PTC and ANSYS to Develop Platform Solution Enabling Digital Simulation for the Industrial Internet of Things

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PITTSBURGH and NEEDHAM, Mass., May 17, 2017 /PRNewswire/ -- PTC (NASDAQ: PTC) and ANSYS (NASDAQ: ANSS) today announced a solution that will enable ANSYS engineering simulation technology to be rapidly added to applications built on the ThingWorx® Industrial Internet of Things (IoT) platform from PTC. The development of a connector between these two technology platforms will enable customers to transform raw data into new forms of actionable intelligence. The connector will integrate intelligent digital simulation models with products as they exist and operate in the real world. This will open up new opportunities for companies to create value by enabling them to optimize operations and maintenance and to integrate them into their product development processes.

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Simulation helps companies understand situations that may occur – such as a product failure – as early as the design phase. When faced with limited access to rich historical data, companies can leverage simulation models to generate an initial "as designed" set of expected outcomes or product performance. The results of these simulations act as a rich source of data that can be used for supervised machine learning and predictive modeling. The ongoing connection between real-world performance, simulation, and machine learning helps companies make sense of data that can lead to predictive models and a more insightful feedback loop, enabling them to improve product design and modeling.

The IoT is making it possible to create a digital twin that combines real-time data about a physical product with the organization's digital information about the product. Simulating digital twins provides advanced intelligence and insight into a product's behaviors. The combination of the ThingWorx platform capabilities with ANSYS simulation models will enable companies to deploy powerful applications that can analyze current operating conditions, rapidly identify and diagnose operations issues, predict future operating conditions, and improve product performance. PTC and ANSYS will make the capabilities of this solution available within IoT applications developed on ThingWorx.

"Obtaining value from the data generated by connected products is one of the primary reasons companies invest in the Industrial IoT," said Catherine Kniker, chief revenue officer, Platform Business, PTC. "Simulation technology combined with machine learning can help Industrial IoT solution builders identify and make sense of the data needed to improve product design and performance – and develop next-generation products. We look forward to seeing how solution builders will create new value by introducing our solution with ANSYS, a preferred simulation partner, into their applications."

"Many of our customers are looking to digital twins to disrupt their industries by drastically lowering their operating and maintenance costs and by marketing their products as optimized services in real time," said Eric Bantegnie, ANSYS general manager. "By leveraging the solution that ANSYS and PTC will bring to the market, our customers will bring powerful capabilities to new Industrial IoT applications. We look forward to demonstrating the value of this solution at LiveWorx17."

ANSYS is an elite sponsor at LiveWorx17. To see a demonstration of the simulation and machine learning joint solution, as well as ANSYS's broader Industrial IoT portfolio, please visit booth 345 on the Xtropolis show floor.

Additional Resources

- Harvard Business Review: "How Smart, Connected Products are Transforming Companies," authors PTC CEO Jim Heppelmann and Harvard Professor Michael Porter
- ThingWorx Industrial IoT Platform
- ANSYS – Simulation Driven Product Development

About ANSYS, Inc.

If you've ever seen a rocket launch, flown on an airplane, driven a car, used a computer, touched a mobile device, crossed a bridge, or put on wearable technology, chances are you've used a product where ANSYS software played a critical role in its creation. ANSYS is the global leader in engineering simulation. We help the world's most innovative companies deliver radically better products to their customers. By offering the best and broadest portfolio of engineering simulation software, we help them solve the most complex design challenges and create products limited only by imagination. Founded in 1970, ANSYS employs thousands of professionals, many of whom are expert M.S. and Ph.D.-level engineers in finite element analysis, computational fluid dynamics, electronics, semiconductors, embedded software and design optimization. Headquartered south of Pittsburgh, Pennsylvania, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

About PTC (NASDAQ: PTC)

PTC has the most robust Internet of Things technology in the world. In 1986 we revolutionized digital 3D design, and in 1998 were first to market with Internet-based PLM. Now our leading IoT and AR platform and field-proven solutions bring together the physical and digital worlds to reinvent the way

you create, operate, and service products. With PTC, global manufacturers and an ecosystem of partners and developers can capitalize on the promise of the IoT today and drive the future of innovation.

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