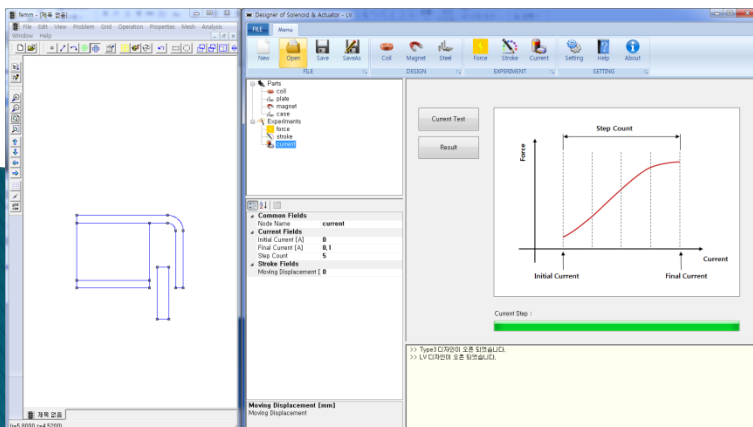


DoSA Install Guide

2019-11-09

GiTae Kweon (zgitae@gmail.com)



FEMM Installation

➤ FEMM download

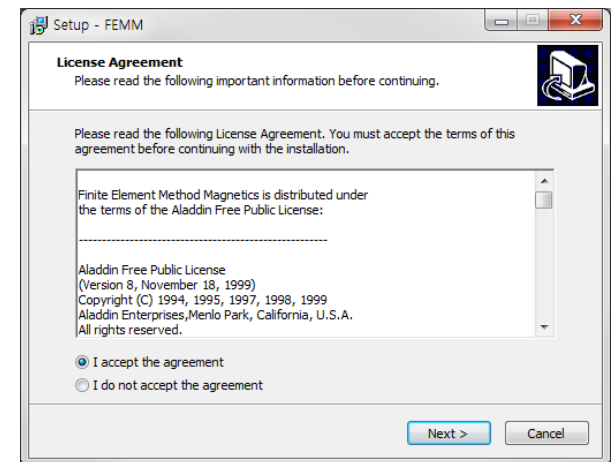
- <http://www.femm.info/wiki/OldVersions>
- Download and install the **FEMM 4.2 25Feb2018** version.

Old Versions

- FEMM 4.2 25Feb2018 Win32 Self-Installing Executable (ReadMe)
- FEMM 4.2 25Feb2018 x64 Self-Installing Executable (ReadMe)
- FEMM 4.2 25Feb2018 Source Distribution (ReadMe)
- FEMM 4.2 12Jan2016 Win32 Self-Installing Executable (ReadMe)
- FEMM 4.2 12Jan2016 x64 Self-Installing Executable (ReadMe)
- FEMM 4.2 12Jan2016 Source Distribution (ReadMe)
- FEMM 4.2 01Nov2015 Win32 Self-Installing Executable (ReadMe)

➤ FEMM Installation

- The installation is performed by default.



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', the 'Coordinates' dropdown is set to 'Cartesian', and the 'Problem Type' dropdown is set to 'Axisymmetric'. In the 'Default View Settings' section, the 'Show Grid' and 'Show Origin' checkboxes are both checked. The 'AC Solver' dropdown is set to 'Succ. Approx'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

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

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

Run the DoSA

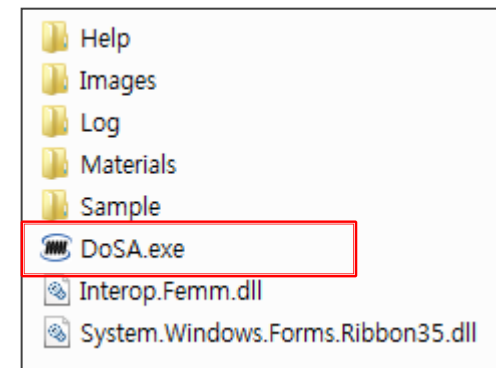
➤ Downloading and unzipping DoSA file

- http://solenoid.or.kr/openactuator/dosa_open_eng.htm

Summary	
Project Name	DoSA-Open (Designer of Solenoids & Actuators)
Project Leader	GiTae Kweon (zgitaeg@gmail.com)
GitHub	https://github.com/OpenActuator/DoSA-Open_2D
Bulletin Board	https://solenoid.or.kr/gtzero1/gt_zboard.php?id=dosa_open_eng
File Download	DoSA-Open Exe Files (Ver 0.9.6) DoSA-Open Installation Help
Introduction	Open source actuator simulation software that can predict the performance of actuators in a simi development of actuators

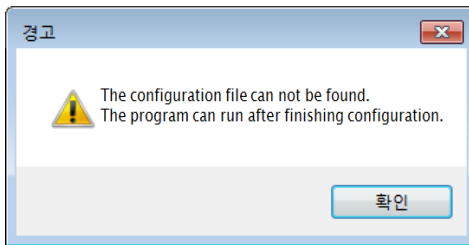
➤ Run the DoSA

- Locate DoSA directory in a suitable location.
- Run DoSA.exe in DoSA directory.

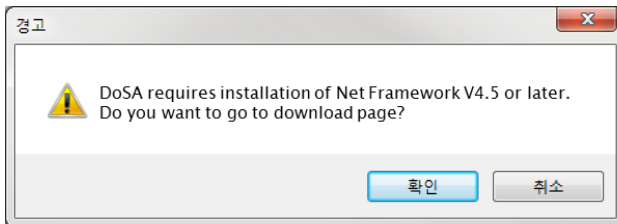


Run the DoSA

- Runs differently depending on the notification window of DoSA



Go to next page



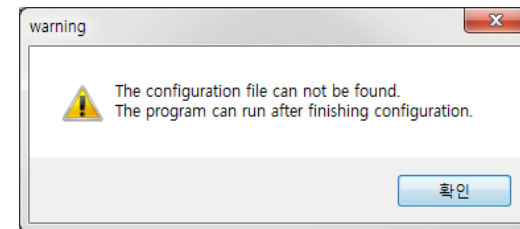
Version issues

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

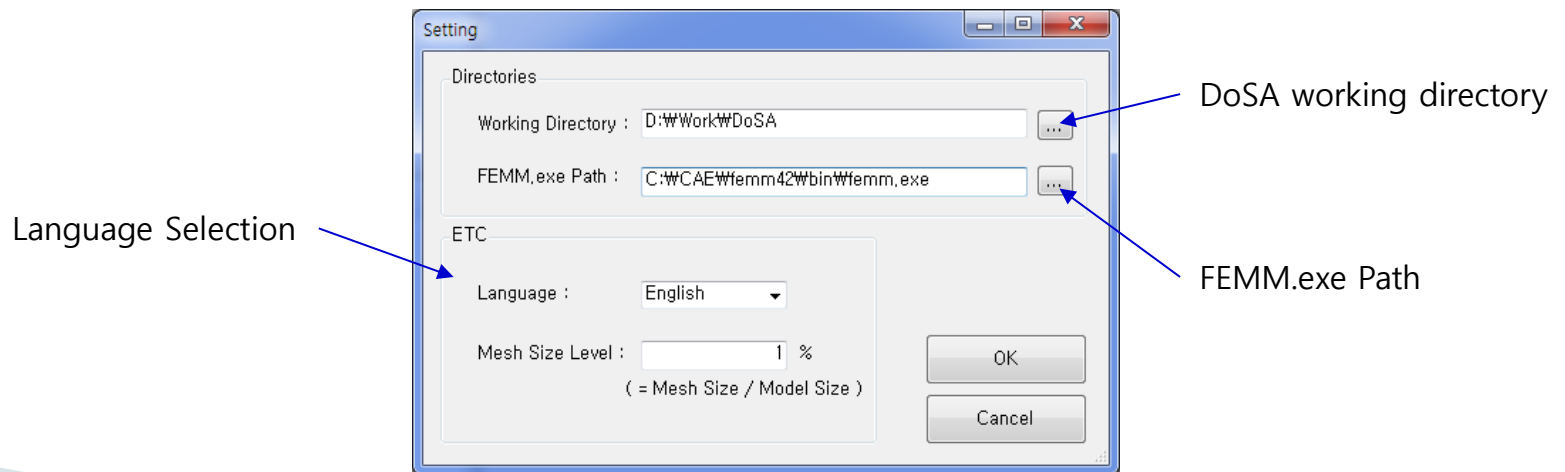
DoSA Settings

➤ 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.

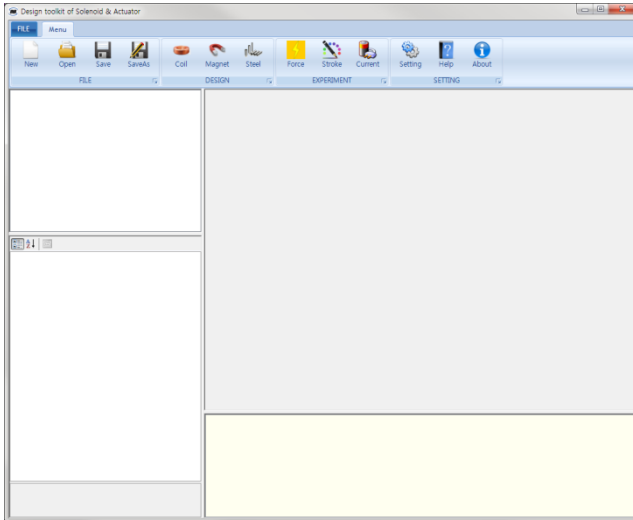


- In the Setting window, select the working directory and the FEMM.exe path.

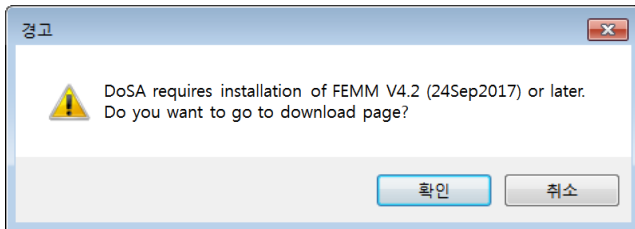


Finish installation

- After setting, proceed according to the following window.



Install Complete



FEMM Version issues

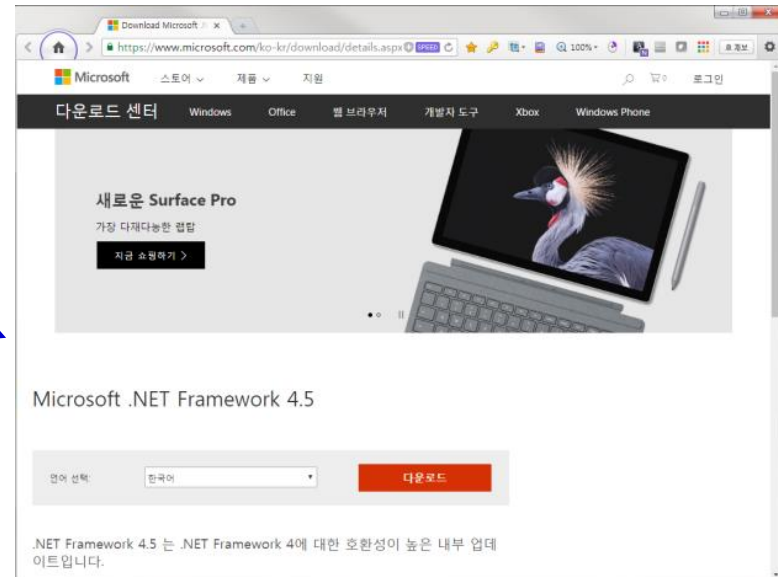
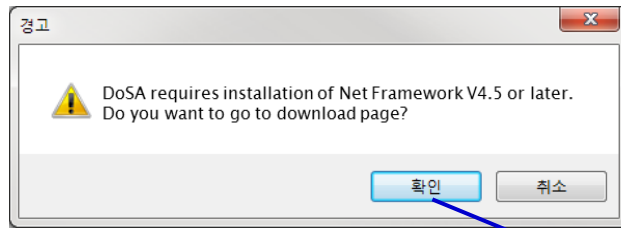
Please refer to the first page,
install the version after 24Sep2017 and
run DoSA.exe again

Thank You

[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, run DoSA.exe again and continue to install DoSA.