

How to Install MRDS R4 and CoSpace Robot Simulator on SSOE Laptops

Step1: Download the following software:

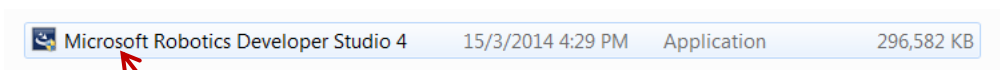
- 1.1. Download the Microsoft Robotics Developer Studio R4
<https://www.microsoft.com/robotics/>
- 1.2. CoSpace Robot Simulator
<http://www.cospacerobot.org/csbotssimulator> (You can choose to download CoSpace Rescue for SSOE or CoSpace Dance for SSOE)

Step2: Get serial code for the CoSpace Robot Simulator

- 2.1. Submit online registration form
<http://www.cospacerobot.org/csbot-serial-code>
- 2.2. The serial code will be sent to your via email.

Step3: Login with TA account (with local admin rights and internet access)

- 3.1 Install MRDS R4 in D:\Microsoft Robotics Dev Studio 4



Right click on the "Microsoft Robotics Developer Studio R4" and select "Run as administrator"

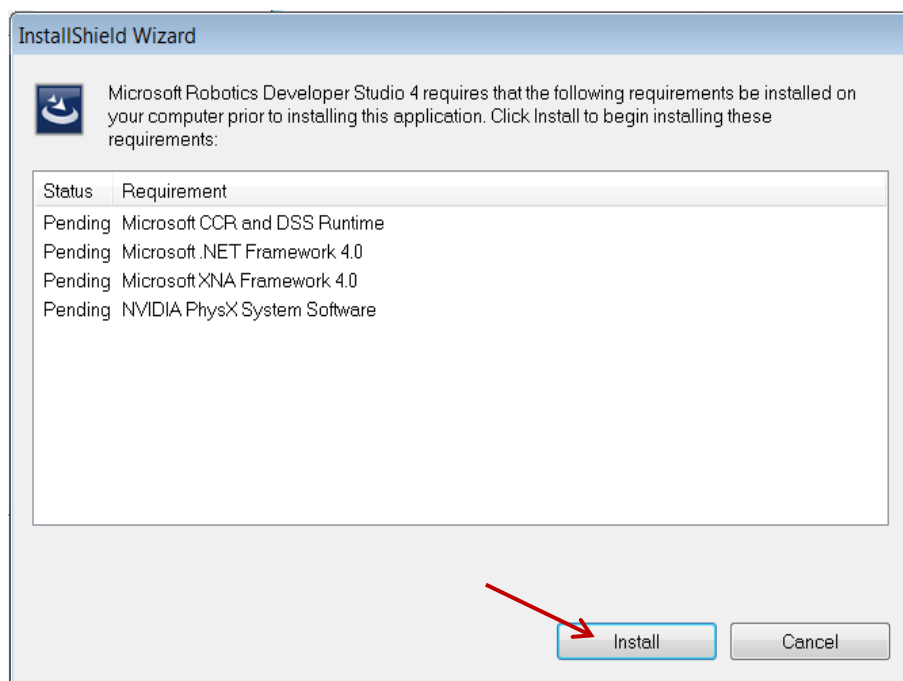


Fig. 1: MRDS R4 Installation

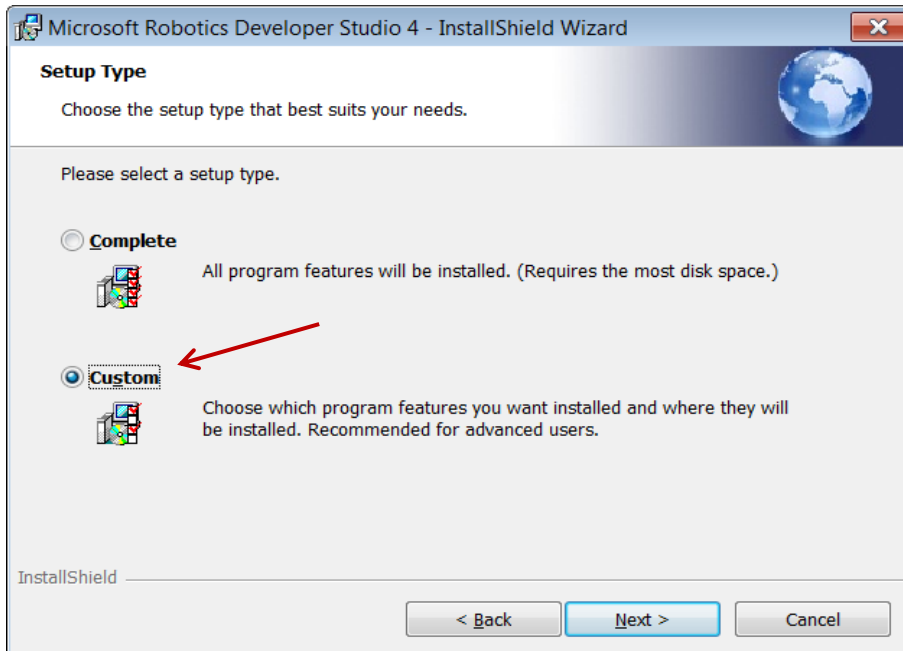


Fig. 2: Choose Custom installation

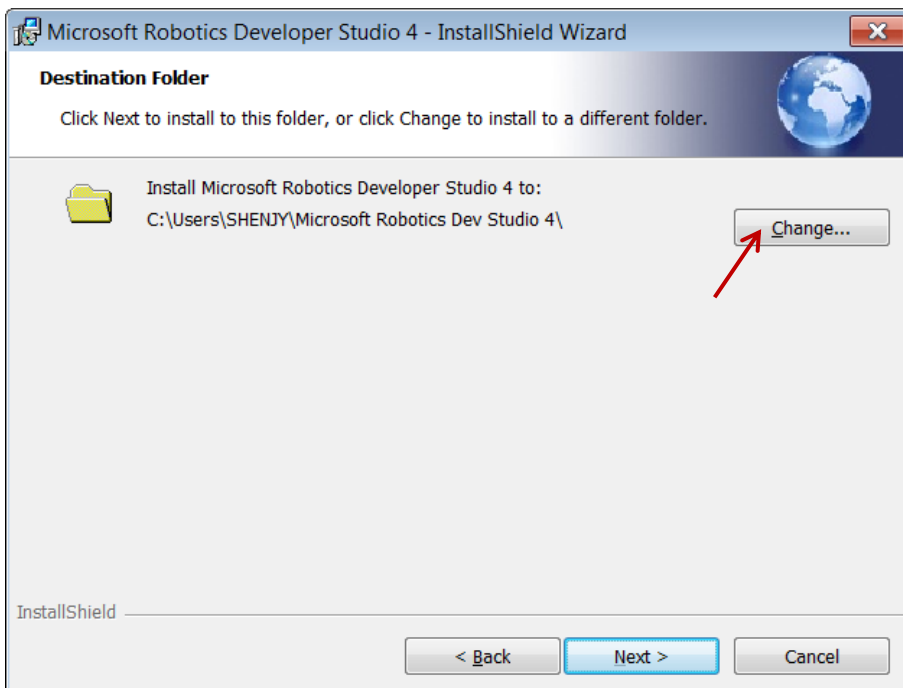


Fig. 3: Change installation directory

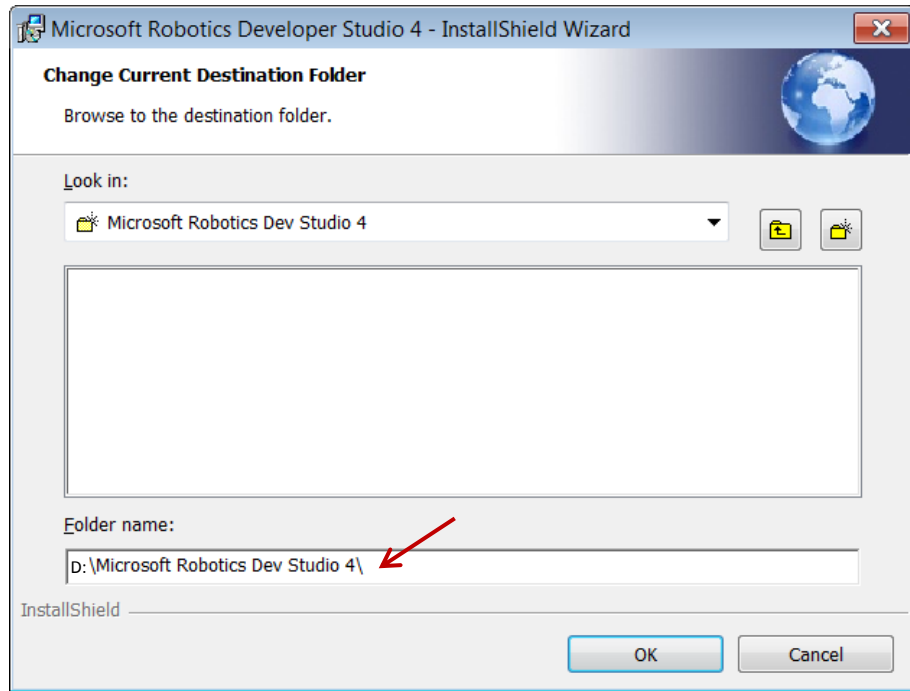


Fig. 4: Install the MRDS 4 in D:\

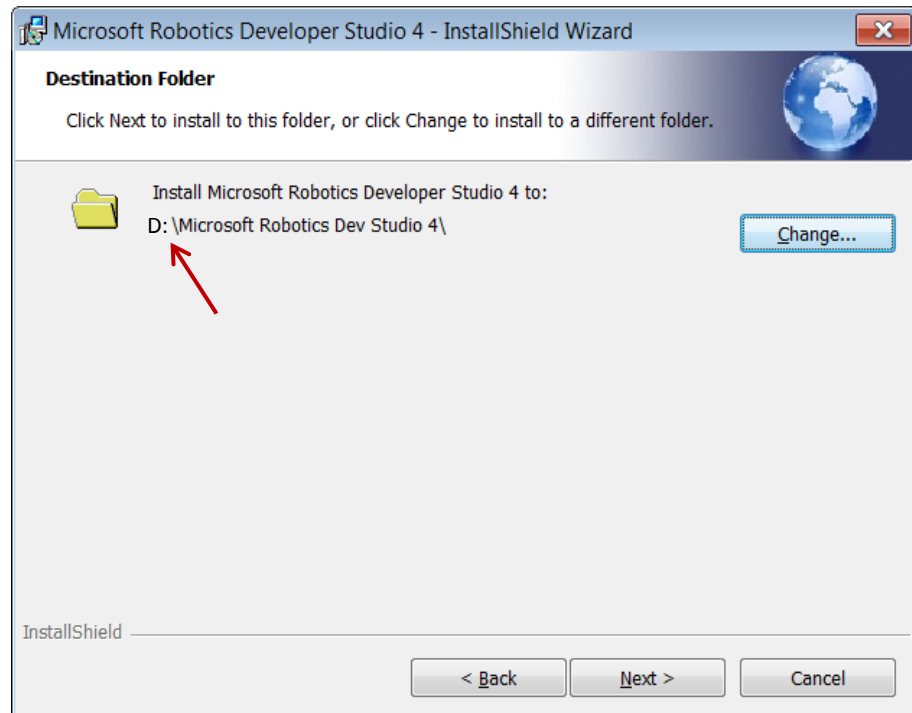


Fig. 5: Double confirm that the MRDS R4 will be installed in D:\



Fig. 6: Installation process is finished

3.2 Launch Microsoft Virtual Simulation Environment to make sure the MRDS 4 is installed correctly.

Start → All Programs → Microsoft Robotics Developer Studio 4 → Virtual Simulation Environment → Entities

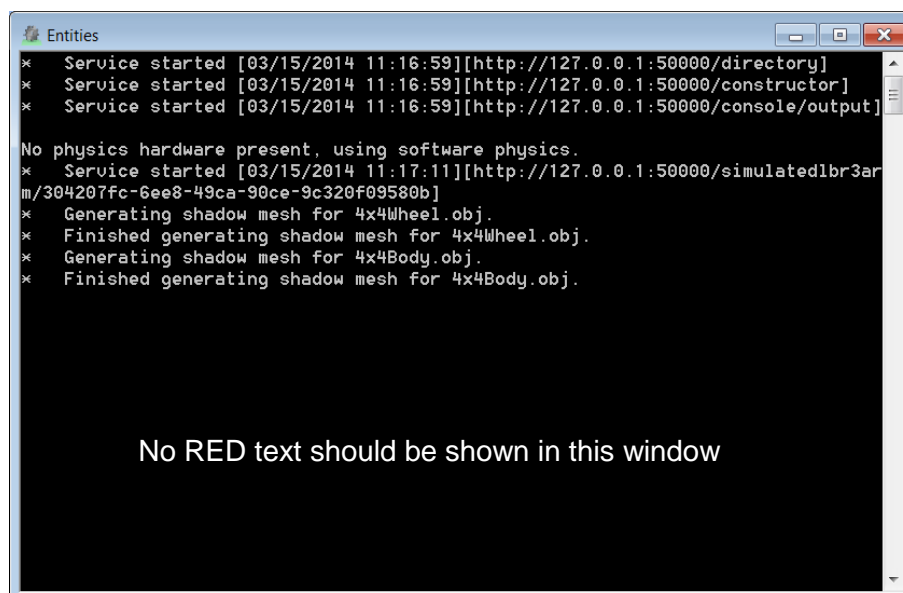


Fig. 7: Command window



Fig. 8: Visual Simulated Environment of Entities

You should see the Fig. 8 is displayed properly.

Note: The .NET Framework 4.0 or higher is required. If it is not automatically installed, please download it from <http://www.microsoft.com/net/downloads>.

3.3 Exit from MRDS R4

Step 4: Install CoSpace Rescue in the D:\Microsoft Robotics Dev Studio 4

4.1 Unzip the downloaded package and double click on the “setup.exe” .

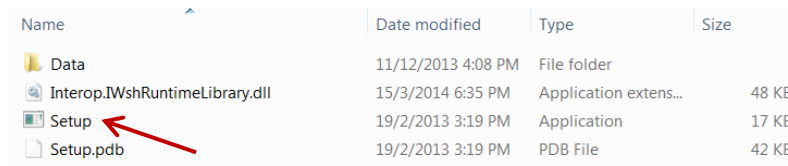


Fig. 9: Install CoSpace Simulator

4.2 The Microsoft Robotics Dev Studio 4 directory needs to be selected. Usually, it is automatically detected. If your system is not able to find the MRDS 4 directory, click “Open” button to locate the MRDS 4 directory manually.

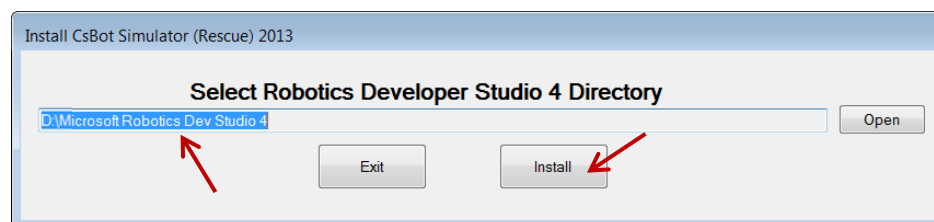


Fig. 10: Select the correct directory for installation

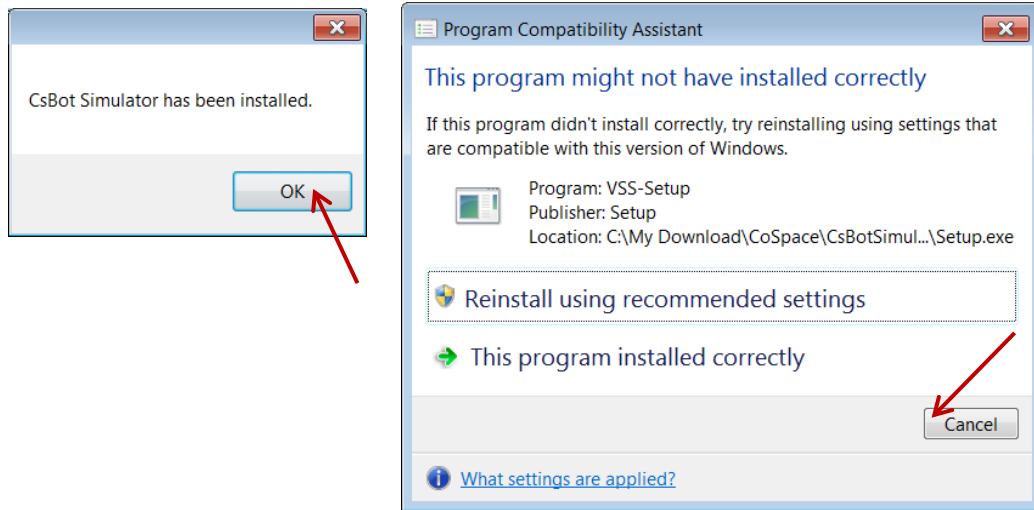


Fig. 11: Wait until the full installation is completed

4.3 You should see CoSpace Simulator icons on the desktop after installation.



Step 5: Reserve the port 50000 for CoSpace Simulator

5.1 Launch "DSS Command Prompt"

Start → Microsoft Robotics Dev R4 →

Right click on "DSS Command Prompt" and "Run as administrator"

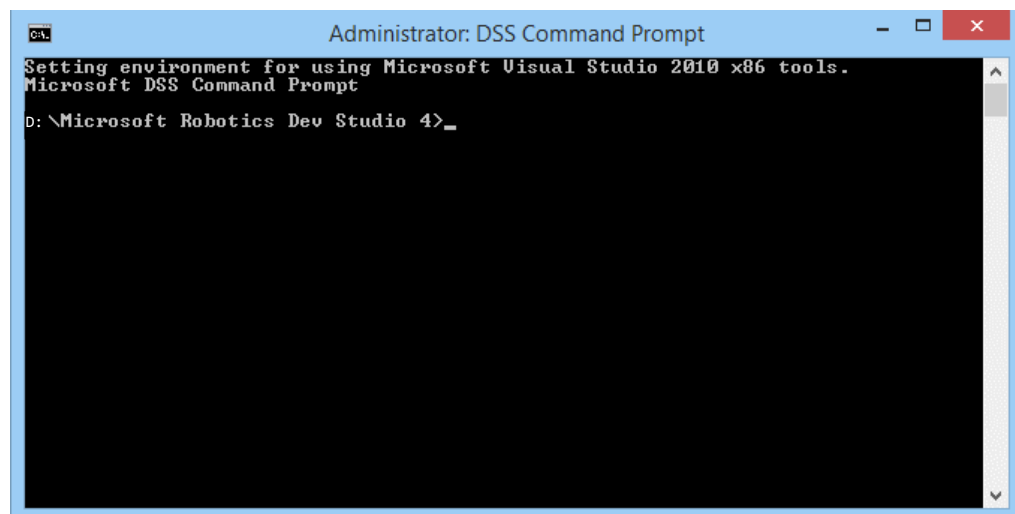


Fig. 12: DSS Command Prompt

5.2 Type the following command

```
D:\Microsoft Robotics Dev Studio 4>httpreserve /Force /x:127.0.0.1 /p:50000 /u:everyone
```

You will see the following reply

```
http://127.0.0.1:50000/ reserved.
```

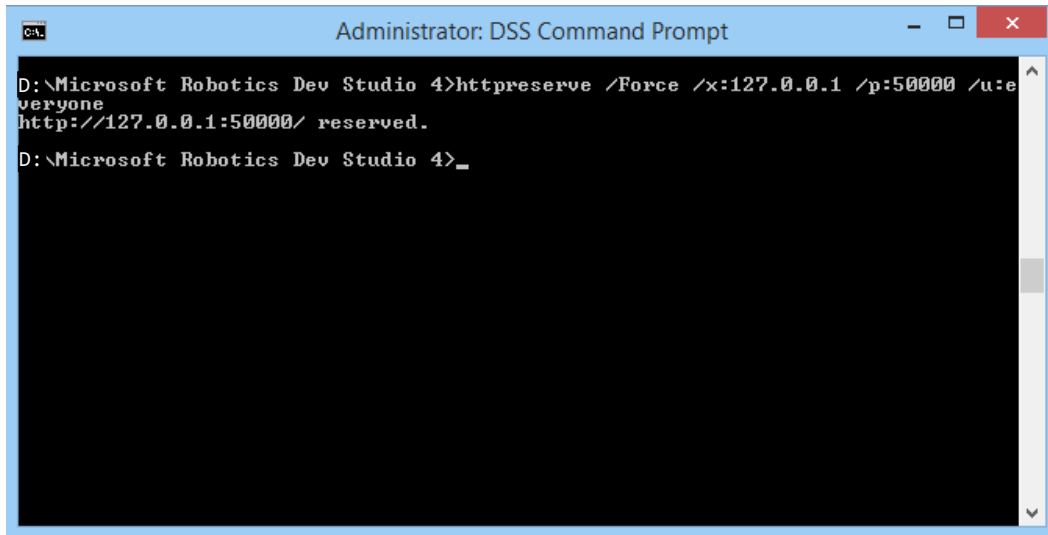


Fig. 13: Send httpreserve command

Step 6: Launch the CoSpace Rescue 2014 or CoSpace Dance 2014 and complete the registration (make sure that you should have internet connection)



Step 7: Copy the CsBot Simulator shortcut to "start menu" and public desktop.

7.1 Copy the "CsBot Simulator 2014.Ink" shortcut located on the current Desktop to the path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs"

7.2 Copy the "CsBot Simulator 2014.Ink" short-cut located on the current Desktop to the path "C:\Users\Public\Public Desktop"

Step 8: Launch and Run as Administrator the "Command Prompt" and type in

```
attrib +s +h "D:\Microsoft Robotics Dev Studio 4"
```

Note: To unhide the folder you can use this command,

```
attrib -s -h "D:\Microsoft Robotics Dev Studio 4"
```

Only accounts with local administrator rights may perform this task.

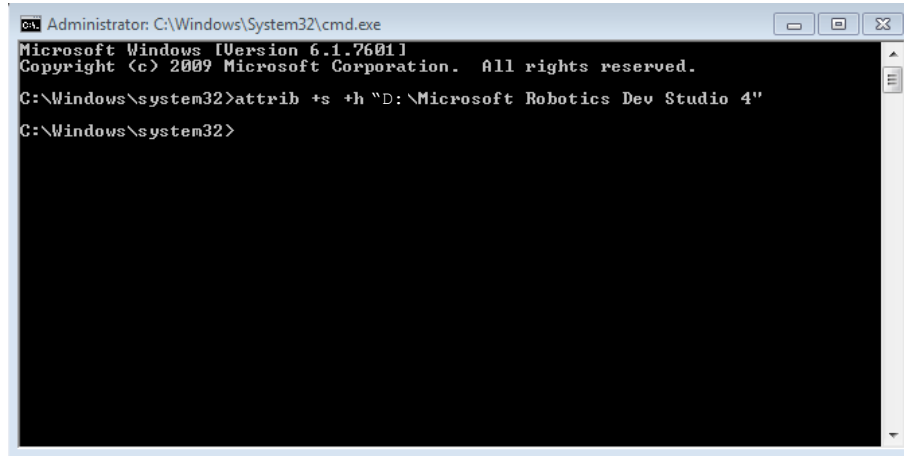


Fig. 14: Hide the MRDS R4 on D:\

Step 9: Launch the CsBot Rescue 2014 Simulator and enter the serial code provided (Refer to step 2 for serial code). Exit the program after the registration.

Step 10: Logout from TA account and login with the user account

Step 11: Launch the CoSpace Rescue or CoSpace Dance Simulator

If you encounter any problem during the installation, please refer to FAQ. You can also contact the support@CoSpaceRobot.org for technical assistant.

Contact US:

Website: www.CoSpaceRobot.org

Enquiry: info@CoSpaceRobot.org

Tech Support: Support@CoSpaceRobot.org