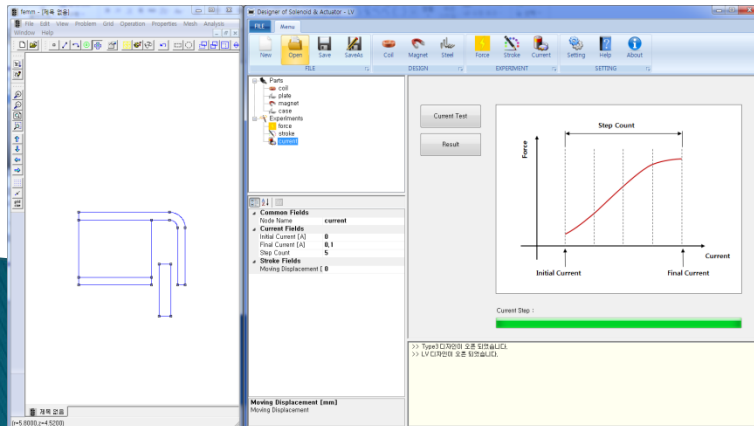


DoSA-2D Installation Guide



2023-11-13
zgitae@gmail.com

First Installation vs. Update

Items	First Installation	Update
FEMM	Download Installation (execute)	X
DoSA-2D installation	Download Installation (execute)	Download Installation (execute)
Preferences	FEMM Preferences DoSA-2D Preferences	X

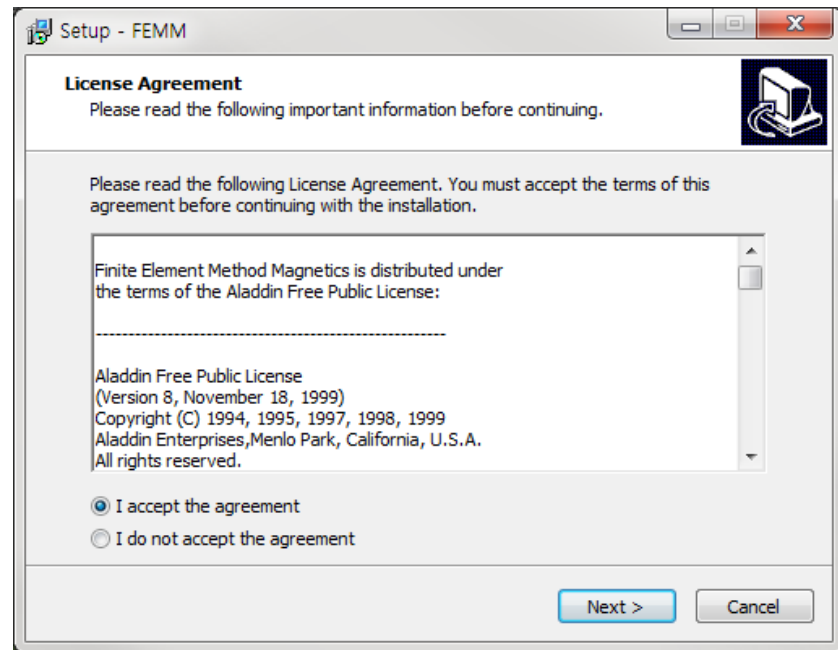
[There is no need to refer to this installation manual when updating.](#)

The update is completed only by executing the DoSA-2D installation file.

FEMM Installation

➤ FEMM download

- <https://www.femm.info/wiki/Download>
- Download and install the FEMM.



FEMM Setting

➤ FEMM Settings

- Open installed FEMM
- Open Installation Window : Main Menu > Edit > Preferences ...
- Exit FEMM after Setting is completes

[Magnetics Input]

FEMM Preferences

Magnetics Input | Magnetics Output | Electrostatics Input | Electrostatics Output | Heat Flow Input

Default Document Settings

Frequency: 0
Depth: 1
Precision: 1e-008
Min Angle: 30

Length Units: Millimeters
Coordinates: Cartesian
Problem Type: Axisymmetric
AC Solver: Succ. Approx

Default View Settings

Edit Action: Node
Pixels/Unit: 100
Grid Size: 0.25

Show Grid Show Origin
 Snap Grid
 Show Block Names

Colors: Selected

Modify Reset All

OK Cancel

- Length Units : Millimeters
- Problem Type : Axisymmetric
- Show Origin check

Download the DoSA-2D

➤ Download the DoSA-2D Installation files

- https://solenoid.or.kr/index_dosa_open_2d_eng.html

File Download	- DoSA-2D Installation File (First Installation) : DoSA-2D_Setup_v1.1.1.zip - DoSA-2D Update File (Reinstallation) : DoSA-2D_Update_v1.1.1.zip
Installation Guide	- Installation Guide Video : https://youtu.be/323tNuSe6DI - Installation Guide File : DoSA-2D_Install_Guide_ENG.pdf
Usage Guide	- Drawing work guide before simulation : Drawing_Guide_ENG.pdf - Solenoid Example File : DoSA-2D_Solenoid_Sample_ENG.zip - VCM Example File : DoSA-2D_VCM_Sample_ENG.zip

- Download the DoSA-2D_Setup_v(x.x.x.x).zip and Unzip it.

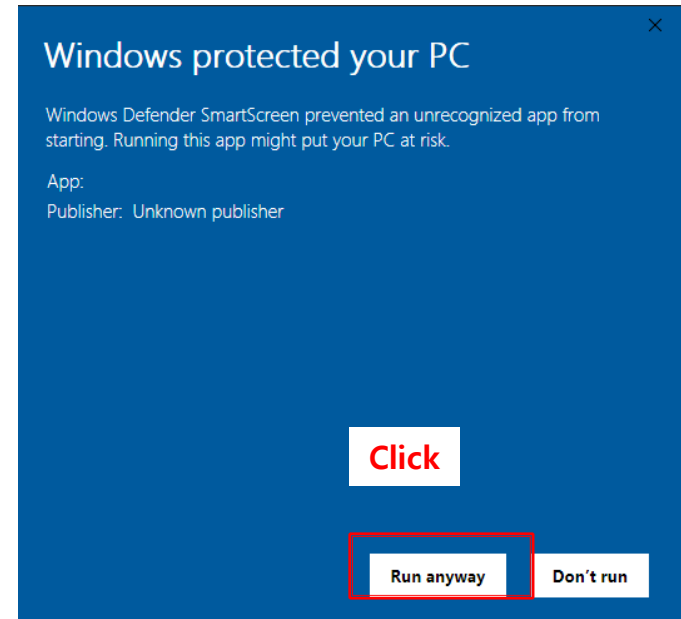
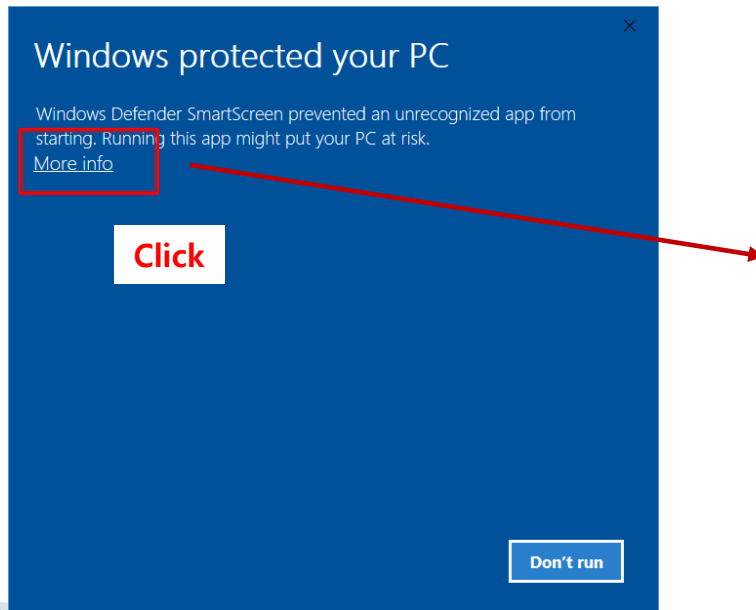
Install the DoSA

➤ Install the DoSA-2D

- Start to install the DoSA-2D_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.



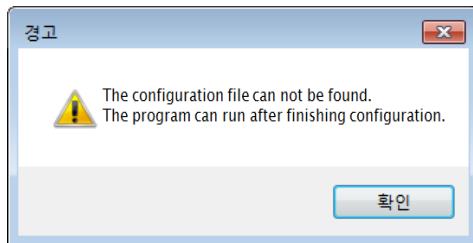
Run the DoSA

➤ First Run

- Run DoSA-2D icon on desktop
- Proceeds differently depending on the notification window

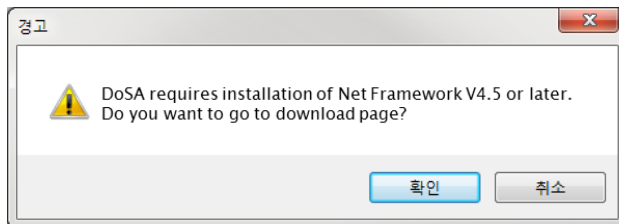


Case 1



Go to next page

Case 2



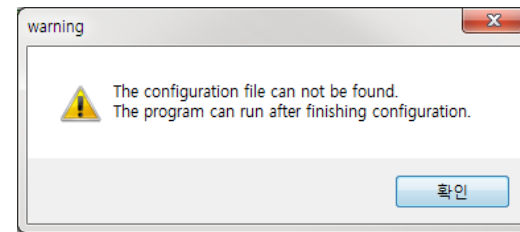
Version issues

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

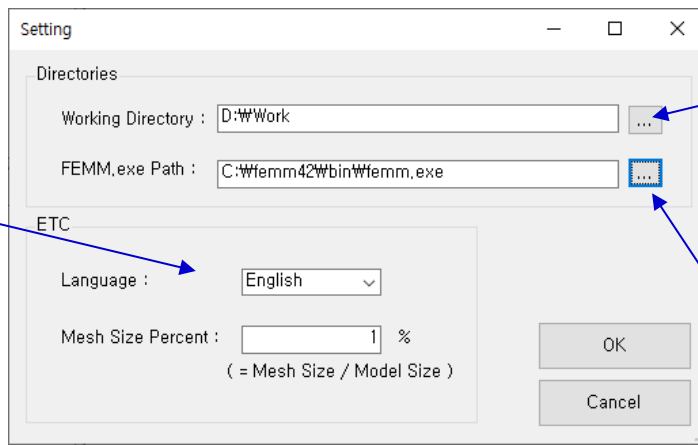
DoSA Settings

➤ 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 FEMM.exe path.



Language Selection

DoSA working directory

[Caution]

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

FEMM.exe Path

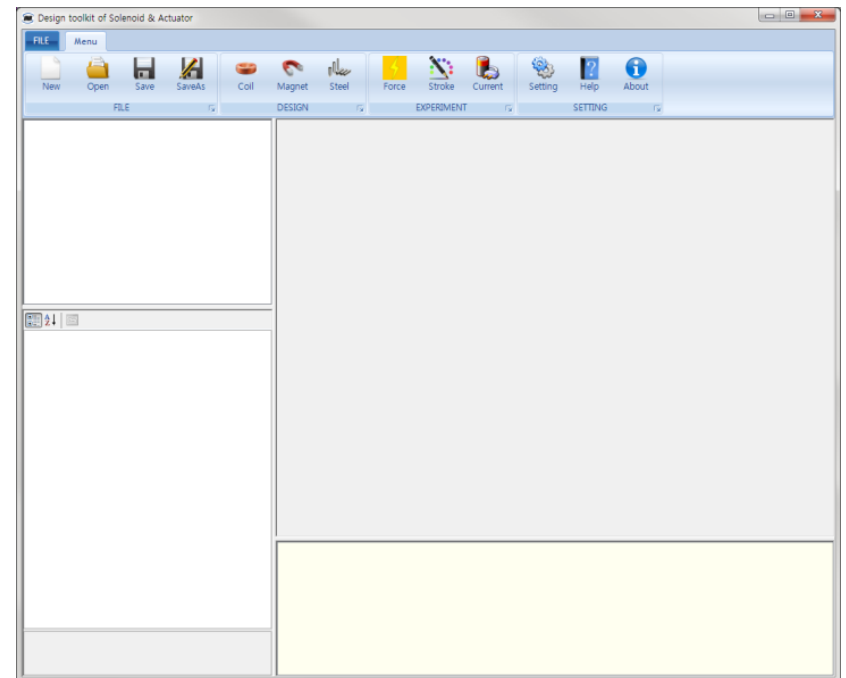
Finish installation

➤ DoSA-2D installation complete

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

➤ Install upgrades

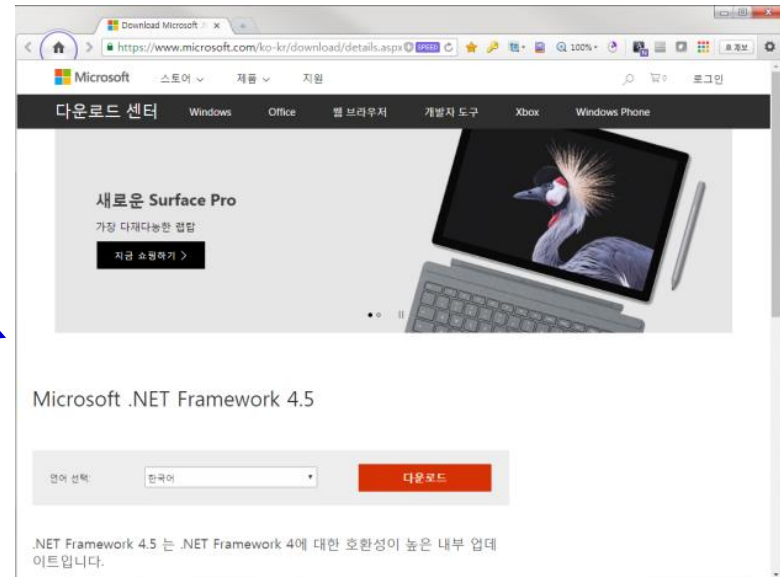
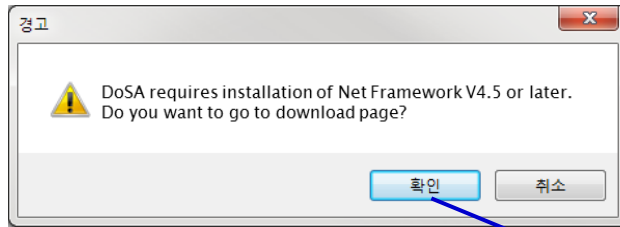
- No need to install ONELAB
- No configuration work required
- Just need to install DoSA-2D



[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-2D again.

감사합니다

Email : zgitae@gmail.com

Homepage : <http://openactuator.org>

