

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	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) You will need one of these as an absolute minimum. The Operating System of the server must be Windows 2000 Server or above. 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.
	Express editions have the limitations on size of database, because of the volume of NVD data, express isn't suitable. 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
.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 youneed 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

Your 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.

Step	Description
1. <u>Install Microsoft SQL Serve</u> r	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. <u>Configure SQL Serve</u> r	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. <u>Checking .NET Framewor</u> k	You need to check that the correct version of the .NET Framework is installed.
5. <u>Download and Configur</u> e <u>Data Transfer Application</u>	You need to download, install and configure the data transfer application.

Further details are continued within the document.





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	Select a page	🔄 Script 💌 🚺 Help	
how to change it is shown below. The below screenshot is from SQL 2008 Express.	Memory Processors Security Connections Database Settings Advanced	Server authentication Windows Authentication SQL Server and Window	mode s Authentication mode
You get to this property page by right clicking the server, clicking properties and then clicking security on the left.	Permissions	Login auditing None Failed logins only Successful logins only Both failed and successful Server proxy account Enable server proxy account	ul logins
	Connection	Password:	
	Server:	Ontione	

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.

To install SQL Server 20	12, you must accept the Microsoft Software License Terms.	
License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 EXPRESS These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft • updates, • updates, • Internet-based services, and	* III
	Summorf services Copy = I accept the license terms. Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more information.	3 rint

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

Always install the latest u	pdates to enhance your SQL Server security and p	erformance.	
license Terms Product Updates	V Include SQL Server product updates		
Install Setup Files	Name	Size (MB)	More Information
	SQL Server 2012 SP1 GDR Setup Update	26	KB 2793634
	1 updates (26 MB) found online. The Setup updates (26 MB) will be installe	d when you click Next.	
	1 updates (26 MB) found online. The Setup updates (26 MB) will be installe	d when you click Next.	
	1 updates (26 MB) found online. The Setup updates (26 MB) will be installe <u>Read our privacy statement online</u>	d when you click Next.	

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

Select the Express features to	install.		
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Features: Destination features SQL Server Repliceti Shared Features SAL Client Connectivity Redistributable Features	es on •SDK	Feature description: The configuration and operation of each instance feature of a SQL Server instances is isolated from other SQL Server instances. SQL Server instances can operate side-by- side on the same computer. Prerequisites for selected features: Already installed: Microsoft. NET Framework 4.0 Microsoft. NET Framework 3.5 To be installed from media: Microsoft Visual Studio 2010 Shell
	Select All Unselect All Shared feature directory:	C:\Program Files\Mic	rosoft SQL Server\
	Shared feature directory (x86):	C:\Program Files (x86)\Microsoft SQI. Server\

continue.





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

Specify the name and instance	n e ID for the instance of SC	L Server, Instance ID b	secomes part of the in	stallation path.	
etup Support Rules Feature Selection Installation Rules	 Default instance Named instance: 	SQL2012EXPRESS			
nstance Configuration Jisk Space Requirements Server Configuration Database Engine Configuration	Instance ID: Instance root directory	: C:\Program Files\N	/licrosoft SQL Server∖		
rror Reporting nstallation Configuration Rules nstallation Progress Complete	SQL Server directory: Installed instances:	C:\Program Files\M	licrosoft SQL Server\M	ISSQL11.	
	Instance Name	Instance ID	Features	Edition	Version
	MSSQLSERVER	MSSQL10_50.MSSQ	SQLEngine, SQLEn	Developer	10.52.4000.0
	SQLEXPRESS	MSSQL10.SQLEXPR	SQLEngine, SQLEn	Express	10.3.5500.0
	SQL2008EXPRESS	MSSQL10.SQL2008	SQLEngine	Express	10.3.5500.0
	<shared compone<="" td=""><td></td><td>SSMS, Adv_SSMS,</td><td></td><td>10.52.4000.0</td></shared>		SSMS, Adv_SSMS,		10.52.4000.0

continue.

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

Specify the service accounts an	d collation configuration.				
Setup Support Rules	Service Accounts Collation				
Feature Selection Installation Rules	Microsoft recommends that you	use a separate account for each	SQL Server serv	ice.	
Instance Configuration	Service	Account Name	Password	Startup Type	
Disk Space Requirements	SQL Server Database Engine	NT Service\MSSQL\$SQL		Automatic	-
Server Configuration	SQL Server Browser	NT AUTHORITY/LOCAL		Disabled	-
Error Reporting Installation Configuration Rules Installation Progress					
Error Reporting Installation Configuration Rules Installation Progress Complete					

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

Server Configuration Specify the service accounts ar	d collation configuration.	
Setup Support Rules Feature Selection Installation Rules Installation Rules Installation Rules Server Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Service Accounts Collation Database Engine Latind_General_CLAS Latind_General_CLAS Latind_General_case-insensitive, accent-sensitive, kanatype-insensitive width- insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for nor Unicode Data	Customize
	< Back Next > Conce	Help





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:

elect the collation you would	like to use:
Windows collation designation	or and sort order
Collation designator:	Albanian
Binary	Binary-code point
Case-sensitive	🗌 Kana-sensitive
Accent-sensitive	Width-sensitive
SQL_Collation, used for back SQL_Hungarian_CP1250_CI_AS SQL_Iungarian_CP1250_CS_AS SQL_Lelandic_Pref_CP1_CI_AS SQL_Latin1_General_CP1_CI_AS	S S
Collation description:	

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 contact 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.

Specify Database Engine authe	guration	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Database Engine Configuration Rules Installation Configuration Rules Installation Progress Complete	Server Configuration Data Directories User Instances. FILESTREAM Specify the authentication mode and administrators for the Databas Authentication Mode Windows authentication mode Windows authentication mode Windows authentication and Windows authentice Specify the password for the SQL Server system administrator (sa) ac Enter password: Confirm password: Specify SQL Server administrators	e Engine. tion) count.
	CAPMarkRobinson (Mark Robinson) Add Current User Add Remove	SQL Server administrators have unrestricted access to the Database Engine.





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

Click "Next" to continue.

Setup Support Rules Server Configuration Data Directories User Instances FILESTREAM Installation Rules Data root directory: C\Program Files\Microsoft SQL Server\ Disk Space Requirements Server Configuration System database directory: C\Program Files\Microsoft SQL Server\ Server\MSSQL11.SQL2012EXPRESS\MSSQL1.Data Database Ingine Configuration User database directory: C\Program Files\Microsoft SQL Server\MSSQL11.SQL2012EXPRESS\MSSQL1.Data Database Ingine Configuration User database directory: C\Program Files\Microsoft SQL Server\MSSQL11.SQL2012EXPRESS\MSSQL1.Data Installation Configuration Rules User database directory: C\Program Files\Microsoft SQL Server\MSSQL11.SQL2012EXPRESS\MSSQL1	_
Temp DB log directory: C:\Program Files\Microsoft SQL Server\MSSQL11.SQL2012EXPRI Backup directory: C:\Program Files\Microsoft SQL Server\MSSQL11.SQL2012EXPRI	

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

Error Reporting Help Microsoft improve SQL S	erver features and services.
Setup Support Rules Freature Selection Installation Rules Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012. Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< Back Next > Cancel Help

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

Installation Progress	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Install_SqlWriter_Cpu64_Action : ProcessComponents. Updating component registration
	Next > Cancel Help





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

Setup Support Rules Information about the Setup operation or possible next steps: Feature Selection Database Engine Services Installation Rules Successed ad Installation Rules Successed ad Server Configuration Successed ad Database Engine Configuration Successed ad Installation Configuration Successed ad Installation Configuration Rules Successed ad Installation Progress Complete Viewing Product Documentation for SQL Server Details: Viewing Product Documentation for SQL Server Only the component shat you use to view and manage the documentation for SQL Server Only the component shat you use to view and manage the documentation to your local computer. For more information, are Use Micropot Books Online for SQL Server. Suttry of the habes here saved to the following location: Chapter Status Chapter of the Setup Optional Science (Control Social Science) Successed Science) Summary log file hab been saved to the following location: Chapter Science) Chapter of the Setup Optional Librox/Science) Summary Log Viewing Viewing Science) Summary Log Viewing V	Your SQL Server 2012 installar	tion completed successfully with product upd	ates.	
Facture Status Installation Rules Distatuse Engine Status Installation Rules Signatures Server Configuration Succeeded Eror Reporting Succeeded Installation Configuration Succeeded Eror Reporting Succeeded Installation Configuration Succeeded Statistics Succeeded Universities Details: Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component use the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, area Use Microsoft Books Online for SQL Server. Summary log His has been saved to the following location: C.\Pergram Files\Microsoft SQL Server/110.Setup Bookstrep\Log\20140314 150052. Summary WSQU254.201403124 1100S21.tx Summary View SQU240.201401.110.Setup Bookstrep\Log\	Setup Support Rules	Information about the Setup operation or	possible next steps:	
Instance Configuration Dick Space Requirements Source Reglucation Sour	Installation Rules	Feature	Status	_
Instance Configuration Disk Space Requirements Solt Server Replication Solt Se	anstanation reales	Database Engine Services	Succeeded	
Disk Spoc Requirements Sports Configuration Database Engine Configuration Enor Reporting Installation Configuration Rules Installation Configuration Rules Installation Progress Complete Viewing Product Documentation for SQL Server Unly the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, are Uses Micropott Books Online for SQL Server. Summary log file has been sixed to the following location: C.LPinggram File/Wilcropott 2016/Server/110/Setup Bookstrapi\Logi/20140314 150052 Summary WS01254. 20140314 150052.	Instance Configuration	SQL Server Replication	Succeeded	
Server Configuration SQL Writer Succeeded Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Details: Details: Complete Obj the components that you use to view and manage the documentation for SQL Server Obj the components that you use to view and manage the documentation for SQL Server rate is the online library. After installation pour local is computer. For more information, see Use Microsoft Books Online for SQL Server. Summary log file has been sweed to the following location: C\Librargam Files\Microsoft SQL Server. Summary WSS01254_20140314_150052_L Summary WSS01254_20140314_150052_L	Disk Space Requirements	SQL Browser	Succeeded	
Database Engine Configuration Error Reporting Installation Configuration Rules Installation Configuration Rules Installation Progress Complete Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer, For more information, are Use Micropolt Books Online for SQL Server - - - - - - - - - - - - -	Server Configuration	SQL Writer	Succeeded	
Error Reporting Installation Configuration Rules Installation Configuration Rules Installation Configuration Rules Installation Configuration Rules Installation Progress Complete Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server. http://go.microsoft.com/Wink/?LinkUD=2246832 . Summary log file has been saved to the following location: Component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server. 	Database Engine Configuration			
Installation Configuration Rules Installation Progress Complete Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Ularay Component uses the online library. After installing SQL Server, you can use the Help Ularay Component uses the online library. After installing SQL Server, you can use the Help Ularay Component uses the online library. After installing SQL Server (Server) Complete Summary log file has been saved to the following location: C\Pengame Files\Microsoft SQL Server\UlloSetup Bootstrep\Log\20140314 150052 Summary WSQL254 20140314 150052.txt	Error Reporting			
Installation Progress Complete Viewing Product Documentation for SQL. Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server. http://go.microsoft.Books Online for SQL Server. Summary log file has been saved to the following location: http://go.bis.prov/linkID=224683> Summary WS01254_20140314_150052_listmm	Installation Configuration Rules			
Complete Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server. Summary log file has been seved to the following location: C\Program Files\Microsoft SQL Server. Summary WSS01254_20140314_150052_L Summary WSS01254_20140314_150052_L	Installation Progress	Details:		
Summary log file has been saved to the following location: C\\Program File\\Microsoft SQL Serve\110\\Stup Bootstrep\Log\20140314_150052 \Summary WKS01254_20140314_150052.txt	Complete	Viewing Product Documentation for Only the components that you use to been installed. By default, the Help Vi SQL Server, you can use the Help Lib your local computer. For more informs child (ing microard com/beink/2) inkl	or SQL Server view and manage the documentation for SQL Server have ever component uses the online library. After installing rary Manager component to download documentation to titon, see Use Microsoft Books Online for SQL Server. Dr.2246835	- (m)
Summary log file has been saved to the following location: C\Program Files/Microsoft SOL Server\1105tetup Bootstrap\Log\20140314_150052 \Summary_WKS01254_20140314_150052.txt		Service Sol Contraction of Contraction		1
C\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140314 150052 \Summary WKS01254 20140314 150052.txt		Summary log file has been saved to the fo	llowing location:	
		C\Program Files\Microsoft SOL Server\11 \Summary_WKS01254_20140314_15005	0\Setup Bootstrap\Log\20140314_150052 2.txt	

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 theAdd 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.
- 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.





6. 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:

Aug hores and readines means	Long Barry
	DESTINATION SERVER WIN-2EJE289TMQE
Select one or more features to install on the selected server Features	Description
NET Framework 3.5 Features NET Framework 3.5 (includes NET 2.0 and 3.0)	 NET Framework 3.5 combines the power of the .NET Framework 2.0 ABIs with new technologies for
HTTP Activation	building applications that offer
Non-HTTP Activation	appealing user interfaces, protect
Image: Installed instal	your customers' personal identity information, enable seamless and
Background Intelligent Transfer Service (BITS)	secure communication, and provide
BitLocker Drive Encryption	the ability to model a range of
	Select one or more features to install on the selected server Features

 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/i nstall- net-framework-35-server-2012/



Add Roles and Features Wizard Specify Alternate Source Path Some servers might not have all source files available to add all roles, role services, or features. The source files might not have been installed, or might have been removed by users after the operating system was installed. If the server on which you want to install roles or features does not have all required source files, the server can try to get files by using Windows Update, or from a location that is specified by Group Policy. You can also specify an alternate path for the source files, if the destination server does not have them. The source path or file share must grant Read permissions either to the Everyone group (not recommended for security reasons), or to the computer (local system) account of the destination server; granting user account access in not sufficient. The following are examples of a valid source file path where the destination server is the local server, and where the E drive contains the Windows Server installation media. Source files for .NET Framework 3.5 Features are not installed as part of a typical installation, but are available in the side-by-side store (SxS) folder: E\Sources files for other features are available in the Install.wim file. Add the WIM: prefix to the path, and a suffix to indicate the index of the image from which to get source files. In the following example, the index is 4: WIMEE\Sources\Unstall.wim4 Path: [\server\WinBMedia\sources\axs]

OK Cancel



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 <u>http://business.cap.co.uk/subscribers/sql and login with your subscriber Id and password, as supplied by support@cap.co.uk.</u>

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.

CAP DataTransfer -	
CAP WEB UPDATE	
Jata Transfer Session Status Completed c	View >
	Version 2.59
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.	Database Proxy User Details Veedserver Batch mode Settings Connection String to the Master database: SQL Authentication only Build Directory to use for Bulk Inserting files: (Provide a UNC path) eg. VerocessData Directory on SQL Server to store Data files: eg. D/SQLDATA Directory on SQL Server to store Log files: eg. E:\SQLLOGS Publish Admin User Password: Test Database Settings Close Close
Provider Connection Advanced All Provider Connection Advanced All Select the data you want to connect to: Image: Connection MediaCatalogDB OLE DB Provider MediaCatalogDB OLE DB Provider MediaCatalogMergedDB OLE DB Provider Image: Connection Microsoft OLE DB Provider for Analysis Services 9.0 Microsoft OLE DB Provider for D15 Packages Image: Connection Microsoft OLE DB Provider for Indexing Service Image: Connection Image: Connection Image: Connection Microsoft OLE DB Provider for Indexing Services Image: Connection Image: Connection Image: Connection Microsoft OLE DB Provider for Indexing Services Image: Connection Image: Connection Image: Connection Microsoft OLE DB Provider for Indexing Services Image: Connection Image: Connection Image: Connection Microsoft OLE DB Provider for OLAP Services Image: Connection Image: Connection Image: Connection Microsoft OLE DB Simple Provider for SOLS. Image: Connection Image: Connection Image: Connection Microsoft OLE DB Simple Provider for SOLS. Image: Connection Image: Connection Image: Connection Microsoft OLE DB Simple Provider for SOLS. I	On the provider tab: Select 'Microsoft OLE DB Provider for SQL Serv





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'

🖢 Data Link Properties 🛛 🔀
Provider Connection Advanced All Specify the following to connect to SQL Server data: 1. Select or enter a server name: DARRENLODGEDELL'SOLEXPRESS Befresh
2. Enter information to log on to the server:
User name: sa Password: ssss Blank password I Allow saving password 3. Select the database on the server:
master
master Using the filename:
OK Cancel Help

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:

atabase	Proxy	User Details	Webserver	Batch mode Settings		
Connect	ion String t	o the Master dat	abase:	S	QL Authenti	cation only
data sou	arce=DARF		SQLEXPRESS;p	ersist security info=False;us	erid=sa;pa	Build
Director	y to use fo	r Bulk Inserting fi	iles: (Provide a l	JNC path)	eg. VPro	ocessData
c:\datatr	ansfer\pro	cess				
Director	y on SQL S	Server to store Da	ata files:		eg. D:V	SQLDATA
c:\datatr	ansfer\sqi	data				
Director	y on SQL S	Server to store Lo	og files:		eg. E:\S	GLLOGS
c:\datatr	ansfer\sql	data				
		Publish /	Admin User Pas	sword:		
			Test Databa	ase Settings		
			Clo	se		

Web Sites:

www.cap-hpi.com

Web Pages:

www.capdownload.co.uk/cap datatransfer webservice/datatransfer webservice.asmx





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 <u>http://www.capdownload.co.uk,</u> you can enter this value in cap Primary Server.

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 <u>support@cap-hpi.com</u>

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.

Database	Proxy	User Details	Webserver	Batch mode Settings	
CAP Pri	nary Serve	r:			
		r	ttp://www.cape	fownload.co.uk	
CAP Do	wnload Sei	vers:			
ratp.ma	www.capdu	Windu.CU.UK			
			Test Webser	ver Settings	

Database	Proxy	User Details	Webserver	Batch mode Settings	
	Subscriber II): 0			
	Password:				
	Email addres	s:			
			(for s	ending error reports)	
		_	Test User Pri	ofile Settings	

E di di bulo di	Proxy	User Details	Webserver	Batch mode Settings
When the and imme	application	i is started using ok for any new d	a /BATCH com lata to downloa	mand line parameter, the software will start d.
Once any	new data	has been import	ed (or no new c	lata is found), the application will then close.
You can u	ise batch m	ode if you do no	t wish to leave	he software running constantly, or if you
prefer to	schedule th	ie download usir	ng a third party s	cheduler such as Windows Scheduler.
-				
l Emai	l me a notif	ication when the	application sta	rts in batch mode
Emai	l me a repo	rt after the appl	ication complete	s in batch mode
			Save Batr	h Settings
			Jure Duie	n ocungs





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.

Action View Help			
sk Scheduler (Local)	Taak Scheduler Summery d.ait wheelead: 05/05/2014 14:30:10)		Actions
Task Scheduler Library	Overview of Task Scheduler		Task Scheduler (Local)
	White per use Task Exhibition to speads and measure common tasks that your computer will comy not automatically at that time your speeds given that any spead of the Antoin measure. Tasks are closed in follows in the Task Scheduler Useray. To view or perform an operation on an includual task, select the task in the Task Scheduler Useray. Task Status	• To	Context to inform Computer Context Sister Task Context Task Import Task Context Task Explore All Running Tasks Explore Art Tasks Hotory AT Service Account Configurati
	Status of tasks that have started in the following time period Lett 24 hours	~	View
	Summary 0 total - 0 running, 0 succeeded, 0 stopped, 0 failed		12 Help
	Active Tasks Active tasks that are currently enabled and have net appind.		
	Summary 23 total		
	Yask Name Ned Kun Time Triggers Location Consolidates 0007/2014 210060 400000 m01/09/2004	C # 2	
	T and sedimethood of DB/D112011a 1a-10-10	fresh	l,
	Action View Help Time Action (Action) is Scheduler (Action) Teak Scheduler Likerty	Marrier Non-State (Section Control (Sectin Contro) (Section Control (Sectin Control (Section Con	Materia Notes Set

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	General Trigger When you creat	SQL DataTransfer Properties (Local Computer) S Actions Conditions Settings History te a task, you can specify the conditions that will trigger the task.	
and write to the folders that	Trigger	Details	Status
were specified in the	Daily	At 04:00 every day	Enabled
<u>configuration of the application</u> .	New	Edit Delete	OK Cancel





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.

_			1					
Seneral	Triggers	Actions	Conditions	Settings				
When	you create	a task, yo	u must specif	y the action that will	occur when yo	our task starts	5.	
Actio	n	Det	tails					
Start	a program	"C;	\DataTransfer	\Data\DataTransferL	oader.exe"			
<				2, 2,			>	
Ne	W	Edit	Delet	e				
						OK		Cancel

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.

Name:	Triggers	Actions	Conditions	Settings	History	
	SQ	L DataTran	isfer			
Location	n: \					
Author:	CA	P\adminis	trator			
Descript	tion:					
Securit	y options					
When	running	the task, us	e the followin	ng user acc	unt:	
CAP	Administr	ator			Change User	or Group
O Ru	n only wh	en user is l	ogged on			
• Ru	n whether	r user is log	ged on or no	t		
	Do not s	tore passw	ord. The task	will only h	ve access to local computer resources.	
Ru	n with hig	hest privile	eges			
🗌 Hidd	len	Configu	re for: Wind	lows Vista	Windows Server [™] 2008	
					ОК	Cancel
				_		
	_					

Jeneral	1	recoons		seconds	rinktory		
Specify run if Idle	the condition the condition of the condi	tions that, ion specifi	along with the ed here is not	he trigger, true.	determin	e whether the task sh	nould run. The task will not
Star	t the task o	only if the	computer is i	dle for:		10 minutes	~
	Wait	for idle fo	C:			1 hour	~
St St	top if the co	omputer c	eases to be id	lle			
	Restart if th	he idle stat	te resumes				
Power					_		
✓ Star	t the task o	only if the	computer is o	on AC pow	er		
St St	top if the co	mouter s	witches to ba	ttery nowe	YE.		
101 De							
U Wal	ke the com	puter to ru	un this task				
Wal Netwo	ke the com	puter to ru	un this task				
Wal	ke the com rk rt only if the	puter to ru e following	un this task g network coi	nnection is	s available	4	
Wal	ke the com rk t only if the connection	puter to ru e following	un this task g network coi	nnection is	i available	4	
Wal	ke the com rk t only if the connection	puter to ru e following	un this task g network coi	nnection is	; available		
Wal Netwo	ke the com rk t only if the connection	puter to ru e following	un this task g network coi	nnection is	; available	6	
Wal Netwo	ke the com rk t only if the connection	puter to ru e following	un this task g network coi	nnection is	i available	4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Wal Netwo	ke the com rk t only if the connection	puter to ru e following	un this task g network cor	nnection is	i available	4	v
Wall	ke the com rk t only if the connection	puter to ru e following	un this task g network coi	nnection is	; available		~





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 <u>pre-requisites</u> for guidance.

Sener	ral 1	Triggers	Actions	Conditions	Settings	History			
Spe	cify a	dditiona	l settings	that affect the	behavior	of the task.			
~	Allov	v task to	be run on	demand					
	Run t	task as se	oon as po	ssible <mark>a</mark> fter a s	cheduled :	tart is miss	ed		
	If the	task fail	s, restart e	every:			1 minute 🗸		
	Atter	npt to re	start up to	21			3 times		
~	Stop	the task	if it runs l	onger than:			3 days 🗸]	
~	If the	running	task doe	s not end whe	n requeste	d, force it t	o stop		
	If the	task is r	not schedu	led to run aga	ain, delete	it after:		30 days 🕓	·
If th	ne tasi	k is alrea	dy runnin	g, then the fol	lowing rul	e applies:			
Do	not st	tart a ne	w instance		~				
									(

	PDATE	
Session Activity		Cancel
Starting Data Transfer Transferring Processing Package: 20070710-Publish-Update-F Processing(downloading) Processing(processing) Processing(processing) Processing(checking packets) Processing(checking packets) Starting Packet (processing) Processing Packet (processing) Processing Packet (processing files) Finished Packet OK	Package.zip	
Configuration	Run Now	Schedule

Session: (1) Run Now	Started: 30/06/2	2008 13:18	Finished: 30/06/2008 13:18 Duration: 00:00:03
Package Name	Started	Finished	Details
0070710-Publish-Update-Package	13:18:14	13:18:16	completed
Packet Name	Started	Finished	Details
pplication_files	13:18:16	13:18:16	completed





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'):-

CAP DataTransfer			
	ATE		THE AS
WEB OF E			
Data Transfer Session	Status	Completed	View
Data Transfer Session (8) Open Package (Started: 17/02/2014 14:37)	Status	Completed 17/02/2014 14:38	View
Data Transfer Session (8) Open Package (Started: 17/02/2014 14:37) (7) Run Now (Started: 13/02/2014 12:43)	Status failed failed	Completed 17/02/2014 14:38 13/02/2014 15:38	View 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:-

Session: (6) Run Now	Started: 13/0	02/2014 09:22	Finished: 13/02/2014 Duration: 02:49:02	12:1
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	*
•	 _			•
Packet Name	 Started	Finished	Details	

Session: <mark>(</mark> 6) Run Now	Started: 13/	02/2014 09:22	Finished: 13/02/2 Duration: 02:49:02	014 12:11
Package Name	Started	Finished	Details	
20140212-HEAVIES-PublishDB-Vehicles	09:22:20	09:22:37	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	
4	111			
Packet Name	Starter	f Finished	Details	•
Packet Name	Starter	f Finished	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:-

Windows can check online for a solution to the problem.
Check online for a solution and close the program
Close the program
Debug the program

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 <u>SQL Datatransfer Configuration</u> section).

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

Exception details:

```
Process Package (20140314-LIGHTS-PublishDB-Vehicles.zip)::Could not prepare directory 'C:\datatransfer'.
The error returned was: Could not empty directory C:\datatransfer
```

You will receive the above error IF

- a) the windows account running the task scheduler does NOT have full control over the folder mentioned above or
- b) you have setup the download folder (<u>SQL Datatransfer Application Installation</u>) 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'<u>SQL</u> <u>Express Database size limits</u>'

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 <u>Process Data</u> 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	Typica l 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	Monthly Product (3 working days from end of month) See http://business.cap.co.uk/subscribers/d ata- downloads	Monthly incrementa l update.
Used Values Live	38MB (typica l month)	Cars only	Daily Update available	Incremental changes throughout the month, plus monthly snapshot.
New Gold Book/Monitor Values	6MB	Car, LCV, HGV & Bike	Monthly Product (3 working days from end of month) See http://business.cap.co.uk/subscribers/d ata- downloads	Monthly incrementa l update.
Used Gold Book/Monitor Values	20MB	Car, LCV, HGV & Bike	Monthly Product (3 working days from end of month) See http://business.cap.co.uk/subscribers/d ata- downloads	Monthly incrementa l 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

