

Pre-requisites and Installation of  
Microsystems 1.1 Module in NISA



**Kunal D. Patil**  
([kdp@mecheng.iisc.ernet.in](mailto:kdp@mecheng.iisc.ernet.in))  
CoNe Lab, IISc

November 17, 2014

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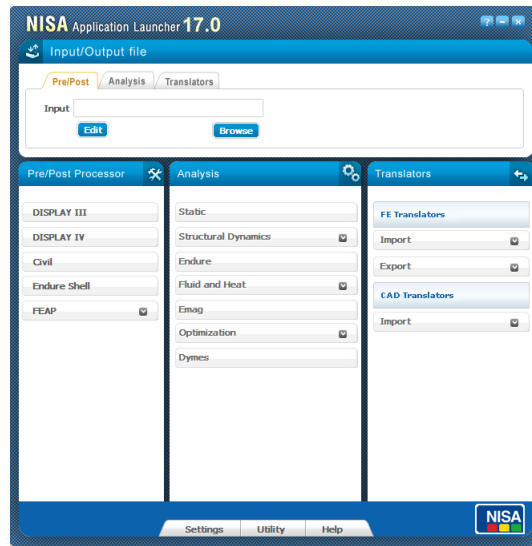
## Pre-requisites to Microsystems module

The **Microsystems** (version 1.1) module<sup>1</sup> is developed by Computational Nano engineering (CoNe) Lab at the Indian Institute of Science (IISc) in collaboration with Cranes Software International Limited (CSIL). The module is available with the Numerically Integrated elements for System Analysis (NISA) software, which is the product of CSIL.

Following are the pre-requisites to **Microsystems** module:

- NISA software with the valid license of **DISPLAYIV** (*pronounced as display 4*). Note that the NISA is only available on **Windows** platform and do not have **Linux** or any other distributions.
- Sufficient computer memory and processor requirements, of course. (read installation section from **NISA** CD/DVD).

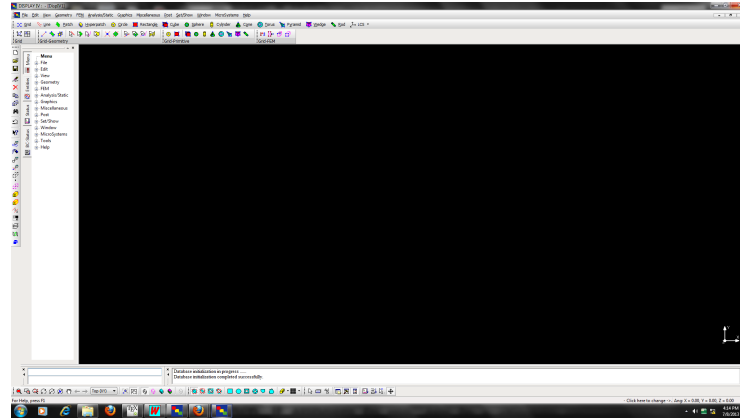
Installation of **NISA** is simple and straight forward from the valid CD/DVD provided by CSIL. After installation, click on “**NISA** Application Launcher” (locate it on Desktop or find it in the Start menu) which will open following GUI (Figure (1.1)).



**Figure 1.1.** GUI of NISA Application Launcher

From “**NISA** Application Launcher”, click on the **DISPLAYIV** menu. This should open following GUI (Figure (1.2)):

<sup>1</sup>Development of **Microsystems** module at **CoNe** Lab, IISc was funded by the **National Programme on Micro and Smart Systems** (NPMAS). We are very thankful for their generous support.



**Figure 1.2.** GUI of DISPLAYIV

This marks the completion of pre-requisites to **Microsystems** module.<sup>2</sup>

**NOTE:**

- Please read the licensing instructions from NISA CD/DVD and particularly related to “Environment variables” setting. If the machine is used as license server then one should install license manager, like WlmAdmin (read license manager settings).
- The NISA software is a commercial software which has to be purchased in order to use **Microsystems** module.

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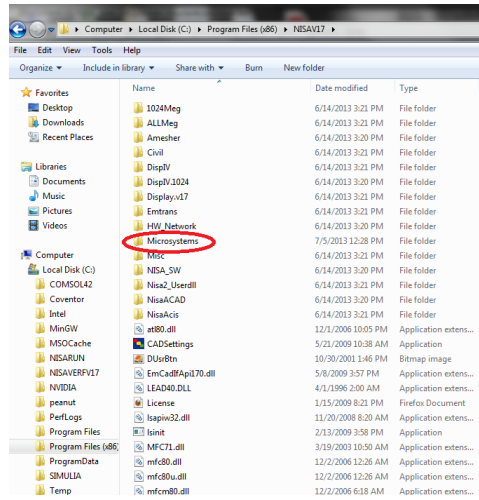
<sup>2</sup>If you get error then please check your NISA license settings.

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## Installation instructions for Microsystems module

Following are the instructions for installation of **Microsystems** module within **DISPLAYIV** of **NISA**;

- Find the **Microsystems.rar** (or in any other format) file from CD supplied by CSIL.
- Extract the compressed **Microsystems.rar** file. This will generate **Microsystems** folder.
- Copy the **Microsystems** folder to the location (default<sup>3</sup>) **C:\Program Files(x86)\NISAV17** (see Figure (2.1))



**Figure 2.1.** Folder location of **Microsystems** module

- Open **Microsystems** folder and run **installer.bat** file.

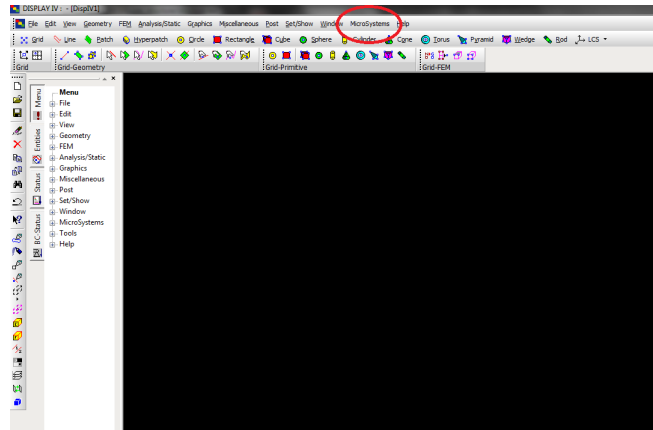
This completes the installation of **Microsystems** module in **NISA**.

<sup>3</sup>If any other location is specified during **NISA** installation then select the appropriate directory (**.\NISAV17**). This documentation is for **NISA** version 17. For higher versions, please check the corresponding directory.

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**Opening Microsystems module in DISPLAYIV of NISA**

Now open DISPLAYIV GUI by clicking NISA Application Launcher. The **Microsystems** module appears in the menu bar of DISPLAYIV (see Figure (3.1)) By clicking on **Microsystems**, a list of currently available analysis types is dis-



**Figure 3.1.** Microsystems module in NISA

played.

Now, you are ready to use **Microsystems** module.

**NOTE:**

- Check in the C:\NISARUN directory, the **Microsystems** directory is created or not. If yes, then open it and check for following directory structure;
  - error
  - results
    - \* 2dplots
    - \* fields
  - status

else, run the **installer.bat** again. If problem persists, let us know.