How to install MODUS 1.13

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Contents

1   Installation - two parts

A new MODUS installation is in two parts:

1. An installation of prerequisites required by MODUS consisting mainly of required Microsoft® components.

2. The MODUS software itself, including the main installation and any maintenance releases.

Please see the detailed instructions below.

1.1   Basic requirements checklist

These are the requirements for the computer that MODUS 1.13 is to be installed on:

Requirement	Description	Checked
Supported operating systems	Windows 10 64-bit (for businesses, including Professional and Enterprise).	
Systems NOT supported	Windows 11 64-bit, Windows 10 Pro 32-bit, Windows 7, Windows 8 and 8.1, and Windows XP are NOT supported.	
Computer disk space	1 TB disk space (minimum 500 GB). SSD drives recommended.	
Computer processor	Intel(R) Core i7-6700 processor.	
RAM	8 GB RAM (16 GB recommended for large CAD models).	
Network cards	A network card is required for connecting the computer to the UCC controller. Further network cards may be required for connection to a company network.	
Graphics card	Minimum 4 GB RAM. We strongly urge the use of an add-in (not an on-board) NVIDIA Quadro graphics card. It is good practice to obtain the latest versions of the drivers for your graphics card display adaptor. Contact Renishaw if you need information on graphics card support: CMMGaugingSupport@Renishaw.com	
Monitor setting	Minimum resolution 1600 × 1200 or HD 1920 × 1080 Dual monitors are a recommended option for CAD-based programming	
Administrative permissions	You can only install MODUS on a computer if you are a Microsoft Windows Administrator of the local computer, or if you have Windows Administrative permissions.	
Antivirus and encryption software	Turn off antivirus and encryption software (such as FIPS) before installing MODUS. Turn these back on again after installing.	

2 The installation files

MODUS 1.13 and any components installed with MODUS 1.13 are 64-bit applications.

The following installation files are provided:

- Modus_1.13_PreReq_Setup_x64_V0.nn.exe - this is the prerequisites installation for MODUS (where nn is the build number for the software release).

- Modus_1.13_Setup_x64_Release_113_0_0_nnn.exe - this is the main installation for MODUS (where nnn is the build number for the software release).

2.1 Copying the installation files

Copy the installation files to the C: drive (to a folder, not to the desktop). We recommend creating a new

folder on your C: drive, for example C:\Installations, and copying the installation files there.

DO NOT COPY THE INSTALLATION FILES INTO EITHER OF THESE FOLDERS, OR INTO A SUB-FOLDER OF EITHER FOLDER:

C:\Program Files

C:\Program Files (x86)

WHEN COPYING FILES USING A USB DEVICE (MEMORY STICK), BEFORE YOU UNPLUG IT ALWAYS USE THE 'SAFELY REMOVE HARDWARE' OPTION ON THE WINDOWS TASKBAR TO DISCONNECT THE DEVICE AFTER COPYING FROM IT.

3 Messages shown when installing

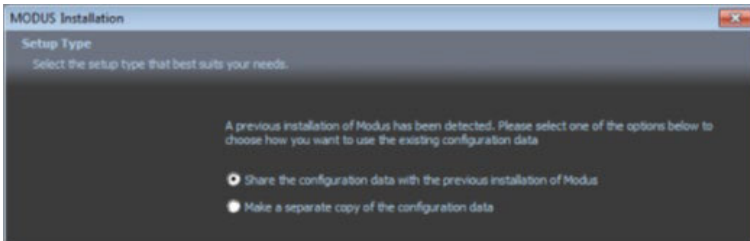## 3.1 The location for data and configuration files

In MODUS 1.7 and earlier versions, configuration data is written to files inside the C:\Renishaw folder.

For installations of MODUS 1.13 on systems which have no prior version of MODUS installed, the configuration data is written to the C:\ProgramData\Renishaw\Modus1x folder.

NOTE: Windows normally hides the folder C:\ProgramData.).

If you are upgrading to MODUS 1.13 from an earlier version where configuration data was written to files inside the C:\Renishaw folder, you can choose to store data and configuration files in the new location C:\ProgramData\Renishaw\Modus1x, or you can keep your current folder settings. Choosing the new location may help you to comply with your organisation's system configuration requirements.

If upgrading, the following message is shown during the installation:

This gives you the following options:

Share the configuration data with the previous installation of MODUS

Choose this option to continue using the existing configuration data in its current folder (C:\Renishaw).
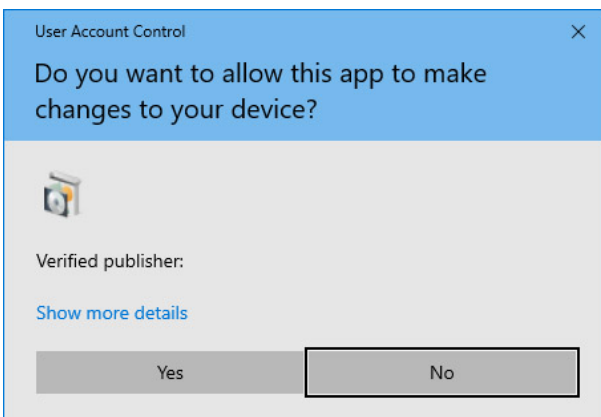
Make a separate copy of the configuration data

Choose this option to copy the existing configuration data to the new folder (C:\ProgramData\Renishaw\Modus1x). The new configuration data will be used for MODUS 1.9 onwards, whilst the configuration data in C:\Renishaw still exists and can be used by previous versions of MODUS.

3.2 The 'User Account Control' message

The 'User Account Control' dialogue box may be displayed by Windows when you start to install files.

Whenever this is displayed, click Yes:
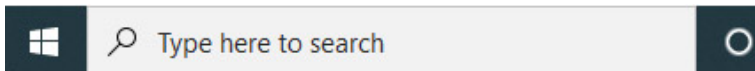

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4 Installation summary

WHEN INSTALLING, YOU ARE REQUIRED TO RESTART YOUR COMPUTER AT VARIOUS POINTS. MAKE SURE THAT YOU PERFORM ALL OF THESE RESTARTS.

1. Turn off antivirus and encryption software (such as FIPS) before installing MODUS. Turn these back on again after installing.

2. Remove the dongle.

3. Restart your computer.

4. Through 'Control Panel', uninstall any pre-release version, maintenance releases, language packs, main release, and prerequisites files.

5. Take back-ups of data.

6. Copy the installation files correctly.

7. You must now restart your computer again.

8. Install - restart again after installing the prerequisites.

9. Replace the dongle.

10. Set your default printer to MODUS PDF Printer10.

11. Check that the computer won't hibernate when MODUS is running.

12. If installing an offline system, check that the server has been installed.

4.1 To open 'Control Panel'

Windows 10:

Start typing 'Control Panel' in the 'Search' box at the bottom of your screen:

Windows then displays a link for opening 'Control Panel'.

5 Installing on Windows 10 PRO 64-BIT

MODUS IS NOT SUPPORTED ON WINDOWS 10 32-BIT OPERATING SYSTEMS.

Turn off antivirus and encryption software (such as FIPS) before installing MODUS. Turn these back on again after installing.

WHEN INSTALLING, YOU ARE REQUIRED TO RESTART YOUR COMPUTER AT VARIOUS POINTS. MAKE SURE THAT YOU PERFORM ALL OF THESE RESTARTS.

To install MODUS 1.13 on Windows 10 Pro 64-bit operating systems:

1. If you have a MODUS dongle in the computer, remove it.

2. Restart your computer. This ensures that any pending Windows updates are applied. Otherwise, these can interfere with the MODUS installation.

3. If you have any of the following applications installed, uninstall them in this order:

    • Uninstall any pre-release versions of MODUS 1.13

    • Uninstall any MODUS 1.13 maintenance releases in reverse order

    • Uninstall any language packs for MODUS 1.13

    • Uninstall the main MODUS 1.13 release

    • Uninstall the MODUS 1.13 prerequisites (PreReq)

4. Back up any working files, for example programs and report files.

5. Back up your Appdata folder, which contains various MODUS configuration files. This is located either in C:\Renishaw or in C:\ProgramData\Renishaw\Modus1x.

6. Copy the MODUS installation files to a folder on your computer as instructed in Section 2.1. Do NOT install MODUS from a network location.

7. Ensure that no Renishaw software is running.

8. Check that the Use Unicode UTF-8 setting is NOT turned on in your computer's regional settings. For details, read Section 9.1 - Failure of the prerequisites installation.

9. You must now restart your computer.

10. Double-click the file Modus_1.13_PreReq_Setup_x64_V0.nn.exe. This installs the prerequisite drivers, etc. In this part of the installation you can choose the folder that you wish to install MODUS into, or let MODUS choose it for you.

IF ANY FAILURES OCCUR WHEN INSTALLING THE PREREQUISITES, DO NOT CONTINUE. CHECK THE INFORMATION IN SECTION 9.1 AND IF IT DOESN'T RESOLVE THE ISSUES, CONTACT CMM SUPPORT AT RENISHAW FOR ADVICE AT CMMGAUGINGSUPPORT@RENISHAW.COM.

11. When the installation reaches the point of installing the dongle driver software, Windows may display a security message asking if you want to install the device software. If this message is displayed, click Install. The installation continues.

12. A black window is displayed showing the files being prepared by the installation. Wait for this to close (you may have to wait for some time after it displays Success, but don't be tempted to close it yourself). The installation then continues.

13. When the installation of the prerequisites is complete, you are prompted to restart your computer. Make sure that you restart it at this point. This is required in addition to the previous restarts.

14. When your computer has restarted, locate and double-click the MODUS 1.13 installation file Modus_1.13_Setup_x64_Release_113_0_0_nnn.exe.

15. The MODUS installation starts. If a message is displayed about choosing how to use configuration data, make your selection as described in Section 3.1.

16. Insert the MODUS dongle into the computer. If dongle drivers are required for the USB port, Windows automatically installs them at this point (see section 9.3 - USB dongle hardware).

6   Before you install MODUS

Before running MODUS for the first time after installing it, carry out the following tasks:

1. Set your default printer to MODUS PDF Printer10 in the Windows Control Panel.

2. Check your hibernation mode settings.

3. Check that you have set up appropriate user permissions for accessing the MODUS configuration options.

4. If you're intending to work offline, make sure that you have installed your server. This is needed so that you can connect to the server at least once to select the probes in your environment.

6.1   Default printer

Select the default printer. In the 'Devices and Printers' area of 'Control Panel', choose MODUS PDF Printer10.
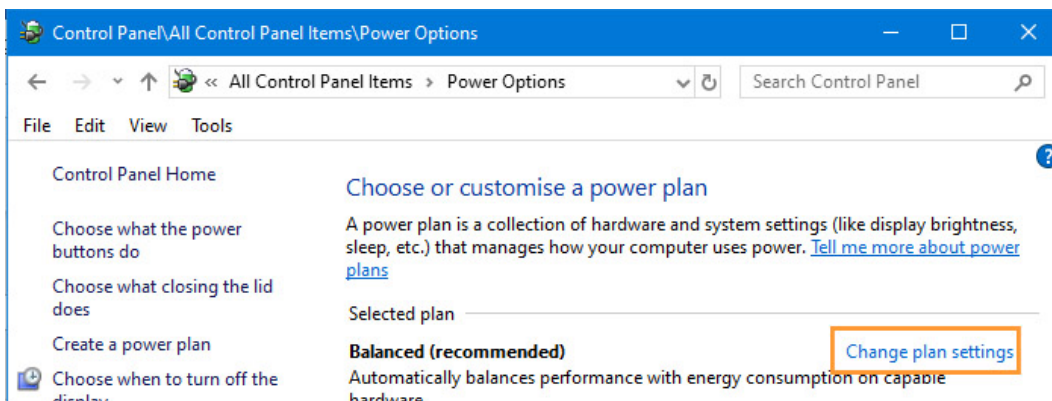
6.2   Power options and hibernation mode

The power options must be set appropriately so that the computer does NOT go into hibernation mode whilst MODUS is running. Hibernation mode could cause the following problems:
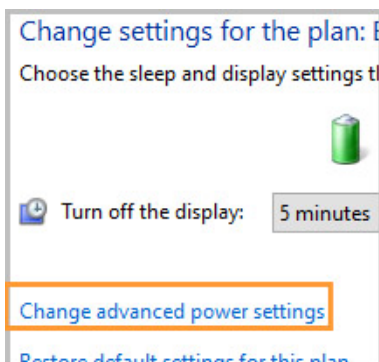
*   The CAD model window becomes opaque and does not respond.

*   If a part program is running, it stops.

*   Database corruption might occur.

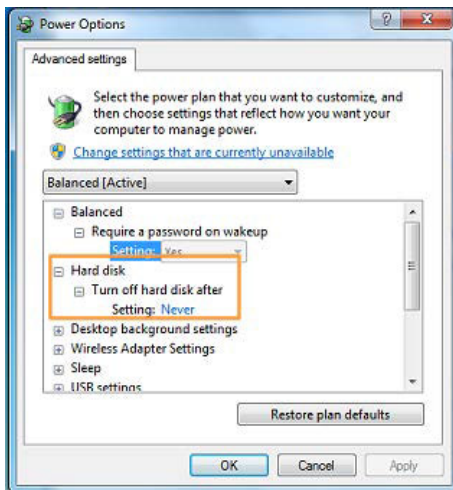The power options must be set as follows in Windows:

1. In 'Control Panel', select Power Options.

2. In the 'Choose or customise a power plan' pane click 'Change plan settings':
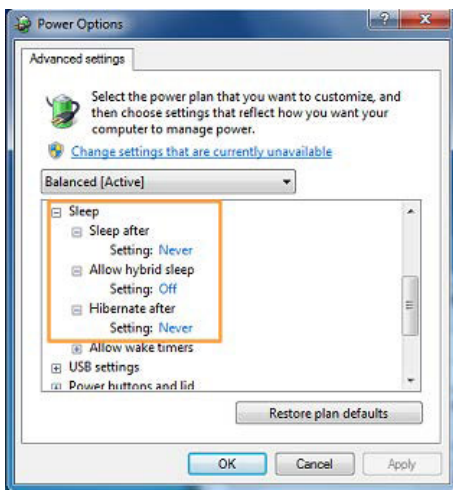

3. In the 'Change settings for the plan' options click 'Change advanced power settings':

4. On the 'Advanced settings' tab expand the 'Hard disk' option and ensure that 'Turn off hard disk after' is set to Never:

5. Also on the Advanced settings tab set the following Sleep options (but note that not all options may be present):

• Set 'Sleep after' to 'Never'.

• Set 'Allow hybrid sleep' to 'Off'.

• Set 'Hibernate after' to 'Never'.

6. Click 'OK' then 'Save changes' to confirm your settings.

6.3　User rights for MODUS configuration options

The MODUS installation creates three Windows local user groups:

- MODUS Administrator

- MODUS Supervisor

- MODUS Operator

It may be desirable to limit access to certain functions in MODUS, so that only specific groups of users can access those functions. This can be used, for example, to prevent unauthorised changes to the CMM configuration from within MODUS, because only the MODUS Supervisor and Administrator groups can access this functionality. For more information read the MODUS online Help topic, 'User Privileges'.

The installation process places the user performing the installation into the MODUS Administrator group. If other users require Administrator access to MODUS, allocate them to the MODUS Administrator group using the Windows Control Panel options.

1. In 'Control Panel' select 'Administrative Tools'.

2. In the 'Administrative Tools' dialogue box select 'Computer Management'.

3. In the left-hand pane click 'Local Users and Groups'.

4. In the right-hand pane, double-click 'Groups' to expand the list of available groups.

5. Right-click on 'MODUS Administrator' and select 'Add to Group'.

6. Click 'Add'.

7. Type in the user name. This is the Windows login for the user you wish to give 'MODUS Administrator' privileges to.

8. Click 'Check Names'.

9. Type in any more user names as required and click 'Check Names' for each one.

10. Click 'OK'. The user names are listed in the 'MODUS Administrator Properties' dialogue box.

11. Click 'OK'. The users you have added now have 'MODUS Administrator' privileges.

12. Close 'Control Panel'.

6.4　Offline installations

To run MODUS offline (not connected to a server) you must first run MODUS online (connected to the server), so that the sensor information from the server is added to the machine database and can be recalled when MODUS is offline. This means that the server must be installed on your offline system, with a server environment for your system, and you must run MODUS connected to it at least once, selecting the probes you need from the server environment.

7   Uninstalling (back-out procedure)

This is the process to follow if you've upgraded to MODUS 1.13 but want to return your system to its status before you installed 1.13.

1. Log in to the system with the appropriate admin permissions.

2. If you have installed a version of MODUS earlier than 1.13, switch to this previous version. From the Windows Start button scroll to the folder for your previous version of MODUS, open the folder, and select 'Switch to MODUS 1.n' (where 1.n is your previous version of MODUS).

3. In 'Control Panel' select 'Programs and Features' and uninstall the following software in this order. Not all may be present:

    •   Uninstall any pre-release versions of MODUS 1.13

    •   Uninstall any MODUS 1.13 maintenance releases in reverse order

    •   Uninstall any language packs for MODUS 1.13

    •   Uninstall the main MODUS 1.13 x64 release (113.0.0.nnn)

    •   Uninstall the MODUS 1.13 prerequisites file (Modus 1.13 PreReq V0.nn)

4. Restore the Appdata folder that you backed up prior to the 1.13 installation. This was located either in C:\Renishaw or in C:\ProgramData\Renishaw\Modus1x.

5. Restore any working files backed up prior to the 1.13 installation.

8 Release notes and installation instructions

Release notes are available with the MODUS installation for reading or printing. By default, they are installed here:

C:\Program Files\Renishaw\Modus\1.13\Release Notes

They can be accessed from the MODUS 1.13 folders available from the Windows Start menu.

These installation instructions are available with the MODUS installation as a PDF file for printing. If you need the Adobe® Reader® to view the PDF with, you can obtain it from here: http://www.adobe.com/.
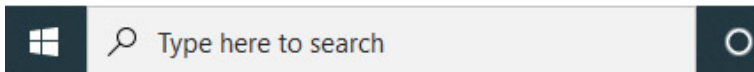
9 Troubleshooting

9.1 Failure of the prerequisites installation

When installing the prerequisites file Modus_1.13_PreReq_Setup_x64_V0.nn.exe on Windows 10, if the following error is displayed, this means that a setting in the computer's Region settings must be changed:

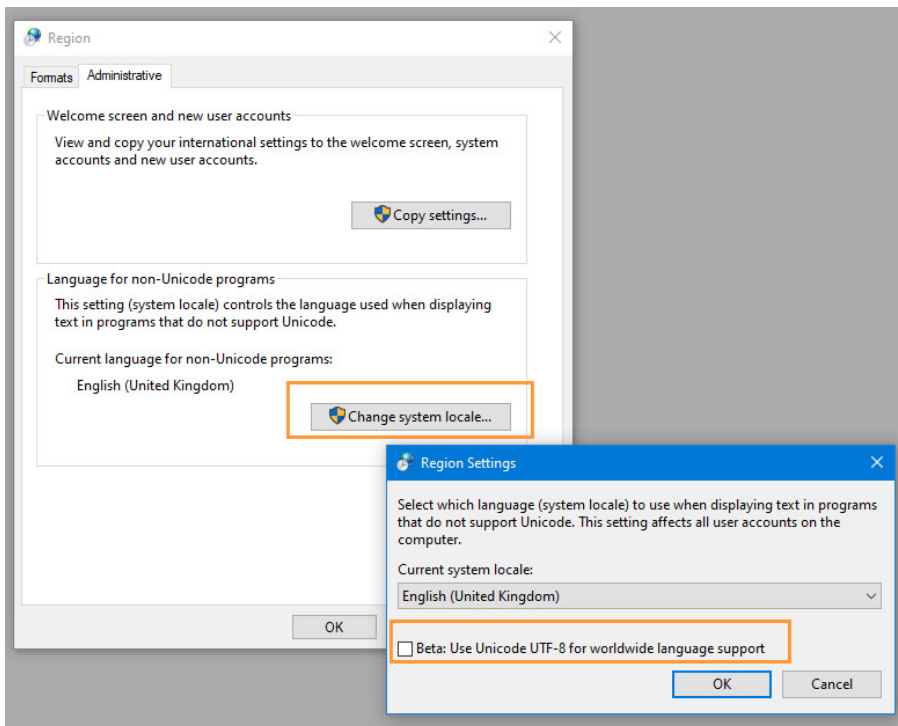Install fail. Error code -2061893606

If this error is displayed, the installation proceeds but the prerequisites do not install correctly. To fix this, follow these steps:

1. Open Windows 'Control Panel'. You can do this by starting to type 'Control Panel' in the 'Search' box at the bottom of your screen:

   Windows then displays a link for opening 'Control Panel'.

2. In 'Control Panel' click 'Region'.

3. In the 'Region' dialogue box select the 'Administrative' tab, and then click 'Change system locale'.

4. In the 'Region Settings' dialogue box make sure that the box 'Beta: Use Unicode UTF-8 for worldwide language support' is NOT checked:

5. Next, uninstall the prerequisites.

6. Restart your computer.

7. Begin the installation again, starting with the prerequisites

9.2 Graphics card settings (MODUS closes unexpectedly)

If you experience problems such as the following, ensure that your graphics driver is up-to-date:

- MODUS closes unexpectedly on start-up

- The tooltips for the icons in the 'Model' window are displayed briefly but then become obscured by the icons

9.3 USB dongle hardware

If you are using a USB DK2 dongle, your computer may display error messages under certain conditions.

- If you insert the MODUS dongle into a different USB port from that used before for MODUS and the new USB port isn't configured for the dongle drivers, the dongle drivers must be installed. Windows automatically installs the drivers.

- If all of the MODUS software displays DK2 error messages, the DK2 USB drivers may not have been properly installed. Remove the USB DK2 dongle and restart the computer. Log in and reconnect the USB DK2 dongle. Windows automatically installs the drivers.

- If you insert the MODUS dongle into a USB port on a 'clean' system, that is, on a computer which does not have (and has NEVER had) MODUS installed on it, the dongle drivers are not available for the dongle. Windows attempts to automatically install the drivers. However, you must first remove the dongle, and then install the MODUS prerequisites and MODUS so that Windows can locate the correct software for the installation of the dongle drivers. Windows will automatically install the drivers.

9.4 Using a multi-monitor system

On multi-monitor systems MODUS should be displayed either on the primary monitor, or on a monitor to the right of the primary monitor.

The multi-monitors can be configured through the 'Display' option available from the Windows 'Control Panel'.

9.5 Online Help

If an error is displayed when you try to access the MODUS Help file, right-click on the MODUS113_LNG.CHM file (where _LNG indicates the language of the Help file) in Windows 'File Explorer', select 'Properties' and click 'Unblock'.

9.6 View layout

The MODUS installer installs default view layout files for MODUS in the following folder:

C:\ProgramData\Renishaw\Modus1x\Appdata\View Layout

If you make changes to the layout of windows and menus in MODUS, the changes are saved to ModusLayout113.vsfx when you close MODUS. You can also save changes manually by using View > Save View Layout from the MODUS main menu bar. This prompts you to save the view layout and allows you to specify a name for your view layout file and a location to save it in. To display all options available in MODUS, use View > Load View Layout from the MODUS main menu bar and load the file ModusLayoutFull113.vsfx.

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