

# Pedestrian Dynamics Installation Guide

## *Pedestrian Dynamics 3*

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## Steps To Install

This document describes the installation procedure for Pedestrian Dynamics for users who received a ticket to collect their license.



- Your software is protected with an online license activation system. For the software to work, you require a working internet connection. Before installation, read this document and the **system requirements**.



- Pedestrian Dynamics is proven compatible with Windows 10, Windows 8, Windows 7 and Windows Vista. You must have Administrator rights to install the software.



- Installing Pedestrian Dynamics on a network can be done in two ways. One is to install the application on all client computers. The other is to install the application on the server, and to run it from the client computer.

### Stand alone installation

#### To install the software:

- You receive the software digitally. You find a download link in the license document. On the download page, select the installer that matches your product and is compatible with your intended installation Operation System. Launch the installer when the download is complete.
- Follow the steps in the installation wizard. When you are asked for the type of installation, leave this selection unchanged (stand-alone).
- When the installation is complete, please verify that you have the Codemeter Runtime Kit installed and a license container is present. This is the case when a red icon is visible in the taskbar: 
- Proceed to the activation section in order to activate your license.



- Make sure that you install every major release from Pedestrian Dynamics into a new directory. Minor releases must be installed into an existing major release install directory.
- When you re-install the software, make sure that you do not de-install the Codemeter Runtime Kit and license information.
- If you don't see this icon in your taskbar, please contact us to setup your license container.
- It is not possible to place the licenses on virtualized hardware.

### Network installation

#### To install the software:

- You receive the software digitally. You find a download link in the license document. On the download page, select the installer that matches your product and is compatible with your intended installation Operation System. Launch the installer when the download is complete.
- During the installation wizard, you receive a window asking for the type of installation.
  - On a network client, select option 2: Network client installation. When the installation is complete, please verify that you have the Codemeter Runtime Kit installed. This is the case when a grey icon is visible in the taskbar: 
  - On a network server, select option 3: Network server installation. When the installation is complete, please verify that you have the Codemeter Runtime Kit installed and a license container is present. This is the case when a red icon is visible in the taskbar: . Note that the Pedestrian Dynamics software is not installed on the server.
- If you are setting up a client-server configuration with multiple clients, please read the "installer parameters and installer types" section to support silent installations.



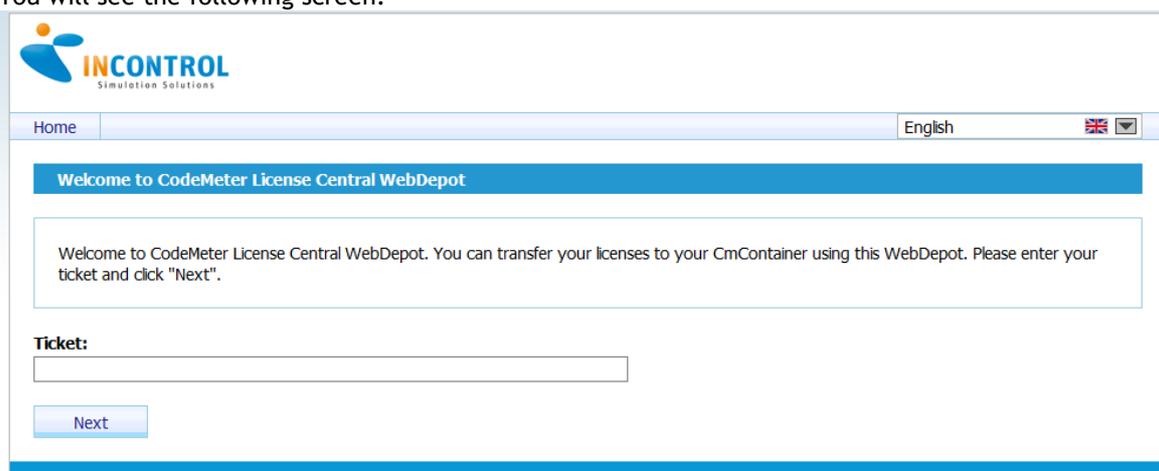
- Make sure that you install every major release from Pedestrian Dynamics on the client into a new directory. Minor releases must be installed into an existing major release install directory.
- When you re-install the server, make sure that you do not de-install the Codemeter Runtime Kit and license information.
- If you don't see this icon in your taskbar, please contact us to setup your license system.
- It is not possible to place the licenses on virtualized hardware. If you require hardware supporting your virtual environment, please contact INCONTROL.

## Activation

### Direct activation using a web browser

You have installed the software on your computer and the red icon is visible in the taskbar. Your computer has a working internet connection.

1. With your software, you received a ticket to collect your license. At the end of the installation process you can leave the 'License Pedestrian Dynamics' checkbox ticked and it will direct you to the URL to activate your license. Alternatively, you can select the option 'Activate License' from the start menu or start screen. It will open your web browser with the following URL: <https://lc.codemeter.com/63706/depot/index.php>
2. You will see the following screen:



Welcome to CodeMeter License Central WebDepot

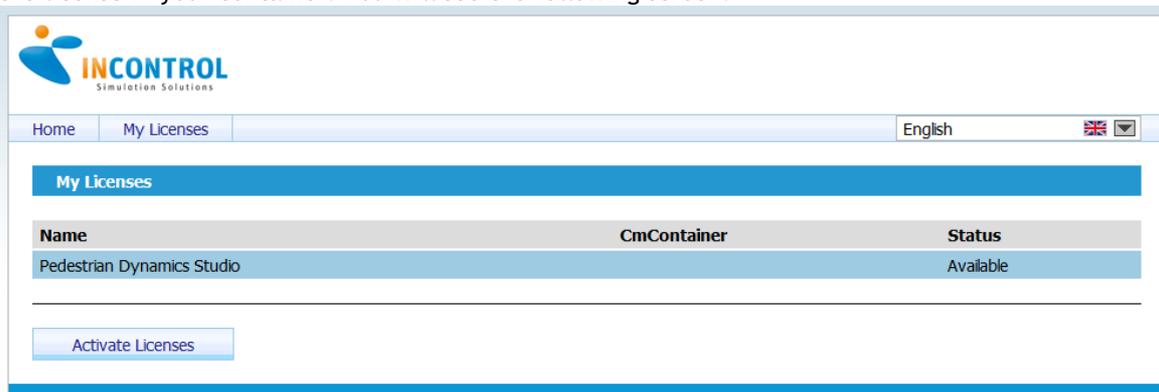
Welcome to CodeMeter License Central WebDepot. You can transfer your licenses to your CmContainer using this WebDepot. Please enter your ticket and click "Next".

Ticket:

Next

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3. Enter your ticket in the 'Ticket' field and press 'Search'. Your ticket has the following format: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
4. You might receive a security warning to allow access from <https://lc.codemeter.com> to the application (WIBU-SYSTEMS AG). Allow the add-on to run or choose offline activation. The changes are needed to place the license in your container. You will see the following screen:



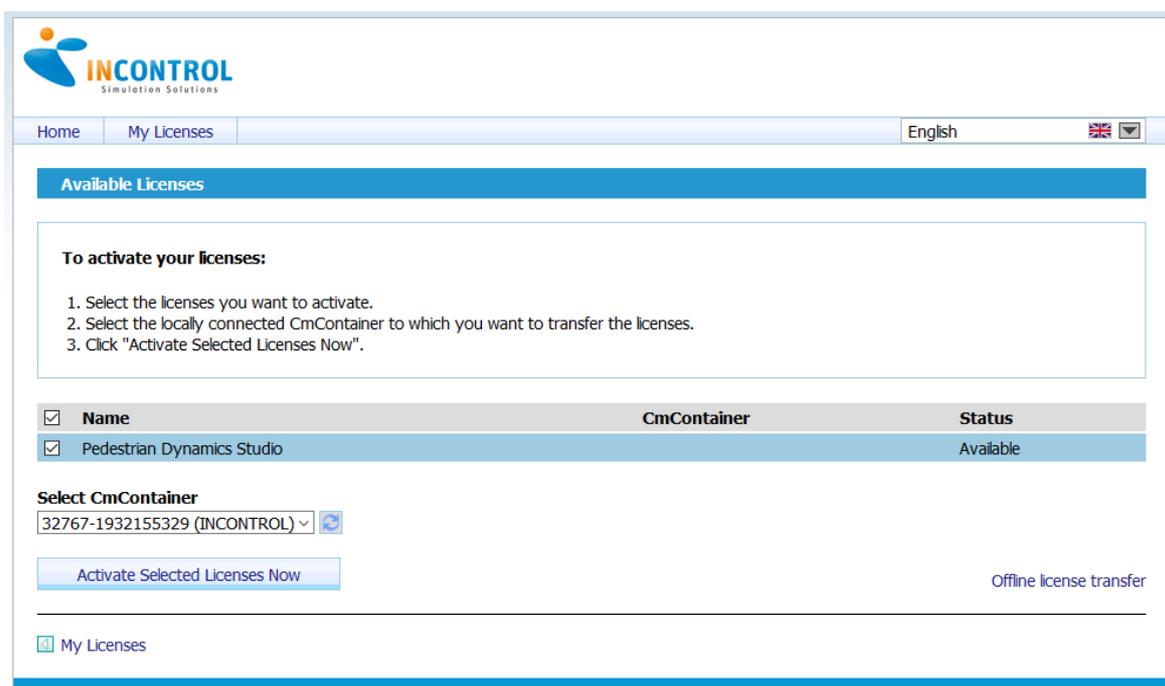
My Licenses

Name	CmContainer	Status
Pedestrian Dynamics Studio		Available

Activate Licenses

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5. Pressing 'Activate Licenses' will display the following screen:



**Available Licenses**

**To activate your licenses:**

1. Select the licenses you want to activate.
2. Select the locally connected CmContainer to which you want to transfer the licenses.
3. Click "Activate Selected Licenses Now".

<input checked="" type="checkbox"/>	Name	CmContainer	Status
<input checked="" type="checkbox"/>	Pedestrian Dynamics Studio		Available

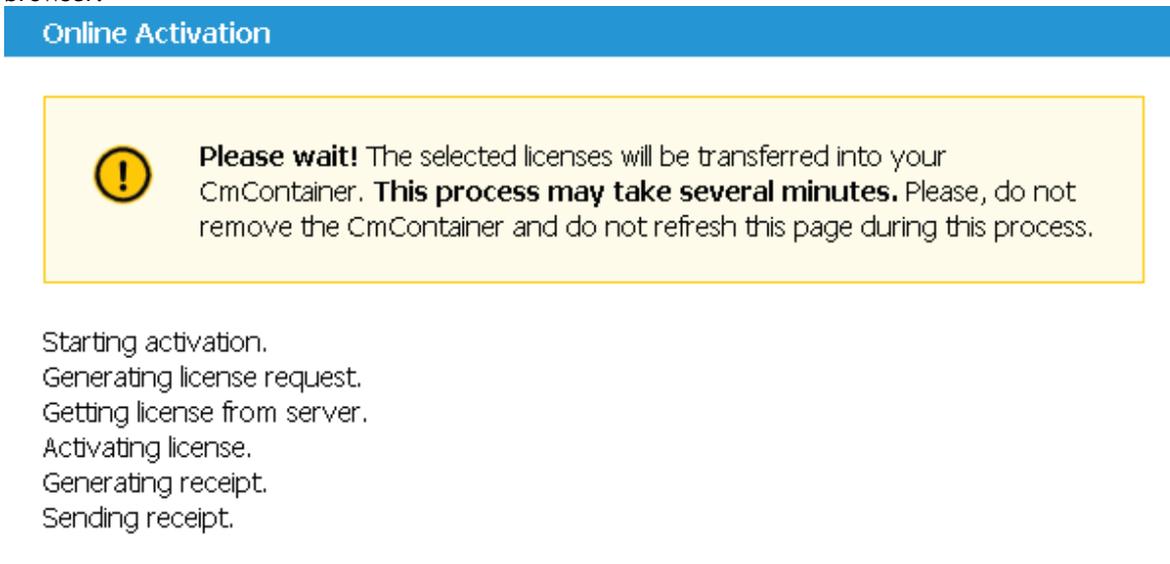
Select CmContainer  
32767-1932155329 (INCONTROL) 

[Activate Selected Licenses Now](#) [Offline license transfer](#)

[My Licenses](#)

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When everything is setup correctly, you will see a unique identifier in the CmContainer dropdown selection. If you update an existing license, you will the unique container ID holding the license. Press 'Activate Selected Licenses Now' and the license will be placed on your computer. The following progress is shown in your browser:

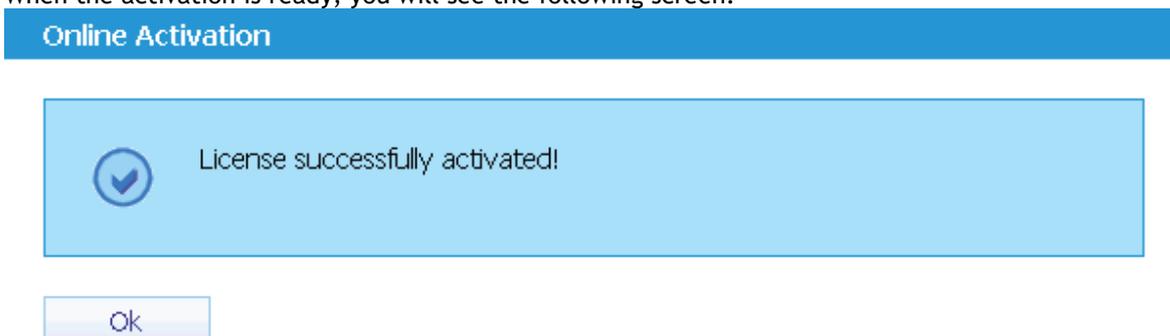


**Online Activation**

 **Please wait!** The selected licenses will be transferred into your CmContainer. **This process may take several minutes.** Please, do not remove the CmContainer and do not refresh this page during this process.

Starting activation.  
 Generating license request.  
 Getting license from server.  
 Activating license.  
 Generating receipt.  
 Sending receipt.

6. When the activation is ready, you will see the following screen:



**Online Activation**

 License successfully activated!

[Ok](#)

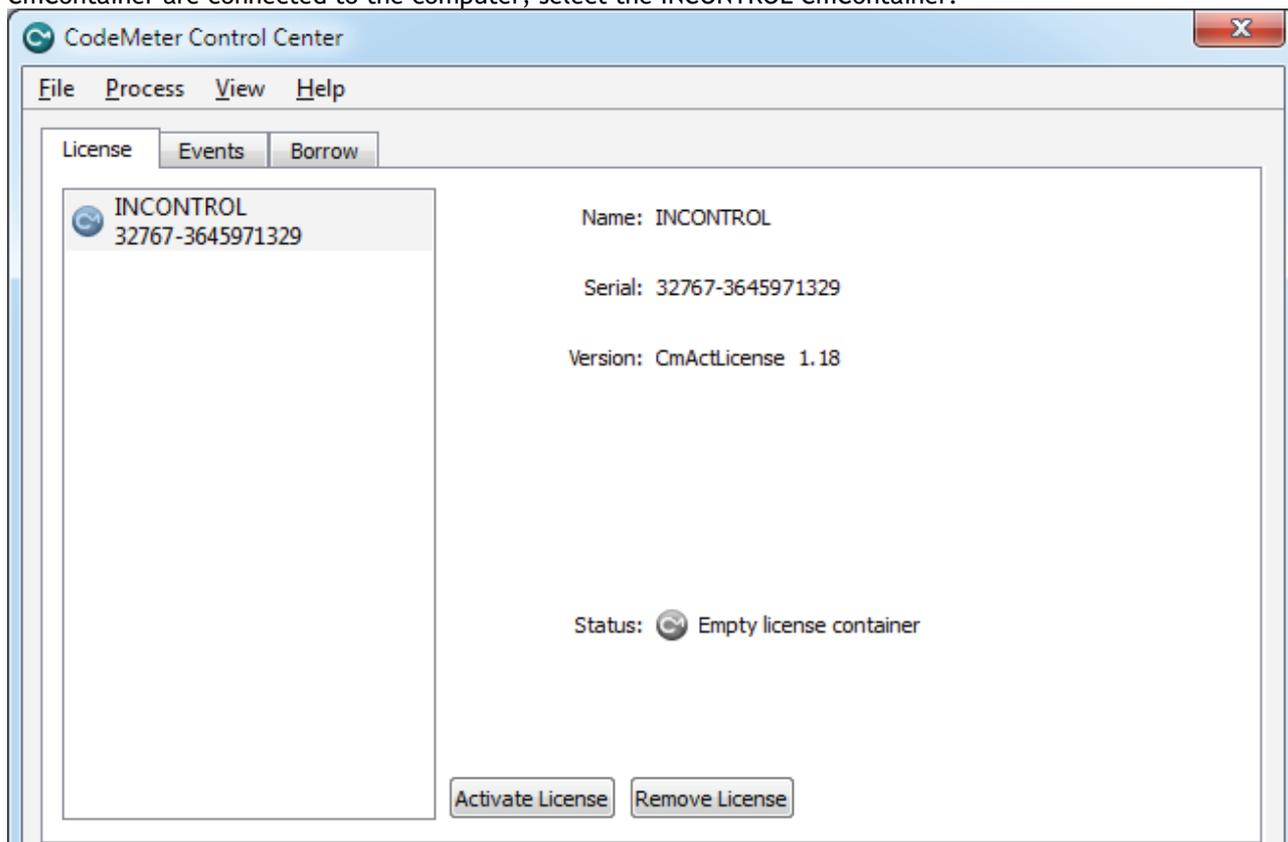
7. When the process was successful, you will see the Codemeter icon display green: 

**Offline activation**

**Activations via the upload/download**

You have installed the software on your computer and the red icon is visible in the taskbar. Your computer does not have a working internet connection but you have another internet connected computer available.

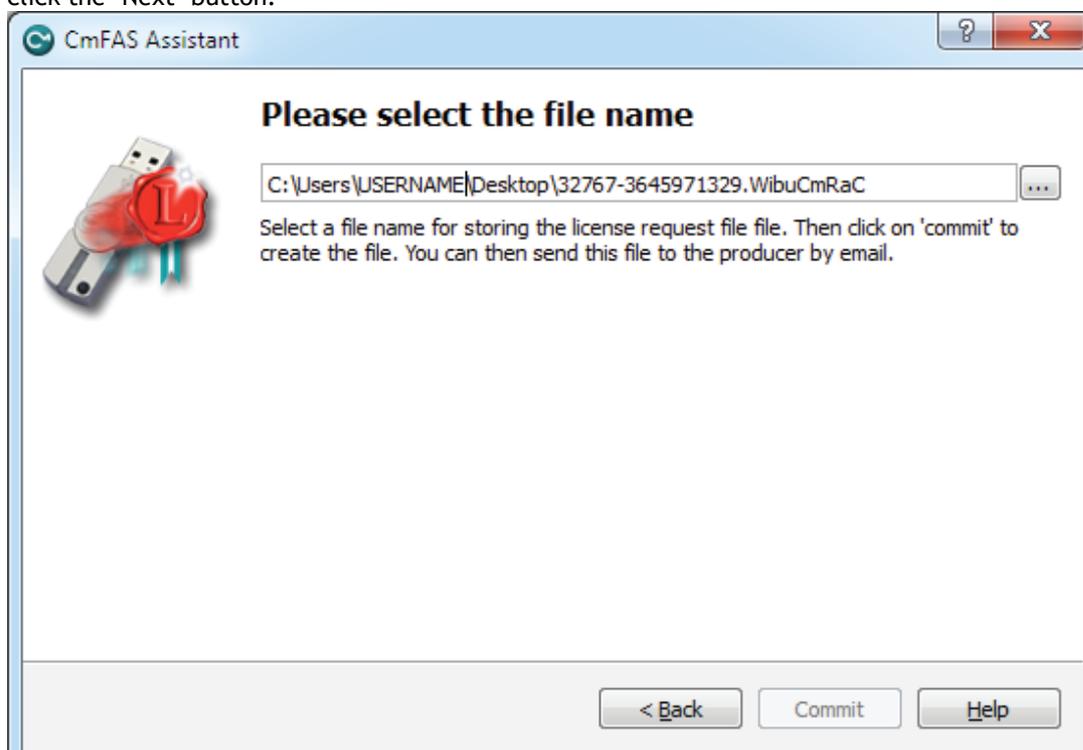
1. On the computer where you installed Pedestrian Dynamics, open CodeMeter Control Center. If several CmContainer are connected to the computer, select the INCONTROL CmContainer.



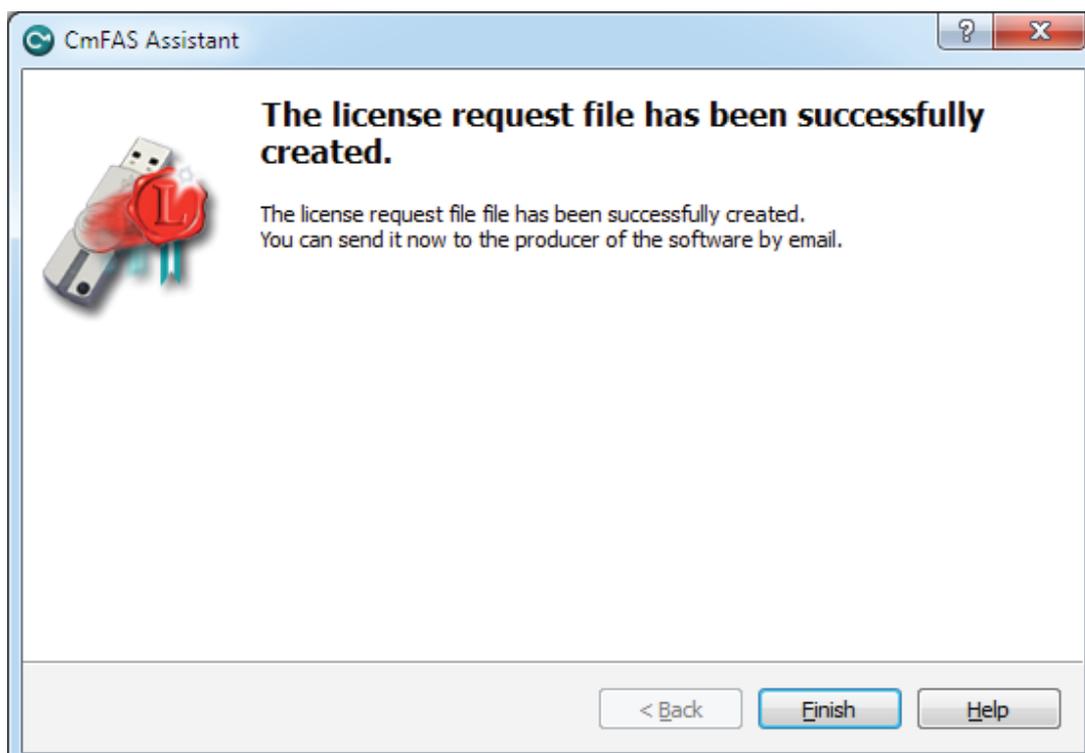
2. Click on the activate license button.



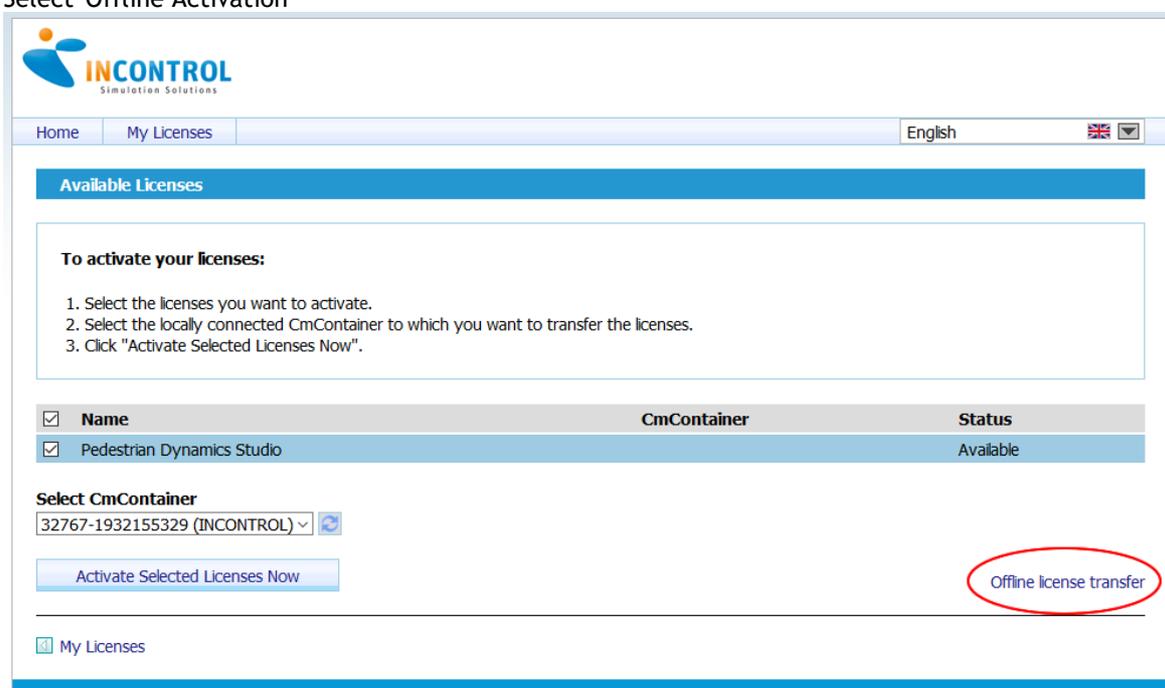
3. The CodeMeter Field Activation (CmFAS) Assistant opens with a welcome dialog.
4. The starting dialog prompts you to proceed. There you select 'creating a license request'. After your selection click the "Next" button.



5. A filename and save location is presented. Select the location for the file and press 'commit'.
6. Finally, a dialog displays which confirms the successful creation of the license request file. Click the "Finish" button to close the dialog.

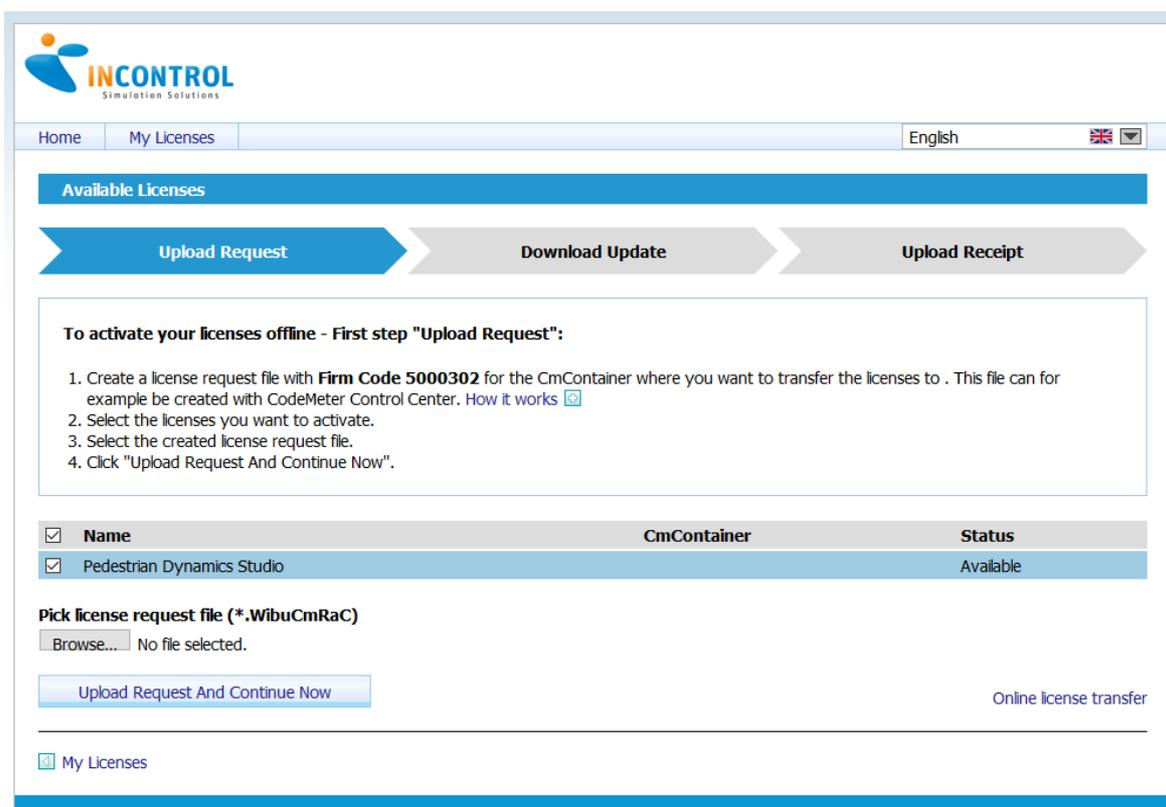


7. Take this file with you to the internet connected pc.
8. Open your web browser and enter the following URL: <https://lc.codemeter.com/63706/depot/index.php>
9. On the webpage that opens, you enter the ticket you received with your software. On the screen that appears you will see your software products.
10. Select 'Offline Activation'



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11. Browse and select the container file created in step #6 and mark all products you want to use.



The screenshot shows the INCONTROL web interface. At the top, there is a navigation bar with 'Home' and 'My Licenses' tabs, and a language dropdown set to 'English'. Below this is a section titled 'Available Licenses' with a progress bar showing three steps: 'Upload Request' (highlighted in blue), 'Download Update', and 'Upload Receipt'. A text box provides instructions for activating licenses offline, starting with 'Upload Request':

1. Create a license request file with **Firm Code 5000302** for the CmContainer where you want to transfer the licenses to. This file can for example be created with CodeMeter Control Center. [How it works](#)
2. Select the licenses you want to activate.
3. Select the created license request file.
4. Click "Upload Request And Continue Now".

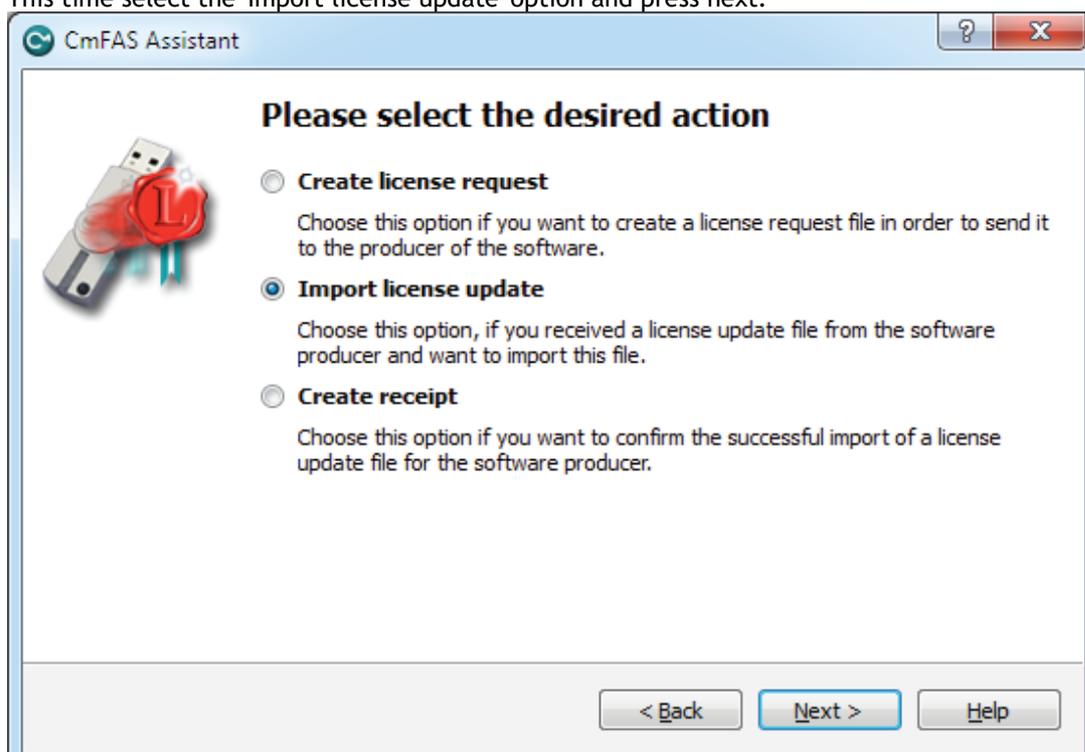
Below the instructions is a table with columns 'Name', 'CmContainer', and 'Status':

<input checked="" type="checkbox"/>	Name	CmContainer	Status
<input checked="" type="checkbox"/>	Pedestrian Dynamics Studio		Available

Underneath the table, there is a section 'Pick license request file (\*.WibuCmRaC)' with a 'Browse...' button and the text 'No file selected.'. A blue button labeled 'Upload Request And Continue Now' is present, along with a link for 'Online license transfer'. At the bottom left, there is a 'My Licenses' link.

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12. Press 'Upload Request And Continue Now' and save the generated file. Transport this file to the computer containing the Pedestrian Dynamics installation.
13. Open CodeMeter Control Center and select the INCONTROL CmContainer.
14. Click on the "Activate License" button.
15. This time select the 'Import license update' option and press next.

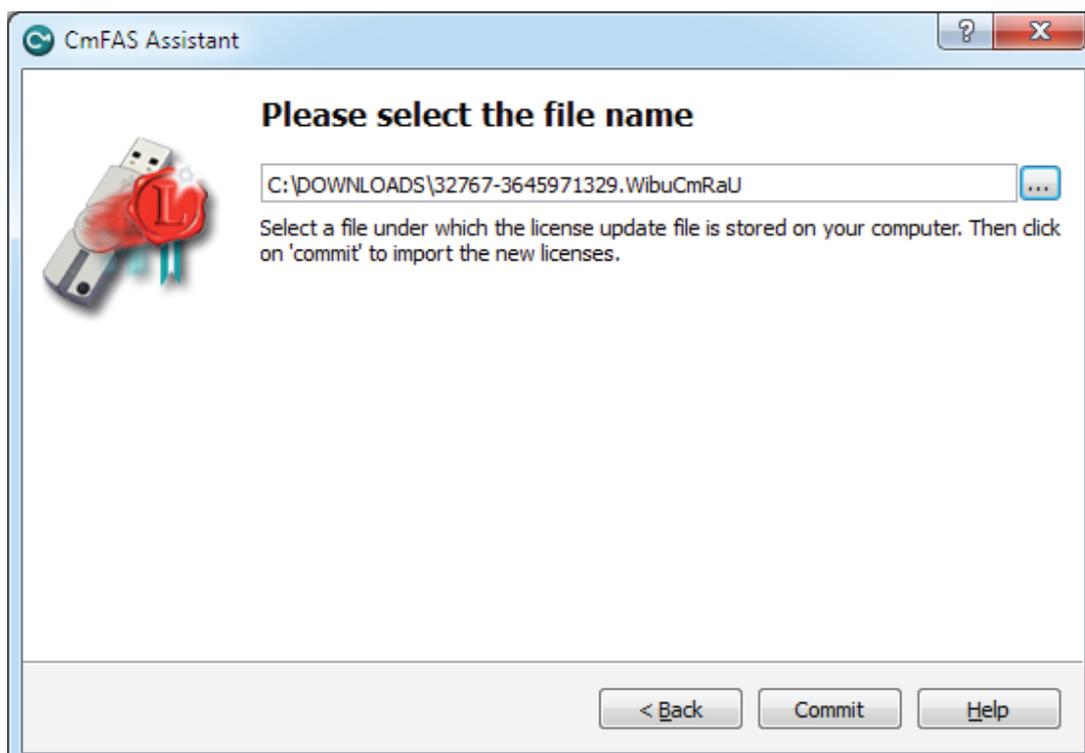


The screenshot shows the 'CmFAS Assistant' dialog box. It has a title bar with a question mark and a close button. The main content area is titled 'Please select the desired action' and features an icon of a USB drive with a red 'L' on it. There are three radio button options:

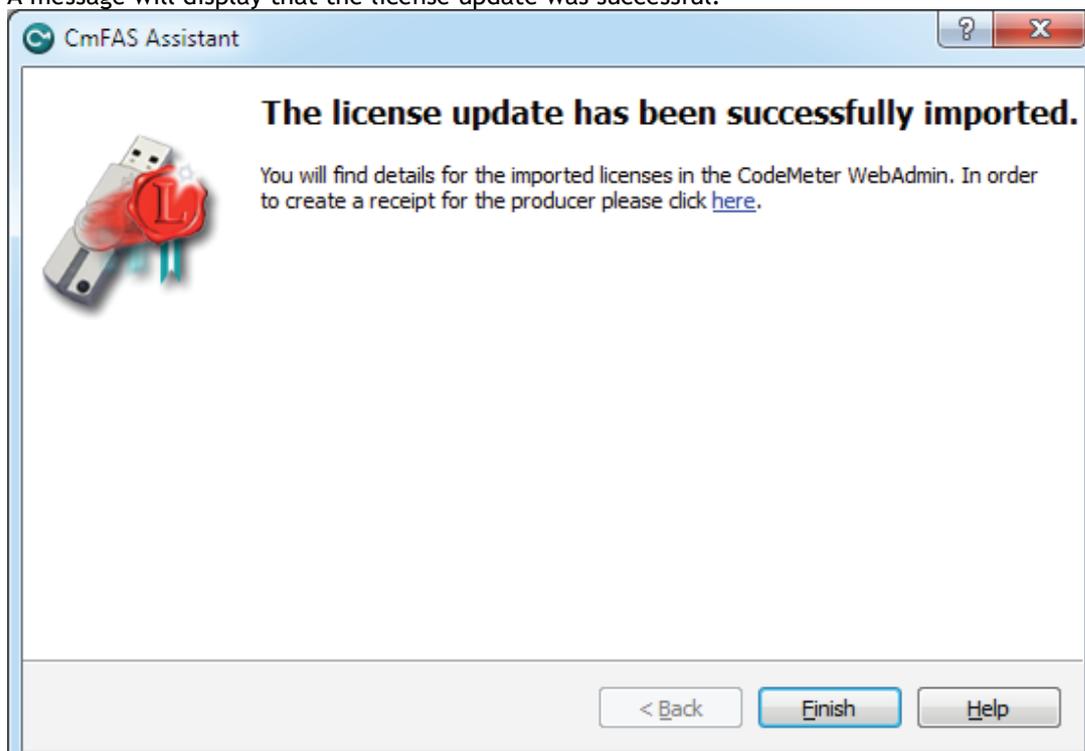
- Create license request**  
Choose this option if you want to create a license request file in order to send it to the producer of the software.
- Import license update**  
Choose this option, if you received a license update file from the software producer and want to import this file.
- Create receipt**  
Choose this option if you want to confirm the successful import of a license update file for the software producer.

At the bottom of the dialog, there are three buttons: '< Back', 'Next >', and 'Help'.

16. Browse to the file created on the internet connected machine and press commit.



17. A message will display that the license update was successful.



18. The software is now licensed. Please repeat the last steps and create and upload a receipt.

#### Other activations

If the methods mentioned above fail, please contact the INCONTROL Support hot line (+31 30 6703798 (world) or +49 (0)6131 6355 272 (Germany)) to have an alternative activation method.

When the process was successful, you will see the Codemeter icon display green: 

We welcome your remarks, suggestions and ideas for improvement of the Pedestrian Dynamics software. Please send them to us directly or ask your local agent to transfer them to us.

We look forward to hear from you or to meet you at one of our user conferences.

### Creating a command line shortcut and passing parameters

It is possible to pass extra command line parameters with Pedestrian Dynamics. This improves working with network system environment variables that are common in Windows. Also developers might benefit from these command line parameters.

A command line shortcut should be build up the following way:

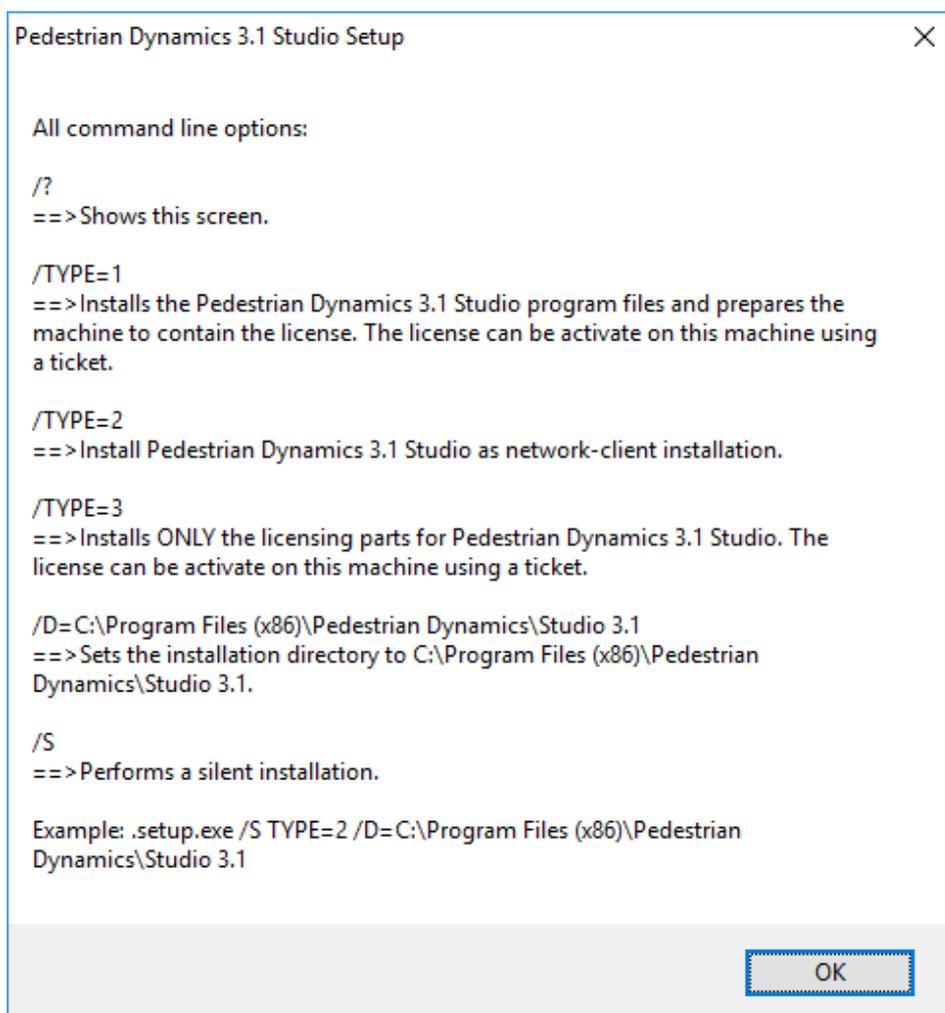
Parameter	P0
Explanation	The full path to the executable and the executable (.exe) itself
Required	Yes
Directory Rights	Read
Comments	Note that you can change the name of the executable but the default Pedestrian Dynamics application launcher will not work.
Examples	"C:\Program Files (x86)\Pedestrian Dynamics\Developer 3.1\PDDev.exe" "%ProgramFiles%\Pedestrian Dynamics\Developer 3.1\PDStudio.exe" "%PROGS%\Pedestrian Dynamics\Developer 3.1\PDStudio.exe"

Parameter	P1
Explanation	The full path to the Pedestrian Dynamics application launcher (.app)
Required	No
Directory Rights	Read
Comments	When no parameters are passed, the default file with the same name (without extension) as the executable is launched. (e.g. PDStudio.app, PDDev.app, etc.)
Examples	"C:\Program Files (x86)\Pedestrian Dynamics\Developer 3.1\PDStudio.app" "%ProgramFiles%\Pedestrian Dynamics\Developer 3.1\PDStudio.app" "C:\Program Files (x86)\Pedestrian Dynamics\Developer 3.1\MyPDapp.app"

Parameter	P2
Explanation	The full path to a work directory.
Required	No
Directory Rights	Read / Write by user
Comments	The application uses this directory to store temporary files and by default stores and opens files here. This parameter <b>requires closing with a fore slash</b> .
Examples	"C:\MY DOCUMENTS\Pedestrian Dynamics\3.1\ "%ProgramFiles%\Pedestrian Dynamics\3.1\ "Y:\PDWork\ "%HOMESHARE%\"

### Installer parameters and installer types

It is possible to pass extra command line parameters to the Pedestrian Dynamics installer. The available parameters can also be viewed using the -? parameter. The following windows is then displayed:



The following parameters are explained:

Parameter	Explanation
-?	Shows the available parameters windows
TYPE=1	Sets the installation to installation type <b>1: Stand-alone installation</b> This options should be selected when the machine will hold the license and the Pedestrian Dynamics software. This option makes only sense when performing a silent installation (parameter /S).
TYPE=2	Sets the installation to installation type <b>2: Network Client installation</b> This options should be selected when the machine will hold the Pedestrian Dynamics software alone. The license is or will be active on a different machine. This option makes only sense when performing a silent installation (parameter /S).
TYPE=3	Sets the installation to installation type <b>3: Network Server installation</b> This options should be selected when the machine will hold the Pedestrian Dynamics license alone. The license will be active on a this machine.
/D	Sets the installation directory.
/S	Performs a silent installation. When no other parameters are passed, the default settings are used.

# System Requirements

## Operating System

In order to run Pedestrian Dynamics, you require the Microsoft Windows operating system. Pedestrian Dynamics is proven compatible with:

- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 8
- Microsoft Windows 10

To run Pedestrian Dynamics on an Apple Mac, Microsoft Windows needs to be installed on it. This can be achieved using Boot Camp (preferred). We do not support running Pedestrian Dynamics on other Operating Systems.

## Hardware

The required hardware depends on how the software is used. Users who will only use the standard components in small to medium sized models with a limited number of agents require a different configuration than users who are exploring the limits the software's capabilities (most limitations on this level of usage are caused by hardware limitations).

To give an idea which hardware configuration suits you best, we have listed two configurations, Minimum and Recommended. Most of the descriptions of hardware are very generic due to the fluid nature of computer hardware developments, but we will try to give you some insight.

	Minimum	Recommended
<i>Processor*</i>	Intel 1.5 GHz Dual Core	Intel 3.0+ GHz Octa Core
<i>Internal Memory</i>	2 Gb	8 Gb+
<i>Hard Disk space</i>	500 Mb of Free Space	32 Gb+
<i>Operating system</i>	Windows Vista	Windows 10
<i>Video Card**</i>	OpenGL® 4.0	OpenGL® 4.5

### \*Processor

Although Pedestrian Dynamics will run on an Intel i5 Dual Core processor, generating networks can consume all system resources for several minutes for a large environment. An (i7) Quad Core processor (or higher) has better performance saving several minutes when generating networks. Since network creation is an integral part of Pedestrian Dynamics, we highly recommend an i7 Octa Core processor.

### \*\*Video Card

To use Pedestrian Dynamics, it is required that you use a laptop or desktop with a major brand (e.g. NVIDIA or AMD) 3D graphics card with at least 1Gb, but preferably 2Gb or more, of (non-shared) RAM (for network creation, textures and frame buffer). Ask your hardware supplier for a chip set that supports native OpenGL® 4.0. If your OpenGL version is less than part of the 3D visualization might be unsupported, also the quality of the 3D lighting and transparency is inferior.

 Some computers contain two video cards to decrease the power usage. Usually the default option is to use the integrated (Intel) video card. To change this go to the driver options (generally right click on desktop -> NVIDIA or AMD control panel) and then, under manage 3D settings create a profile for Pedestrian Dynamics which specifies which card to use (the high performance one) or adjust the default video card.