SIEMENS

Siemens optimizes energy efficiency and reliability of data centers

- **Real-time, intelligent management of both cooling production and distribution in data centers**
- **Improved offering for thermal optimization, saving up to 50 percent of total cooling costs**
- **Strategic partnership with data center solution provider Vigilent**

The Siemens Building Technologies Division is expanding its existing Thermal Optimization offering set for data centers to intelligently ensure both highly efficient cooling production and cooling distribution throughout the entire facility. To improve the way cooling is distributed throughout data center "white space," Siemens is integrating Vigilent's artificial intelligence-based dynamic cooling management solution into its data center portfolio. Siemens will leverage Vigilent's real-time data analysis capabilities to dynamically match cooling to IT load in server rooms. In addition, Siemens strengthened its strategic partnership with Vigilent by becoming a minority shareholder.

Matthias Rebellius, CEO of Building Technologies, states: "Siemens works with data center managers around the world to enhance the performance of their buildings via a wide range of facility improvement measures and services such as Demand Flow for Chiller Plant Optimization. Our partnership with Vigilent represents an important expansion of these capabilities and a prime example of our commitment to digitalization within the building industry."

Partnering with Vigilent will expand Siemens' Thermal Optimization offering set which holistically improves data centers including the cooling plant and the white space. For data center operations, this represents a considerable reduction in

Siemens AG
Communications
Head: Clarissa Haller

Werner-von-Siemens-Straße 1
80333 Munich
Germany

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energy consumption while increasing nominal cooling capacity and ensuring data center reliability. Moving forward the two companies will also jointly develop new solutions and address the data center market globally.

"Vigilent has pioneered the use of machine learning to optimize thermal environments in data centers," says Dave Hudson, CEO of Vigilent. "By combining our solutions with Siemens, we can expand our value and reach mission-critical facilities across the globe."

This press release and press pictures is available at
www.siemens.com/press/PR2018050167BTEN
For further information on the Building Technologies Division, please see
www.siemens.com/buildingtechnologies
For further information on data centers, please see
www.siemens.com/datacenters
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Contact for journalists
Catharina Bujnoch-Gross
Phone:+41 79 5660778; E-mail: catharina.bujnoch@siemens.com

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for 170 years. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and

magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2017, which ended on September 30, 2017, Siemens generated revenue of €83.0 billion and net income of €6.2 billion. At the end of September 2017, the company had around 377,000 employees worldwide. Further information is available on the Internet at www.siemens.com.