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

   ![Image of Run as different user dialog]

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

   ![Image of Windows Security dialog]

   \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:\

Install Microsoft Robotics Developer Studio 4 to:
C:\Users\CoSpace\Microsoft Robotics Dev Studio 4\

Folder name:
D:\Microsoft Robotics Dev Studio 4
Fig. 5: Double confirm that the MRDS R4 will be installed in D:\

Fig. 6: Start installation
(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)
You should see Fig. 9 displayed properly.

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

(c) Exit from MRDS R4

**2. COSPACE RESCUE SIMULATOR INSTALLATION**

Step 3: Download CoSpace Rescue Simulator

http://cospacerobot.org/download/cospace-rescue-download

You **HAVE TO UNZIP** the file before installation.

Please check whether there is a folder “CSR” in the \Microsoft Robotics Dev Studio 4\CS directory. If yes. Please delete the CSR directory and then proceed to step 4.
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.

![Select Robotics Developer Studio 4 Directory](image)

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”

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.

In this case, the communication port is 50000.
Sometimes, the communication port 40000 or others would be used.
Step 7 shows how to reserve the communication ports.
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”

(b) 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.

Do the same for port 40011

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

Make sure the port is reserved
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.Ink” shortcut located on the current desktop to the path ‘C:\ProgramData\Microsoft\Windows\Start Menu\Programs’

(b) Copy the “CsBot Simulator 2017.Ink” 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"`
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.