MemsONE Ver. 1.0 Release

MEMS System Development Center

The MEMS-ONE Project was completed in FY 2006, and in FY 2007 the "MEMS-ONE Project Achievement Dissemination Project (hereafter "Project")" was commissioned by the New Energy and Industrial Technology Development Organization (NEDO) . In this Project, a beta version of MemsOne (achieved in the MEMS-ONE project) was distributed, and activities that included user support, function improvement / upgrading and study regarding dissemination were conducted. The Project issued more than 450 distribution licenses for the beta version and more than 200 persons attended user support seminars. This made a major contribution to the establishment of a functional infrastructure for MemsONE as well as to the achievement of dissemination and publicity objectives.

Development of a commercial version was pursued concurrently with the Project, and MemsONE Ver. 1.0 was released in mid-February 2008. MemsONE Ver. 1.0 represents an advanced function version of the program and reflects approximately 90% of the functional improvements and upgrades to the beta version that were achieved by the Project.

Two versions of MemsONE have been prepared: an enterprise version for general company use and an academic version for universities and research institutions. The enterprise version will be marketed by software vendors and the academic version will be distributed by the Micromachine Center. The detailed product configuration is shown below.

(1) Mechanical simulator
(2) Process simulator
(3) Wet etching simulator
(4) Inverse process analysis
(5) Nano imprint simulator
(6) MEMS circuit simulator

@ Enterprise version

The enterprise version is designed for general company use. There are two editions: a professional edition and an entry-level edition. (Both were released starting in mid-February.)

– Professional edition (for actual use)

This edition is designed for real-world use and has no functional limitations. It comprises the basic product set ((1) - (3)) as well as the separate products ((1) - (6)).

– Entry-level edition (for functional evaluation)

This is a low-cost edition provided for functional evaluation purposes, with some limitations on the number of nodes and so on. It comprises only the separate products ((1) - (6)).

@ Academic version

The academic version is designed for universities and research institutions. There are two editions: a research edition and a classroom edition. (Both were released starting in mid-March.)

– Research edition (for researchers)

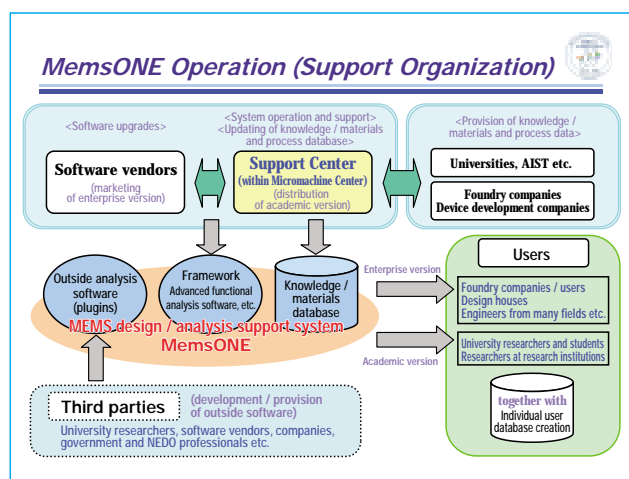This edition contains the full set of professional use functions, subject to the following restrictions.

– Licensed period of use: 1 year (upgraded annually)
– Conditions for use: comes with an obligation to provide knowledge data, teach seminars, etc.

– Classroom edition (for teaching use)

This edition contains the full set of entry-level functions, subject to the following restrictions.

– Licensed period of use: 4 years or 1 year
(two types: 30 licenses per classroom and 50 licenses / classroom)

As the organization for future support, a MemsONE Support Center will be established within the Micromachine Center, and the Micromachine Center will work with three software vendors to pursue dissemination activities. Major releases will be issued annually. Version 1.1 (representing the achievements of this Project) is scheduled for release in May, and Version 2.0 is scheduled for release in January of next year.

MemsONE Support Organization

For details regarding MemsONE Ver. 1.0, see the following website:

http://mmc.la.coocan.jp/mems-one/hiroba/ver1_info/

For inquiries regarding MemsONE, please contact the MemsONE Support Center:

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Email   mems1-user@mmc.or.jp