

Solution Brief

Restaurants and Hospitality
Health and Safety Technology



Confirmed Clean™ Uses Gamification and AI to Encourage Proper Hand Washing

Improve hand washing and help employees meet health and safety guidelines

Clean, germ-free hands have always been critical in a variety of industries. But despite decades of encouraging proper hand washing, improper hand washing remains a serious issue. Studies have proven that only 5 percent of people wash their hands correctly after using the restroom.¹

In 2015, the FDA estimated that there are nearly 48 million cases of foodborne illnesses in the US annually, which is about one in six Americans. This results in nearly 128,000 hospitalizations and 3,000 deaths per year, costing industries from retail to hospitality to healthcare billions of dollars.² It's also estimated that washing hands with soap and water can reduce diarrheal disease-associated deaths by up to 50 percent.³

Not only is proper hygiene the most cost-effective health action to reduce foodborne illnesses, but also the Centers for Disease Control and Prevention (CDC) says that maintaining proper hand hygiene is the best way to prevent the spread of infectious diseases.³ While 15 to 20 seconds of thorough hand washing with soap is enough to kill germs, in reality most people spend roughly six seconds, often without soap.¹

Establishing proper hand washing with Confirmed Clean

To address this growing concern—particularly in the restaurant, fast-casual, and hospitality industries—SinkTech™ developed the Confirmed Clean™ solution in partnership with Intel and Dr. Sheila Nirenberg. The Confirmed Clean solution engages the user with gamelike interaction on a smart display that sits above the sink. It uses artificial intelligence (AI) and computer vision technology to detect hand washing, the use of soap, and how long the employee continues to

wash their hands.⁴ The Confirmed Clean solution is also able to provide accurate results across a number of environments and lighting conditions, all while presenting the information in an engaging way.

As users wash their hands, the solution provides entertainment as it shows the employee their progress. After 20 seconds of proper hand washing, they're notified—along with positive feedback—that they've completed their hand washing. The display can even allow the employee to enter an ID number so management can track hand-washing records.

The Confirmed Clean solution has been proven to verify thorough hand washing and encourage it by using games and gamelike positive reinforcement. Additionally, it can be programmed to send metrics to management for feedback and analysis or alert a manager if a “fail” is detected and ignored.

The future of IoT in the kitchen

The Confirmed Clean solution is a part of SinkTech and Intel's goal, which aims to improve health and safety protocols in restaurants. By integrating technology such as IoT functional equipment monitoring, waterflow, and temperature sensors in kitchens, businesses and their employees can be more confident in food safety procedures while they also create a safer environment to work in.

If you are interested in the Confirmed Clean solution, you can get in touch with SinkTech at sink.tech/confirmedclean to order or watch a demo.

Learn more about SinkTech solutions at sink.tech.

Find out more about Intel® technology for hospitality at intel.com/hospitality.



1. <https://msutoday.msu.edu/news/2013/eww-only-5-percent-wash-hands-correctly>

2. <https://www.fda.gov/food/consumers/what-you-need-know-about-foodborne-illnesses>

3. https://www.cdc.gov/healthywater/hygiene/fast_facts.html

4. The Confirmed Clean solution does not store personal identification. No faces are captured, and hand-washing sessions are anonymous.

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