

Autodesk® Moldflow® Insight 2012

Installation Guide

The Autodesk logo is positioned in the bottom right corner of the page. It consists of the word "Autodesk" written in a white, sans-serif font, oriented vertically (rotated 90 degrees counter-clockwise) against a solid black rectangular background.

Autodesk®

Revision 15, 09 March 2011.

Autodesk® Moldflow® Insight

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Autodesk Moldflow Insight installation

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To complete the Autodesk Moldflow Insight 2012 installation, you must install two applications: Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers.

Installation overview

The following items need to be considered prior to installation.

- 1 Check that your computer complies with the supported platforms.
- 2 Ensure that you have permissions to install applications on the computer or network.
- 3 Obtain serial numbers and product keys for all the products you want to install. These are provided at the time you download the software or on the product package.
- 4 Review the product documentation to clarify installation procedures. The Autodesk Network License Manager Installation Guide should also be reviewed if that product is being installed on this machine.

NOTE: 30 day trial installation is not available for Autodesk Moldflow Synergy - User Interface or Autodesk Moldflow Insight - Solvers.

- 5 Obtain the name of the server on which the licenses will be installed.
- 6 Close all running programs.

IMPORTANT: Autodesk products share some licensing components. If any Autodesk product is running when you attempt to install another Autodesk product, the installation may fail.

Once you have completed these tasks, prepare to install the following applications:

Autodesk Moldflow Synergy - User Interface
Autodesk Moldflow Insight - Solvers
Autodesk Network License Manager if required on this machine.

NOTE: There is no specific order in which these products have to be installed. However, the Autodesk Network License Manager must be installed and you

must be able to access it either locally or remotely on your network. Refer to the Autodesk Network License Manager Installation Guide for further information.

Your licenses must be activated on the license server before you run your Autodesk Moldflow product for the first time.

To take advantage of certain functionality in Autodesk Moldflow Insight, you also may choose to install Autodesk Moldflow Design Link and Autodesk Inventor Fusion applications.

License server location

Ascertain the server to be used for license management.

The first installation of an Autodesk Moldflow product on this machine will define the server location and settings for subsequent installations of Autodesk Moldflow products.

If another Autodesk Moldflow product is installed on this machine, the server defined in that installation will apply for this product.

If you want to change the license server details set in a previous installation, you must uninstall all Autodesk Moldflow products. Contact Technical Support via the Subscription Center (<http://subscription.autodesk.com>) if you need assistance.

Hardware requirements and supported platforms

Supported operating systems, hardware platforms and related information are described.

Autodesk Moldflow Insight supported platforms

Autodesk Moldflow Insight 2012 user interface and analysis solvers are supported on Windows platforms. Only analysis solvers are supported on Linux platforms.

Table 1: Supported Windows platforms

Operating System	Service Pack
Windows 7 (32-bit edition) Professional, Enterprise and Ultimate	
Windows 7 (64-bit edition) Professional, Enterprise and Ultimate	

Operating System	Service Pack
Windows Vista (32-bit edition) Business, Enterprise and Ultimate	SP 2
Windows Vista (64-bit edition) Business, Enterprise and Ultimate	SP 2
Windows XP Professional (32-bit edition)	SP 3
Windows XP Professional (64-bit edition)	SP 2
Windows Server 2003 (64-bit edition)	SP 1
Windows Server 2008 (64-bit edition)	SP 1

Table 2: Supported Linux platforms

Operating System	Bits	Hardware Platform
Red Hat Enterprise Linux 5.6 or later	64	AMD or Intel x86-based 64-bit processor

ATTENTION: Autodesk Moldflow Synergy - User Interface pre- and post-processor is not supported on Linux platforms.

Hardware requirements

- Ethernet card¹
- DVD-ROM drive²
- Microsoft Mouse-compliant pointing device³

¹ Autodesk Moldflow Insight software uses a network to request and obtain licenses. The network hardware is used to allow license servers to be uniquely identifiable, and these constraints require that all machines which will run Autodesk Moldflow Insight have an enabled Ethernet card.

² A DVD-ROM drive is not required if you are installing from an electronic download. You must have an internet connection to download software.

³ A pointing device is not required for Linux systems.

System specifications for Windows platforms

Table 3: Recommended minimum hardware and software specifications for Autodesk Moldflow Insight on Windows platforms

System component	Recommended
CPU speed	2 GHz or higher
Main memory (RAM)	2 GB or higher
Virtual memory/swap space	2 GB or higher
Disk space	4 GB or higher free disk space (at least 1.5 GB free disk space for installation)
Web browser	Internet Explorer 7
Video viewer	Adobe Flash Player 9 or higher

Third-party software

The help system requires Microsoft Internet Explorer 7.0.

- Flash Player 9.0 or later is required for 32-bit browsers.
- If you are using a 64-bit browser, you may have to install <http://labs.adobe.com/downloads/flashplayer10.html>.

The reports generated by Autodesk Moldflow products are optimized for use with Internet Explorer 7.0 and Office 97 and later versions (PowerPoint and Word applications only).

System specifications for Linux platforms

Table 4: Recommended hardware specifications for Autodesk Moldflow Insight - Solvers on Linux platforms

System component	Recommended
CPU speed	1 GHz or higher
Main memory (RAM)	2 GB or higher
Virtual memory/swap space	1 GB or higher
Disk space	4 GB or higher free disk space (at least 600 MB free disk space for installation)

NOTE: The more physical memory available, the better Autodesk Moldflow Insight will perform, especially when analyzing larger models. If you plan to use the Cool or Warp solvers on large models, or any of the 3D modules extensively, you should consider installing 2 GB of RAM per processor core.

Disk space requirements

Installation disk space requirements

The table below outlines the recommended disk space allocation for installing the Autodesk Moldflow Insight applications and optional companion products.

Table 5: Installation disk space requirements

Software installed	Installed size on disk (approximate)
Autodesk Moldflow Synergy - User Interface	430 MB
Autodesk Moldflow Insight - Solvers	300 MB
Autodesk Moldflow Design Link	1.85 GB
Autodesk Inventor Fusion	520 MB

NOTE: During the installation process, you will need approximately twice the amount of disk space as specified in the installed size requirement.

Project directory disk space requirements

The disk space requirement for an Autodesk Moldflow Insight study depends on the specified analysis sequence and the size of the model. A 3D Cool or 3D Warp analysis of a large, complex model could require up to 10 GB of disk space in the project directory.

Table 6: Disk space requirements for typical Autodesk Moldflow Insight studies

Analysis sequence	Analysis technology	Disk space required in project directory (approximate)
Fill+Pack (20,000 element model)	Midplane	500 MB
Fill+Pack+Cool	Midplane	700 MB
Fill+Pack+Cool+Warp	Midplane	500 MB
Fill+Pack (20,000 element model)	Dual Domain	500 MB
Fill+Pack (300,000 tetrahedra model)	3D	1 GB
Fill+Pack+Cool	3D	10 GB ⁴

⁴ All 3D Cool analyses have high disk space requirements for the temporary directory.

Graphics requirements

The graphic requirements listed here reflect the minimum required to obtain acceptable simulations.

- 512 MB DRAM or higher, OpenGL-capable graphics card. Ensure you have installed the latest driver for your card. Please refer to the card manufacturer's website for drivers and instructions.
- 24-bit color setting at 1280×1024 or higher screen resolution.

NOTE: Autodesk does not guarantee the use of any particular graphics card with Autodesk Moldflow products.

Autodesk will make every effort to work with card manufacturers to resolve any problems that may arise in the use of our software with a particular card. However, we cannot guarantee that all graphics-related issues can be fixed, as they may lie within the card manufacturer's drivers rather than Autodesk Moldflow software.

Recommended

Autodesk Moldflow software makes extensive use of OpenGL and texture mapping, therefore any device offering OpenGL acceleration and texture memory will give improved performance.

GPU card

Autodesk Moldflow Insight software takes advantage of GPUs (Graphics Processing Units) to improve analysis time.

Through GPU technology, you can benefit from the following:

Reduced load on the CPU GPU cards have their own built-in memory and have the ability to resolve complex simulations. The additional built-in processing power in GPUs relieves task-intensive strain on the CPU, enabling your application to run faster.

Shortened analysis time The software leverages the processing power offered by CUDA technology in GPU cards. This allows analyses to run at a much greater speed, thus resulting in a faster analysis time. On a very large model, this can reduce the analysis time by a few hours.

Efficient use of data-parallel computing GPU technology and our parallel solver complement each other. If you use GPU technology in conjunction with a parallel solver, you can achieve even greater speed improvements.

By default, the software automatically detects and uses a compatible GPU card for 3D Fill+Pack analyses, if one is found.

You also can enable the GPU option for 3D Warp analyses. The option is off by default.

You can change GPU option settings on the **Fill+Pack Analysis** tab or **Warp Analysis** tab of the solver parameters dialog, depending on the specified molding process.

Compatible graphics card

You will benefit from speed enhancements offered by GPU technology only if you have a compatible graphics card installed.

To determine if you have a compatible GPU card installed, please check the specifications provided by the card's manufacturer.

The minimum required hardware is a CUDA-enabled card capable of double-precision (64-bit floating point precision) computations. Cards which meet these requirements will have a CUDA Compute Capability of 1.3 or higher.

NVIDIA Fermi GPU card For optimal performance when using an NVIDIA Fermi GPU card, it is important that the latest drivers are installed.

NOTE: The automatic Windows Update function may not install the most recent version of the drivers.

Supported operating systems

GPU technology is available on all Windows operating systems supported by Autodesk Moldflow products, for both 32-bit and 64-bit systems.

GPU card limitations

Certain constraints apply when using GPU (Graphics Processing Unit) technology within Autodesk Moldflow software.

Analysis types Use of GPU technology is limited to certain types of analyses. At present, 3D Fill+Pack, 3D Flow and 3D Warp analyses support GPU technology.

Multiple GPUs Some graphics cards have multiple GPUs. At present, Autodesk Moldflow software does not support multiple GPUs. If your card has multiple GPUs, the analysis will select the fastest GPU among the available GPUs with adequate memory to perform the analysis.

Maximum model size The analysis you run is restricted by the size of the available memory on the GPU. For example, if your GPU card memory size is not large enough to run the full model, then the analysis will use the GPU for smaller time steps when the model is partially filled.

The analysis size is determined by the number of elements a model has. The more elements there are, the bigger the model size. Approximately one tetrahedral element equates to 1 KB of memory, so a model with 1 million elements will require 1 GB of device memory on the GPU card to run the model completely on the GPU.

Computer stops responding

When running computation-intensive tasks on a GPU card, the card will be diverted from other tasks such as redrawing the Windows desktop or refreshing other applications. This can be especially noticeable when running multiple jobs simultaneously or when running a very large analysis.

CAUTION: In extreme circumstances, Microsoft Windows may determine that the card has reached a locked up state and trigger a reset of the graphics drivers. If this happens, it is possible that the system will stop responding. Details on this behavior are available from Microsoft [here](#).

Windows Remote Desktop

Windows Remote Desktop does not support direct access to GPU resources. If an analysis which is set to use GPU resources is launched through a Remote Desktop command line (for example, using the **runstudy** command), it will not be able to utilize the GPU card on the remote machine.

Launching a job in Windows Vista or Windows 7

There is a limitation for Windows Vista and Windows 7 users when using GPU technology. If you launch a job locally on a Windows Vista or Windows 7 machine, or if you remotely launch a job through Job Manager where the remote server is a Windows Vista or Windows 7 machine, we recommend that you do not log out. Logging out will cause the analysis to fail.

GPU card drivers

The latest drivers for any installed card will need to be updated.

NOTE: The automatic Windows Update function may not install the most recent version of the drivers.

2 GB memory limit on 32-bit Windows systems

Windows 32-bit operating systems have a 2 GB memory limit per process; however there are some guidelines to help you avoid errors due to this memory limit.

- A large number of open studies in a project may exceed the memory limit.

- Close any open studies that are not being used at a given time.
- Consider splitting one project with a large number of studies into two or more projects with a smaller number of studies in each.
- Even a small number of large studies open in a project may exceed the memory limit.
 - It is recommended to open only one study per project.
- Post-processing large result files may exceed the memory limit. In particular, 3D results require greater amounts of memory.
 - Consider using the **Optimize memory for results display** options in the results preferences (**Application menu > Options > Results** tab) to minimize the amount of memory required to display results.
- Running a Fill+Pack analysis on a model with a large number of elements may exceed the memory limit.
 - Try remeshing the model using a coarser mesh to reduce the number of elements.

NOTE: Note that using a coarse mesh may affect analysis accuracy, in particular for 3D models.

- For a 3D model only, turn off the AMG matrix solver. Change the **AMG matrix solver selection** option setting to **Off** in the **Solver Parameters** dialog. This option is set to **Auto** by default.
- Running a Cool analysis on a model with a large number of elements may exceed the memory limit.
 - Review the mesh density in the part and on cooling circuits, and remesh using a coarser mesh if possible.
- Running a 3D Warp analysis may exceed the memory limit.
 - If the model contains more than 800,000 elements, change the **Use AMG matrix solver** option to **No** on the **Warp Settings** page of the **Process Settings Wizard**. This option is on by default. Turning this option off enables the legacy (SSORCG) matrix solver. The AMG matrix solver is faster but requires more memory compared to the legacy solver.
 - Enable mesh aggregation to reduce memory requirement for analyses of thin-wall parts. Make sure the **Use mesh aggregation and 2nd-order tetrahedral elements** option is selected on the **Warp Settings** page of the **Process Settings Wizard**. This option is on by default.

NOTE: If the part geometry is thick or solid (true 3D geometry), using mesh aggregation is not recommended. Turning off the mesh aggregation option causes the original mesh to be used for the

analysis. This increases analysis time and memory requirement but improves accuracy for true 3D parts.

- The maximum model size on which a 3D Warp analysis can be run on a 32-bit operating system is up to 1.5 million elements (using legacy solver and mesh aggregation options).
- Free resources (memory, swap space) on the machine running the analysis.
- Add more resources (memory, swap space) on the machine running the analysis.

If you have tried the above options but still exceed the 2GB memory limit, consider changing to a computer with a 64-bit Windows operating system.

License types

During installation you will be asked to select your License type.

Network license Supports a specified number of users who are connected to a network. The Autodesk Network License Manager needs to be installed on one or more servers on the network to manage the distribution of licenses to users.

Within the product there are also tiers of functionality. These are determined by the license that is purchased.

A detailed list of the functionality enabled by each license type is included in the *Minimum license requirements* appendix.

Network license

A valid Serial Number and Product key must be entered before you can continue the installation.

NOTE: When a Network License is selected, Autodesk Network License Manager must be installed on the designated server before you run the product.

If you are using a Network License, you must choose the server configuration model for the Autodesk Network License Manager.

Single License Server One server manages all licenses on the network. You need to enter the host name or IP address of the server.

Redundant License Server Three servers are available to authenticate each license. You need to enter the host name or IP address of the three servers.

License functionality

The functionality of Autodesk Moldflow Insight depends on which licenses are available on the Autodesk Network License Manager server.

The license types are listed below in order of increasing functionality

- **Autodesk® Moldflow® Synergy**—Enables the use of the Autodesk Moldflow Synergy - User Interface application
- **Autodesk® Moldflow® Insight Basic**—Enables the use of the Basic tier of functionality in the Autodesk Moldflow Insight - Solvers application
- **Autodesk® Moldflow® Insight Performance**—Enables the use of the Performance tier of functionality in the Autodesk Moldflow Insight - Solvers application
- **Autodesk® Moldflow® Insight Advanced**—Enables the use of the Advanced tier of functionality in the Autodesk Moldflow Insight - Solvers application

When performing an operation such as an analysis, the Autodesk Network License Manager client will request the minimum level license which allows that operation. If there are no licenses available at the minimum level, the client will attempt to reserve a license of a higher level.

If you attempt to perform an operation that requires a license which has not been installed, you will receive a message advising you to purchase the required license. If there are no licenses available because they have been reserved by other clients, you will receive a message advising you of this.

NOTE: The Autodesk Moldflow Synergy license allows pre- and post-processing tasks only.

Getting help

Find information resources or contact Technical Support via the Subscription Center.

Log in and access the Subscription Center at <http://subscription.autodesk.com>.

Installing on Windows systems

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Before installing Autodesk Moldflow Insight applications, check that your platform and hardware are supported.

Before installing software

To prevent problems during the installation of Autodesk Moldflow Insight applications, there are initial tasks that should be performed.

Exit all Autodesk programs

Exit all Autodesk programs that are running before beginning the installation of Autodesk Moldflow Insight applications. This ensures no “File in use” errors occur during installation.

IMPORTANT: Autodesk products share some licensing components. If any Autodesk product is running when you attempt to install another Autodesk product, the installation may fail.

Uninstall pre-release versions of Autodesk Moldflow Insight

If a pre-release version of Autodesk Moldflow Insight has been previously installed on the current machine, you must uninstall it before beginning the current installation.

To check if a pre-release version has previously been installed, open the Control Panel (**Start > Control Panel**), select **Programs and Features** (**Add/Remove Programs** on Windows XP systems) and look for entries titled **Autodesk Moldflow Insight 2012** or **Autodesk Moldflow Synergy 2012 - User Interface** and **Autodesk Moldflow Insight 2012 - Solvers**.

To uninstall a pre-release version of Autodesk Moldflow Insight:

- 1 Exit all Autodesk Moldflow products.
- 2 Open the **Autodesk Moldflow Insight xxxx Command Shell** (**Start > All Programs > Autodesk > Autodesk Moldflow Insight xxxx > Autodesk Moldflow Insight xxxx Command Shell**), where *xxxx* is 2012. At the command prompt, type **cleanreg**.

Alternatively, run the **cleanreg.exe** command. This is found in the **bin** folder where the pre-release version was installed (typically, **C:\Program Files\Autodesk\Moldflow Insight xxxx\bin**).

A dialog appears which asks you to confirm the deletion of all personal settings.

- 3 Click **Yes** to delete personal settings.
This will remove all registry entries associated with the pre-release version.
- 4 Uninstall the pre-release version.
 - a Open the Control Panel (**Start > Control Panel**).
 - b Select **Programs and Features (Add/Remove Programs)** on Windows XP systems).
 - c Select the entry you want to remove and click **Uninstall (Change/Remove)** on Windows XP systems) to launch the uninstall procedure.

Depending on which pre-release version you have installed, possible entries are:

- **Autodesk Moldflow Insight 2012**
- **Autodesk Moldflow Insight 2012 - Solvers**
- **Autodesk Moldflow Synergy 2012 - User Interface**

IMPORTANT: Uninstall both **Autodesk Moldflow Insight 2012 - Solvers** and **Autodesk Moldflow Synergy 2012 - User Interface** applications if both entries appear in the list of programs.

- 5 Restart the computer to complete the uninstall of the software.

Running previous version of Autodesk Moldflow products on 64-bit machines

If you no longer require the Autodesk Moldflow 2011 software, proceed directly to the next section. To ensure Autodesk Moldflow 2011 products continue to work on a 64-bit machine after installing the Autodesk Moldflow 2012 products, you must update the existing version of Autodesk Network License Manager.

To uninstall the existing version of Autodesk Network License Manager, complete the following steps.

- 1 Before uninstalling Autodesk Network License Manager, ensure you take a copy of the current license file as this information will be required at a later stage.
The location of this file can be found at **Start > All Programs > Autodesk > Network License Manager > LMTOOLS Utility**. Select the **Config Services** tab. If you have an existing license file, the **Path to the license file** indicates its location.
- 2 Open **LMTOOLS Utility** which can be found at **Start > All Programs > Autodesk > Network License Manager > LMTOOLS Utility**.

- 3 Select the **Config Services** tab.
- 4 Select the Autodesk service from the **Service Name** drop-down list.
- 5 Click **Remove Service**.
- 6 Exit **LMTOOLS**.
- 7 Click **Start > Control Panel > Programs and Features**
- 8 Right-click on **Autodesk Network License Manager** and select **Uninstall**. The previous version of Autodesk Network License Manager is removed.
- 9 Restart the computer to complete the uninstall of the software.

CAUTION: The computer must be restarted for this change to take effect, otherwise Autodesk Network License Manager might remain active in the Windows service.

IMPORTANT: Do not uninstall **Autodesk License Manager (Moldflow)** because this component is still required for Autodesk Moldflow 2011 products.

Language pack

The English version of the product must be installed before installing a language pack.

Installing the Autodesk Moldflow Synergy - User Interface application—Windows

NOTE: If you are installing on a Windows 7 system, make sure the User Account Control (UAC) is disabled first (**Control Panel > System Security > Change User Account Control settings**).

The Autodesk Moldflow Synergy - User Interface application uses a Setup Wizard that steps you through the installation process.

- 1 Log in using an account with Administrator privileges.
- 2 Exit any Autodesk programs that are currently running.

IMPORTANT: Autodesk products share some licensing components. If any Autodesk product is running when you attempt to install another Autodesk product, the installation may fail.

- 3 You can install the Autodesk Moldflow Synergy - User Interface application from an executable file that you have downloaded or from an installation disk.

- If you are installing from a downloaded executable file (**amipc-ui.exe**), navigate to that file and double-click on it to launch the Setup Wizard.
 - If you are installing from an installation disk, insert it the DVD drive. If the Autorun facility is enabled on the PC, the DVD main menu is displayed automatically. If this is not the case, navigate to the **cdstartup** folder on the DVD and double-click on **cdstartup.exe** to display the main menu.
- a Click **Autodesk Moldflow Insight 2012** to navigate to the installation options.
 - b Click **Install Autodesk Moldflow Synergy - User Interface** to launch the Setup Wizard.

While the installer is initializing, the following checks are performed, and warnings are given or the installer exits if any of these conditions is found:

Two instances of the same installer, or both the Autodesk Moldflow Synergy - User Interface installer and the Autodesk Moldflow Insight - Solvers installer are running at the same time

A warning message notifies you that another Autodesk Moldflow installer is already running. When you click **OK** to dismiss the message dialog, the current installer exits, and the other installer continues

A previous installation of Autodesk Moldflow Synergy - User Interface 2012 is detected.

A warning message notifies you that another copy of Autodesk Moldflow Synergy - User Interface 2012 or Autodesk Moldflow Insight 2012 is already installed. You must uninstall the previous 2012 installation before installing the new version.

Another version of the user interface is in use when the Autodesk Moldflow Synergy - User Interface installer is running

A warning message notifies you that you must close the version that is in use before continuing the installation. If you click **OK**, the installer waits until the version in use is closed, then the installer continues. If you click **Cancel**, the installer exits.

You attempt to install incompatible versions of the Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers applications

If you attempt to install a different version of Autodesk Moldflow Synergy - User Interface compared to the version of Autodesk Moldflow Insight - Solvers that is already installed (or vice versa), a warning message notifies you that you are trying to install incompatible versions of the applications and prompts you to uninstall all existing versions of the

Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers applications before you attempt the installation again. The installer exits.

NOTE: Both the Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers applications must come from the same installation package (build numbers must be identical).

If none of these conditions is found, the installer initializes successfully. The **Welcome** page appears.

- 4 Click **Next** to begin the installation process. The **License Agreement** page appears.
- 5 Review the license agreement.
 - a Select the appropriate entry from the **Country or Region** list.
 - b Select the option to accept the agreement.
 - c Click **Next** to continue.

The **Product Information** page appears.

NOTE: **Network License** is the only license type available for the Autodesk Moldflow Synergy - User Interface application. It requires a serial number and product key.

- 6 Enter your **Serial Number** and **Product key**, then click **Next**.

NOTE: The **Next** button is disabled until both a valid serial number and a valid product key have been provided.

The **Install the Autodesk Network License Manager on this machine?** page appears.

NOTE: This page does not appear if you have already installed another Autodesk Moldflow product.

- 7 If you want the current machine to be the network license manager, select **I want to install the Network License Manager on this machine**. Download and follow the instructions in the *Autodesk Network License Manager Installation Guide* for more detailed information about installing and configuring the Autodesk Network License Manager product.

⁵ The *Autodesk Network License Manager Installation Guide* and the Autodesk Network License Manager installer executables are available

NOTE: If you wish to use another machine as the network license manager, you can specify the server details in the next step.

- a Specify the location on the current machine where the Autodesk Network License Manager application will be installed.
Accept the default install path, or click **Browse** to select another location.
 - b Choose whether to install Autodesk Network License Manager for anyone who uses this computer or for only yourself.
Everyone is selected by default.
-

CAUTION: If you choose **Just me**, no other users will be able to access the Autodesk Network License Manager on this machine to run Autodesk Moldflow software.

- c Click **Next**.
If you choose to install Autodesk Network License Manager locally, and the installer detects an older version of the network license manager is already installed on the current machine, a warning message notifies you to uninstall the older version. Click **OK** to dismiss the message dialog and continue with the installation.

The **Network License** page appears.

- 8 Select either **Single License Server** (one server) or **Redundant License Server** (three servers).
-

RESTRICTION: If you want to change the license server details set in a previous installation, you must uninstall all Autodesk Moldflow products. Contact Technical Support via the Subscription Center (<http://subscription.autodesk.com>) if you need assistance.

- If you select the **Single License Server** model, enter the name or IP address of the server, or click **Browse** to select a server machine on your network.
-

ATTENTION: If any other Autodesk Moldflow product is already installed, the name of the selected server machine appears in the text box, and you will not be able to select a different server machine.

NOTE: The **Next** button is disabled until a server name has been provided.

- If you select the **Redundant License Server** model, enter the names or IP addresses of three servers, or click **Browse** to select each of three server machines on your network.
-

on the Subscription Center (<http://subscription.autodesk.com>) or on the installation disk, **Autodesk Network License Manager 2012** page.

ATTENTION: If any other Autodesk Moldflow product is already installed, and a redundant license server configuration was established during that installation, the selected server names appear in the **Server 1**, **Server 2** and **Server 3** text boxes, and you will not be able to select different server machines.

NOTE: The **Next** button is disabled until three server names have been provided.

When the license server details are complete, click **Next**.
The **Select Destination Location** page appears.

NOTE: If the Autodesk Moldflow Insight - Solvers application is already installed, you will not be able to select a different destination location.

- 9 Accept the default installation folder or click the **Browse** button to locate and select a different folder. Click **Next** to continue.
The **Project Files Location** page appears. This is the location where your project files will be stored.

NOTE: This page does not appear if the Autodesk Moldflow Insight - Solvers application is already installed and you specified the user folder location during that installation.

- 10 Select the user folder location option. **In each user's 'My Documents' folder** is selected by default. To accept this option, click **Next**.
You may choose **In a folder shared by all users**. When you click **Next**, the **All Users' Project Files Location** page appears. Accept the default user folder location, or click the **Browse** button to locate and select a different folder, then click **Next**.
The **Select Temporary Files Folder** page appears. This is where temporary files will be written whenever an analysis is run on the current machine.

NOTE: This page does not appear if the Autodesk Moldflow Insight - Solvers application is already installed and you specified the temporary files folder during that installation.

- 11 Accept the default **Temporary Files Folder**, or click the **Browse** button to locate and select a different folder, then click **Next**.

NOTE: For optimum performance, it is important that you select a local drive, rather than a network drive. The amount of temporary space that will be required depends primarily on the size and complexity of the model being analyzed, the number of analyses being run simultaneously, and the frequency with which analyses are launched. You should select a temporary directory with at least 2 GB of free space.

The **Configure Job Manager** page appears.

- 12 Enter the server name or IP address of the machine that will be the default Job Manager server, then click **Next**.

The local machine is specified by default. You can change the Job Manager configuration after installation in the **Job Manager** dialog.

The **Select Active User Interface Style** page appears.

- 13 Select the user interface style you want to use. **Ribbon UI** is selected by default.

This is the Autodesk standard user interface style. However, the **Classic UI** style is still available for selection.

NOTE: You can change the active user interface style after installation in the application **Options**. The product Help supports the Ribbon user interface workflow and functionality.

Click **Next**.

If you have a 3Dconnexion device installed, the **Checking existing 3Dconnexion installation** page appears.

- 14 Ensure that you have closed all applications that use the 3Dconnexion device, then click **Next**.

The **Ready to Install** page appears.

- 15 Review the installation settings. You can change settings by clicking **Back** until the relevant screen appears. When you are satisfied with the settings, click **Install** to continue.

The **Installing** page appears and the Wizard begins installing the Autodesk Moldflow Synergy - User Interface software. A progress indicator shows how much of the installation has been completed.

NOTE: If you selected **I want to install the Network License Manager on this machine** and the **Autodesk Network License Manager** application is not already installed, it will be installed automatically.

- 16 If you have not yet installed the Autodesk Moldflow Insight - Solvers application, a warning message appears to remind you. Click **OK** to close the message dialog.

- 17 Click **Finish** to complete the Autodesk Moldflow Synergy - User Interface installation.

- a If you selected **I want to install the Network License Manager on this machine**, the option to **Register your product and activate licenses online** appears and is selected by default, and a browser window will open at the **Autodesk - RegisterOnce** web page.

NOTE: If you deselect this option, you can register and activate your licenses later. Go to registeronce.autodesk.com to register your product and activate your licenses.

The installation completes, and the installer exits.

IMPORTANT:

- Before you can use the Autodesk Moldflow Synergy - User Interface application, the Autodesk Network License Manager must be installed and you must be able to access it either locally or remotely on your network.

NOTE: You must have activated your licenses on the license server machine.

- Before you can run an Autodesk Moldflow Insight analysis, the Autodesk Moldflow Insight - Solvers application must be installed.
 - If you want to install Autodesk Inventor Fusion 2012 with Autodesk Moldflow Insight, we recommend that you also install Autodesk Inventor Fusion 2012 Service Pack 1. On the **Autodesk Inventor Fusion 2012** Install - Configure page, click the small down arrow to expand the Autodesk Inventor Fusion 2012 configuration section, and then select the service pack along with configuration options.
-

Resetting the user interface default options

If required, the registry and user default settings can be reset to the factory defaults.

- 1 Exit all Autodesk Moldflow products.
- 2 Open the **Autodesk Moldflow Synergy xxxx Command Shell (Start > All Programs > Autodesk > Autodesk Moldflow Insight xxxx > Autodesk Moldflow Synergy xxxx Command Shell)**. At the command prompt, type **cleanreg**.
Alternatively, run the **cleanreg.exe** command. This is found in the **bin** folder where the application is installed (typically, **C:\Program Files\Autodesk\Moldflow Insight xxxx\bin**).
A dialog appears which asks you to confirm the deletion of all personal settings.
- 3 Click **Yes** to delete personal settings.

Any user-defined registry or user default settings will be replaced with the standard default settings.

Installing the Autodesk Moldflow Insight - Solvers application—Windows

NOTE: If you are installing on a Windows 7 system, make sure the User Account Control (UAC) is disabled first (**Control Panel > System Security > Change User Account Control settings**).

The Autodesk Moldflow Insight - Solvers application uses a Setup Wizard that steps you through the installation process.

- 1 Log in using an account with Administrator privileges.
- 2 Exit any Autodesk programs that are currently running.

IMPORTANT: Autodesk products share some licensing components. If any Autodesk product is running when you attempt to install another Autodesk product, the installation may fail.

- 3 You can install the Autodesk Moldflow Insight - Solvers application from an executable file that you have downloaded or from an installation disk.
 - If you are installing from a downloaded executable file (**amipc-solvers.exe**), navigate to that file and double-click on it to launch the Setup Wizard.
 - If you are installing from an installation disk, insert it the DVD drive. If the Autorun facility is enabled on the PC, the DVD main menu is displayed automatically. If this is not the case, navigate to the **cdstartup** folder on the DVD and double-click on **cdstartup.exe** to display the main menu.
 - a Click **Autodesk Moldflow Insight 2012** to navigate to the installation options.
 - b Click **Install Autodesk Moldflow Insight - Solvers** to launch the Setup Wizard.

While the installer is initializing, the following checks are performed, and warnings are given or the installer exits if any of these conditions is found:

Two instances of the same installer, or both the Autodesk Moldflow Synergy - User Interface installer and the Autodesk Moldflow Insight - Solvers installer are running at the same time	A warning message notifies you that another Autodesk Moldflow installer is already running. When you click OK to dismiss the message dialog, the current installer exits, and the other installer continues.
<hr/>	
NOTE: Only one Autodesk Moldflow installer can run at a time.	
<hr/>	

A previous installation of Autodesk Moldflow Insight - Solvers 2012 is detected.	A warning message notifies you that another copy of Autodesk Moldflow Insight - Solvers 2012 or Autodesk Moldflow Insight 2012 is already installed. You must uninstall the previous 2012 installation before installing the new version.
---	---

Another version of the solvers is in use when the Autodesk Moldflow Insight - Solvers installer is running

A warning message notifies you that you must close the version that is in use before continuing the installation. If you click **OK**, the installer waits until the version in use is closed, then the installer continues. If you click **Cancel**, the installer exits.

NOTE: You cannot install a new version of an Autodesk Moldflow product while a previous version of the product is in use.

You attempt to install incompatible versions of the Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers applications

If you attempt to install a different version of Autodesk Moldflow Synergy - User Interface compared to the version of Autodesk Moldflow Insight - Solvers that is already installed (or vice versa), a warning message notifies you that you are trying to install incompatible versions of the applications and prompts you to uninstall all existing versions of the Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers applications before you attempt the installation again. The installer exits.

NOTE: Both the Autodesk Moldflow Synergy - User Interface and Autodesk Moldflow Insight - Solvers applications must come from the same installation package (build numbers must be identical).

If none of these conditions is found, the installer initializes successfully. The **Welcome** page appears.

- 4 Click **Next** to begin the installation process. The **License Agreement** page appears.
- 5 Review the license agreement.
 - a Select the appropriate entry from the **Country or Region** list.
 - b Select the option to accept the agreement.
 - c Click **Next** to continue.

The **Product Information** page appears.

NOTE: **Network License** is the only license type available for the Autodesk Moldflow Insight - Solvers application. It requires a serial number and product key.

- 6 Enter your **Serial Number** and **Product key**, then click **Next** to continue.

NOTE: The **Next** button is disabled until both a valid serial number and a valid product key have been provided.

The **Install the Autodesk Network License Manager on this machine?** page appears.

NOTE: This page does not appear if you have already installed another Autodesk Moldflow product.

- 7 If you want the current machine to be the network license manager, select **I want to install the Network License Manager on this machine**. Download and follow the instructions in the *Autodesk Network License Manager Installation Guide* for more detailed information about installing and configuring the Autodesk Network License Manager product.⁶

NOTE: If you wish to use another machine as the network license manager, you can specify the server details in the next step.

- a Specify the location on the current machine where the Autodesk Network License Manager application will be installed.
Accept the default install path, or click **Browse** to select another location.
- b Choose whether to install Autodesk Network License Manager for anyone who uses this computer or for only yourself.
Everyone is selected by default.

CAUTION: If you choose **Just me**, no other users will be able to access the Autodesk Network License Manager on this machine to run Autodesk Moldflow software.

- c Click **Next**.
If you choose to install Autodesk Network License Manager locally, and the installer detects an older version of the network license manager is already installed on the current machine, a warning message notifies you to uninstall the older version. Click **OK** to dismiss the message dialog and continue with the installation.

The **Network License** page appears.

- 8 Select either **Single License Server** (one server) or **Redundant License Server** (three servers).

RESTRICTION: If you want to change the license server details set in a previous installation, you must uninstall all Autodesk Moldflow

⁶ The *Autodesk Network License Manager Installation Guide* and the Autodesk Network License Manager installer executables are available on the Subscription Center (<http://subscription.autodesk.com>) or on the installation disk, **Autodesk Network License Manager 2012** page.

products. Contact Technical Support via the Subscription Center (<http://subscription.autodesk.com>) if you need assistance.

- If you select the **Single License Server** model, enter the name or IP address of the server, or click **Browse** to select a server machine on your network.

ATTENTION: If any other Autodesk Moldflow product is already installed, the name of the selected server machine appears in the text box, and you will not be able to select a different server machine.

NOTE: The **Next** button is disabled until a server name has been provided.

- If you select the **Redundant License Server** model, enter the names or IP addresses of three servers, or click **Browse** to select each of three server machines on your network.

ATTENTION: If any other Autodesk Moldflow product is already installed, and a redundant license server configuration was established during that installation, the selected server names appear in the **Server 1**, **Server 2** and **Server 3** text boxes, and you will not be able to select different server machines.

NOTE: The **Next** button is disabled until three server names have been provided.

When the license server details are complete, click **Next**.

The **Select Destination Location** page appears.

NOTE: If the Autodesk Moldflow Synergy - User Interface application is already installed, you will not be able to select a different destination location.

- 9 Accept the default installation folder or click the **Browse** button to locate and select a different folder. Click **Next** to continue. The **Project Files Location** page appears. This is the location where your project files will be stored.

NOTE: This page does not appear if the Autodesk Moldflow Synergy - User Interface application is already installed and you specified the user folder location during that installation.

- 10 Select the user folder location option. **In each user's 'My Documents' folder** is selected by default. To accept this option, click **Next**.

You may choose **In a folder shared by all users**. When you click **Next**, the **All Users' Project Files Location** page appears. Accept the default

user folder location, or click the **Browse** button to locate and select a different folder, then click **Next**.

The **Select Temporary Files Folder** page appears. This is where temporary files will be written whenever an analysis is run on the current machine.

NOTE: This page does not appear if the Autodesk Moldflow Synergy - User Interface application is already installed and you specified the temporary files folder during that installation.

- 11 Accept the default **Temporary Files Folder**, or click the **Browse** button to locate and select a different folder, then click **Next**.

NOTE: For optimum performance, it is important that you select a local drive, rather than a network drive. The amount of temporary space that will be required depends primarily on the size and complexity of the model being analyzed, the number of analyses being run simultaneously, and the frequency with which analyses are launched. You should select a temporary directory with at least 2 GB of free space.

The **Ready to Install** page appears.

- 12 Review the installation settings. You can change settings by clicking **Back** until the relevant screen appears. When you are satisfied with the settings, click **Install** to continue.

The **Installing** page appears and the Wizard begins installing the Autodesk Moldflow Insight - Solvers software. A progress indicator shows how much of the installation has been completed.

NOTE: If you selected **I want to install the Network License Manager on this machine** and the **Autodesk Network License Manager** application is not already installed, it will be installed automatically.

- 13 If you have not yet installed the Autodesk Moldflow Synergy - User Interface application, a warning message appears to remind you. Click **OK** to close the message dialog.

- 14 Click **Finish** to complete the Autodesk Moldflow Insight - Solvers installation.

- a If you selected **I want to install the Network License Manager on this machine**, the option to **Register your product and activate licenses online** appears and is selected by default, and a browser window will open at the **Autodesk - RegisterOnce** web page.

NOTE: If you deselect this option, you can register and activate your licenses later. Go to registeronce.autodesk.com to register your product and activate your licenses.

The installation completes, and the installer exits.

IMPORTANT:

- Before you can use the Autodesk Moldflow Insight - Solvers application, the Autodesk Moldflow Synergy - User Interface application must be installed, and the Autodesk Network License Manager must be installed and you must be able to access it either locally or remotely on your network.

NOTE: You must have activated your licenses on the license server machine.

- If you want to install Autodesk Inventor Fusion 2012 with Autodesk Moldflow Insight, we recommend that you also install Autodesk Inventor Fusion 2012 Service Pack 1. On the **Autodesk Inventor Fusion 2012** Install - Configure page, click the small down arrow to expand the Autodesk Inventor Fusion 2012 configuration section, and then select the service pack along with configuration options.
-

Command line installation

Autodesk Moldflow Insight applications may be installed using command line instructions.

Installing from a downloaded executable, using the command line

- 1 Click **Start > Run**.
- 2 Enter **cmd** in the **Open** text box.
- 3 Click **OK** to open the command prompt.

NOTE: Windows Vista Users should click **Start** and enter **cmd** in the **Start Search** dialog at the bottom of the Start menu. Press **CTRL+SHIFT+ENTER** to open the Administrator Command Prompt.

- 4 Navigate to the directory where you downloaded the installer executable file.
- 5 Type the name of the executable file.
For example: **amipc-ui.exe** or **amipc-solvers.exe**

Installing from the installation disk, using the command line

- 1 Click **Start > Run**.
- 2 Enter **cmd** in the **Open** text box.
- 3 Click **OK**.

NOTE: Windows Vista Users should click **Start** and enter **cmd** in the **Start Search** dialog at the bottom of the Start menu. Press **CTRL+SHIFT+ENTER** to open the Administrator Command Prompt.

- 4 Navigate to the DVD-ROM drive.
- 5 Navigate to the **{rel}\windows** directory where **{rel}** is the current Autodesk Moldflow release.
For example: **cd ami2012\windows**
- 6 Type the name of the executable file.
For example: **amipc-ui.exe** or **amipc-solvers.exe**

Autodesk Moldflow Insight command line installation options

There are several command line options that can be used to create silent installs and to set Autodesk Moldflow Insight component install options.

The command line installer requires the following items as mandatory fields. If any of these are not supplied, the installer will fail.

- Valid serial number (SN) and product code (PK)
- End User License Agreement (EULA) country selection
- License type (which must be set to Network)
- Network license server model and server name(s)
- Whether or not to install the Network License Manager
- When installing the user interface, the name or IP address of the default Job Manager server.

To install the user interface:

NOTE: If you have already installed the solvers, certain options cannot be changed and certain pages of the installer may not appear, even if you specify different variables during the user interface installation. This behavior is consistent with the installation process using the installation wizard.

```
amipc-ui.exe /eulalang="country_code" /sn="serial_number" /pk="product_key"  
/license="network"  
/networks="server_name"|/networkr="server_name1:server_name2:server_name3"  
/installlm="yes"|"no" /jmsserver="hostname"|"ipaddress" [/silent] [/verysilent]  
[/dir="x:\dirname"] [/userdir="x:\dirname"] [/tmpdir="x:\dirname"]
```

To install the solvers:

NOTE: If you have already installed the user interface, certain options cannot be changed and certain pages of the installer may not appear, even if you specify different variables during the solvers installation. This behavior is consistent with the installation process using the installation wizard.

```
amipc-solvers.exe /eulang=country_code /sn=serial_number  
/pk=product_key /license="network"  
/networks=server_name /networkr=server_name1:server_name2:server_name3  
/installnlm="yes"|"no" [/silent] [/verysilent] [/dir="x:\dirname"]  
[/userdir="x:\dirname"] [/tmpdir="x:\dirname"]
```

Options

/eulang=*country_code*

Specify the country for the EULA. Options for *country_code* are:

enu = English—United States

jpn = Japan

chs = China

cht = Taiwan

fra = France

deu = Deutschland

esn = España

ita = Italia

kor = Korea, South

ptg = Portugal

ptb = Brazil

rus = Russia

cze = Ceska Republika

nld = Netherland

pol = Polska

hun = Magyarország

oth = Other Countries

/sn=*serial_number*

Specify the serial number provided with your product.

/pk=*product_key*

Specify the product key provided with your product.

/license="network"

Specify the type of license to install. This choice installs a network license setup.

/networks=*server_name*

Specify the name of the server machine to use if you are installing a Single Network License.

/networkr=*server_name1:server_name2:server_name3*

Specify a quoted, colon-separated list of three server machines to use if you are installing a Redundant Network License.

/installnlm="yes"

Install the Network License Manager on this machine.

`/installnlm="no"`

Do not install the Network License Manager on this machine.

`/jmserver="hostname"|"ipaddress"`

Specify the hostname or IP address of the default Job Manager server.

`/silent`

Only the **Installing** progress page is displayed, but no questions are asked of the user.

`/verysilent`

The installer is completely silent, nothing is displayed.

`/dir="x:\dirname"`

A quoted, fully specified pathname to an alternative install directory.

`/userdir="x:\dirname"`

A quoted, fully specified pathname to the user's default projects folder.

`/tmpdir="x:\dirname"`

A quoted, fully specified pathname to the temporary directory.

Examples

```
amipc-solvers.exe  
/license="network"  
/sn="serial_number"  
/pk="product_key" /eulalang="enu"  
/networks="localhost"  
/installnlm="yes" /silent
```

Silently install the Autodesk Moldflow Insight - Solvers application on this machine. Also install the Autodesk Network License Manager on this machine. A Single Network License configuration is specified, and the license server name is set to *localhost*. The installation wizard **Installing** progress page is displayed but does not prompt for user input. The United States English version of the EULA will be applied.

```
amipc-ui.exe /license="network"  
/sn="serial_number"  
/pk="product_key" /eulalang="fra"  
/networks="server2"  
/installnlm="no"  
/jmserver="server1" /verysilent
```

Silently install the Autodesk Moldflow Synergy - User Interface application on this machine. The user chose not to install the Autodesk Network License

```
amipc-solvers.exe  
/sn="serial_number"  
/pk="product_key" /eulalang="ptb"  
/license="network"  
/networkr="server1:server2:server3"  
/installnlm="no"
```

Manager on this machine. A Single Network License configuration is specified, and the license server name is set to *server2*. The user set the default Job Manager server to be *server1*. The installation wizard is not displayed. The French version of the EULA will be applied.

Install the Autodesk Moldflow Insight - Solvers application on this machine. A Redundant Network License configuration is specified, and the license server names are set to *server1*, *server2*, and *server3*. The user chose not to install the Autodesk Network License Manager on this machine. The installation wizard is displayed. The Brazilian Portuguese version of the EULA will be applied.

Installing Autodesk Moldflow Insight - Solvers—Linux

3

Before installing the Autodesk Moldflow Insight - Solvers application on a Linux system, check that your platform and hardware are supported.

Supported Linux platforms

Table 7: Supported Linux platforms

Operating System	Bits	Hardware Platform
Red Hat Enterprise Linux 5.6 or later	64	AMD or Intel x86-based 64-bit processor

NOTE: The Autodesk Network License Manager application cannot be installed on Linux systems. Any Autodesk Moldflow product installation must be able to access a Windows machine running the license manager server.

Required subsystems and system patches on Linux

To run the installation script, the Korn shell must be loaded.

Autodesk Moldflow Insight requires relevant subsystems and system patches to be installed.

Subsystems

- C/C++ runtime libraries

The installation script will check for the availability of these subsystems and display a warning if any are missing. If this occurs, please consult the hardware vendor to obtain the required components.

Patches

Autodesk advises that you install all supplier recommended patches.

Table 8: Supplier recommended patches

Operating System (Supplier)	Obtain patches from:
Linux (Red Hat)	http://www.redhat.com/

Before installing software

To prevent problems during the installation of Autodesk Moldflow Insight, there are initial tasks that should be performed.

Access the Job Manager

If you are running a firewall on Linux, you may need to open TCP port 20323 for communication with the Job Manager.

Perform a system backup

Before you install the Autodesk Moldflow Insight - Solvers application, you or a system administrator should do a full system backup.

Stop all running jobs

From a client machine, stop all currently running analysis jobs using the Job Manager feature **Analysis > Job Manager**. This ensures no “File in use” errors occur during installation.

Check if Autodesk Moldflow Insight solvers have been installed previously

Open the file `/var/adm/moldflow/installations` and if `ami2012` appears in that file, you will need to uninstall the existing version of Autodesk Moldflow Insight 2012 before proceeding.

Uninstall any previous Autodesk Moldflow Insight 2012 release

- 1 Log in as the user on the machine where the Autodesk Moldflow Insight - Solvers application has been installed previously.
- 2 Ensure that no Autodesk jobs are running currently on the machine using the client-server functionality of the Job Manager.
The uninstall script will automatically stop the Job Manager on the current machine, which would cause any jobs currently running to abort.

- 3 Log in as root, then run the script **bin/mfuninstall** in the directory that was specified for the ami2012 release in the **/var/adm/moldflow/installations** file.
- 4 Change to the parent directory in which the Autodesk Moldflow Insight - Solvers application is installed (for example, **/opt/Autodesk/moldflow**), and delete the **ami2012** directory and subdirectories below it. For example: **rm -r ami2012**).

Preparing to install Autodesk Moldflow Insight - Solvers on Linux

Installing the Autodesk Moldflow Insight - Solvers in a Linux environment involves several steps.

- 1 Installation of the Autodesk Moldflow Insight - Solvers application. There are three ways to install the software on the local machine:
 - Directly from the DVD.
 - From a tar file that you have copied from the DVD.
 - Over the network.Instructions for all methods are included.
- 2 Configuration of each Autodesk Moldflow Insight user's environment.

Local installation

Installing the Autodesk Moldflow Insight solvers on the local machine provides the best performance but requires approximately 600 MB of disk space on the local machine for the installed software.

Preparing to install directly from DVD

You must be logged in as root to install the Autodesk Moldflow Insight software. Use the following command to ensure that you are using the root environment:

```
su -
```

- 1 Mount the Autodesk Moldflow Insight installation DVD.

Many Linux systems require a DVD-ROM to be explicitly mounted before it can be accessed. Insert the DVD into the DVD-ROM drive and then enter the appropriate mount command for your system from the following table.

Table 9: Example DVD mount commands on Linux

Operating System	Example command
Red Hat Enterprise Linux	<code>mount /media/dvdrom</code>

The device names and mount points may be different on your system. If necessary, consult your system administrator for the actual device names and mount points used at your site.

- 2 Launch the installation setup script by entering the following command:

```
DVDPATH/ami2012/unix/setup
```

where *DVDPATH* specifies the path to the root directory of the DVD-ROM). The setup script will automatically detect the current platform.

NOTE: If you are installing the software via the network, enter the following command on the file server machine:

```
DVDPATH/ami2012/unix/setup -p CODE
```

where *DVDPATH* specifies the path to the root directory of the DVD-ROM, and *CODE* specifies the platform for which you are installing Autodesk Moldflow Insight on the file server. The option for *CODE* is: **lx26ol**.

The **Autodesk Moldflow Insight Setup Installation Menu** is displayed.

Now continue to follow the instructions in [Installing the Autodesk Moldflow Insight - Solvers application on Linux systems](#) on page 37.

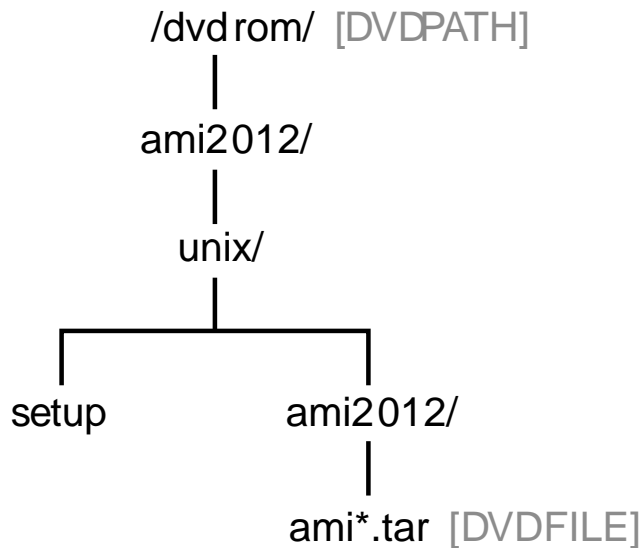
Preparing to install from tar files on DVD

You must be logged in as root to install the Autodesk Moldflow Insight - Solvers software. Use the following command to ensure that you are using the root environment:

```
su -
```

First copy the appropriate archive file (in tar format) for the platform on which the software is to be installed from the DVD to a network drive and then extract the archive and perform the installation from the network drive.

This installation method can be advantageous if you have many installations to perform because the extraction of files only needs to be performed once.



- 1 Determine the required DVDFILE. The location of the DVDFILE is illustrated above. The name of the DVDFILE is **ami<code>.tar** where *<code>* is the relevant platform code for the client machine, as follows:

Table 10: Platform <code>names for Autodesk Moldflow Insight - Solvers

Hardware Platform	Operating System	<code>
AMD or Intel x86 based 64-bit processor	Red Hat Enterprise Linux 5.6 or later	lx260l

- 2 Create the directory **/install** in the parent directory where you will install the software (recommended, **/opt/Autodesk/moldflow**). This directory will be used to temporarily hold files during the installation.

```
mkdir -p /opt/Autodesk/moldflow/install
```

NOTE: This path is case sensitive. The capital A in Autodesk is recommended.

- 3 Change to the newly created directory (**/opt/Autodesk/moldflow/install**).
- 4 Extract the files **setup.exe** and **setup.inf** from the **ami<code>.tar** file using the following command. The extraction process may take several minutes to complete.

```
tar xvof ami<code>.tar setup.exe setup.inf
```

- 5 Run the setup.exe script in the install directory:

```
./setup.exe
```

Now continue to follow the instructions in [Installing the Autodesk Moldflow Insight - Solvers application on Linux systems](#) on page 37.

Preparing to install by downloading tar files

You must be logged in as root to install the Autodesk Moldflow Insight - Solvers software. Use the following command to ensure that you are using the root environment:

```
su -
```

- 1 Create the directory `/opt/Autodesk/moldflow/install`. This directory will be used to temporarily hold files during the installation.

```
mkdir -p /opt/Autodesk/moldflow/install
```

NOTE: This path is case sensitive. The capital A in Autodesk is recommended.

- 2 Change to the `/opt/Autodesk/moldflow/install` directory.
- 3 Extract the files setup.exe and setup.inf from the *<downloaded tar file>* using the following command. The extraction process may take several minutes to complete.

```
tar xvof <downloaded tar file> setup.exe setup.inf
```

- 4 Run the setup.exe script in the install directory:

```
./setup.exe
```

Now continue to follow the instructions in [Installing the Autodesk Moldflow Insight - Solvers application on Linux systems](#) on page 37.

Network installation

Many customers choose to install the Autodesk Moldflow Insight software on one machine (the file server) and then run the solvers on other machines in the network (the client machines) via an NFS mounted disk.

If you wish to install the Autodesk Moldflow Insight software on a file server, and then set up the client machines, you will launch the Autodesk Moldflow Insight installation script in a different manner than if you are

installing on the local machine. Specific instructions for this step are included in *Setting up client machines from a file server* on page 38.

Installing the Autodesk Moldflow Insight - Solvers application on Linux systems

- 1 Select Autodesk Moldflow Insight - Solvers by entering the number associated with that menu item.
- 2 Enter the number corresponding to the menu item Install Selected Products.
- 3 Choose whether you are installing from a CD-ROM.

- If you enter **y**, then you must enter the name of the tar file corresponding to the platform that you wish to use:

Table 11: Platform tar files

Hardware Platform	Operating System	File Name
AMD or Intel x86 based 64-bit processor	Red Hat Enterprise Linux 5.6 or later	amix26ol.tar

- If you enter **n**, you will be prompted to enter the path and name of the tar file. Type in this information and press **Enter**.

The installation script will now load and extract the files. This may take a while depending on the speed of your machine and DVD-ROM drive if you are installing from a DVD.

- 4 Choose whether you want to install the Autodesk client machine setup.

NOTE: The Autodesk client machine will install the Autodesk Job Manager on the client machine, allow you to set your temporary directory location and set values for a selection of environment variables.

- If you enter **y**, you will launch the Autodesk client machine setup script now. Continue to complete the remaining steps to install Autodesk Moldflow Insight - Solvers.
- If you enter **n**, you will launch the client setup script manually at a later time. You will be returned to the **Autodesk Moldflow Insight Setup Installation Menu** and you do not have to complete the remaining steps to install Autodesk Moldflow Insight - Solvers.

NOTE: To run the client setup script at a later time, enter:
`/opt/Autodesk/moldflow/ami2012/bin/mfclient`

- 5 Select the location of a temporary files directory.

This is where the Job Manager will write temporary files whenever an analysis is run on the current machine. For optimum performance, it is essential that you select a local drive rather than a network drive. The amount of temporary space that will be required depends primarily on the size and complexity of the models being analyzed, the number of simulations being run simultaneously, and the frequency with which simulations are launched. You should select a temporary directory providing several gigabytes of disk space as a minimum.

NOTE: The `/tmp` directory on many Linux systems will not have sufficient space for use as the Job Manager temporary directory. Please check the available disk space carefully.

- 6 Enter **y** to confirm the default location of the temporary directory (`/tmp`), or enter **n** to specify an alternate directory.

NOTE: You can change the location of the Job Manager temporary directory at any time. To do so, log in as root on the client machine, and stop the Job Manager (`./ami2012jmrc stop` in the `/var/adm/moldflow/` directory). Edit the `MFSYN_TMP` variable in the `ami2012jm_perhost_vars.ksh` file found in the `/var/adm/moldflow/` directory. Restart the Job Manager (`./ami2012jmrc start` in the `/var/adm/moldflow/` directory).

If you selected an alternative directory, the script will display the available disk space in the specified directory and ask for confirmation before proceeding.

When the setup script has restarted the Job Manager, your Autodesk client machine setup for Autodesk Moldflow Insight - Solvers is complete.

Setting up client machines from a file server

- 1 If you have installed the required software components on a file server, and you wish to set up other Autodesk client machines, you will need to follow the steps below to mount the directory on the file server where the Autodesk Moldflow Insight server has been installed, and then start the `mfclient` script manually on each machine that is to act as an Autodesk client.

NOTE: If you have installed the software locally, you can still use this machine as an Autodesk file server for other same-platform machines in your network. That is, you can always mount the file system and configure other Autodesk client machines, regardless of how the Autodesk file server has been configured.

- 2 To mount the installation directory and manually launch the **mfclient** script, you must log in as root on the client machine.
- 3 Mount the directory `<servername>:/opt/Autodesk/moldflow/ami2012` on the current machine.
For example, for a file server with hostname hawk and software installed in `/opt/Autodesk/moldflow/ami2012`, you would enter the command:

```
mount hawk:/opt/Autodesk/moldflow/ami2012
```

NOTE: The directory path where the software is mounted must be the same on all same-platform Autodesk client machines. This is because the settings in the **MFENV.csh** or **MFENV.sh** file include the path.

- 4 Start the **mfclient** script by changing to the directory `/opt/Autodesk/moldflow/ami2012/bin` and typing

```
./mfclient
```

- 5 The **mfclient** script prompts you to confirm whether you wish to proceed: Do you wish to proceed with the **Autodesk** Client Machine setup? (y/n) [yes]:
- 6 Enter **y** to continue.

The script will now check for the required operating system components and patches and configure the relevant Autodesk Moldflow Insight related script files.

If you wish to run the Autodesk Moldflow Insight solvers from the command line rather than via the Job Manager, you will need to set up each user's environment.

Setting up each user's environment

Each Autodesk Moldflow Insight user's environment must include `PATH` and other environment variables that enable Autodesk Moldflow Insight to function correctly.

NOTE: Setting up an environment should be done by the user. This will ensure correct ownership and permissions for the altered files.

C-shell user environment setup

- 1 Open the user's `.cshrc` file in their home directory in a text editor.
- 2 If present, remove any previous release Autodesk Moldflow Insight or Dynamic Series environment variable settings.
- 3 Add the following line to the bottom of the file:

```
source /opt/Autodesk/moldflow/ami2012/data/MFENV.csh
```

- 4 Save the changes to the `.cshrc` file and exit the editor.
- 5 Source the `.cshrc` file by entering:

```
source .cshrc
```

Bourne-shell and Korn-shell user environment setup

- 1 Open the user's `.profile` file in their home directory in a text editor.
- 2 If present, remove any Autodesk Moldflow environment variable settings for a previous Autodesk Moldflow Insight or Dynamic Series release.
- 3 Add the following line to the bottom of the file:

```
./opt/Autodesk/moldflow/ami2012/data/MFENV.sh
```

NOTE: The dot and space character (`.`) at the start of the line are essential. The dot is actually a shell command similar to the C-shell `source` command.

- 4 Save the changes to the `.profile` file and exit the editor.
- 5 Source the `.profile` file by entering:

```
./profile
```

Minimum license requirements



This table lists the minimum license requirements for different analysis types and general operations.

Analysis type /operation	Autodesk Moldflow Adviser	Autodesk Moldflow Insight
Open Synergy (GUI)	Design	Synergy
View Results	Design	Synergy
Generate Model	Design	Synergy
Generate Report	Design	Synergy
Fill Analysis	Design	Basic
Gate Location Analysis	Design	Basic
Molding Window Analysis	Design	Basic
Cooling Quality Analysis	Design	Not Applicable
Design Adviser Analysis	Design	Not Applicable
Sink Mark Analysis	Design	Basic
Midplane Analysis Technology	Not Applicable	Basic
Dual Domain Analysis Technology	Design	Basic
3D Analysis Technology	Manufacturing	Basic
Runner Adviser Analysis	Manufacturing	Not Applicable
Runner Balance Analysis	Manufacturing	Basic
Mesh Model	Not Applicable	Basic
Reactive Molding	Not Applicable	Basic
Multiple Barrel	Not Applicable	Basic
RTM/SRIM	Not Applicable	Basic
Design of Experiments Analysis	Not Applicable	Basic
Overmolding	Not Applicable	Basic
Fill+Pack Analysis	Advanced	Basic
Cool Analysis	Advanced	Performance
Warp Analysis	Advanced	Performance

Analysis type /operation	Autodesk Moldflow Adviser	Autodesk Moldflow Insight
Shrink Analysis	Not Applicable	Performance
Core shift Analysis	Not Applicable	Performance
Stress Analysis	Not Applicable	Performance
Fiber Orientation	Not Applicable	Performance
Process Optimization Analysis	Not Applicable	Performance
Microchip Encapsulation	Not Applicable	Performance
Underfill Encapsulation	Not Applicable	Performance
Autodesk Simulation Interface	Advanced	Basic
Autodesk Moldflow Structural Alliance Interface	Advanced	Basic
Structural CAE Interface	Not Applicable	Performance
Paddle Shift Analysis	Not Applicable	Performance
Dynamic Paddle Shift Analysis	Not Applicable	Performance
Wire Sweep Analysis	Not Applicable	Performance
Birefringence Analysis	Not Applicable	Advanced
Gas-Assisted Injection Molding	Not Applicable	Advanced
MuCell	Not Applicable	Advanced
Injection Compression	Not Applicable	Advanced
Reactive Injection Compression	Not Applicable	Advanced
Co-Injection	Not Applicable	Advanced