

## Siemens facilitates implementation of human centric lighting

- **New DALI-2 certification for Siemens Desigo PXC3 and KNX gateway N 141 as well as switch/dim actuator N525D11**
- **Certification ensures interoperability in multi-vendor environments**
- **Lighting based on circadian rhythm helps improve health conditions in indoor environments**

Siemens Smart Infrastructure's building products KNX/DALI gateway N 141 and the switch/dim actuator 2x DALI Broadcast N 525D11 as well as the Desigo PXC3 controller were recently certified under the new DALI-2 communication protocol standard for lighting in buildings. DALI-2 is an update to the original "Digital Addressable Lighting Interface (DALI)" protocol and facilitates interoperability and control for LED drivers. The newly certified Siemens products will help implement state-of-the-art human centric lighting (HCL) applications also in multi-vendor environments in order to increase concentration, productivity, and well-being indoors.

Moreover, such lighting applications seamlessly integrate into holistic building automation systems provided by Siemens which combine heating, ventilation, air conditioning, and shading. Customers can choose between solutions based on either Desigo or KNX, according to their individual installation requirements.

### **"Tunable white" functionality to imitate natural daylight**

Dynamic color temperatures create a pleasant room atmosphere and contribute to the occupants' well-being. Designed to promote this goal, the HCL concept for interior spaces specifies using the correct color temperature and illumination at the

right time. Following this approach, the KNX building automation products from Siemens provide infinitely variable color temperature control thanks to the “tunable white” functionality. This makes it possible to create any shade of white light, from warm to cold, and allows easy implementation of daylight simulations. In technical terms, the color temperature of the light emitted by the luminaires is adjusted from approximately 2700K in the morning to approximately 6500K at midday and then lowered again to 2700K in the evening. By reducing the blue component of the light in the evening, the body is prepared for the night ahead.

This press release as well as a press picture are available at

<https://sie.ag/3xMXRgJ>

For more information about Siemens Smart Infrastructure, see

[www.siemens.com/smartinfrastructure](http://www.siemens.com/smartinfrastructure)

For further information on human centric lighting, please see

[www.siemens.com/humancentriclighting](http://www.siemens.com/humancentriclighting)

#### **Contact for journalists:**

Catharina Bujnoch-Gross

Phone: +41 79 566 07 78; Email: [catharina.bujnoch@siemens.com](mailto:catharina.bujnoch@siemens.com)

Follow us on Twitter at [www.twitter.com/siemens\\_press](https://www.twitter.com/siemens_press)

**Siemens Smart Infrastructure (SI)** is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2021, the business had around 70,400 employees worldwide.

**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 2021, which ended on September 30, 2021, the Siemens Group generated revenue of €62.3 billion and net income of €6.7 billion. As of September 30, 2021, the company had around 303,000 employees worldwide. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).