

UN Refugee Agency Successfully Implements Water-Monitoring Pilot Program Using Kerlink LoRaWAN® Gateways; Effort Is Expanding to Eight Other Locations

Reliable Remote Wireless Sensing and Communication Abilities Are 'a Possible Game-Changer for Monitoring in Refugee Situations'



PRESS RELEASE

Thorigné-Fouillard, France – Feb. 24, 8:00 a.m. CEST – **Kerlink** (AKLK – FR0013156007), a specialist in solutions dedicated to the Internet of Things (IoT), today announced the success of a [United Nations High Commissioner for Refugees](#) (UNHCR) pilot program for reservoir monitoring in Uganda and Iraq, which incorporates Kerlink's LoRaWAN® gateway technology.

The effectiveness of the sensor-to-cloud monitoring programs in remote locations is resulting in near-term expansion to eight additional installations in Africa and Asia, and officials see a multitude of potential applications for IoT-based wireless sensor networks going forward.

The UNHCR, the UN's refugee agency, is charged with providing water to millions of people worldwide, often with daunting logistics. The Ugandan Arua Field effort, where the pilot monitoring program was first implemented, provides daily water deliveries to as many as 470,000 refugees. The LoRaWAN-enabled sensors installed at reservoirs starting in January 2019 enabled managers to monitor water levels in real time, providing unprecedented visibility into usage and resource management. They also provided a reliable new source of coordinated payment information for some 630 rental tanker trucks that were hauling up to 6,387 cubic meters (about 1.5 million gallons) of water daily when the emergency response began in 2015.



Data from the sensors designed by several companies travelled through an outdoor Kerlink Wirnet™ Station LoRaWAN® gateway, which provided essential connectivity with cloud databases and applications. UNHCR managers integrated the data into a dashboard that provided new levels of visibility into operations of this global program.

UNHCR Water, Sanitation and Hygiene (WASH) Officer Ryan Schweitzer noted that the IoT made it both easy and cost-effective to roll out a static water-level monitoring system. The agency hopes to use it globally as a "basis-of-payment" system for water-trucking operations, which in Uganda are as high as \$15 million per month. "The LoRaWAN® IoT technology is mature, extremely cost effective and scalable. The static reservoir-monitoring technology works extremely well," he said.

Schweitzer added that the approach has broad potential for all sectors of humanitarian services, including monitoring of groundwater, water-supply systems, water quality, waste collection, and air quality. He described it as a "possible game-changer for monitoring in refugee settings," noting that the ability to document delivery of safe, potable water to refugees at all times is a "holy grail"-type of technology for UNHCR water and hygiene efforts.

Next steps include replication of the pilot systems at other locations in Uganda and Iraq, as well as Kenya, Rwanda, Tanzania and Bangladesh.

"This unique and vital use case underscores the humanitarian benefits that the IoT can support," said Stéphane Dejean, Kerlink's chief marketing officer. "Because the UNHCR sensor-to-gateway-to-platform system provides critical life support for large numbers of people, there's a very high need for trustworthiness and reliability."

UN Refugee Agency Successfully Implements Water-Monitoring Pilot Program Using Kerlink LoRaWAN® Gateways; Effort Is Expanding to Eight Other Locations

Reliable Remote Wireless Sensing and Communication Abilities Are 'a Possible Game-Changer for Monitoring in Refugee Situations'

"At the same time, the projects' remote location and minimal staffing also demanded a true carrier-grade solution with quick, easy integration and deployment, and secure and straightforward administration," he said. "We're gratified by our Wirnet Station's performance under harsh conditions, and honored to work with UNHCR – their work reflects our values and commitments towards society and the environment, and we look forward to continuing to provide expertise on the next round of projects."

Since its introduction in 2014 as the first commercial LoRaWAN® gateway, the Wirnet Station has been chosen for thousands of installations worldwide by public operators, cable operators, private businesses, and public authorities. It has set new standards for robust, reliable, high-performance operation; an upgraded successor, the [Wirnet iStation](#), was introduced in 2019.

About Kerlink

Kerlink Group is a leading global provider of connectivity solutions for designing, launching, and operating public & private Internet of Things networks. Its comprehensive product portfolio includes industrial-grade network equipment, best-of-breed network core, operations and management software, value-added applications and expert professional services, backed by strong R&D capabilities. Kerlink specializes in enabling future-proof intelligent IoT connectivity for key verticals such as fleet management, transportation & logistics, retail, asset tracking, and smart metering, as well as smart agriculture & environment, and smart cities, buildings, and factories. More than 120,000 Kerlink installations have been rolled out with more than 330 clients in 69 countries. Based in France, with subsidiaries in the US, Singapore, India, and Japan, Kerlink is a founding and board member of the LoRa Alliance® and the uCIFI Alliance™. It is listed on Euronext Growth Paris under the symbol AKLK.

For more information, visit www.kerlink.com or follow us on Twitter @kerlink_news.

UN Refugee Agency Successfully Implements Water-Monitoring Pilot Program Using Kerlink LoRaWAN® Gateways; Effort Is Expanding to Eight Other Locations

Reliable Remote Wireless Sensing and Communication Abilities Are 'a Possible Game-Changer for Monitoring in Refugee Situations'

ALKLK

EURONEXT

GROWTH

Upcoming events

2019 Results and Q1 revenue: 28 April 2020, after market close

www.kerlink.com

actifin
communication financière

MIL

Investors contact:

Actifin
Benjamin Lehari
+33 (0) 1 56 88 11 25
blehari@actifin.fr

Financial press contact:

Actifin
Isabelle Dray
+33 (0) 1 56 88 11 29
idray@actifin.fr

Kerlink press and market analysts contact:

Mahoney Lyle
Sarah-Lyle Dampoux
+33 (0) 6 74 93 23 47
sldampoux@mahoneyle.com



www.kerlink.com



Kerlink



@kerlink_news



Kerlink

www.kerlink.com

NETWORKS SOLUTIONS
FOR THE INTERNET OF THINGS

kerlink
communication is everything