

## Image ASCII Download Application

### Table of Contents

1.	Requirements .....	2
2.	What does this application do? .....	2
3.	Basic Application Setup .....	3
4.	Create Re-sized image sets.....	3
5.	Deleting unwanted Re-sized images sets .....	3
6.	Downloading the Images for the first time .....	4
7.	Updating the Images .....	4
8.	Automating the update process.....	4
9.	Technical Details .....	4

### Requirements

The download application is designed to run on Microsoft Windows Operating systems, it has been tested on 32 and 64 bit versions of windows 7 and Windows Server 2008.

- 1) The 'CAPIImages.exe' application. Available for download from <http://business.cap.co.uk/subscribers/ascii>
- 2) A subscription to one or more of the following products.
  - Car Images - Supports 5 exterior image view points and an interior image
  - Car Images (Legacy Single Image) – Single front ¾ exterior image of vehicles
  - LCV Images (Single Image) – Single front ¾ exterior image of vehicles
- 3) Microsoft .Net Framework 4
- 4) Configuration details, your subscriber ID and password
- 5) An Internet Connection to transfer the images to the local computer.

There should be 4GB of free space on the machine, however the application enables libraries of resized images to be created, this will increase the amount of space required.

### What does this application do?

The Images download application allows the download of the full cap hpi image database (subject to appropriate subscription) and then subsequent image updates. The application can be used for the following:-

- 1) Download and Update Vehicle Images supplied by cap hpi at an image resolution of 1024x 768
- 2) Create libraries of user defined re-sized images ready for use on web sites or in applications.

The application can be either run interactively or setup to run via Windows Scheduler for automated updates.

## Basic Application Setup

Below is a set of instructions which will enable the application to create the base library of available images at 1024 x 768 resolution.

- 1) Create a folder on the computer that will run the application. E.g C:\CAPIImages
- 2) Make sure that permissions give full access to the folder Read / Write / Create / Modify / Delete
- 3) Extract the CapImage.exe file from the compressed archive and place in application folder
- 4) Run the application for the first time
- 5) Click on 'Configuration'
- 6) Enter the 'Subscriber ID' and 'Password' supplied to you by cap hpi.
- 7) Enter your e-mail address, used to verify the configuration setup.
- 8) If you are using a Proxy, tick 'Use Proxy' and enter the appropriate details.
- 9) Click on the 'Test Connection' button.
- 10) A screen confirmation and email will verify the setup.
- 11) Press the 'Close' button.

## Create Re-sized image sets

The application can create re-sized images sets, there is no limit to the number of sizes that can be created. (This does not require an internet connection.)

By default the download application creates a 'master' library of all images, these are stored at a resolution on 1024 x 768. To create a set of images at a required size do the following.

- 1) Set the 'Output Folder' to the desired location of the image set that you wish to create. This can be:-
  - The same location as the download application.
  - A folder on the local computer
  - A Mapped Network Drive
- 2) Click on the 'Add' button at the bottom of the screen.
- 3) A new dialog will appear.
- 4) Select the vehicle 'Type' for the image set. Note: The appropriate subscription is needed for the different image types.
- 5) Enter a 'SetName', this will become the folder that the images are stored in, within the 'Output Folder'
- 6) Enter the required 'Width' or 'Height' Note: The aspect ratio will be maintained when entering values.
- 7) Select the appropriate 'Image Format'. There is a choice of JPG, PNG or BMP
- 8) Press the 'Save' button.

At this point a new entry will appear in the main dialog box on the screen.

The above process can be repeated as many times as appropriate to build up several sets of different sized re-sized image sets.

## Deleting unwanted Re-sized images sets.

If you no longer require a particular re-sized image set simply double click on the appropriate row that required deleting. A prompt confirming the deletion will appear.

## Downloading the Images for the first time.

The initial download of images may take some time to process. The first download creates the complete library of images at 1024 x 768 resolution.

Once the library has been downloaded the resized images are created. This part of the process uses the locally stored Image Library to create the re-sized images. The internet is not used when creating the re- sized images.

To perform the download press the 'Update Image Sets' button, the status bar at the bottom of the screen will update with relevant information, once the process is complete a success dialog confirms that the process has finished.

## Updating the Images

The Image products should be updated on a regular basis. The application will only download images that are not held within the local library. Usually this process happens quite quickly. New images are downloaded into the local library and then resized images are created as needed.

## Automating the update process

It is possible to run the download program and perform updates automatically. The program should be run with the /batch parameter added. The application launches and performs an update, downloading required images and resizing as necessary. Once everything has been updated the application closes.

By using the /batch parameter it is possible to either include the update within a batch process or alternatively directly schedule the application to run on a specific time schedule.

## Technical Details

### Folder Structure

It is suggested the C:\CAPIImages is used as the default folder, but this is not mandatory.

The application will create the image library in sub folder called 'Original Images' under the main folder.

This library holds all the full size 1024 x 768 images, the application manages this folder and it should not be modified.

Resized Images again can be stored in any folder, a folder using the 'Set Name' is created under the storage path \ vehicle type folder. If there are several sets of images there will be several folders. E.g.

C:\CAPIImages\CAR\Small or C:\CAPIImages\LCV\Display.

The application will create CAR and LCV folders as appropriate to your subscription. Each folder contains an Image ASCII and a Vehicle ASCII folder, which contain data files which will enable the images to be linked to vehicle descriptions and codes/ID's

## ASCII Files

Upon initial download, a set of ASCII files will be created which can be used to link the images to specific cap IDs. These files are also updated when new images are updated. The following files are supplied:

File Name (CAR or LCV)	Description
<b>Image ASCII sub-set (prefix database_YYYY-MM-DD)</b>	
NVDDictionaryImage_Viewpoint.txt	Provides the viewpoint name for each image view point.
NVDImageSet_ViewPoint.txt	Determines if the image id forms part of a set.
NVDModelYear.txt	The table provides the Model Year reference and effective dates for any given cap id.
CIMAGE.mdd	This file contains numerical look up references to Manufacturer, Model, and Derivative details as found in Vehicles tables below.

<b>Vehicle ASCII sub-set (suffix denotes month &amp; date of publication – e.g. N21)</b>	
Cman.###	This table provides all of the manufacturer names each with a unique code
Cmodran.###	This table provides all of the range names, each with a unique code and a reference to the manufacturer code to which they belong.
Cmod.###	This table provides all the model range names, each with a unique code and a reference to the manufacturer and range code to which they belong.
Ctrim.###	This gives all the trim descriptions, each with a unique code and a reference to the manufacturer, range & model range code to which they belong.
Cder.###	Table contains vehicle codes and description with lookups back to the tables listed above.