



**Media Advisory  
For Immediate Distribution**

For more information, contact:  
Toni Sottak  
(408) 876-4418  
toni@wiredislandpr.com

**Coventor Delivers a Breakthrough in Advanced MEMS Design  
Capabilities with the Release of CoventorMP 1.3**

*CoventorMP 1.3 Enhances Device Construction, Modeling Capabilities and Simulation  
Performance to Accelerate the Development of Next-Generation MEMS Technology*

Fremont, CA—JULY 17, 2020 - Coventor<sup>®</sup>, a Lam<sup>®</sup> Research Company, the global market leader in design automation solutions for microelectromechanical systems (MEMS) and virtual fabrication of MEMS and semiconductor devices, today announced the immediate availability of CoventorMP<sup>®</sup> 1.3 - the newest version of its MEMS design automation platform. With added MEMS+<sup>®</sup> features, performance improvements, and new capabilities, CoventorMP 1.3 addresses the need to quickly and easily design highly complex MEMS devices and improve the performance and reliability of next-generation MEMS devices in consumer, automotive, aerospace, industrial and IoT applications. Using CoventorMP 1.3, the range of geometries that can be accurately modeled in MEMS+ has been expanded dramatically. New MEMS+ features include enhanced device construction and modeling capabilities, simulation and results performance improvements, and additional self-help features.

“The latest CoventorMP product release delivered a breakthrough in MEMS design capabilities.”, said Sam Zhang, Director of MEMS Design and ADI Fellow at Analog Devices “With the introduction of GDS import capabilities and the ability to mesh arbitrary geometry in MEMS+, we can quickly and accurately evaluate the performance of a MEMS design at both the device and system level. MEMS+ allows us to easily iterate on design changes and improvements to meet our product performance goals. ADI has greatly benefitted from Coventor’s advances in MEMS design automation, and we look forward to continuing our long-term collaboration with Coventor.”

“With each release of CoventorMP, our development team has provided increasingly advanced MEMS modeling capabilities,” said Gerold Schropfer, Director, MEMS worldwide for Coventor. “Our latest MEMS+ software release, including enhanced device construction and modeling features, makes CoventorMP the most advanced solution available for MEMS design automation. Our MEMS application experts support our customers so that they can

quickly and accurately model their MEMS devices. We help them gain a deep understanding of device behavior prior to fabrication, and accelerate their time to market.”

### **CoventorMP 1.3 Productivity Enhancements**

The new version of CoventorMP 1.3, which is available now, includes many additional features and performance enhancements such as:

- **Enhanced Device Construction and Modeling Capabilities**

Powerful automatic meshing capabilities have been added to the *MEMS+* plate component. Accurate simulation of the highly perforated plate structures typically found in MEMS devices is assured, with up to 3 million degrees of freedom supported along with automated selection of the mesh algorithm. Coupled with Coventor’s intuitive design methodology, users can now create auto-meshed designs directly from layout.

- **Simulation and Results Performance Improvements**

CoventorMP 1.3 has improved control of result file sizes, resulting in reduced simulation time and disk space used. *MEMS+* model output options that are now available during MATLAB simulations can substantially reduce simulation times. Finally, the *MEMS+* Simulator provides even more precise numerical results.

- **Additional self-help features**

New support is available for the MEMSCAP® PolyMUMPS and SOIMUMPS foundry processes in *MEMS+*. An expanded library of device examples has also been provided in CoventorMP, along with enhancements to the CoventorMP Online Help System.

CoventorMP 1.3 will be installed and deployed at all major customers in the US, Europe, Asia and worldwide.

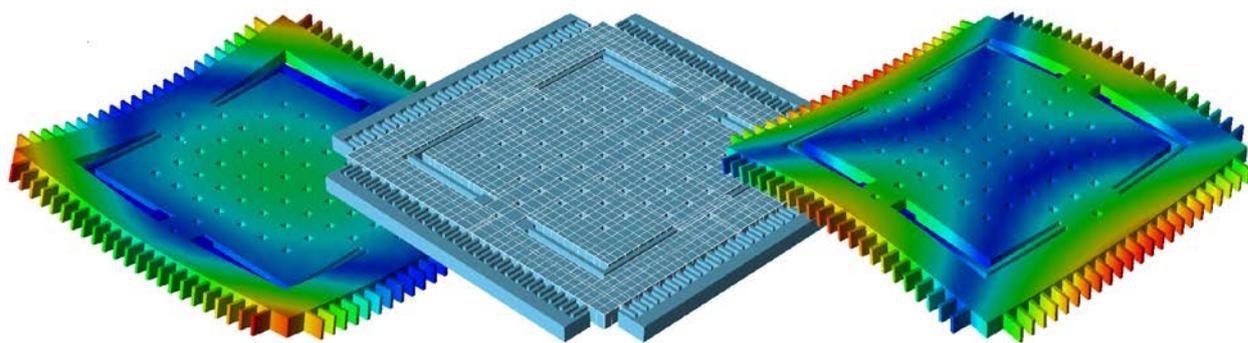
### **About Coventor**

Coventor, Inc., a Lam Research Company, is the global market leader in virtual fabrication of semiconductor and MEMS devices and design automation solutions for microelectromechanical systems (MEMS). The company serves a worldwide customer base of integrated device manufacturers, memory suppliers, fabless design houses, independent foundries, and research and development organizations. Its SEMulator3D modeling and analysis platform is used for fast and accurate virtual fabrication of advanced manufacturing processes, allowing engineers to understand manufacturing effects early in the development process and reduce time-consuming and costly silicon learning cycles. Coventor’s unique and powerful platform for MEMS design, simulation, and verification addresses MEMS-specific engineering challenges such as multi-physics interactions, process variations, MEMS+IC integration, and MEMS+package interactions. More information is available at [www.coventor.com](http://www.coventor.com)

—end—

*CoventorMP®*, *MEMS+®*, *Coventor®* and *SEMulator3D®* are registered trademarks of Coventor, Inc. All other trademarks are the property of their respective owners.

*Note to Editors: Digital images are available.*



**Image caption:** New in CoventorMP 1.3, powerful new device construction and modeling capabilities accelerate MEMS technology development