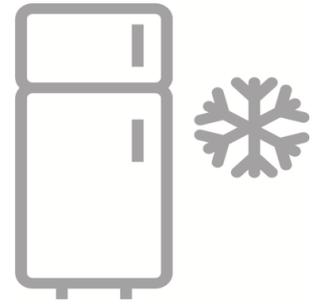




CASE STUDY:

Dulas and Eseye – Delivering reliable temperature monitoring



Vaccines require temperature regulation or lose potency becoming useless

Dulas is a company with an extremely important mission: to improve lives through renewable energy and sustainable technology. They sought an M2M solution which would enable them to record and report the temperature inside vaccine refrigerators, as if these temperatures fluctuate beyond a certain range the potency of the vaccines can be affected.

Applying M2M technology to vaccine storage is a simple way to improve the reliability of the cold chain, facilitating maintenance and ensuring fewer vaccines are spoiled.

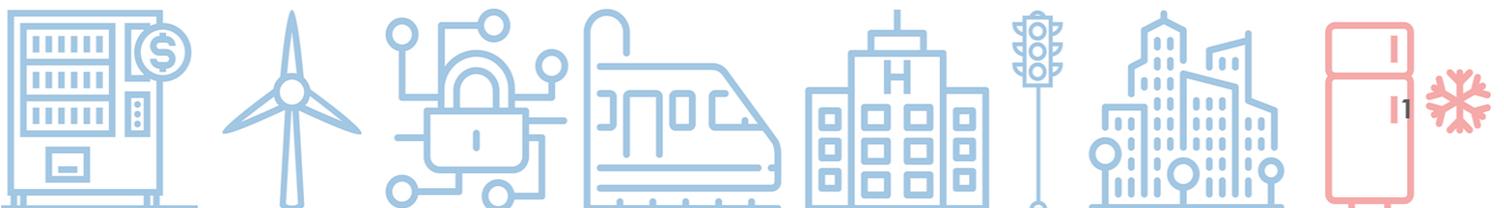
THE SOLUTION

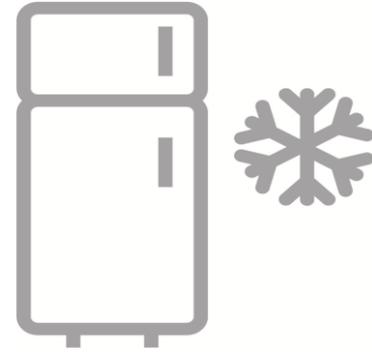
Eseye developed the Vaccine Guard for **Dulas**, modifying their existing Cool-Tel device to better suit developing world environments. Eseye worked with **Dulas** to understand what functionality the product needed to have, and then tailored their solution so that it met these requirements.

As a result of the work undertaken, two iterations of product emerged: Vaccine Guard and Vaccine Guard Advanced.



'The team at Eseye really know IoT and M2M inside out'





The first product, the Vaccine Guard, is a self-contained wireless device which can record and report the temperature inside vaccine refrigerators, sending information to an easy to use web portal that enable customers to monitor their fridges. Suitable for use in both static fridges and moving cold boxes, the Vaccine Guard automatically records and logs the temperature every ten minutes, and if the temperature varies from a specified range the Vaccine Guard immediately alerts the customer via SMS and/or email.

The Vaccine Guard was created as a “plug and play” product, so simple to install that all that is required is removing the plastic tag between the battery and the battery holder, and then placing it in a convenient location within the refrigerator.



The customer can then create a Vaccine Guard Account on the portal, register their device and configure their alerting thresholds. This enables them to access all the temperature records remotely, seeing securely stored results online via in real time web based reports.

Dulas and **Eseye** have also introduced a mains powered version called the Vaccine Guard Advanced, which has increased functionality when deployed in static locations.

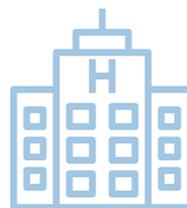
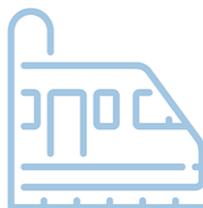
*“Vaccines save and improve lives and Eseye is proud to be working with **Dulas**, a company that uses sustainable technology and renewable energy to help people who need it most. In remote areas where Wi-Fi and even 3G is unavailable, it is important that the Vaccine Guard can still pick up a signal. Our AnyNet SIM keeps the device working by switching to the GSM network when necessary. As the SIM card can choose from a variety of networks it will always have the best signal possible ensuring connectivity is available in even the most challenging areas, provided there is a GSM network available.”*

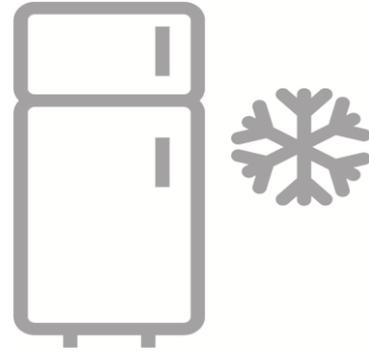
- Ian Marsden, CTO, Eseye.



THE BENEFITS

Eseye's AnyNet SIM is an essential element of Vaccine Guard. **Dulas** needed connectivity in challenging environments, as they work with global organisations often in low resource settings.





AnyNet's simplicity and reliability allows **Dulas** to provide Vaccine Guards with a single SIM card that works throughout the world.

In one go, the AnyNet solves **Dulas'** customer's challenges related to sourcing and managing local SIM cards and boosting reliability as it's always on the right network.

*"The team at **Eseye** really know IoT and M2M inside out and they understood immediately what we needed. The simplicity and reliability of their solution is perfectly tailored to the needs of our customers and enables us to offer a product that is truly revolutionary."*

- David Elliot, Senior Engineer, Dulas Ltd.

This collaboration has seen **Dulas** running field trials in Ethiopia, Nigeria and Tanzania, testing the Vaccine Guard in challenging environments. **Eseye** and **Dulas** are both very proud of their work that will save energy, resources and, most importantly, lives.

ABOUT ESEYE

Eseye takes the cost, risk and time out of M2M Internet of Things (IoT) deployments, enabling enterprises to take more products to market and succeed. Through the simplification of global cellular connectivity, businesses benefit from one SIM, one monthly bill service provider and one tech support for all device types, versions and end locations.

With over 800 customers across the globe, Eseye delivers highly secure and resilient cellular data services through its revolutionary AnyNet and AnyNet Secure Subscriber Identity Modules (SIMs). These SIMs provide unique zero-touch, highly secure, remote device provisioning and true freedom to roam across a vast number of international mobile network partnerships.

Eseye is an AWS Advanced Technology Partner - IoT Competency, recognised in the 2016-17 Gartner Magic Quadrant for M2M managed services and holds ISO 27001

For further information, please contact the **Eseye Marketing Department**

01483 802509

marketing@eseye.com

or visit: www.eseye.com

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 @Dulas_Ltd

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