

# Semtech LoRa® Wireless RF Technology Used to Keep Skiers Safe in the Swiss Alps



*TalkPool to deploy LoRaWAN™ network to track skiers on the slopes of the LAAX mountain resort in Switzerland*

Camarillo, California - **July 26, 2016**

**Semtech Corporation** (Nasdaq: **SMTC**), a leading supplier of analog and mixed-signal semiconductors, today announced that after a successful trial, TalkPool and Wuerth ITensis will be deploying a ski tracker solution using Semtech **LoRa® Wireless RF technology** to monitor skiing students on the slopes of the Swiss Alps in the upcoming 2016/17 ski season.

A LoRaWAN™ low power, wide area network (LPWAN), comprised of base stations and sensors embedded with Semtech LoRa technology, is the key component to this new tracking solution. Each student who takes a lesson at the LAAX resort in Switzerland will be equipped with a sensor module that transmits the student's location to the network via a gateway. All instructors will be able to tap into this information using an app on their smartphone. The app will provide instructors with visual cues they can follow on an interactive map. For example, a green dot displays for students who are close by, while a red dot indicates students who might be lost, allowing the instructor to locate them quickly.

Being able to locate a lost student fast on the mountain is important because if the student is disoriented due to the elements or an injury, a quick response is critical. In addition to safety, the ski tracking solution improves the efficiency of ski instructors as they are able to spend more time teaching rather than searching the mountain for lost students using only their eyesight.

"We are happy our solution was chosen by LAAX to track and keep students safe at their ski school," said Robert Spertina, Head of IoT & Managing Director at TalkPool. "The LoRaWAN network platform offers the type of long range RF communications required to monitor students in vast mountainous terrain, while also using very little power. This provides the ski resort with a solution that works well and is cost effective. For example, one base station can cover an area several kilometers wide and the sensor batteries can last for years, which means they do not have to be replaced very often."

"The large amount of data must be stored safely and quickly available. We use our own data cloud in Switzerland and developed an easy to use hybrid application for the back office and the ski instructors," said Claudio Hagmann, Head of IoT at Wuerth ITensis AG.

“We were pleased that after several months of testing, a sensor network based on our LoRa RF technology was chosen to keep skiers safe on the slopes of the Swiss Alps,” said Mike Wong, Vice President of Marketing and Applications for Semtech’s Wireless and Sensing Product Group. “Companies are using our technology to develop some truly remarkable outdoor tracking applications. The latest solution from the TalkPool and Wuerth Itensis teams for the LAAX mountain resort is an excellent example of this and also serves to highlight how LoRaWAN solutions can be used to make the world a safer place.”

## Resources

- Learn more about LoRa wireless solutions: [www.semtech.com/wireless-rf/internet-of-things](http://www.semtech.com/wireless-rf/internet-of-things)
- LoRa FAQs: [www.semtech.com/wireless-rf/lora/LoRa-FAQs.pdf](http://www.semtech.com/wireless-rf/lora/LoRa-FAQs.pdf)
- For technical support or general product inquiries, check out the [LoRa Community](#) or contact [Semtech’s support team](#).
- For quarterly product updates, sign up for Semtech’s e-newsletter [Inside Circuit](#).
- Find Semtech on [Twitter](#), [Facebook](#), [LinkedIn](#) and [Google+](#).

## About TalkPool

TalkPool AB is an affiliated company of TalkPool AG, listed on NASDAQ First North. TalkPool AB enables the IoT ecosystem by providing professional services and solutions for Internet of Things. TalkPool’s offering in the IoT-market ranges from planning and building of IoT-networks, to strategic consulting regarding IoT-technologies and designing and integration of IoT-solutions and specific sensors. For more information, visit [www.talkpool.com](http://www.talkpool.com).

## About Wuerth ITensis AG

Wuerth ITensis AG is a leading provider of IT services in the area of comprehensive Cloud & IoT solutions. Our customers rely on our high quality IT services and products, which are worldwide available via our cloud. Certified information security, maximum availability and worldwide network are the basis of our digital services. For more information, visit [www.wuerth-itensis.com](http://www.wuerth-itensis.com).

## About Semtech

Semtech Corporation is a leading supplier of analog and mixed-signal semiconductors for high-end consumer, computing, communications and industrial equipment. Products are designed to benefit the engineering community as well as the global community. The company is dedicated to reducing the impact it, and its products, have on the environment. Internal green programs seek to reduce waste through material and manufacturing control, use of green technology and designing for resource reduction. Publicly traded since 1967, Semtech is listed on the NASDAQ Global Select Market under the symbol SMTC. For more information, visit [www.semtech.com](http://www.semtech.com).

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Quellenangabe: <https://www.semtech.com/Press-Releases/2016/Semtech-LoRa%C2%AE-Wireless-RF-Technology-Used-to-Keep-Skiers-Safe-in-the-Swiss-Alps.html?platform=hootsuite>, 09.08.2016