

For Immediate Release

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TOTO Introduces IoT-Enabled Products for Smart Public Restrooms

Company's IoT-Enabled, Smart-Sensor Products Help Provide Consumers with a Consistently Clean, Comfortable Restroom Experience and Solve Real-World Business Issues for Facility Managers

(Morrow, GA) November 2, 2020 — TOTO, the world's largest plumbing manufacturer with more than \$5.47 billion in annual sales, announced today that to help provide consumers with a consistently clean,

comfortable restroom experience no matter where they travel for work or play, TOTO has launched an array of IoT-enabled products for smart, fully-connected public restrooms, which include:



- IoT-Enabled ECOPOWER® Smart-Sensor Flush Valves for Toilets,
- IoT-Enabled ECOPOWER Smart-Sensor Flush Valves for Urinals,
- IoT-Enabled ECOPOWER Smart-Sensor Faucets, and
- IoT-Enabled Auto Soap Smart-Sensor Dispensers.¹

IoT Monitoring Platform Compatibility

The new IoT-enabled, smart-sensor products by TOTO are designed to connect seamlessly with Georgia-Pacific Professional's (GP Pro) KOLO™ Smart Monitoring System to deliver reliable, customizable and secure monitoring and analysis of connected restroom fixtures to a dashboard that facility

¹Data from the IoT-Enabled Auto Soap Smart-Sensor Dispensers by TOTO will be available on GP Pro's KOLO Smart Monitoring System in 2021.

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managers monitor via phone, tablet, or computer. For example, facility managers and their custodial staff will receive real-time updates or alerts on:

- the number of toilet and faucet activations and their water consumption;
- operational abnormalities such as leaks or product malfunction;
- user safety, alerting staff to check the toilet stall when an occupant has remained in it for more than 30 minutes; and
- consumer traffic to determine optimal periods for cleaning and repairs.

Facility managers will be able to harness this information to dramatically increase consumers' satisfaction with their public restroom experience and solve real-world business issues to manage their workforce better and make substantial cost savings in their restrooms' operation.

In addition, TOTO IoT-enabled, smart-sensor products can potentially connect through the KOLO System to a company's building automation or facility management system.

Wireless Communication

The new IoT-enabled, smart-sensor products by TOTO communicate wirelessly with GP Pro's KOLO Smart Monitoring System or potentially with a company's building automation or facility management system via the KOLO System's cloud data sharing or its application programming interface (API).

Plumbing Functions' Independent Operation

TOTO IoT-Enabled Products' plumbing functions operate independently of their IoT capability. That is, if Internet service is lost, WIFI communication is disrupted between a TOTO IoT-enabled plumbing product and the IoT monitoring system, or an IoT hardware issue occurs, the TOTO smart-sensor flush valves, faucets, and soap dispensers continue to function properly as high-performance plumbing products with no loss or disruption in functionality.

ECOPOWER Technology: The company's proven smart-sensor, ECOPOWER technology creates its own electricity every time water spins a small internal turbine (no need for hardwiring to a building's electrical system or for routine disposable battery replacement, which is costly and toxic to the environment). There is no minimum daily usage requirement.

Because TOTO ECOPOWER faucets and flush valves generate their own energy, they continue to operate without interruption if the building loses its electricity. If the building's internet service goes out, they continue to collect data on their usage to be transmitted when the internet connection is restored.

Service Agreement

A service agreement with GP Pro is required to activate the IoT-Enabled, Smart-Sensor features, which are independent of the operation of the ECOPOWER Smart-Sensor Products or Auto Soap Smart-Sensor Dispensers. Moreover, should a company decide not to renew its IoT service agreement, the TOTO IoT-enabled faucets, flush valves, and soap dispensers will continue to function as high-performance plumbing products with no loss in functionality.

IoT-Enabled ECOPOWER Smart-Sensor Flush Valves for Toilets:

The TOTO IoT-Enabled ECOPOWER Flush Valves for Toilets feature a self-adjusting smart-sensor that does not require manual calibration, providing fast and easy installation. Their six-second detection time prevents ghost flushing.



Extremely water-efficient, they are available at 1.0 gpf or 1.28 gpf, offer a manual flush override feature, and are equipped with a self-cleaning piston valve with a 360-degree filter screen. ADA-compliant, they are available for wall-mount or floor mount toilets in exposed (durable chrome plating) or concealed (brushed stainless steel finish) valve styles.

IoT-Enabled ECOPOWER Smart-Sensor Flush Valves for Urinals:

The IoT-Enabled ECOPOWER Flush Valves for Urinals by TOTO feature a self-adjusting smart-sensor that does not require manual calibration, providing fast and easy installation. Their six-second detection time prevents ghost flushing.



High-efficiency, they flush at 0.125 gpf or 0.5 gpf, offer a manual flush override feature, and are equipped with a self-cleaning piston valve with a 360-degree filter screen. ADA-compliant, they are available in exposed (durable chrome plating) or concealed (brushed stainless steel) valve styles.

IoT-Enabled ECOPOWER Smart-Sensor Faucets:

The IoT-Enabled ECOPOWER Smart-Sensor Faucets by TOTO are extremely water-efficient. They are available at 0.35 gpm, 0.5 gpm, or 1.0 gpm with no minimum daily usage requirement. Their micro-sensor is positioned underneath the spout head for accurate hand detection, ensuring smooth, consistent water distribution and making them vandal resistant. Hands must be detected before water is discharged, and the water flow stops immediately once hands are removed. IoT-Enabled ECOPOWER Smart-Sensor Faucets discharge only the water that users need, eliminating water waste.



ADA-compliant, IoT-Enabled ECOPOWER Smart-Sensor Faucets are available in a wide array of spout styles, including Standard, Axiom, Gooseneck (deck- and wall-mount), Helix (standard, vessel height, and wall-mount), and Libella (standard, vessel height, and wall-mount).

IoT-Enabled Axiom ECOPOWER Smart-Sensor Faucet

IoT-Enabled Auto Soap Smart-Sensor Dispensers:

The IoT-Enabled, Smart-Sensor Auto Soap Dispensers by TOTO require an electrical connection. ADA compliant, their self-adjusting

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smart-sensor does not require manual calibration, providing fast and easy installation. They deliver foaming soap, which requires TOTO Soap. They are equipped with a refillable tank system.



Journalist's Note: High-resolution digital images of the IoT-Enabled ECOPOWER Smart-Sensor Flush Valves for Toilets, IoT-Enabled ECOPOWER Smart-Sensor Flush Valves for Urinals, IoT-Enabled ECOPOWER Smart-Sensor Faucets, and IoT-Enabled Auto Soap Smart-Sensor Dispensers are available for download from the Online Press Room or immediately upon request.

About TOTO

TOTO USA is headquarters for the Americas Division of the TOTO Global Group, which was established in 1917 with the founding of TOTO, Ltd., in Kitakyushu, Japan. TOTO is the world's largest manufacturer of bathroom fixtures and fittings with \$5.47 billion in annual sales (as of March 2020 and its exchange rate). For more than 100 years, TOTO has been the recognized leader in innovation, technology, performance, and design with products that enhance the luxury bathroom experience. Today, the company maintains 33,554 employees in 19 countries and owns manufacturing facilities around the world in countries as diverse as Japan, Mexico, Germany, the USA, India, and China. Guided by its corporate philosophy, the TOTO Global Group strives to create a great company, trusted by people all around the world, which contributes to the betterment of society. Dedicated to engineering products that respect the environment while meeting people's needs for comfort, beauty, and performance, TOTO is the sole plumbing manufacturer to maintain a research and development center devoted to universal design, advanced science, and technology. Consumers enjoy the peace of mind that comes from knowing they purchased a brand that innovates to improve people's quality of life. Winner of numerous domestic and international awards and recognitions, TOTO is the only plumbing manufacturer honored as Water Efficiency Leader by the US Environmental Protection Agency. The company continues to raise industry standards and consumer expectations as to what is possible in the bath space, as TOTO believes a high-quality bathroom is an experience and an everyday luxury people value and appreciate.

For more information, consumers may visit www.totousa.com or call 1.888.295.8134, Option 5. Follow TOTO on Twitter ([@TOTOUSA](https://twitter.com/TOTOUSA)) and Instagram ([@TOTOUSA](https://www.instagram.com/TOTOUSA)) and become a TOTO fan on Facebook.

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