

Siemens and IBM Collaborate to Accelerate Sustainable Product Development and Operations

- The two companies are developing a new systems engineering and asset management combined software solution to support traceability and sustainable product development – linking domains including mechanical, electronics, electrical and software engineering



Siemens Digital Industries Software and IBM (NYSE:IBM) today announced they are expanding their long-term partnership by collaborating to develop a combined software solution integrating their respective offerings for systems engineering, service lifecycle management and asset management.

Increasing competitive pressures, tight labor markets and growing environmental compliance objectives require organizations to adopt a more holistic management approach that spans the product and asset lifecycle. The companies will develop a combined software solution to help organizations optimize product lifecycles, and make it easier to improve traceability across processes, prototype and test concepts much earlier in development, and adopt more sustainable product designs. The goal is to help organizations speed innovation and time to market which can lead to improved quality and lowered costs.

The new combined SysML v1 standards-based suite of integrated engineering software is expected to support traceability and sustainable product development using a digital thread that links mechanical, electronics, electrical engineering and software design and implementation. It is intended to span the product lifecycle, from early design and manufacturing to operations, maintenance, update and end of life management. Initially, the companies are working to connect [IBM Engineering System Design Rhapsody](#) for systems engineering with solutions from the Siemens Xcelerator portfolio of software and services including [Siemens' Teamcenter® software](#) for Product Lifecycle Management (PLM) and [Capital™ software](#) for electrical/electronic (E/E) systems development and software implementation. The companies have also connected the [IBM Maximo Application Suite](#) for asset management with Siemens' Teamcenter software to support an integrated digital thread between service engineering, asset management and services execution.

These integrations will focus on the effective reuse of processes and materials to allow traceability for sustainable product development. This can help companies to make informed decisions earlier in the design and engineering process to help drive improvements in cost, performance and sustainability. For example, companies can more quickly identify under-performing components or design elements that consume excessive amounts of power, or require maintenance or early replacement, and product innovation can be driven through an integrated digital thread that connects the physical and software assets back into

product development.

“A significant portion of product innovation and differentiation contains electrical, electronics and software components. Yet, manufacturing companies are struggling to bring new products to market on time, as the current tools, processes, and information to manage these components are siloed and disconnected,” said Kareem Yusuf Ph.D, Senior Vice President, Product Management and Growth, IBM Software. “To address this gap, IBM and Siemens are collaborating on a digital thread environment to integrate sustainability practices throughout the lifecycle of a product, from design, production, operation, maintenance and beyond. This connectivity will help enable quicker time to innovation and compliance preparedness, and overall improved product quality.”

Siemens and IBM are also collaborating to create a SysML v2 based solution with a migration path to help customers transition to next generation systems engineering. SysML supports the specification, analysis, design, verification and validation of a broad range of systems and systems-of-systems. Service lifecycle management can assist in maximizing business value for product servitization by connecting service engineering to service maintenance to facilitate new collaborative processes between OEM and operators.

“Together, Siemens and IBM will deliver a simulation-driven systems and software engineering solution that is designed to cover the full operational lifecycle. This can empower our customers to innovate by helping to reduce product development costs, drive continuous improvement and create operational efficiencies across the extended enterprise throughout the product’s operation lifecycle,” said Tony Hemmelgarn, President and Chief Executive Officer, Siemens Digital Industries Software. “We are developing this to help companies truly shift left by improving extensibility and reuse of systems models and associated data with standards-based solutions in an open ecosystem and to enable our customers to develop better products.”

Kamil Mrva, Chief Information Officer at ŠKODA Group and early adopter of the service lifecycle and asset management solution, said: “We are working very closely together with Siemens and IBM to help us to reach our sustainability goals, reduce total cost of ownership (TCO) of products for our customers and support our business transformation with an increased focus on services.”

Siemens will be supported by benefits through IBM's newly launched Partner Plus program and will offer the solution as part of the Siemens Xcelerator ecosystem.

Siemens Digital Industries Software helps organizations of all sizes digitally transform using software, hardware and services from the Siemens Xcelerator business platform. Siemens' software and the comprehensive digital twin enable companies to optimize their design, engineering and manufacturing processes to turn today's ideas into the sustainable products of the future. From chips to entire systems, from product to process, across all industries, [Siemens Digital Industries Software](#) is where today meets tomorrow.

IBM is a leading provider of global hybrid cloud and AI, and consulting expertise. It helps clients in more than 175 countries capitalize on insights from their data, streamline business processes, reduce costs and gain the competitive edge in their industries. For more information about IBM, please visit www.ibm.com. For more information about IBM Sustainability, please visit www.ibm.com/sustainability.

Statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 76,000 employees internationally.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company had around 311,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

This document contains statements related to Siemens future business and financial performance and future events or developments involving Siemens that may constitute forward-looking statements. These statements may be identified by words such as “expects,” “looks forward to,” “anticipates,” “intends,” “plans,” “believes,” “seeks,” “estimates,”

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