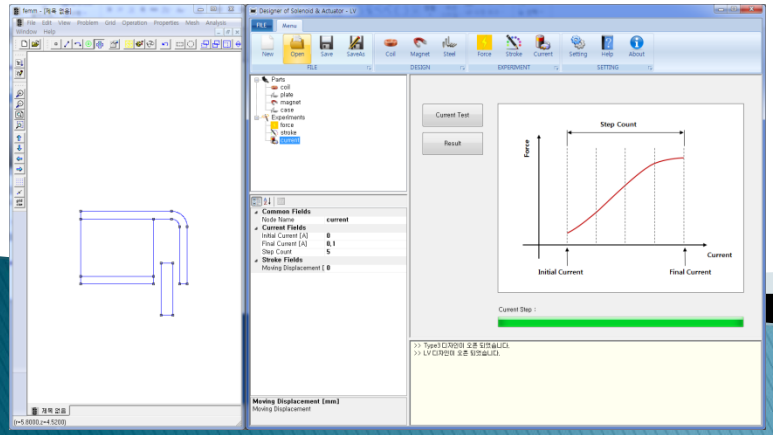
DoSA-2D Install Guide



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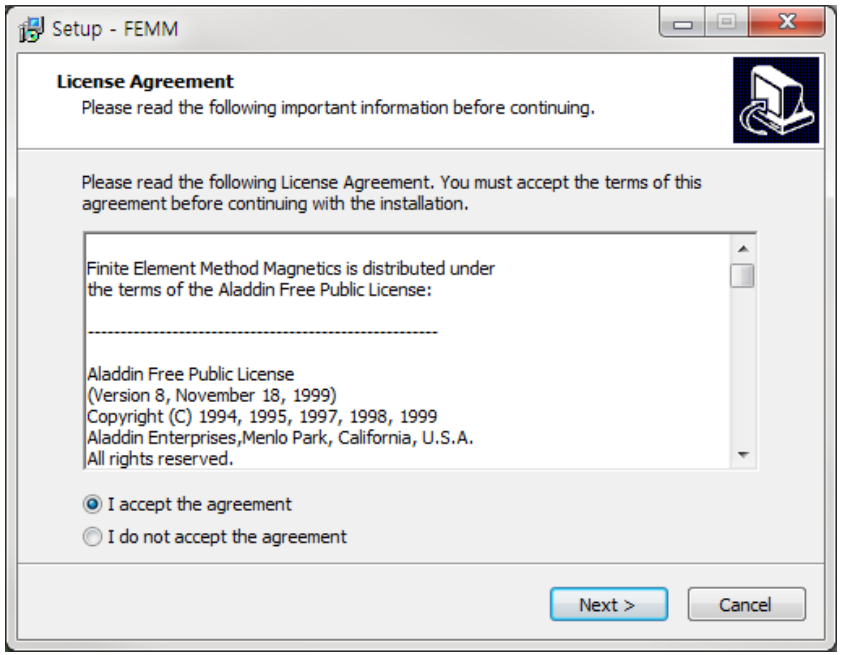
FEMM Installation

- **FEMM download**

  - https://www.femm.info/wiki/Download

  - Download and install the FEMM.

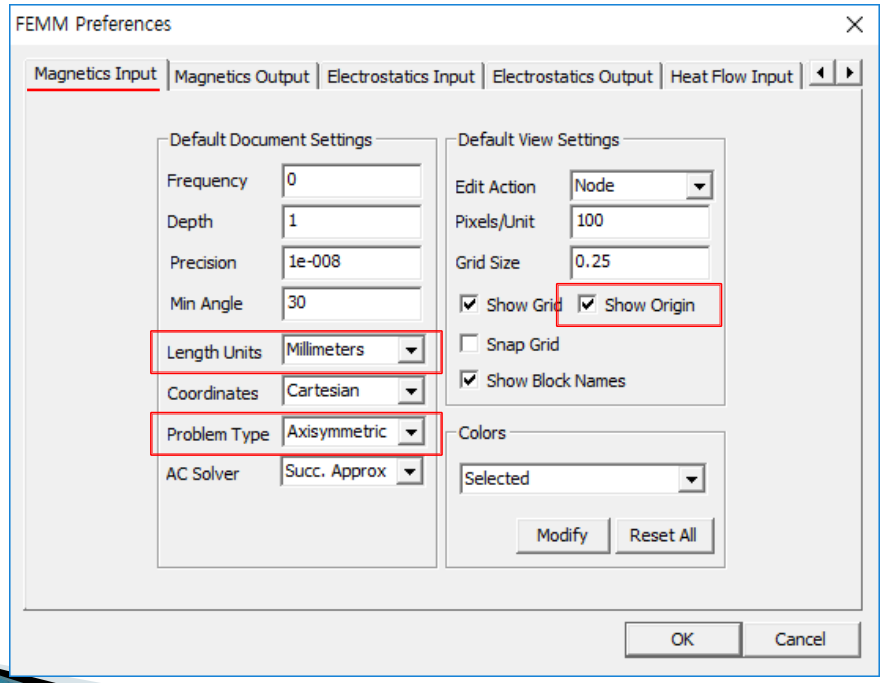


FEMM Setting

➢ FEMM Settings

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

[Magnetics Input]



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

Download the DoSA

➢ **Download the DoSA-2D Installation files**

- https://OpenActuator.org → OpenCAE → DoSA-2D Link

Project Name	DoSA-Open_2D (Designer of Solenoids & Actuators)
Project Leader	GiTae Kweon (zgitae@gmail.com)
GitHub	https://github.com/OpenActuator/DoSA-Open_2D
Bulletin Board	https://solenoid.or.kr/gtzero1/gt_zboard.php?id=dosa_open_eng
Donation	DoSA-Open Project Donation
File Download	- DoSA-Open_2D Installation File : DoSA-Open_2D_Setup_ver(0.9.11.0).zip - Installation Guide : Install_Guide_ENG.pdf - Solenoid Example File : Solenoid_Sample_ENG.pdf - VCM Example File : VCM_Sample_ENG.pdf
Introduction	2D Open source actuator simulation software that can predict the performance of actuators in a similar working environment to the development of actuators

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

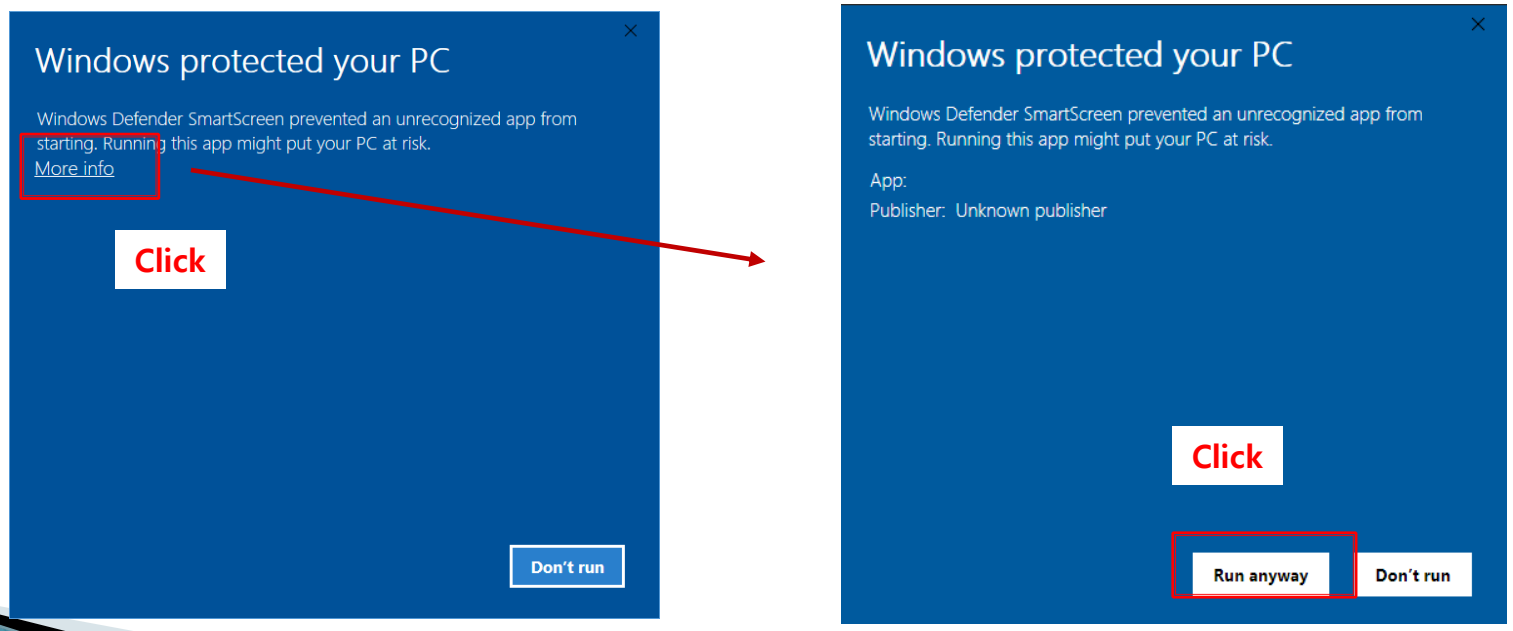
Install the DoSA

➢ Install the DoSA-2D

- Start to install the DoSA-2D_Setup_ver(x.x.x.x).exe.

➢ Problem of “windows protected your pc”

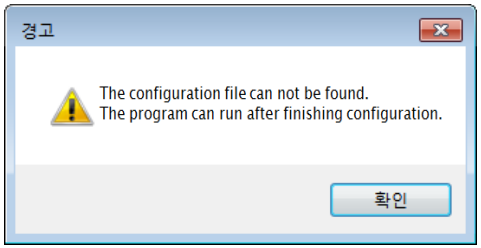
- Windows 10 has a protect function of a install file that don’t have a digital signature. This screen appears because DoSA is not included due to the cost of digital signature.



Run the DoSA

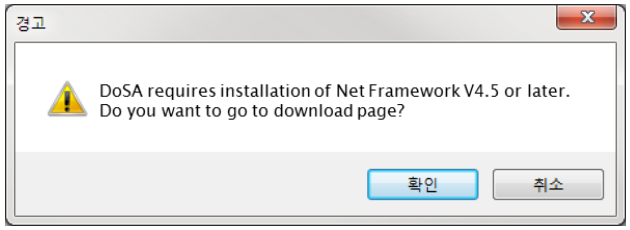
- **First Run**
  - Run DoSA-2D icon on desktop
  - Proceeds differently depending on the notification window

Case 1



→ **Go to next page**

Case 2



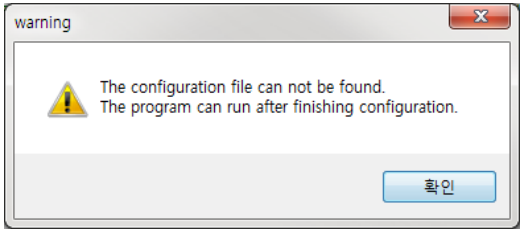
→ **Version issues**

Go to Last page
Of Net Framework Installation

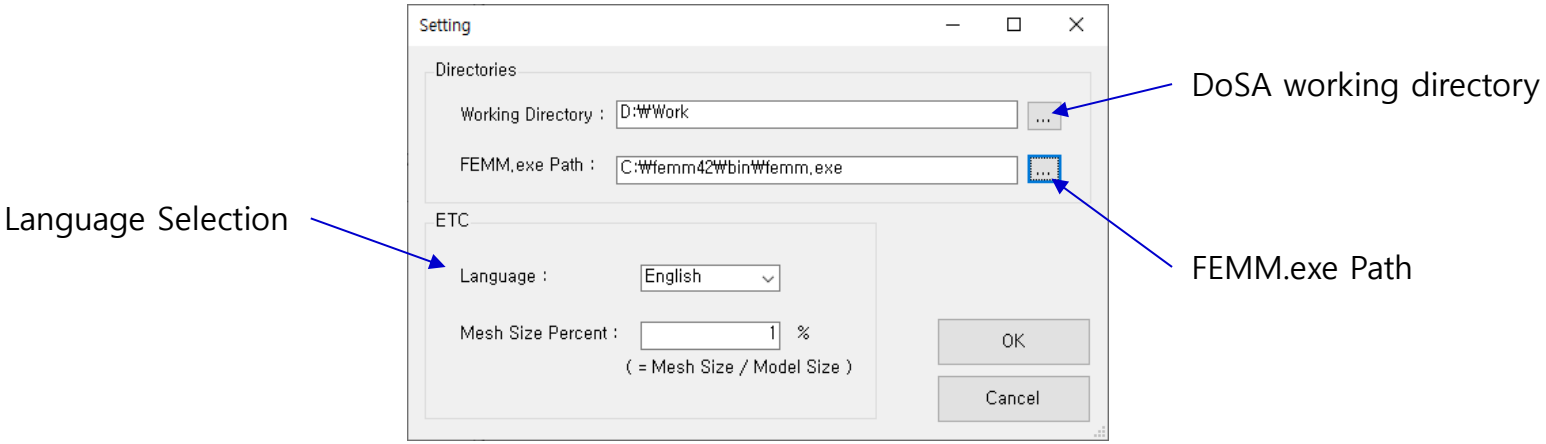
DoSA Settings

➢ 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.

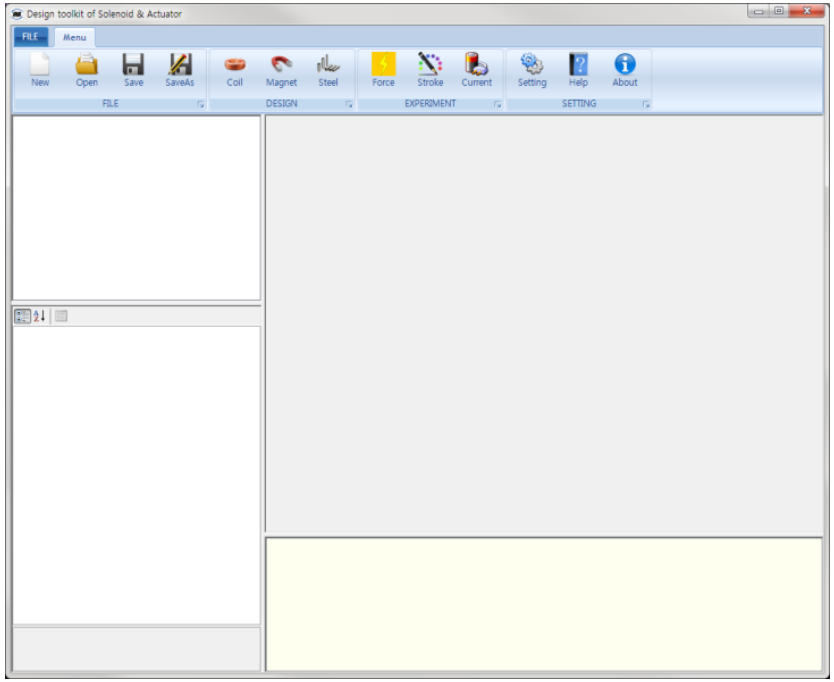


- In the Setting window, select the working directory and the FEMM.exe path.



Finish installation

- **DoSA-2D installation complete**
  - When the following window appears after setting up, installation is complete.

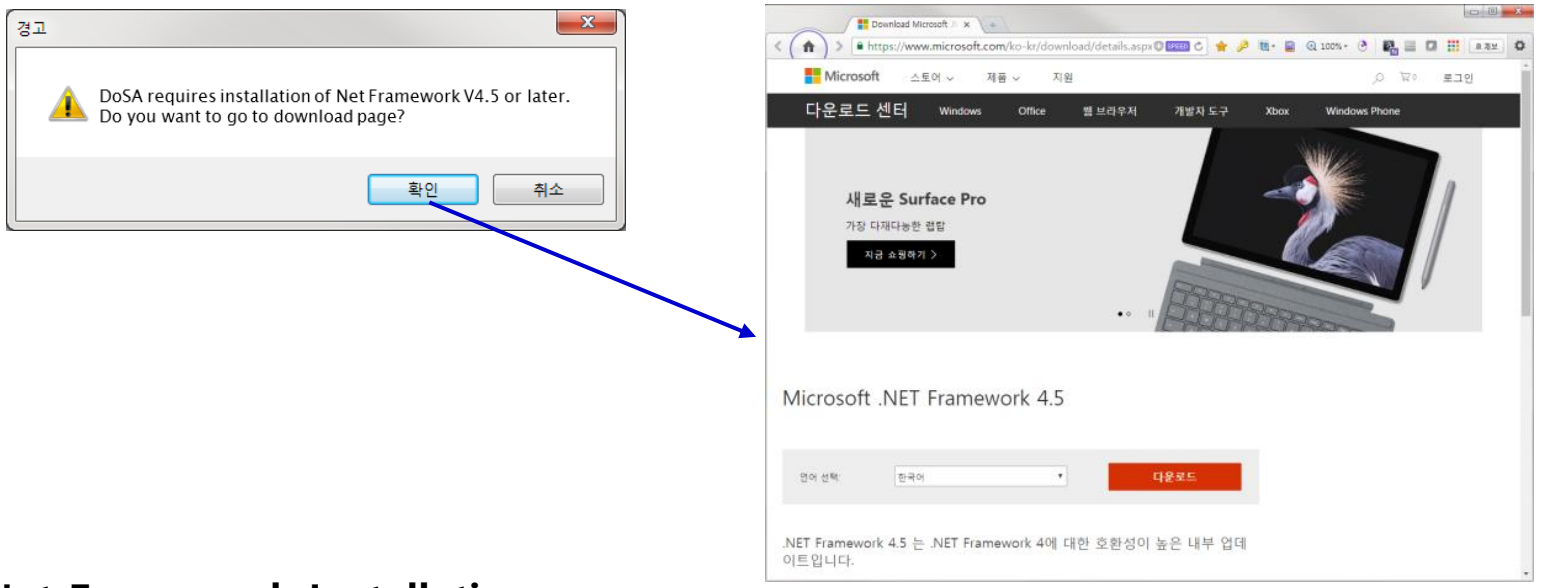


- **Install upgrades**
  - No need to install ONELAB
  - No configuration work required
  - Just need to install DoSA-2D

[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

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Homepage : http://openactuator.org