



## Wisepill Improves Medical Adherence with Help from Aeris Connectivity



CASE STUDY

*“Wisepill Technologies is excited to provide a truly global data solution to our clients enabled by Aeris and its IoT connectivity services. This partnership with Aeris means that Wisepill can provide an awesome customer experience in every corner of the globe.”*

Ricci Marshall, Owner and Director, Wisepill Technologies

According to research by the World Health Organization (WHO), the benefits of medications used to fight disease are not fully realized because close to 50% of patients do not adhere to medicinal intake guidelines. Reasons for not taking medicines on a regularly needed basis are plentiful, running from lack of funds to sub-optimal healthcare literacy to communications / language barriers to just plain forgetfulness.

Multiple sources have stated that medical adherence may play a greater role in patient health gains than any improvements in medical therapy. The challenge, therefore, is to identify instances of non-adherence and then implement a solution so as to improve intake. The solution needs to be global in scope, with reliable connectivity at its core.

### Case in Point: Wisepill Technologies

Wisepill is a leading provider of medical adherence management solutions and the creator of the Wisepill dispenser, a pillbox with

a global GSM communications system that uses cellular and IoT technologies to provide real-time medical management solutions. The pillbox, designed to work in diverse environments, has a rechargeable, extended-life battery, which allows the device to be used for extended periods without the need of an external power source.

The pillbox, using mobile technologies, stores and forwards all messages automatically to the Wisepill servers each time the dispenser is opened. The server associates a dispenser with a patient and securely stores all related device and patient adherence or intake data.

The company uses secure servers to store client data, ensuring that data is not lost if a device goes missing or is damaged. This also means that data is available (through in-depth reports and notifications) on a daily basis (via a web browser or mobile apps), and care providers do not have to wait weeks to receive feedback.

Wisepill dispensers have been used by patients with tuberculosis, human immunodeficiency virus (HIV), epilepsy, osteoporosis, chronic heart conditions, diabetes, leukemia, asthma, attention deficit hyperactive disorder (ADHD), and hepatitis C in more than 20 countries.

## Connectivity Saves Lives

A vital element to the Wisepill adherence solution is reliable connectivity, with the ability to reach even the most remote locations on the planet. With lives on the line, real-time knowledge is indispensable.

To that end, Wisepill incorporated Aeris IoT Connectivity services to help pharmaceutical businesses and healthcare organizations around the world improve medication management for their patients through IoT-enabled smart pillboxes. Unlike many reminder systems on the market that urge users to take their medicine, the Wisepill system was created to remind users only when they forget.

## Aeris IoT Connectivity Services

The Wisepill choice of Aeris was based on the ability to provide global 2G, 3G, and 4G cellular solutions across CDMA, GSM, and LTE networks. Additionally, Aeris seamlessly delivered connectivity in more than 190 countries, across more than 550 underlying carriers, all delivered on a single platform. Aeris cellular networks were built specifically for IoT, delivering increased performance, control, and visibility.

Aeris' multi-technology, multi-network connectivity solutions deliver maximum value by combining the benefits of 2G/3G/4G cellular connectivity with the benefits of non-cellular technologies, such as low power wide area networks (LPWA), Wi-Fi, and more. For Wisepill, the Aeris IoT Connectivity platform simplified the complexity of its deployments with seamless connectivity management, regardless of technology or underlying network.

## Connectivity Management

Aeris AerPort, the device monitoring and management portal, provided complete control over Wisepill's IoT programs through the entire device lifecycle; allowed real-time visibility into device performance and traffic patterns; and enabled cost controls through flexible alerts and alarms. These capabilities resulted in greater operational efficiency, higher levels of automation, and ultimately, a much lower TCO. More important, when applied to medical adherence, these capabilities save lives.

## Conclusion

Patients in developing countries or in hard-to-reach rural areas cannot travel easily to far-off clinics. Additionally, many places have a severe shortage of medical professionals. To overcome some of these conditions, Aeris worked with Wisepill to enable clients, pharmaceutical businesses, doctors, and healthcare organizations around the world to use IoT technologies to improve medication adherence management. The combination of Aeris and Wisepill provided patients with the peace of mind from knowing that should they forget or miss taking their medications, there would be a reminder to maintain their medicinal intake schedule.

By continuing to apply new cost-saving IoT technologies, along with economies of scale, Wisepill believes it can provide affordable adherence solutions, assisting millions of people on the African continent and in the developing world lead a healthier life.



The Wisepill RT2000 dispenser

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## ABOUT WISEPILL TECHNOLOGIES

Wisepill is a pioneer and leader in the field of medication adherence, providing scalable real-time adherence management solutions worldwide.

Visit [www.wisepill.com](http://www.wisepill.com) or follow them on Twitter [@wisepill](https://twitter.com/wisepill) to see their progress and get in touch with them.

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## ABOUT AERIS:

Aeris is a technology partner with a proven history of helping companies unlock value through IoT. For more than a decade, we've powered critical projects for some of the most demanding customers of IoT services today. We strive to fundamentally improve their businesses by dramatically reducing costs, accelerating time-to-market, and enabling new revenue streams. Built from the ground up for IoT and road tested at scale, Aeris IoT Services are based on the broadest technology stack in the industry, spanning connectivity up to vertical solutions. As veterans of the industry, we know that implementing an IoT solution can be complex, and we pride ourselves on making it simpler.

Visit [www.aeris.com](http://www.aeris.com) or follow us on Twitter [@AerisM2M](https://twitter.com/AerisM2M) to learn how we can inspire you to create new business models and to participate in the revolution of the Internet of Things.

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