

# Working with Easy5

## Installing the Adams Extension for Easy5

To run MD Adams and Easy5 together, you must install the MD Adams extension into Easy5. To import models into MD Adams that were exported from Easy5 (containing components from licensed Easy5 libraries), you must also configure your computer so that MD Adams knows how to find your Easy5 license. The following procedures explain how to do this.

### To install the MD Adams extension for Easy5:

1. Make sure that both Easy5 and MD Adams have been installed.
2. Make sure you have permission (that is, root ('superuser') privilege) to add and modify files in the Easy5 installation directory.
3. Identify the command line command used to start the MD Adams version you will use with Easy5, for example, `adamsmdr2`.

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**Note:** If you are unable to identify a command line command to run MD Adams but you can identify the top-level directory of the MD Adams installation, you can use `-d "directory path"` in place of the command line command in the following steps.

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4. Perform the following, depending on your platform:

#### On UNIX:

- a. Open an xterm window and set your working directory to a directory outside the Easy5 installation directory tree.
- b. Start Easy5. The standard command is `easy5x`.
- c. In the Easy5 main window, from the **File** menu, select **Open Command Shell**.
- d. At the prompt in the command shell, enter:
 

```
$EZHOME/install_adams_controls.ksh adams_command
```

 where *adams\_command* is the command line command from Step 3 above.

#### On Windows:

- a. From the **Start** menu, point to **Programs**, point to **MSC.Software**, point to **MSC.EASY5 2005 r1.2**, point to **Shell**, and then select **Easy5 Command Shell**.
- b. At the prompt in the command shell, enter:
 

```
install_adams_controls.ksh adams_command
```

 where *adams\_command* is the command line command from Step 3 above.

5. Type `exit` to close the command window.
6. If you started Easy5, from the **File** menu, select **Quit**.

The MD Adams extension installation is complete. Be sure to configure your computer as described next.

**To configure your computer to run licensed exported Easy5 models within MD Adams:**

1. Start Easy5.
2. From the **File** menu, select **Open Command Shell**.
3. At the prompt in the command shell, type **easy5x -license**.  
Easy5 displays the licensing information, beginning with the type of license and the server name (if a server license) or the path to the license file.
4. Write down the contents of the line that starts with **Active license file(s)**, and the value that appears in the line following it (for example, **1700@rainier**).
5. Perform one of the following:
  - If the line is **Active license file(s) [EASY5\_LMD\_LICENSE\_FILE]**, set the environment variable **EASY5\_LMD\_LICENSE\_FILE** to the output value displayed in Step 4 above (for example, **1700@rainier**).
  - If the line is **Active license file(s) [MSC\_LICENSE\_FILE]**, find the value of the environment variable **MSC\_LICENSE\_FILE** to see what license file MD Adams is using.
  - If Easy5 and MD Adams are using different licenses (or license servers), set **LM\_LICENSE\_FILE** to the value for the Easy5 license (for example **2500@bosco**).
  - If Easy5 and MD Adams are using the same license, your computer is configured properly.
6. For Windows platforms only, modify the Path environment variable to include the path to the lib\_nt\_IF8 subdirectory of your Easy5 installation tree.
  - If your Easy5 model contains components from a licensed library (for example, the Thermo-Hydraulic, Powertrain, or Gas Dynamics libraries), you will need to make sure MD Adams finds your Easy5 license. Failure to perform this step will result in the Easy5 license library not being found.
  - MD Adams supports the Intel Visual Fortran 9.1 compiler only. The Easy5 model import feature is not supported with the GNU or Intel FORTRAN compilers on Microsoft Windows.

**To find the appropriate value for the variable:**

- a. Start Easy5.
- b. Open an Easy5 command shell: from the Easy5 File menu, select Open Command Shell.
- c. At the command shell prompt, enter: `echo %EZHOM%`.  
The output is the directory in which Easy5 is installed. You will use the directory information in Step 5 below. The usual value of EZHOME is:  
`C:\MSC.Software\MSC.EASY5\2005r1.2\`

**To apply the value of the environment variable:**

- a. From the Start menu, point to Settings, and then select Control Panel.
- b. In the Control Panel dialog box, select the System icon.
- c. In the System Properties dialog box, select the Advanced tab.
- d. In the Advanced tab container, select Environment Variables.

MD Adams must know the path to the subdirectory of your Easy5 installation tree to be able to load `ez5_lmgr.dll`:

`lib_nt_IF8` - For the Intel FORTRAN 9.1 compiler.

- e. Using the path from step 3, in the Environment Variables dialog box, append or create the path to the user variable as follows:

Variable Name = `PATH`

For the Intel FORTRAN 9.1 compiler, enter the following, where `<CURRENT_VALUE>` is the current value of `PATH`:

Variable Value = `<CURRENT_VALUE>; %EZHOME%\easy5x\lib_nt_IF8`

and where the value of `EZHOME` is taken into account.