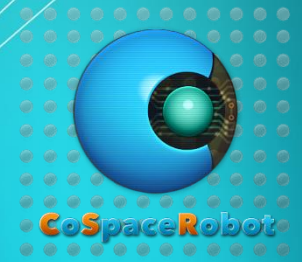


COSPACE SIMULATOR 2018



Installation Guide for SSOE Laptop



www.CoSpaceRobot.org
support@CoSpaceRobot.org



This guide is for installing CoSpace Simulator, including CoSpace Grand Prix, CoSpace Rescue, and CoSpace Logistics Simulator on Singapore School SSOE laptop.

We use the CoSpace Rescue Simulator installation as an example to illustrate the whole process.

In order to run CoSpace Rescue Simulator 2018 on Singapore SSOE laptop, you need to

1. Install Microsoft Robotics Developer Studio R4
2. Install CoSpace Rescue Simulator 2018
3. Reserve communication port
4. Apply serial code for simulator activation



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1. Please raise service request under “Predefined Service Requests -> Desktop Services ACT -> Whitelist Software Installation”. Please key-in “CoSpace Simulator” under “Request Description” in the SR details.
2. The MRDS and CoSpace Simulator must be installed on D drive.

Contact US:

Website: www.CoSpaceRobot.org

Enquiry: info@CoSpaceRobot.org

Tech Support: Support@CoSpaceRobot.org

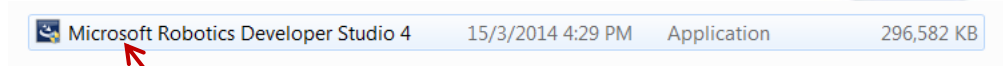
1. MRDS R4 INSTALLATION

Step1: Download the Microsoft Robotics Developer Studio R4

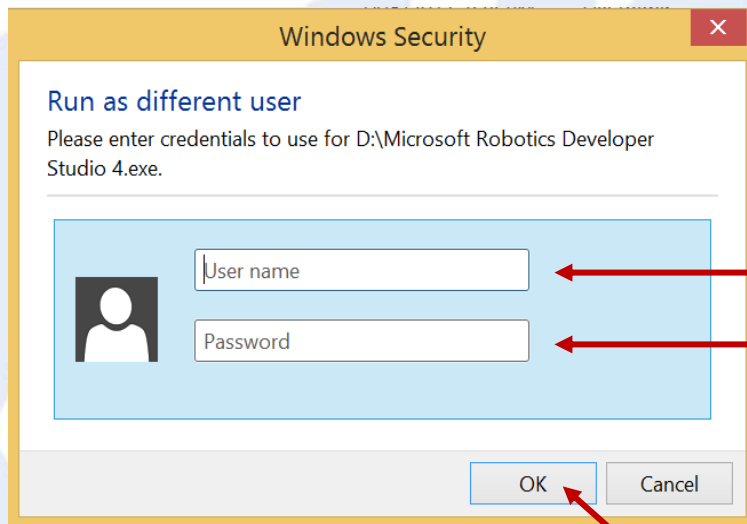
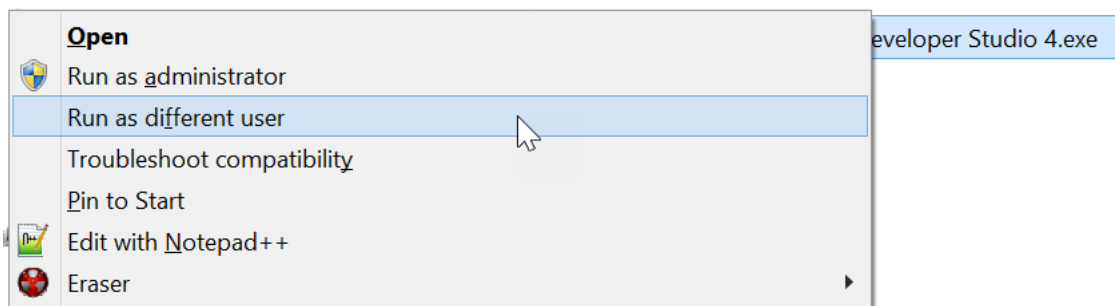
<https://www.microsoft.com/robotics/>

Step2: Login with TA account (with local admin rights and internet access)

(a) Install MRDS R4 in D:\Microsoft Robotics Dev Studio 4



Hold the **Shift key** while we **right click** on it and choose "Run as different user" on the list.



.\ncswlocaladmin

Local admin password

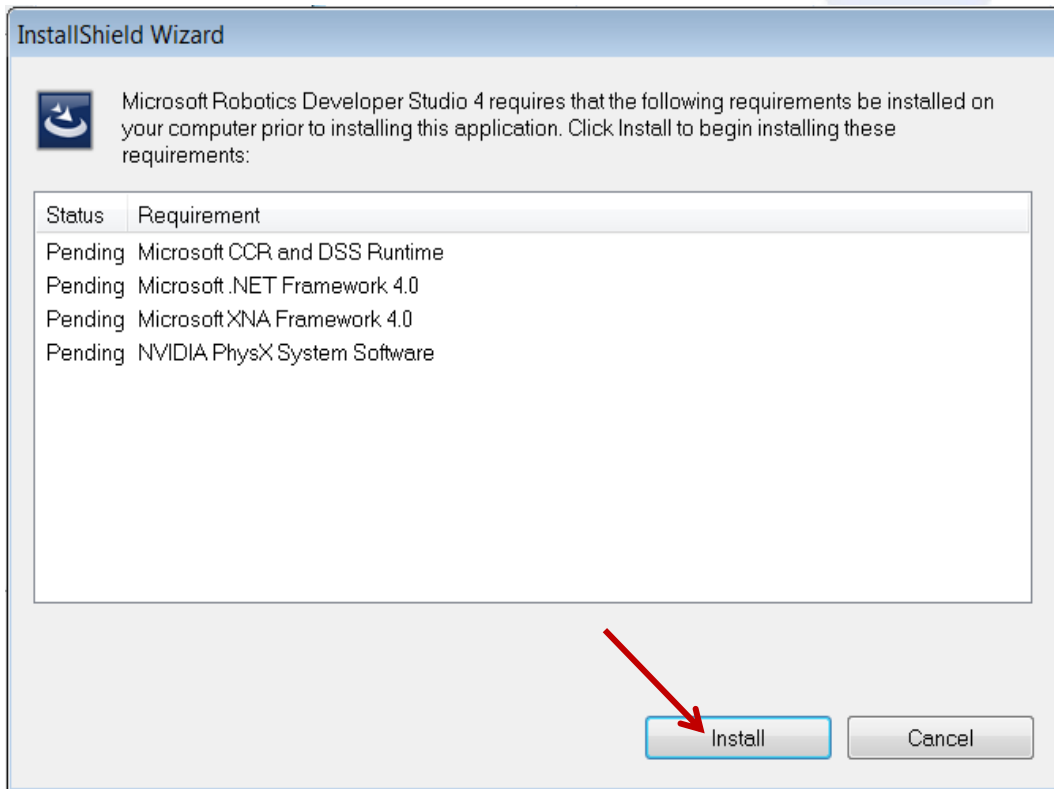


Fig. 1: MRDS R4 Installation

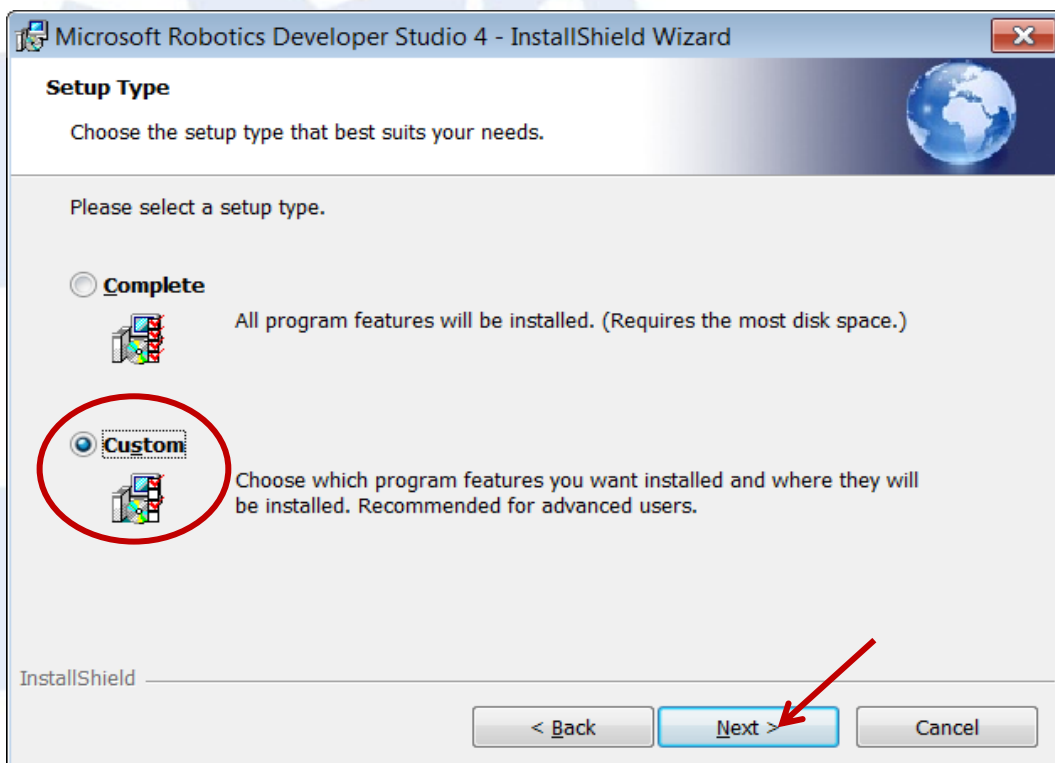


Fig. 2: Choose Custom installation

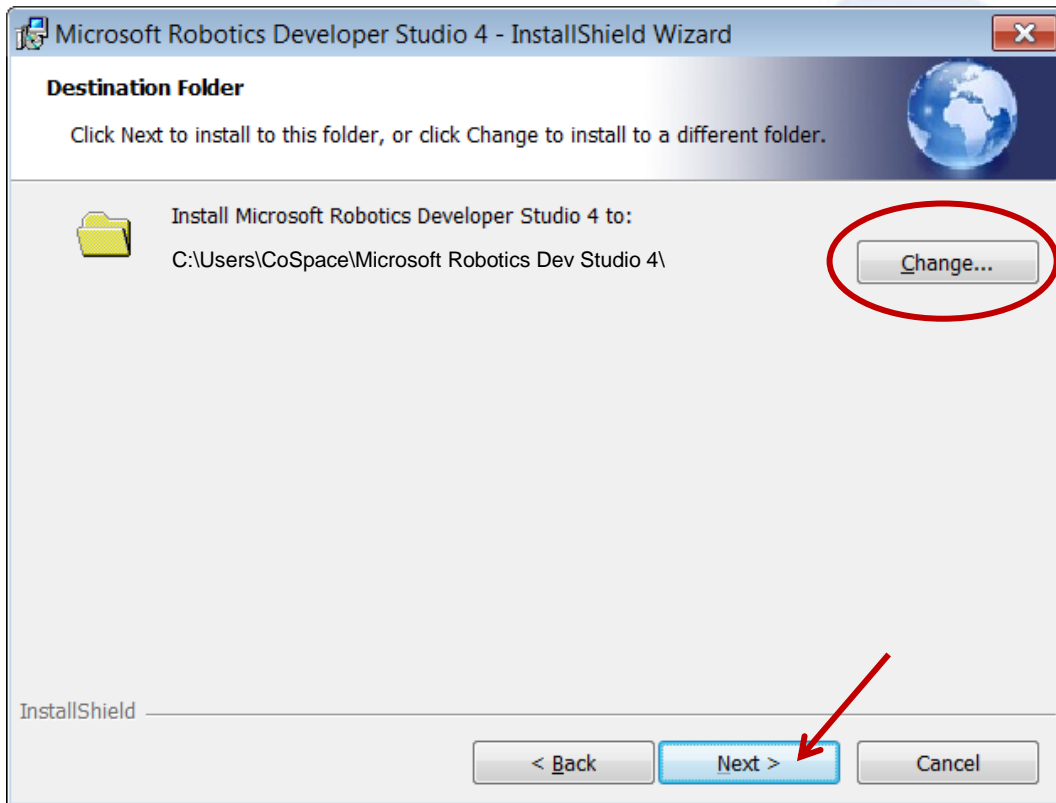


Fig. 3: Change installation directory

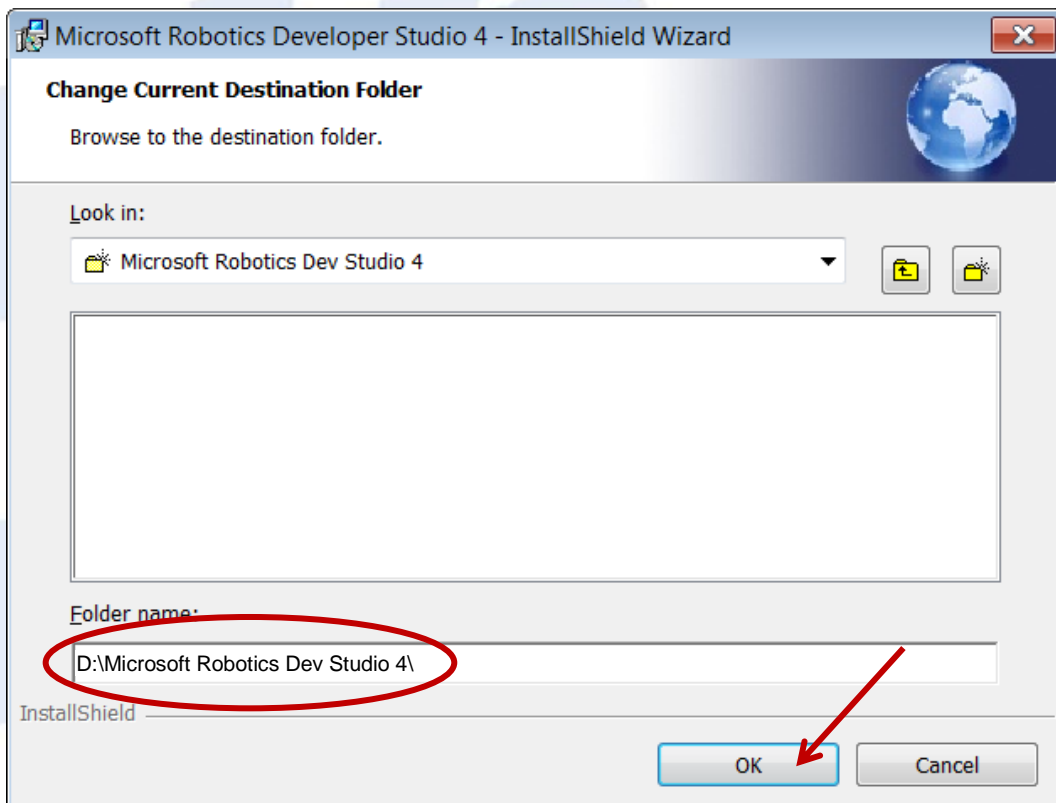


Fig. 4: Install the MRDS 4 in D:\

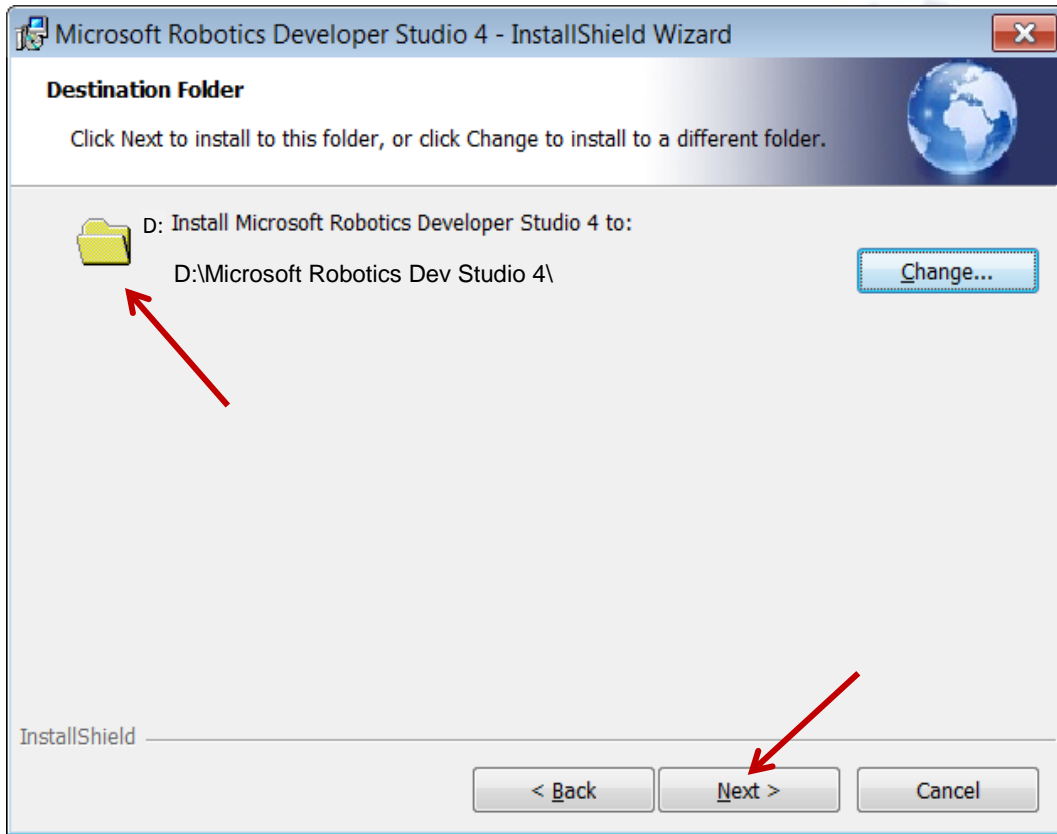


Fig. 5: Double confirm that the MRDS R4 will be installed in D:\

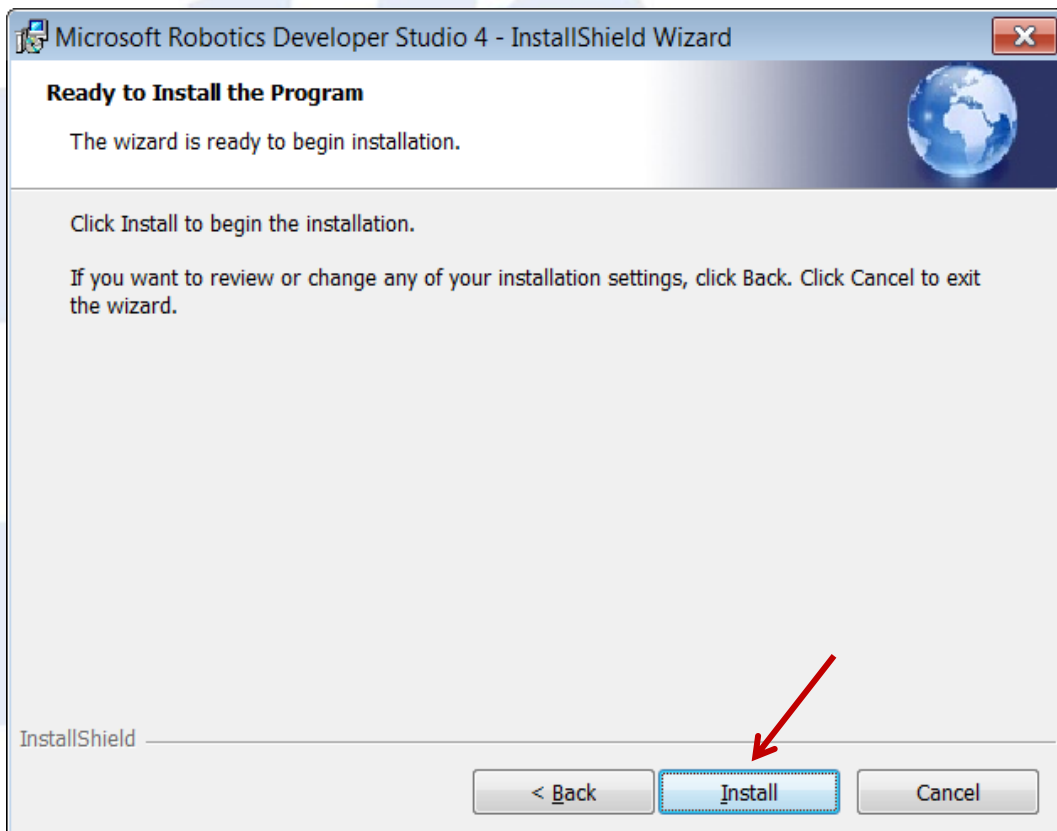


Fig. 6: Start installation

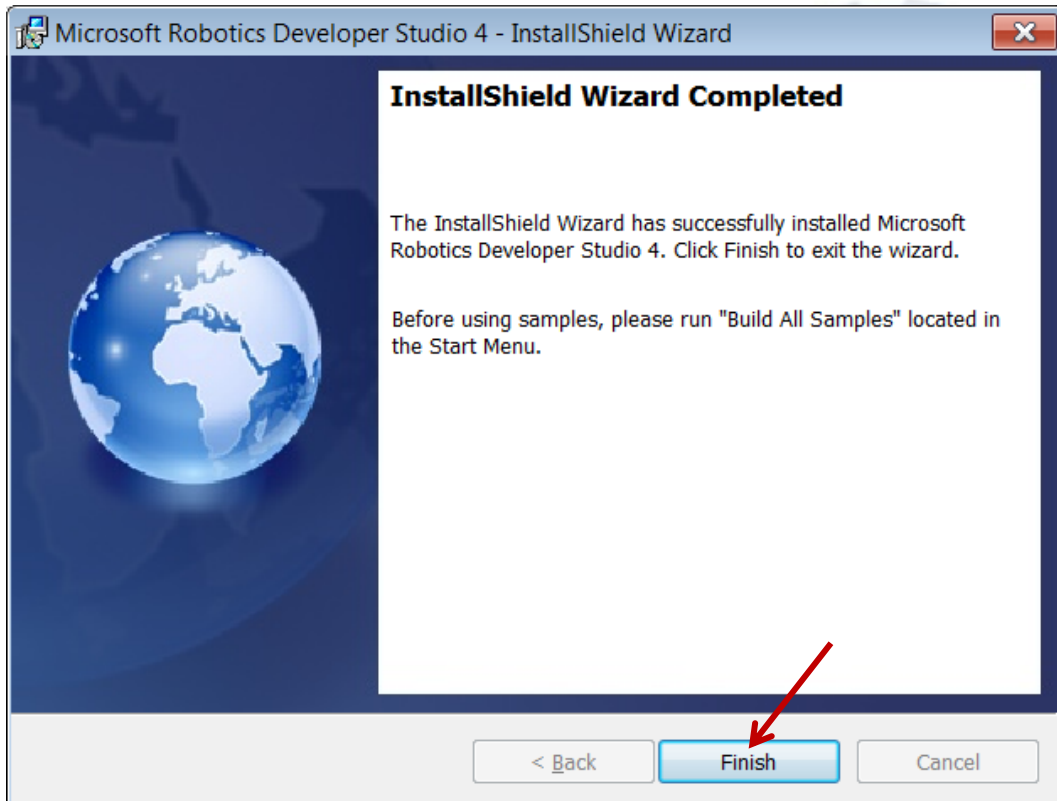


Fig. 7: Installation is completed

(b) Launch the 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 (Run as Administrator)

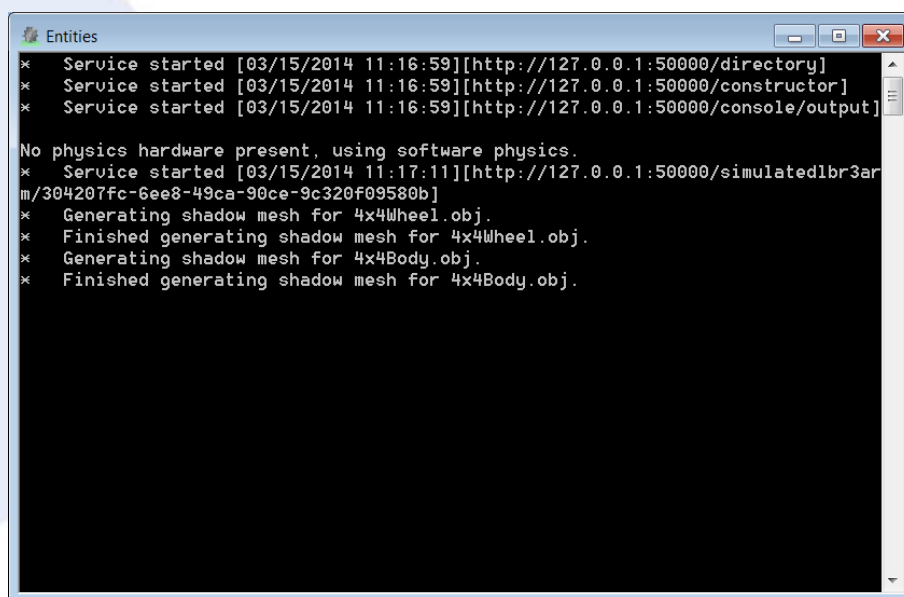












Fig. 8: Command window



Step 4: Install CoSpace Rescue Simulator

(a) Double click on the  CSR-Rescue2017-V17.03.09 (Example)

You will have the following files in the folder:

-  Data
-  CS.dat
-  CS.DocZip.17.00.dll
-  install.xml
-  Interop.IWshRuntimeLibrary.dll
-  Readme.txt
-  Setup.exe
-  store.dat
-  UZipDotNetState.xml

Right click on "Setup.exe" and "Run as Administrator"

(b) Make sure the CoSpace Rescue Simulator is installed under Microsoft Robotics Dev Studio 4 directory. In general, the system will auto detect the Microsoft Robotics Dev Studio 4 directory. If not, please manually select the respective directory.

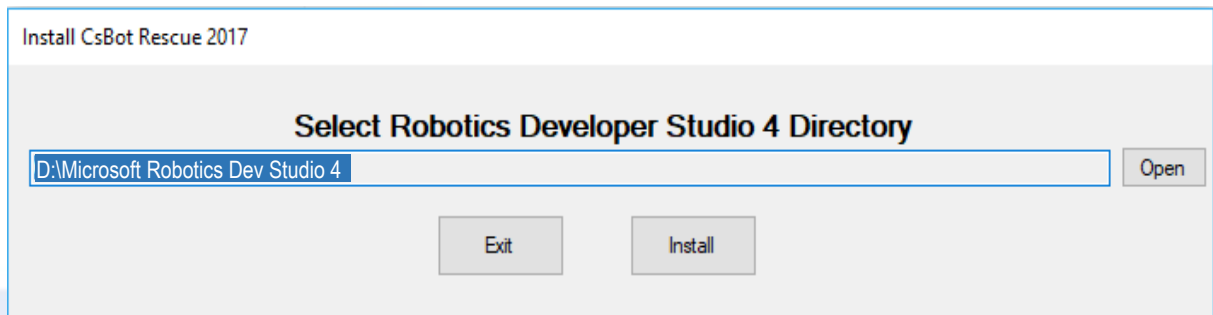


Fig. 10: CoSpace Rescue Simulator Installation

(c) Click on "Install" button to continue installation

(d) After installation, press function key "F5" to refresh the desktop.

You will see the icon  on desktop.



Step 5: Launch the CoSpace Simulator 2017 - Right click on “CoSpace Rescue Icon” on desktop and “Run as Administrator”

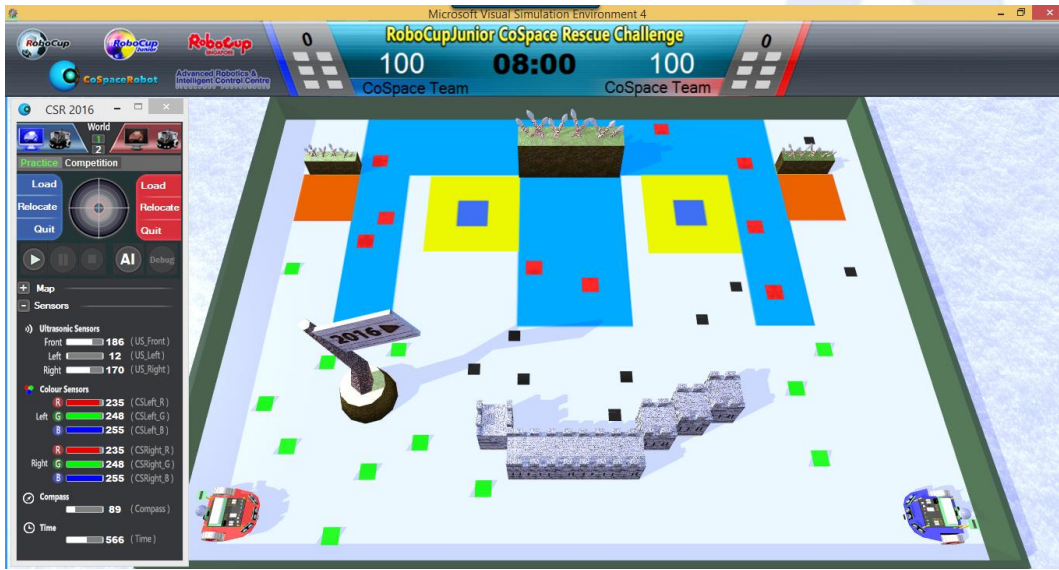


Fig. 11: CoSpace Robot Rescue Simulator

Note: If any error message has popped up at this stage, click on “OK” to continue and complete the installation.

3. CHECK COMMUNICATION PORT

Step 6: Right click on “CoSpace Rescue” icon and select Property.

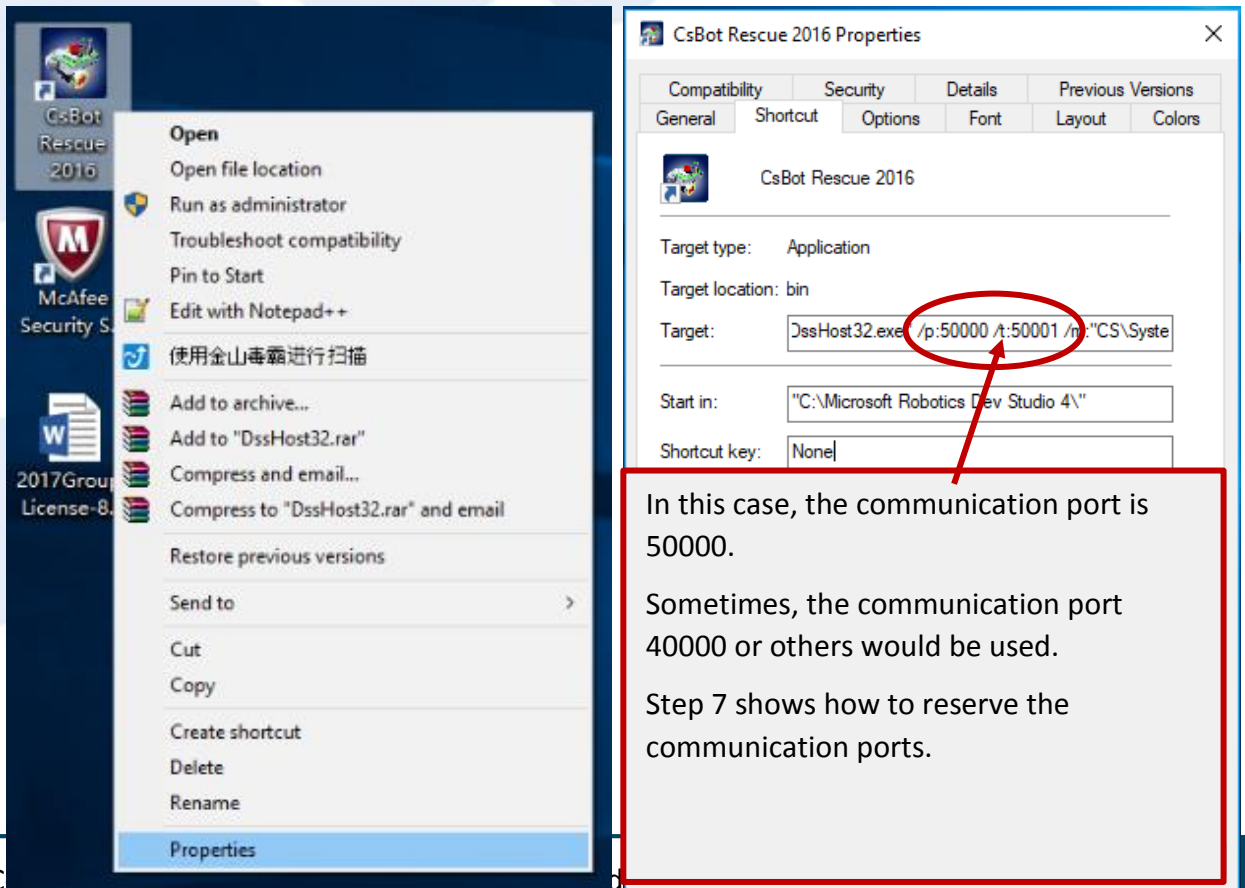


Fig. 12: CoSpace Robot Rescue Communication Port

4. RESERVE COMMUNICATION PORT

Step 7: Reserve the 2 ports 50000 and 40011 for CoSpace Simulator

(a) Launch “DSS Command Prompt”

Start → Microsoft Robotics Dev R4 →

Right click on “DSS Command Prompt” and “Run as administrator”

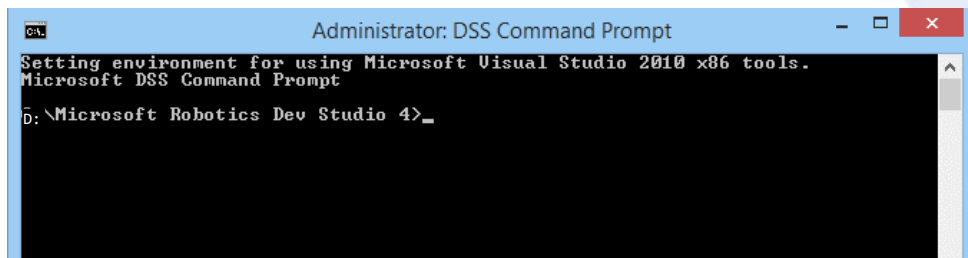


Fig. 13: DSS Command Prompt

(b) Type the following command

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

Diagram: A red arrow labeled 'space' points to the space between 'httpreserve' and '/Force' in the command above.

You will see the following reply

http://127.0.0.1:50000/ reserved.

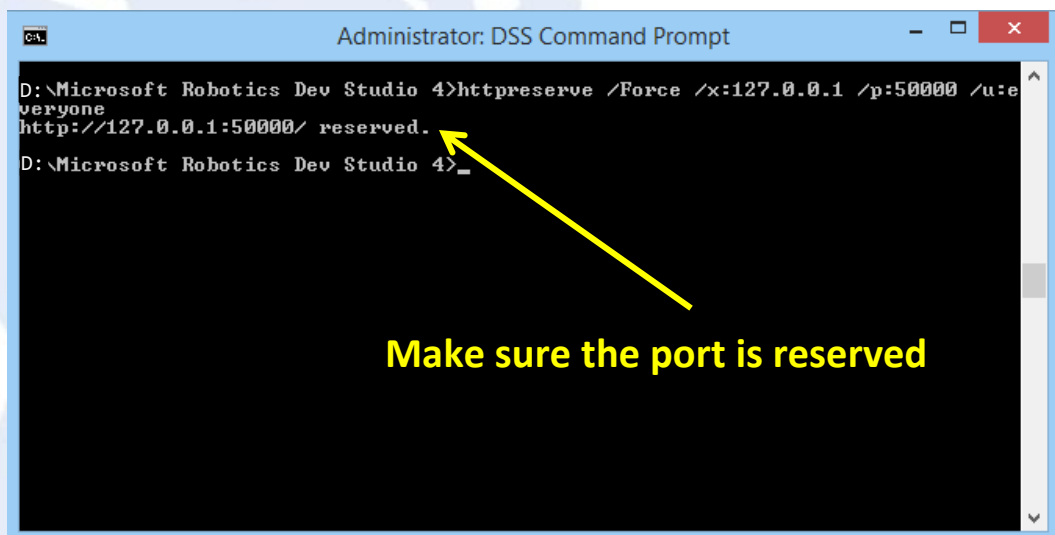


Fig. 14: Send httpreserve command

Do the same for port 40011

D:\Microsoft Robotics Dev Studio 4>httpreserve /Force /x:127.0.0.1 /p:40011 /u:everyone



5. ADD “COSAPCE RESCUE” SHORTCUT ON USER’S DESKTOP

Step 8: Add “CoSpace Robot Simulator Shortcut” on every user’s desktop

- (a) Copy the “CsBot Simulator 2017.lnk” shortcut located on the current desktop to the path ‘C:\ProgramData\Microsoft\Windows\Start Menu\Programs’
- (b) Copy the “CsBot Simulator 2017.lnk” short-cut located on the current desktop to the path “C:\Users\Public\Public Desktop”

This is to copy the CsBot Simulator shortcut to “start menu” and public desktop.

6. SERIAL CODE AND PLATFORM ACTIVATION

Step 9: Get the serial code: <http://cospacerobot.org/download/registration>. The serial code will be sent to you via email.

Step 10: Launch the CoSpace Robot Simulator and complete the registration. The CoSpace Robot Simulator is now activated.

Please note that you have to be connected to the Internet for the activation.

7. ADDITIONAL INFO FOR SSOE LAPTOP

Step 10: You may wish to hide the “Microsoft Robotics Dev Studio 4” folder. Only the system administrator can perform this action.

- To hide the “Microsoft Robotics Dev Studio 4” folder from D: drive.
Launch and Run as Administrator the “Command Prompt” and type in

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

- To unhide the “Microsoft Robotics Dev Studio 4” folder from D: drive.
Launch and Run as Administrator the “Command Prompt” and type in

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



```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>attrib +s +h "D:\Microsoft Robotics Dev Studio 4"
C:\Windows\system32>
```

Fig. 13: Hide the MRDS R4 on D:\

Step 12: Logout from TA account

8. LAUNCH COSPACE RESCUE SIMULATOR USING USER ACCOUNT

Step 13: Login with user account

Step 14: Double click on the CoSpace Robot Simulator shortcut on desktop to launch the CoSpace Simulator. If you are not able to see the shortcut on desktop, please go back to step 5.

If you encounter any problems during the installation, please refer to the FAQ. You can also contact us at support@CoSpaceRobot.org for technical assistance.