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Siemens Xcelerator

Siemens partners with NTT Communications and NTT DATA to decarbonize industry

- **Siemens is working with NTT Communications Corporation (NTT Com) and NTT DATA Corporation (NTT DATA) to scale the software Sigreen to manage carbon emissions.**
- **The companies will develop a combined portfolio that will be available via the Siemens Xcelerator open digital business platform.**
- **As a part of Siemens Xcelerator, Sigreen offers easy integration with NTT Com and NTT DATA's portfolio through open data interfaces.**

The Siemens Xcelerator ecosystem now encompasses the Japan-based companies NTT Com and NTT DATA. NTT Com is a leading global provider of information and communication technology (ICT) solutions within the NTT Group. NTT DATA is a trusted global innovator of IT and business services. To enable climate-neutral production using materials from a sustainable supply chain, Siemens will work with these two companies to develop a range of products and services for decarbonizing industry together with those two companies. A one-stop portfolio will be created as a part of the Siemens Xcelerator business platform, where the Sigreen carbon emission management tool from Siemens will be combined with NTT Com and NTT DATA's integration services. The portfolio will be deployed in a number of pilot projects along with OMRON Corporation, a manufacturer of electronic systems, and DENSO International Europe B.V., an automotive supplier. This follows a successful exploration phase at R&D organization Switzerland Innovation Park Biel/Bienne.

“The decarbonization of industry is a global challenge. To achieve it, we need to work together across continents. Siemens, NTT Comm and NTT DATA are combining IT and automation technology skills to give our customers enormous leverage for making

production more sustainable,” says Cedrik Neike, Member of the Managing Board at Siemens AG and CEO Digital Industries.

Sigreen enables companies to determine and share the carbon footprint of a product along the supply chain in a secure and trustworthy manner. When it comes to decarbonizing industry, it’s also necessary to factor in production in the upstream supply chain, because that’s where up to 90 percent of emissions are generated, depending on the depth and stage of value creation.

Determining emission data requires comprehensive information from a number of systems within a company. To do this efficiently, operational technology (OT) on the shop floor and IT systems should both be connected to Sigreen. This is especially necessary in companies that would like to automate the calculation of carbon emissions at the product level. This connection requires extensive expertise in the area of data integration, and customers need qualified partners to support them globally throughout this process.

NTT Com and NTT DATA have years of expertise in providing precisely this IT/OT convergence for their customers. They’ve selected Sigreen for pilot projects and tests will be conducted to see how the software can be combined with their portfolio.

The Sigreen software belongs to the Siemens Xcelerator portfolio and is available as a service. It’s interoperable with products from Siemens as well as third parties, and provides open data interfaces (APIs).

The ability to securely share product carbon footprint (PCF) data between companies and across industries is made possible by open data ecosystems, like Catena-X and Estainium, which ensure the data sovereignty of the companies involved. Interoperability between different data ecosystems is being tested as part of the collaboration. For example, the international exchange of PCF data between Japan and Europe will be put to the test.



As part of Siemens Xcelerator, the Sigreen software for managing CO₂ emissions offers easy integration with NTT Com and NTT DATA's portfolio through open data interfaces.

More information about Siemens Xcelerator can be found at:

www.siemens.com/xcelerator

More information about Sigreen can be found at:

www.siemens.com/sigreen

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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 72,000 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.