TOTO®

IoT-ENABLED SMART RESTROOM

ICON GUIDE

GENERAL FEATURES

ECOPOWER®
ECOPOWER indicates sensor faucets and flush valves that are powered by flowing water.

AUTO FLUSH
No need to touch buttons or handles and never worry about someone forgetting to flush — it's automatic after each use.

CODES & STANDARDS

ADA
Product complies with Americans with Disabilities Act guidelines.

WATERSENSE®
Product that meets EPA standards for water efficiency and performance criteria.

CEC
Product meets California Energy Commission requirements.

CALGreen
Product meets CalGreen Water Regulations for new construction and permitted remodel.

DESIGN AWARDS

An internationally renowned design award since 1955.
Held at Design Zentrum Nordrhein Westfalen in Essen, Germany.
Products that have been strictly examined and recognized by design experts against standards of innovativeness, functionality, quality, and so forth.

An internationally renowned design award since 1953.
It is held at iF International Forum Design GmbH in Hannover, Germany.
Products whose aesthetics, functionality, and innovativeness have been strictly examined and recognized by design experts.

An internationally renowned sustainable design award since 2009.
Hosted by the Chicago Athenaeum Museum Architecture and Design in United States, a nd the European Centre for Architecture Art Design and Urban Studies in Ireland. Product that has been strictly examined and approved by experts for sustainable performance such as CO2 reduction and energy saving.
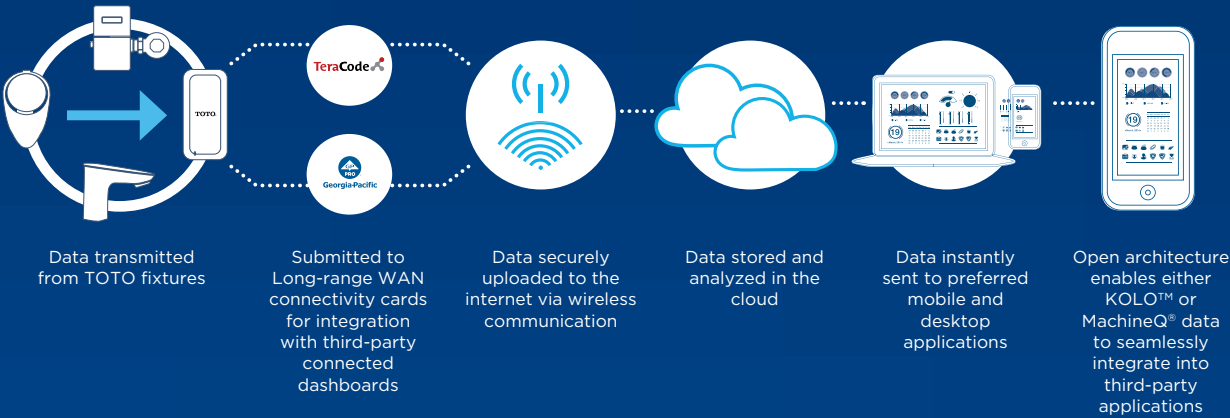
TOTO INTRODUCES NEW LONG-RANGE IOT CONNECTIVITY TO ITS SMART RESTROOM PRODUCTS

TOTO has upgraded its smart plumbing products by incorporating Long-Range Wide Area Network (WAN) connectivity cards. This strategic enhancement facilitates their integration with third-party connected dashboards, markedly advancing the efficiency and management capabilities of smart restrooms.

This new connectivity empowers facility managers with remote monitoring capabilities, access to real-time data analysis, and maintenance alerts directly from TOTO's smart plumbing products. By enabling these new smart functionalities, TOTO's products are integral to creating intelligent building systems that optimize resource use and enhance sustainability efforts in diverse environments, from large arenas and airports to commercial office buildings.

KOLO Smart Monitoring System

GP PRO Georgia-Pacific

MACHINEQ A COMCAST COMPANY

TeraCode

TOTO
Toilet-1
Low Water Flow
44 min ago

TOTO
Soap-1
Refill
25 min ago

OVERDUE
Tissue-1
1 Roll Out
2 hrs ago

Towel-1
Paper Jam
12 min ago

avius
Feedback-1
Litter on Floor
4 min ago

High Traffic
Cleaning Check
1 min ago

YOUR ONE-STOP PLATFORM FOR CONNECTING SMART RESTROOMS

Data transmitted from TOTO fixtures

Submitted to Long-range WAN connectivity cards for integration with third-party connected dashboards

Data securely uploaded to the internet via wireless communication

Data stored and analyzed in the cloud

Data instantly sent to preferred mobile and desktop applications

Open architecture enables either KOLO™ or MachineQ® data to seamlessly integrate into third-party applications

Sink-1
Water Not Flowing
6 min ago

TOTO
Urinal-1
Water Running
21 min ago

Georgia-Pacific
Sanitizer-1
Replace Battery
19 min ago

DASHBOARD

TOTO's IoT Smart Restroom provides a holistic solution for the entire restroom, giving your the ability to remotely manage your facility and fixtures in real-time.
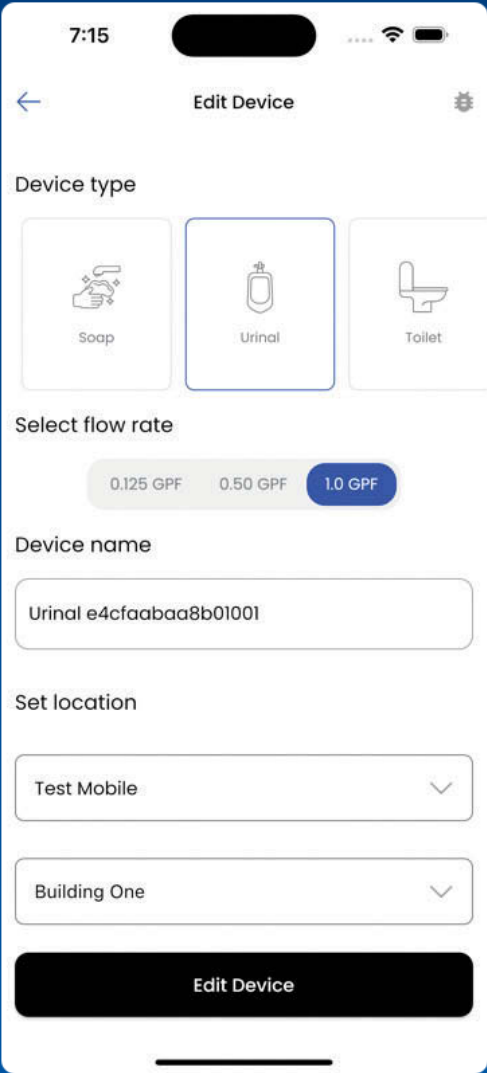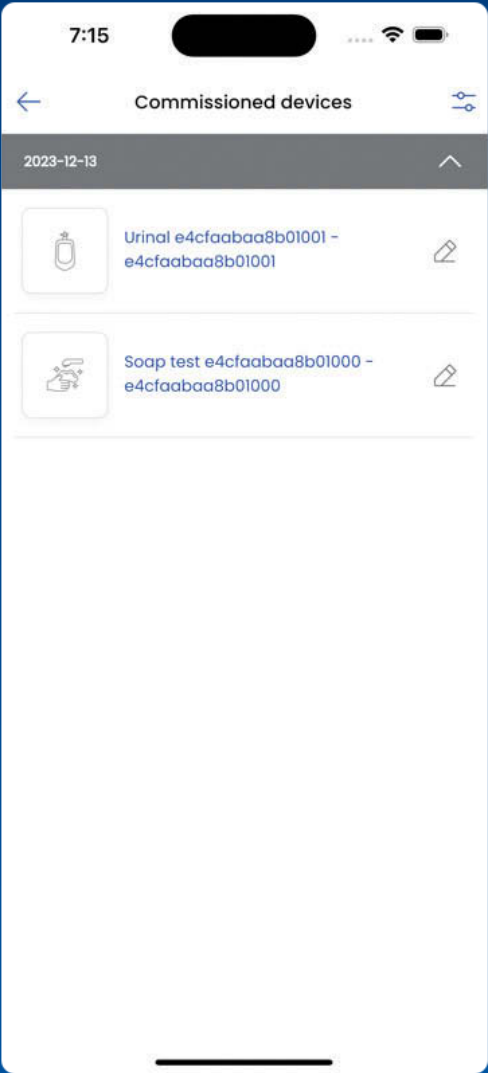
IMPROVE OPERATIONS. ENHANCE RESTROOM EXPERIENCE.

SYSTEM HEALTH

No matter if you are in a different terminal or at home, you can leverage the connected dashboard to check your system's health, what fixtures need attention, and direct your team to reduce down time.

Facilities managers can now leverage data collected from our TOTO fixtures and our Hand Washing Score* -- helping you decide where to influence new hand washing behaviors to keep your staff and customers safe.

*Have the ability to create a Customized Hand Washing Score Report

ANALYTICS

Get powerful data and analytics at your fingertips. TOTO's powerful fixtures, combined with IoT driven data empowers you to act on real-time analytics to help improve maintenance and hygiene -- saving time and increasing customer satisfaction.

Finally, with TOTO's IoT Smart Restroom, you will fully understand the use of space for future design and plumbing infrastructure improvements.

SUSTAINABILITY - WATER CONSUMPTION

*Example view of TOTO products connected through KOLO™ Clean App Dashboard.

WHAT DO MANAGERS HAVE TO SAY?

I'm able to address operational issues throughout IoT, and I'm able to address passenger experience through IoT.

We have an opportunity to change the game in the restrooms .

DR. KOFI SMITH
Former President & CEO
Atlanta Airlines Terminal Company
(2011 to 2020)

ENHANCE CUSTOMER EXPERIENCE

Receive real-time notification of restroom issues directly from your preferred software that helps instantly notify staff.

PREVENTATIVE MAINTENANCE

Quality improvement of maintenance
Accessible through dashboard
Report of actual usage
Report of load information

INSTANTLY DETECT FAILURES

Promptly identify and address outages
Improved user satisfaction

WHAT DO CUSTODIANS HAVE TO SAY?

I'm receiving alerts when a fixture needs maintenance instead of manually checking every product or waiting for a compliant.

This helps prevent outages which affect customer satisfaction.

ENHANCE FACILITY MANAGER EXPERIENCE

Leverage data and reports to better manage your restrooms to insure safety and smooth facility operations through connecting TOTO products to your centralized dashboard of choice.
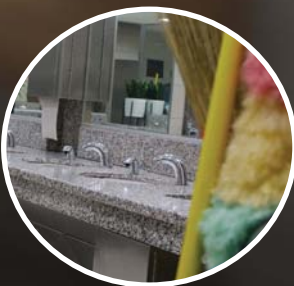
OPTIMIZE YOUR CLEANING CYCLE

Volume based cleaning
Work force management
Air care management

IMPROVE HYGIENE
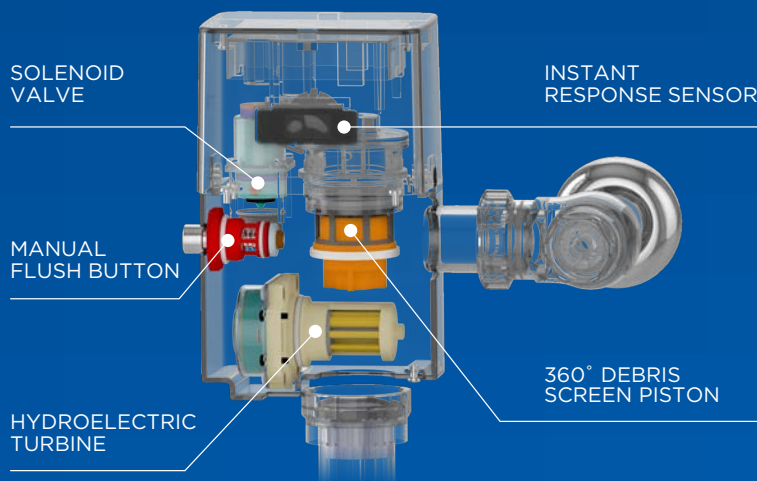
Alert staff to check the stall
Required assistance

ADVANCED USAGE ANALYTICS

Usage heat-map
Labor and space optimization
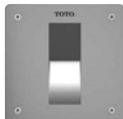Future Improvements

ECOPOWER® FLUSH VALVES

This self-powered hydroelectric flush value system generates its own power through turning an internal turbine during every flush. With eco power flush valves, you can rest assured your plumbing fixtures will work -- even during a power outage.

SOLENOID VALVE

INSTANT RESPONSE SENSOR

MANUAL FLUSH BUTTON

HYDROELECTRIC TURBINE

360˚ DEBRIS SCREEN PISTON

AUTO-FLUSH TOILETS AND URINALS

	PRODUCT	TOILET FLUSH VALVE	URINAL FLUSH VALVE
	ECOPOWER® EXPOSED	TET1UBi2 - 1.0 GPF	TET1UBi2 - 1.0 GPF
	CAL Green	TET1LBi2 - 1.28 GPF	TET1LBi2 - 1.28 GPF
		TET1GBi2 - 1.6 GPF	TET1GBi2 - 1.6 GPF
	ECOPOWER CONCEALED	TET2UBi2 - 1.0 GPF	TEU2UAi2 - 0.125 GPF
	CAL Green	TET2LBi2 - 1.28 GPF	TEU2LAi2 - 0.5 GPF
		TET2GBi2 - 1.6 GPF	
	ECOPOWER CONCEALED	TET3UBi2 - 1.0 GPF	TEU3UAi2 - 0.125 GPF
	CAL Green	TET3LAi2 - 1.28 GPF	TEU3LAi2 - 0.5 GPF
		TET3GBi2 - 1.6 GPF	

FEATURES

- No daily usage minimum required
- Self-adjusting smart-sensor technology does not require manual calibration, for fast, easy installation
- Retrofitting to convert manual flush valve to smart-sensor flush valve
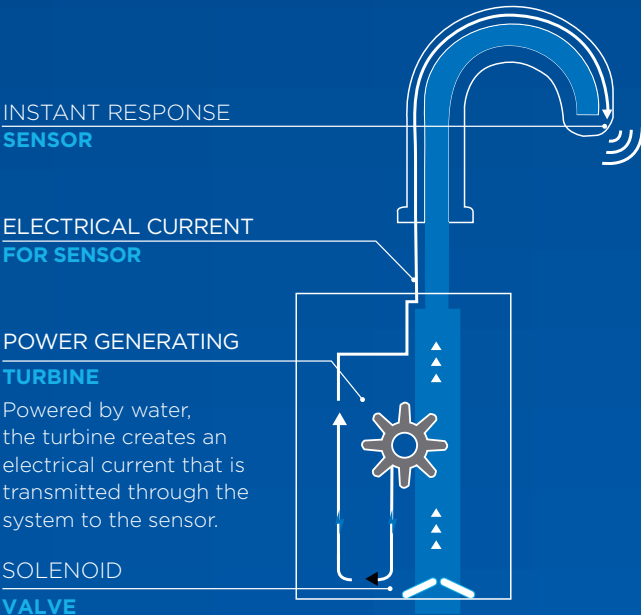- Available in exposed and concealed valve styles

SCAN CODE TO VIEW ECOPOWER FLUSH VALVES

ECOPOWER® FAUCETS

ECOPOWER smart-sensor faucets harness the energy of running water to power themselves, saving water and energy. These hands-free faucets replenish their charge with every use.

INSTANT RESPONSE
SENSOR

ELECTRICAL CURRENT
FOR SENSOR

POWER GENERATING
TURBINE

Powered by water, the turbine creates an electrical current that is transmitted through the system to the sensor.

SOLENOID
VALVE

TOUCHLESS

INSTANT RESPONSE

TOUCHLESS FAUCETS ARE SAFE FAUCETS

	PRODUCT	ECOPOWER® FAUCET
reddot winner 2021 / GOOD DESIGN GREEN GOOD DESIGN AWARD 2021	**AXIOM®** CAL Green	T25S51Ei2 (0.5 gpm/0.09 gpc) T25S53Ei2 (0.5 gpm/0.19 gpc) T25S32Ei2 (0.35 gpm/0.12 gpc)
reddot winner 2021 / GOOD DESIGN GREEN GOOD DESIGN AWARD 2021	**HELIX®** CAL Green	T26S51Ei2 (0.5 gpm/0.09 gpc) T26S53Ei2 (0.5 gpm/0.19 gpc) T26S32Ei2 (0.35 gpm/0.12 gpc)
iF DESIGN AWARD 2021 / GOOD DESIGN GREEN GOOD DESIGN AWARD 2021	**STANDARD-R** CAL Green	T28S11Ei2 (1.0gpm/0.18 gpc) T28S51Ei2 (0.5 gpm/0.09 gpc) T28S53Ei2 (0.5 gpm/0.19 gpc) T28S32Ei2 (0.35 gpm/0.12 gpc)
iF DESIGN AWARD 2021 / GOOD DESIGN GREEN GOOD DESIGN AWARD 2021	**STANDARD-S** CAL Green	T27S11Ei2 (1.0 GPM) T27S51Ei2 (0.5 GPM/ 0.09 GPC) T27S53Ei2 (0.5 GPM/ 0.19 GPC) T27S32Ei2 (0.35 GPM/0.12 GPC)

FEATURES

- No minimum daily usage required
- Reduced electricity
- Lower maintenance costs
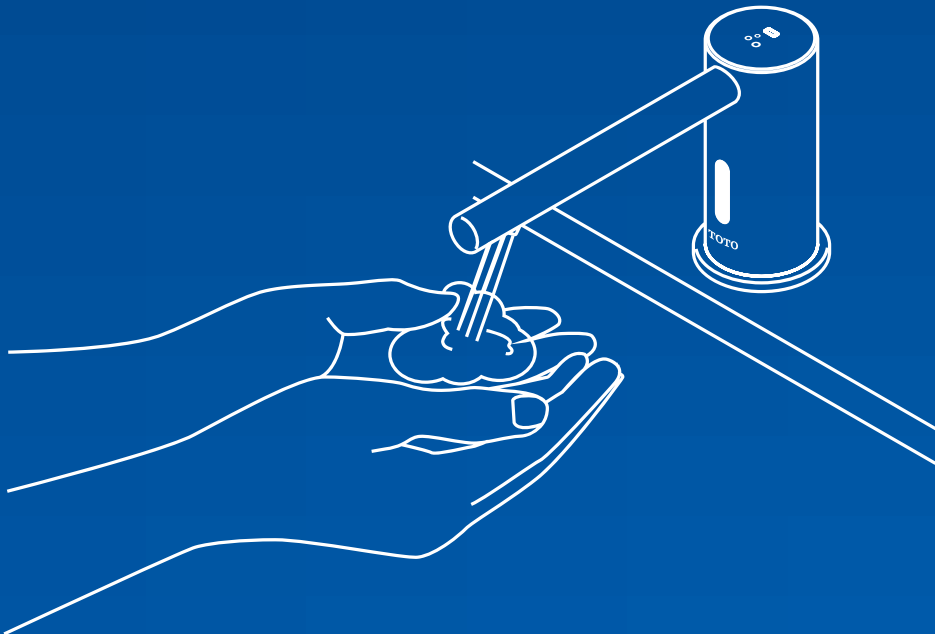- Better ecology
- Hands-free, automatic-shut-off

SCAN CODE TO VIEW ECOPOWER FAUCETS

SOAP DISPENSERS

TOTO soap dispensers offer touchless operation with foaming soap for a hygienic handwashing experience.

HANDS-FREE
SOAP DISPENSERS

TOUCHLESS

SOAP DISPENSER	SOAP DISPENSER - SEMI-VESSEL	SOAP DISPENSER - SEMI-VESSEL
TES201AEi2 *(1 spout)* TES202AEi2 *(2 spouts)* TES203AEi2 *(3 spouts)*	TES201AEi2 *(1 spout)* TES202AEi2 *(2 spouts)* TES203AEi2 *(3 spouts)*	TES201AGi2 *(2 spouts)* TES202AGi2 *(3 spouts)* TES203AGi2 *(4 spouts)*
SOAP DISPENSER WITH SUBTANK	**SOAP DISPENSER WITH SUBTANK**	**SOAP DISPENSER WITH SUBTANK**
TES204AEi2 *(2 spouts)* TES205AEi2 *(3 spouts)*	TES204AFi2 *(2 spouts)* TES205AFi2 *(3 spouts)*	TES204AGi2 *(2 spouts)* TES205AGi2 *(3 spouts)*

TOUCHLESS

SOAP DISPENSER - SEMI-VESSEL	SOAP DISPENSER - SEMI-VESSEL	TOTO® SOAP 1 GALLON PACKAGE OF 4, 1 GAL. EACH
TES201AEi2 *(1 spout)* TES202AEi2 *(2 spouts)* TES203AEi2 *(3 spouts)*	TES201AEi2 *(1 spout)* TES202AEi2 *(2 spouts)* TES203AEi2 *(3 spouts)*	TSFG1
SOAP DISPENSER WITH SUBTANK	**SOAP DISPENSER WITH SUBTANK**	
TES204AFi2 *(2 spouts)* TES205AFi2 *(3 spouts)*	TES204AFi2 *(2 spouts)* TES205AFi2 *(3 spouts)*	

FEATURES

- New FDA compliant, eco-friendly Triclosan-free formulation
- Antibacterial soap effectively reduces up to 99.999% of bacteria during use*
- Mild lotion soap suitable for daily use
- Use with foaming soap dispenser to create a rich lather for effective hand cleansing and to reduce water consumption

TOTO SCENTED SOAP 1 GALLON PACKAGE OF 4, 1 GAL. EAC

TSFG1

- Green Seal™ GS-41 certified
- No triclosan
- Biodegradable
- Helps qualify for LEED credits

FEATURES

- TOTO's IoT Soap Dispenser alerts your team when the dispenser needs to be refilled or if the controller is leaking
- Micro-sensor under the spout ensures accurate hand detection
- Auto-purge cycle prevents soap from clogging the spout

SCAN CODE TO VIEW SOAP DISPENSERS

SCAN CODE NOW
FOR IoT-ENABLED SMART RESTROOM BROCHURE

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ASK YOUR TOTO REPRESENTATIVE
HOW OUR TOUCHLESS PRODUCTS CAN BE IMPLEMENTED INTO
SMART TECHNOLOGY SYSTEMS

TOTO USA, INC.
1155 SOUTHERN ROAD
MORROW, GA 30260
800-350-8686

www.totousa.com

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