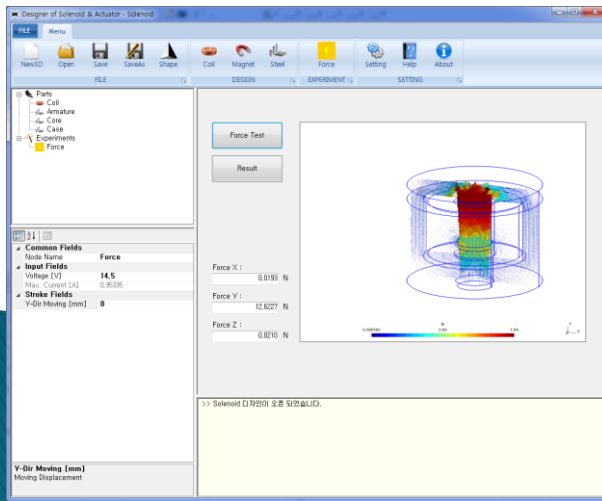


# DoSA-3D Installation Guide



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# First Installation vs. Update

Items	First Installation	Update
ONELAB	Download Installation (copy)	X
DoSA-3D installation	Download Installation (execute)	Download Installation (execute)
Preferences	DoSA-3D Preferences	X

**[There is no need to refer to this installation manual when updating.](#)**

The update is completed only by executing the DoSA-3D installation file.

# PC Recommended Specifications

- CPU : 4 Core and above
- RAM : 16GB and above



# ONELAB Installation

## ➤ ONELAB download

- <http://onelab.info/>
- Download the ONELAB archive file for Windows at the bottom of the page.

## Getting started

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### 1. Download the ONELAB software bundle:

- Desktop version for **Windows, Linux**, macOS (x86) or macOS (ARM) \*
- Mobile version for **Android** and **iOS**
- **Source code**

## ➤ ONELAB Installation

- Unzip the archive and copy it to a location of your choice.

# Download the DoSA-3D

## ➤ Download the DoSA-3D Installation file

- [https://solenoid.or.kr/index\\_dosa\\_open\\_3d\\_eng.html](https://solenoid.or.kr/index_dosa_open_3d_eng.html)

<b>File Download</b>	- DoSA-3D Installation File (First Installation) : <a href="#">DoSA-3D_Setup_v0.9.15.zip</a> - DoSA-3D Update File (Reinstallation) : <a href="#">DoSA-3D_Update_v0.9.15.zip</a>
<b>Installation Guide</b>	- Installation Guide Video : <a href="https://youtu.be/7CGu60M-r9Y">https://youtu.be/7CGu60M-r9Y</a> - Installation Guide File : <a href="#">DoSA-3D_Install_Guide_ENG.pdf</a>
<b>Usage Guide</b>	- Drawing work guide before simulation : <a href="#">Drawing_Guide_ENG.pdf</a> - Solenoid Example File : <a href="#">DoSA-3D_Solenoid_Sample_ENG.zip</a> - VCM Example File : <a href="#">DoSA-3D_VCM_Sample_ENG.zip</a>

- Download the DoSA-3D\_Setup\_v(x.x.x.x).zip and Unzip it.

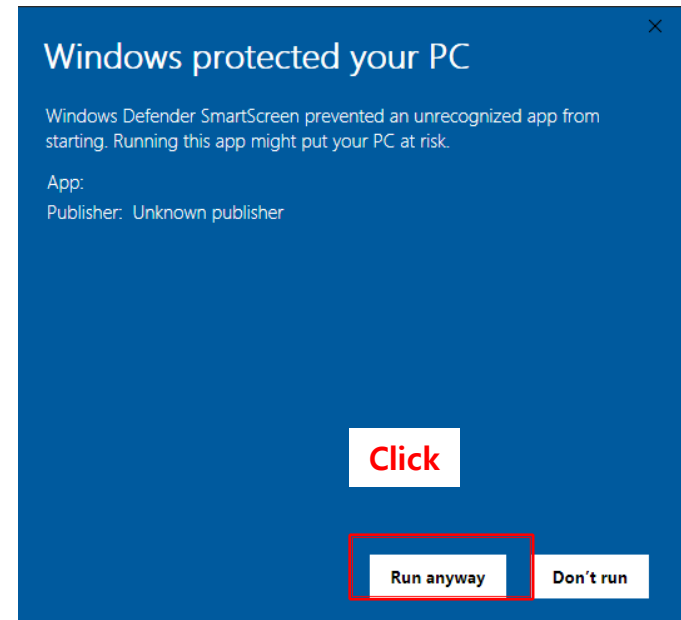
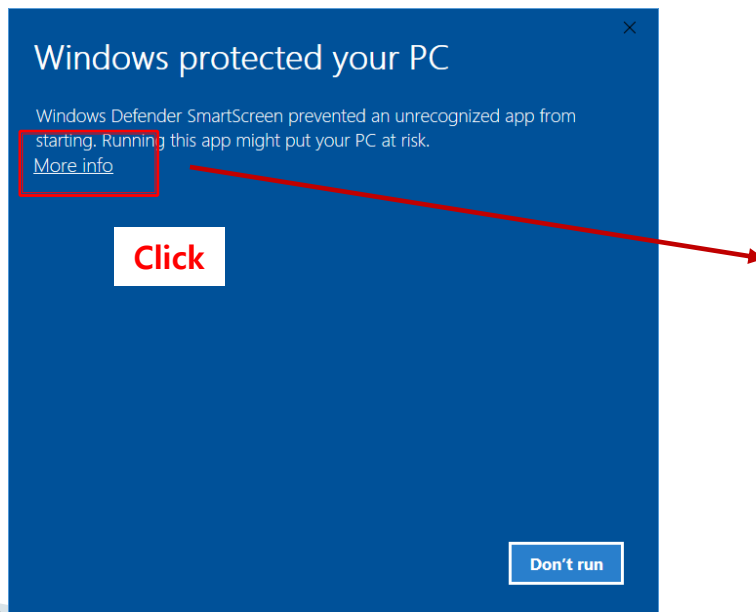
# Install the DoSA

## ➤ Install the DoSA-3D

- Start to install the DoSA-3D\_Setup\_v(x.x.x.x).exe.

## ➤ Problem of “windows protected your pc”

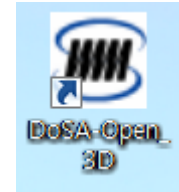
- Windows 10 has a protect function of a install file that don't have a digital signature. This screen appears because DoSA is not included due to the cost of digital signature.



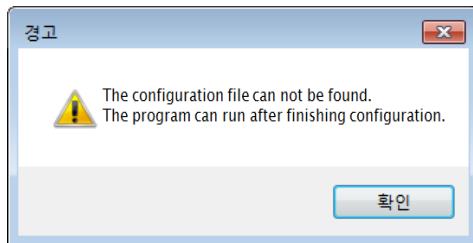
# Run the DoSA

## ➤ First Run

- Run DoSA-3D icon on desktop
- Proceeds differently depending on the notification window

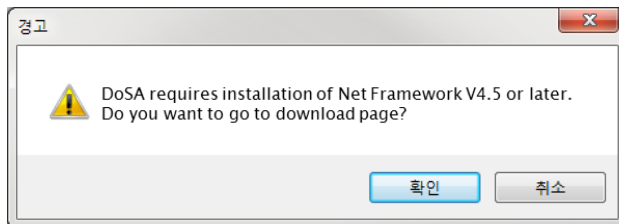


### Case 1



**Go to next page**

### Case 2

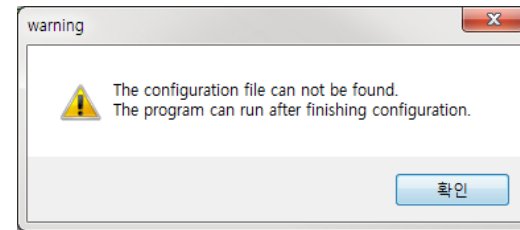


**Framework Version issues**  
**Go to Last page**  
**Of Net Framework Installation**

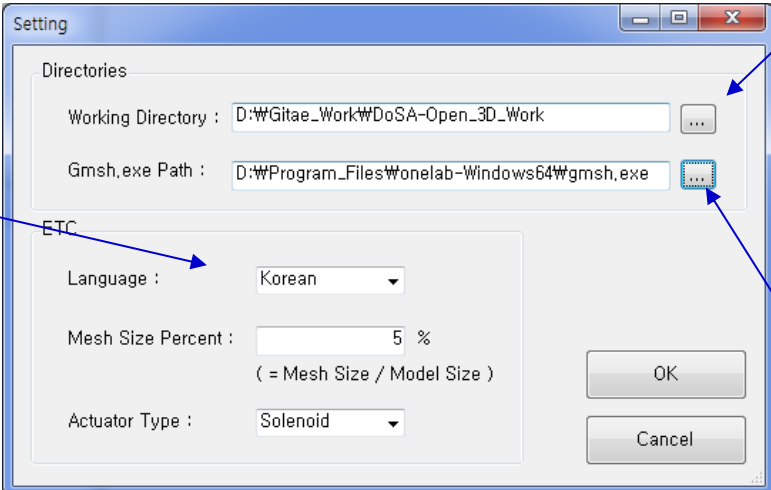
# DoSA Settings

## ➤ Program Setting

- In case of the first execution, the warning window on the right side appears.
- First, Create a DoSA working directory in the appropriate location.
- When you close the warning window, the following configuration window appears.



- In the Setting window, select the working directory and the Gmsh.exe path.



Setting

Directories

Working Directory : D:\Gitae\_Work\DoSA-Open\_3D\_Work

Gmsh.exe Path : D:\Program\_Files\tonelab-Windows64\gmsh.exe

ETC

Language : Korean

Mesh Size Percent : 5 %  
( = Mesh Size / Model Size )

Actuator Type : Solenoid

OK

Cancel

DoSA working directory

[ Caution ]

- C drive is not available  
(but C:\Users\Username directory is available)

Gmsh.exe Path

Language Selection



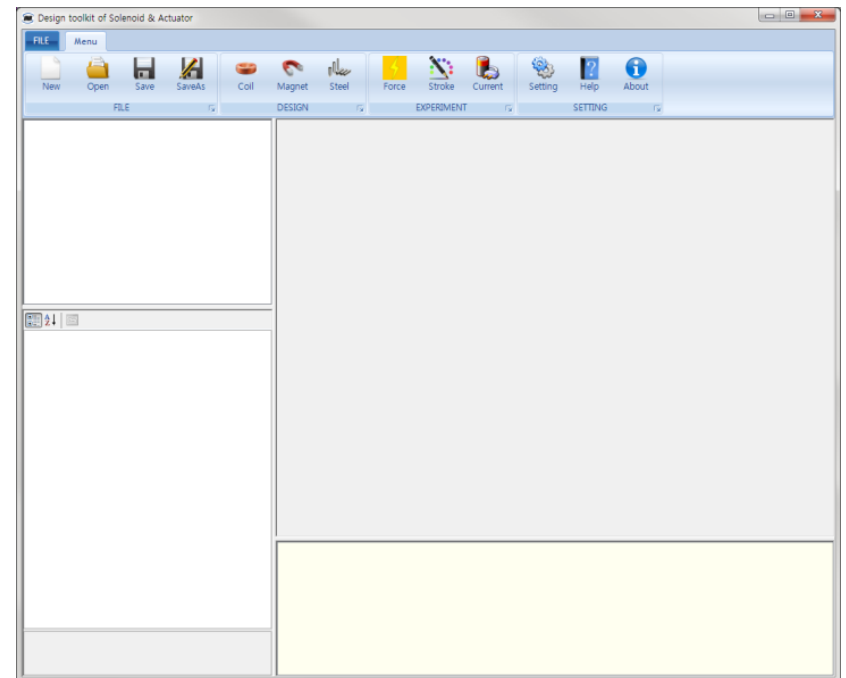
# Finish installation

## ➤ DoSA-3D installation complete

- When the following window appears after setting up, installation is complete.

## ➤ Install upgrades

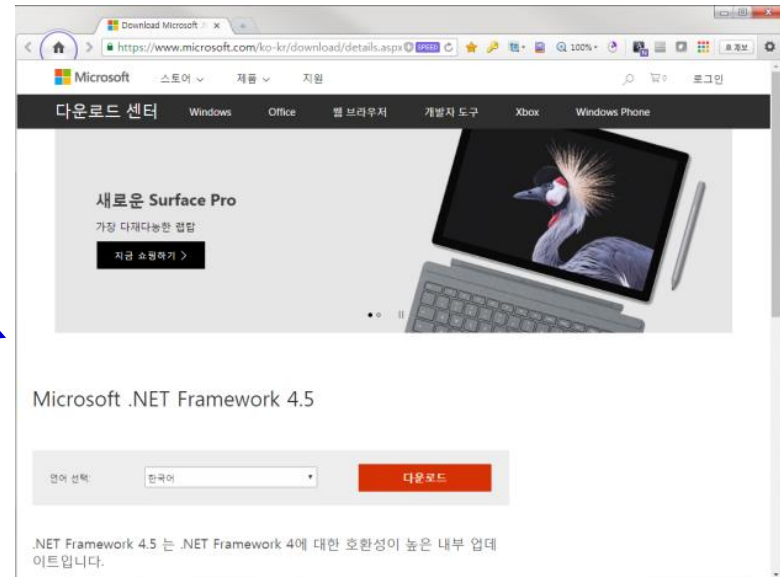
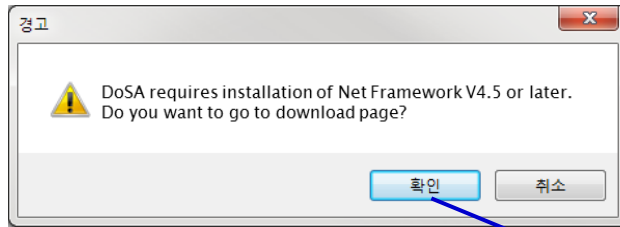
- No need to install ONELAB
- No configuration work required
- Just need to install DoSA-3D



# [ Ref. ] Net Framework installation

## ➤ Net Framework Install

- If Net Framework is not installed in the system, the alert window(shown below) appears.
- If you click Okay button, the download page of Net Framework 4.5 will appear.



## ➤ Net Framework Installation

- After download, install Net Framework.
- After installing Framework, reinstall the DoSA-3D again.

# Thank You

Email : [zgitae@gmail.com](mailto:zgitae@gmail.com)

Homepage : <http://openactuator.org>

