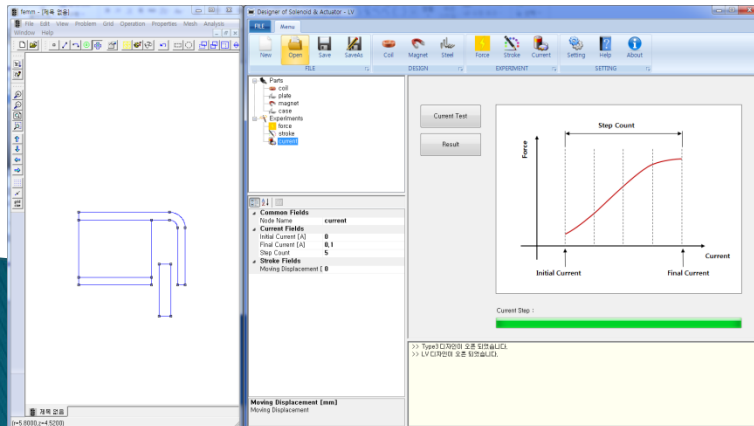


DoSA-2D Install Guide

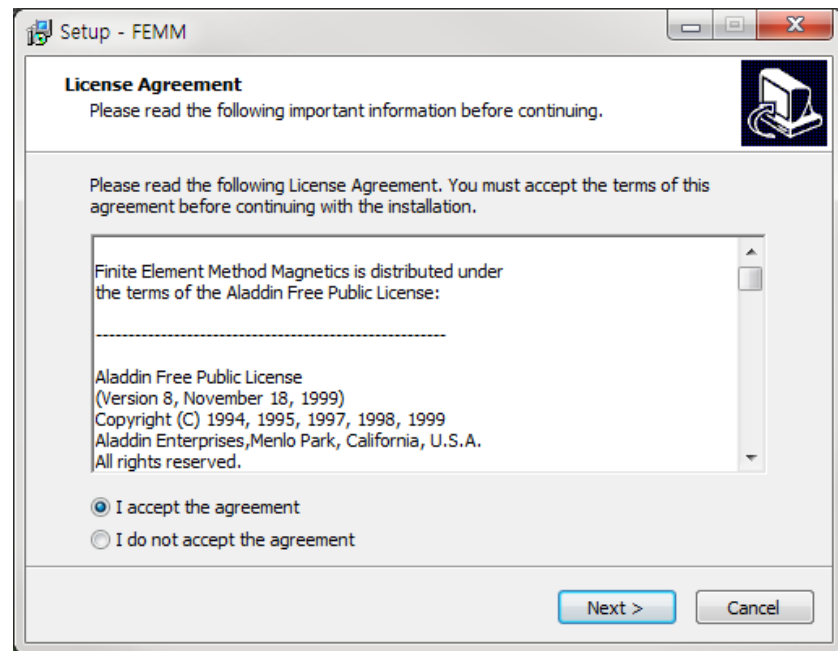


2022-03-06
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FEMM Installation

➤ FEMM download

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

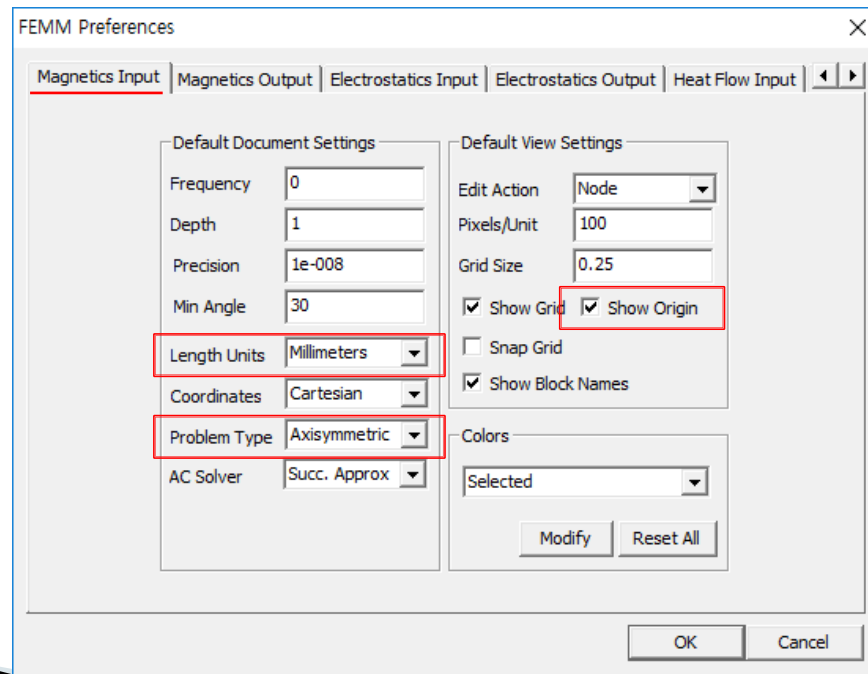


FEMM Setting

➤ FEMM Settings

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

[Magnetics Input]



The screenshot shows the 'FEMM Preferences' dialog box with the 'Magnetics Input' tab selected. The dialog is divided into two main sections: 'Default Document Settings' and 'Default View Settings'. In the 'Default Document Settings' section, the 'Length Units' dropdown is set to 'Millimeters' and the 'Problem Type' dropdown is set to 'Axisymmetric'. In the 'Default View Settings' section, the 'Show Origin' checkbox is checked. The 'AC Solver' is set to 'Succ. Approx'. The 'OK' and 'Cancel' buttons are at the bottom right.

Section	Parameter	Value
Default Document Settings	Frequency	0
	Depth	1
	Precision	1e-008
	Min Angle	30
	Length Units	Millimeters
Default Document Settings	Coordinates	Cartesian
	Problem Type	Axisymmetric
Default Document Settings	AC Solver	Succ. Approx
Default View Settings	Edit Action	Node
	Pixels/Unit	100
	Grid Size	0.25
	Show Grid	<input checked="" type="checkbox"/>
	Show Origin	<input checked="" type="checkbox"/>
Default View Settings	Snap Grid	<input type="checkbox"/>
	Show Block Names	<input checked="" type="checkbox"/>
Colors	Selected	Selected
Modify Reset All		
OK Cancel		

- 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	<div>- 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</div>
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.

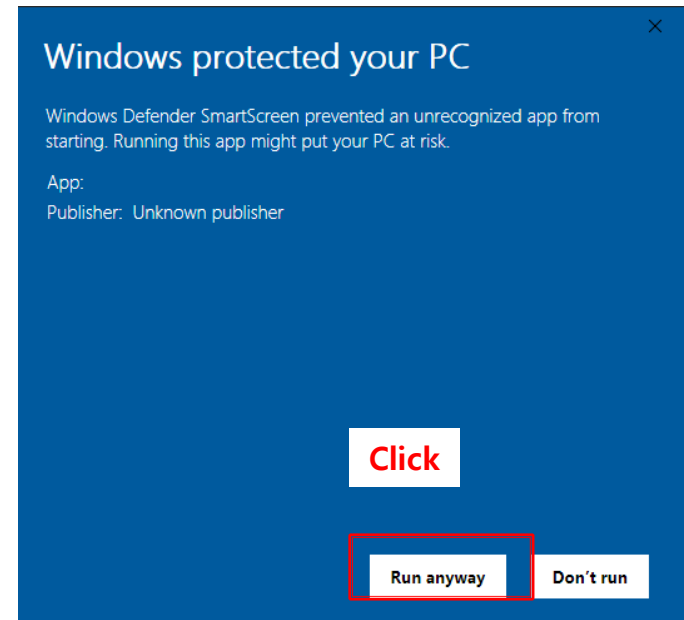
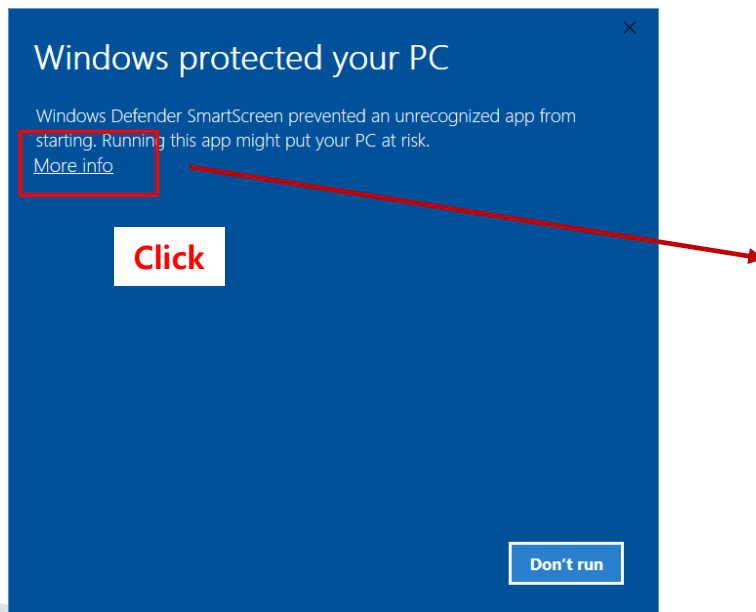
Install the DoSA

➤ 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.



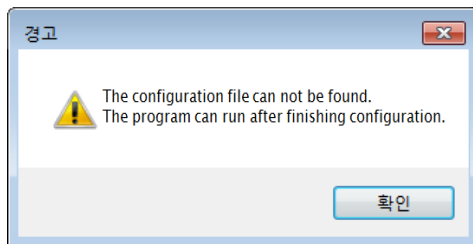
Run the DoSA

➤ First Run

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

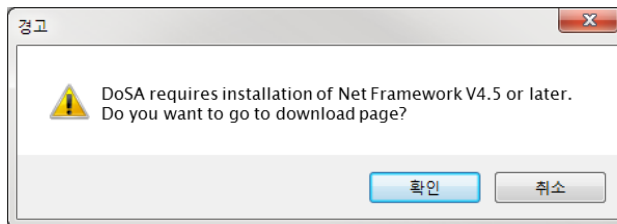


Case 1



Go to next page

Case 2



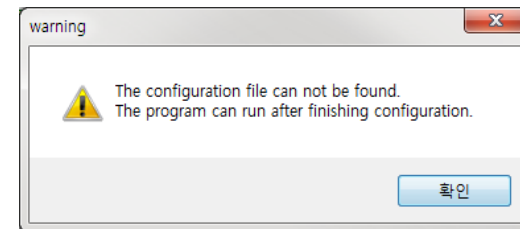
Version issues

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

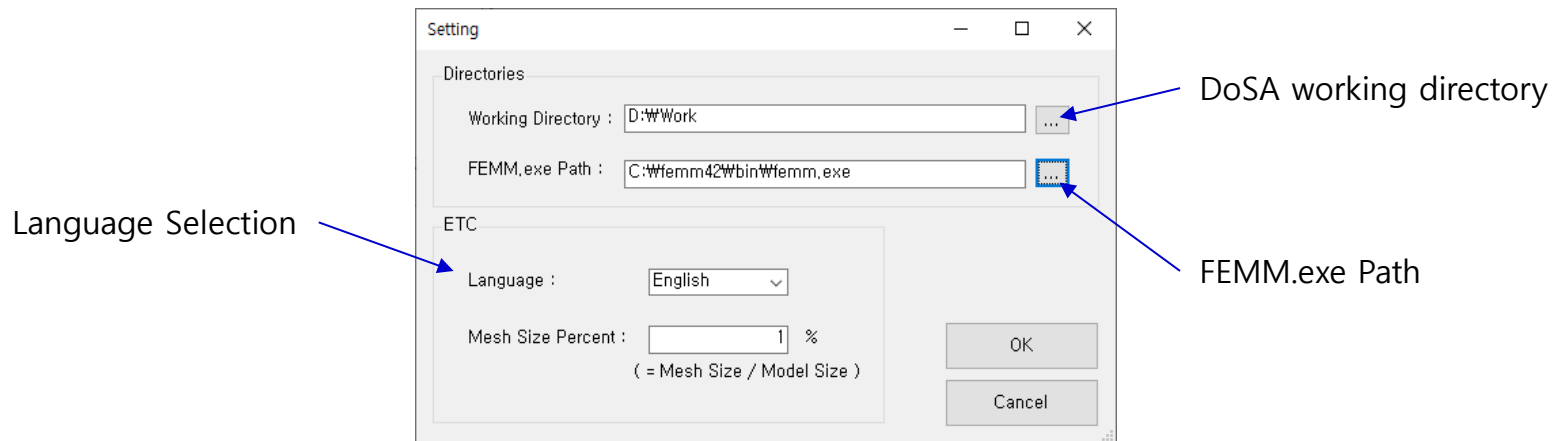
DoSA Settings

➤ 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.



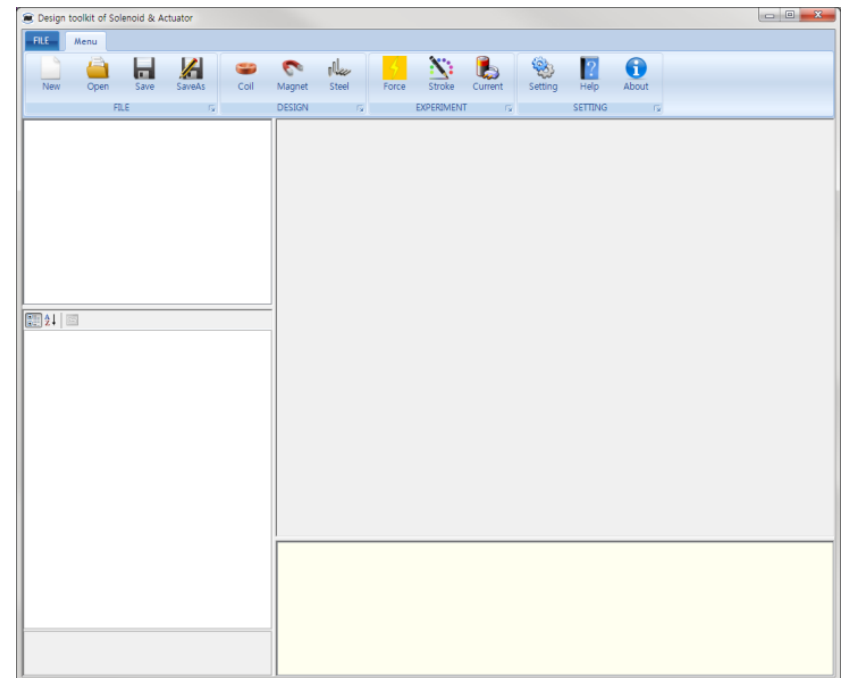
Finish installation

➤ DoSA-2D installation complete

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

➤ Install upgrades

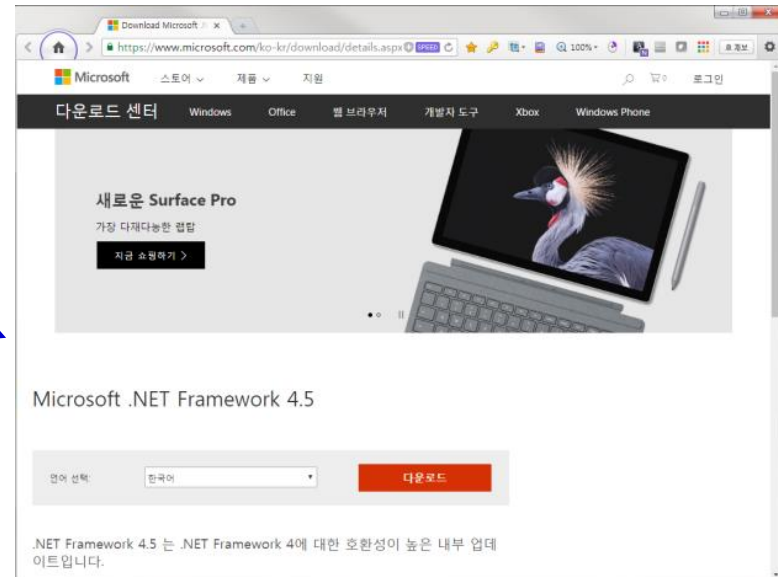
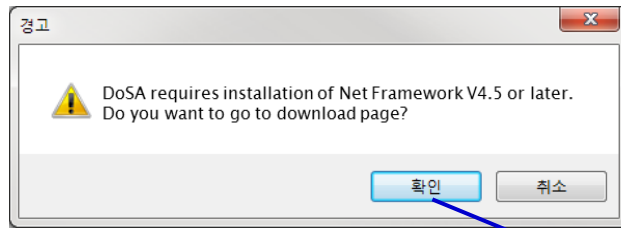
- No need to install ONELAB
- No configuration work required
- Just need to install DoSA-2D



[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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