen the following dialog is displayed.

If the application does not receive a response within a 10 minute period, it will time out.

The application will re-attempt the download up to 10 times and if it still cannot respond with end the process.

Refer to notes in [pre-requisites](#) for guidance.



View Error Logs

Before contacting cap hpi support about any issue please check the application error logs.

If you see something similar to the below where a package has failed to run (status = 'failed'):-

Data Transfer Session	Status	Completed	View
(8) Open Package (Started: 17/02/2014 14:37)	failed	17/02/2014 14:38	log
(7) Run Now (Started: 13/02/2014 12:43)	failed	13/02/2014 15:38	log
(6) Run Now (Started: 13/02/2014 09:22)	failed	13/02/2014 12:11	log

Click on the 'log' link you will see another screen which looks like the below:-

This will show you which products downloaded and were processed correctly and which weren't.

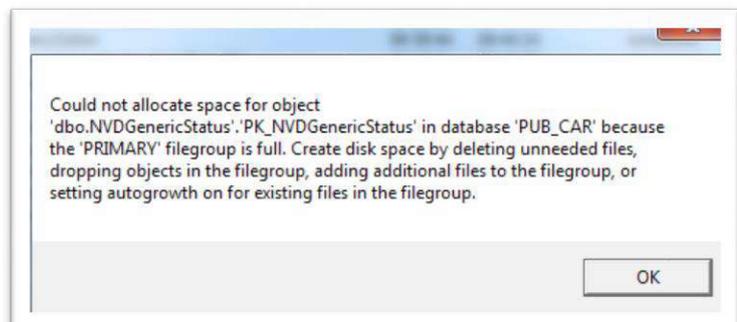
When a product fails to be installed you will see an entry as shown:-

Package Name	Started	Finished	Details
20140212-HEAVES-PublishDB-Vehicles	09:22:20	09:23:37	completed
20140212-CAR-PublishDB-Vehicles	09:22:37	09:23:08	completed
20140212-LIGHTS-PublishDB-Vehicles	09:23:08	09:23:21	completed
20131201-LIGHTS-PublishDB-NewMonitor	09:23:21	09:23:41	completed
20140101-LIGHTS-PublishDB-NewMonitor	09:23:41	09:23:58	completed

Package Name	Started	Finished	Details
20140201-CAR-PublishDB-NewMonitor	09:36:13	09:36:37	completed
20140212-CAR-PublishDB-NVD	09:36:37	09:54:45	failed - click for details
20140212-CAR-PublishDB-NVD	09:54:46	10:08:05	failed - click for details
20140212-CAR-PublishDB-NVD	10:08:07	10:22:20	failed - click for details
20140212-CAR-PublishDB-NVD	10:22:21	10:35:38	failed - click for details

Click on the 'failed - click for details' you will see the screen below, this is actually the code error:-

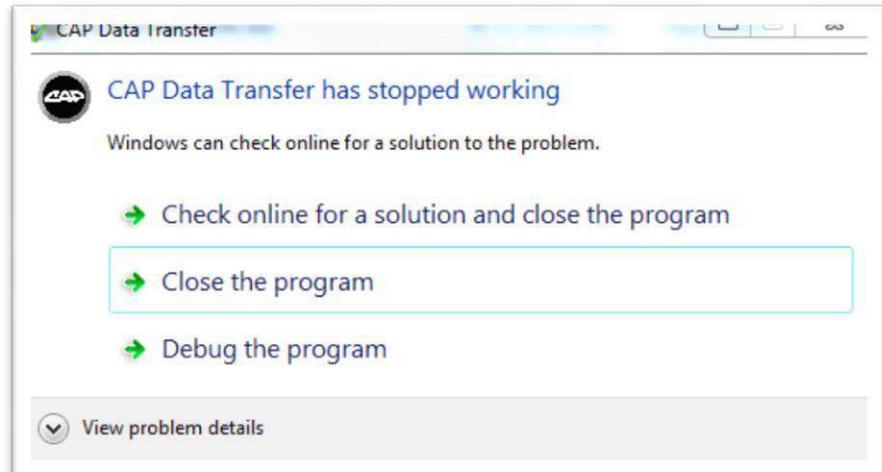
This information should send to cap hpi support (support@cap-hpi.com) to enable them to resolve your issue. All the above errors are also logged in your local PUB_SHARED database.



Common Problems

Application won't start

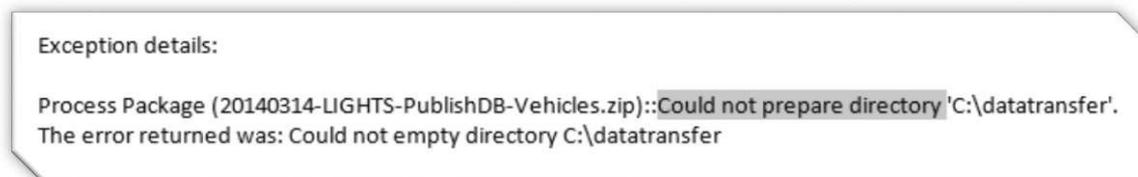
If you see the below error screen there is a problem in the application configuration. This can be solved by deleting the datatransfer.xml which is in the same folder as the application:-



Could not prepare directory

If you have setup the application to run in batch mode from task scheduler you setup an error email address for application alerts to go to (as shown in the [SQL Datatransfer Configuration](#) section).

You may receive an email with test similar to below:-



You will receive the above error IF

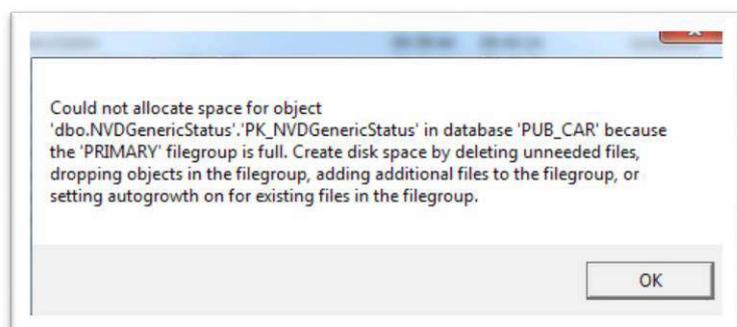
- the windows account running the task scheduler does NOT have full control over the folder mentioned above or
- you have setup the download folder ([SQL Datatransfer Application Installation](#)) to be the same as the folder containing the SQL data transfer application.

Database Setup Errors

If you see the below error the database has reached its maximum size. See APPENDIX section '[SQL Express Database size limits](#)'

To fix this you need to truncate the database transaction logs and shrink the database using SQL similar to the below:-

```
USE DB_Name
GO
BACKUP LOG DB_Name WITH
TRUNCATE_ONLY
GO
DBCC SHRINKFILE (TransactionLogFileName,
1)GO
```



Dos and Don'ts

Do

Ensure the user has sufficient permissions to download data into the [Process Data](#) folder. Permissions required to create tables, delete tables and import data into tables. (Full control recommended).

It's recommended that you setup the application to run on the same machine as the SQL server instance as you will run into less security / permissions issues

When you move the application to a new server, if you copy the "datatransfer" folder to the new machine ALWAYS delete the datatransfer.xml and then go into the application and re-configure it.

If moving the application to a new server also download the latest version of the application from the cap website explained previously.

You may need to upgrade to FAT32 as earlier versions may not have sufficient capacity.

Don't

Run more than one data transfer application at one time otherwise you may encounter issues.

If you make amendments to any of the cap structured tables e.g. Indexes, data may not be able to be imported into the table, OR your additional data may be overwritten.

APPENDIX

Products File Size & Frequency

Dataset	Typical Size (cars)	Database	Frequency	Notes
Vehicles	4MB	Car, LCV, HGV & Bike	Daily Update available	Drops and re-creates full dataset upon download.
New Vehicle Data	180MB	Car, LCV, HGV & Bike	Daily Update available	Drops and re-creates full dataset upon download.
Used Values	34MB	Car, LCV, HGV & Bike	<u>Monthly Product (3 working days from end of month) See http://business.cap.co.uk/subscribers/data-downloads</u>	Monthly incremental update.
Used Values Live	38MB (typical month)	Cars only	Daily Update available	Incremental changes throughout the month, plus monthly snapshot.
New Gold Book/Monitor Values	6MB	Car, LCV, HGV & Bike	<u>Monthly Product (3 working days from end of month) See http://business.cap.co.uk/subscribers/data-downloads</u>	Monthly incremental update.
Used Gold Book/Monitor Values	20MB	Car, LCV, HGV & Bike	<u>Monthly Product (3 working days from end of month) See http://business.cap.co.uk/subscribers/data-downloads</u>	Monthly incremental update.
Black Book Plus	140MB	Car only	Potential of bi-monthly update	Incremental update.
Images	585MB	Car & LCV	Daily Update available	Full database on initial update, then incremental changes.

SQL Express Database size limits

SQL Server 2008 Express the database limit is 4 GB

SQL Server 2008 R2 Express the database limit is 10 GB

SQL Server 2012 Express the database limit is 10 GB

GB