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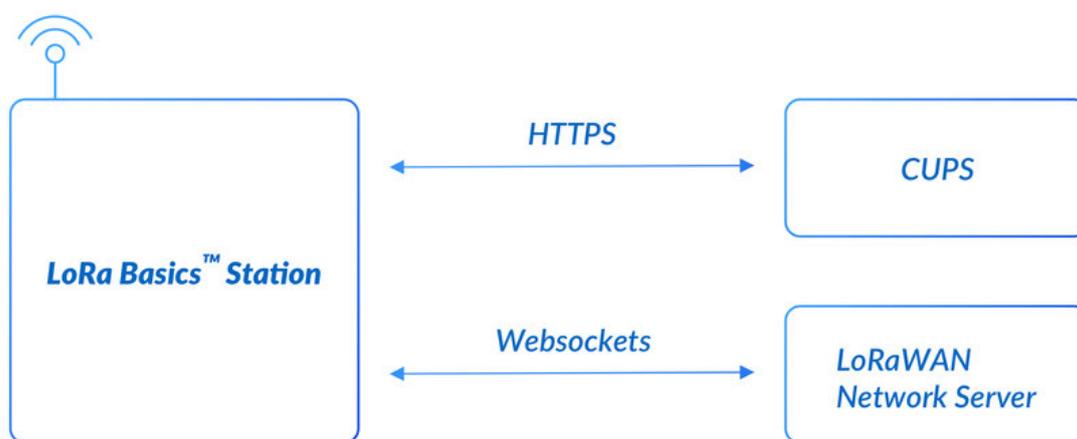
## The Things Industries announces support for Semtech's LoRa Basics™ Station packet forwarder

**11 June, 2019** - The Things Industries announces support for the LoRa Basics™ Station - a new state-of-the-art gateway packet-forwarder released by Semtech earlier this year. The announcement was made at the All Members Meeting of the LoRa Alliance in Berlin. The LoRa Basics Station is designed with built in security and eases the process of managing gateways, especially for large scale deployments.



A packet forwarder is a program running on the host of a gateway and interacts with the LoRa® concentrator, as well as with the LoRaWAN® Network Server (LNS). It forwards packets sent by end devices, and transmit packets received from the LNS. Furthermore, it sends beacon signals to synchronize the clocks of devices, enabling the usage of devices operating in Class B as well as synchronizing a multicast group for updating the firmware of devices over the air.

LoRa Basics Station is the next generation of Semtech's Packet Forwarder with enhanced security and remote configuration capabilities. Instead of using UDP connection, LoRa Basics Station uses secure websockets to communicate with the LNS. The Station comes with a service to remotely interact with a fleet of gateways deployed in the field and has the added benefit of avoiding firewall issues when connecting the gateway to corporate networks.



When deploying a large number of gateways, managing them can be extremely challenging. In many cases, physical access is required to update the firmware on the gateway, to change the Network Server provider, or to change the frequency plan used. The LoRa Basics Station comes with a Configuration and Update Server (CUPS) to easily manage and update these settings, or to remotely access an individual gateway by running a secure shell session on the Station.

As LoRaWAN is increasingly being used in environments with little to no Internet infrastructure, there is a growing demand for packet filtering to reduce data costs via cellular or satellite connections. The gateway can drop the packets that are not intended for the LNS to which it is connected.

Class B device operations as well as Firmware updates Over The Air (FOTA) require accurate time synchronizations between the end devices and the network. The LoRa Basics Station synchronizes the clocks on the gateways allowing network wide time coordination without the need of GPS modules. This is an essential feature allowing the receive window on the devices to be open for as brief as possible to minimize power consumption. It also makes sure that all devices within a multicast group start listening at the exact same time for incoming messages from the server.



*The LoRa Basics Station is already in use on The Things Indoor Gateways*

*“The open source LoRa Basics Station packet forwarder lowers the barrier for companies to invest in LoRaWAN technology as it simplifies the management of large-scale deployments. The Things Industries is well aligned with Semtech in creating developer-friendly tools so developers can focus on optimizing their applications without having to dive into the technical, low-level functionality of the network.”*

— Johan Stokking, CTO of The Things Industries and co-founder of The Things Network

*“The Things Industries support of LoRa Basics Station will accelerate the development of LoRa-based applications and will pave the way for easier gateway management. LoRa Basics is fully compliant with LoRa Alliance® and allows developers as well as enterprises to rapidly develop their applications.”*

— Steven Hegenderfer, Senior Director of the Developer Ecosystem in Semtech’s Wireless Sensing and Products Group:

The LoRa Basics Station is part of the new batch of open source software, released by Semtech earlier this year, aimed at supporting developers to accelerate the development of LoRaWAN applications. [Read more.](#)

### **Links**

- [Semtech](#)
- [The Things Industries](#)
- [LoRa Developer Tools](#)

### **About Semtech**

Semtech Corporation is a leading supplier of high performance analog and mixed-signal semiconductors and advanced algorithms for high-end consumer, enterprise 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).

### **About The Things Industries**

[The Things Industries](#) is a full-service Internet of Things service provider, specializing in LoRaWAN communication. The Things Industries provides the required resources for realizing LoRaWAN solutions, while helping to control costs and speed up time-to-market. The enterprise-grade LoRaWAN Network Server meets all requirements for security, scalability and robustness.

The Things Industries founded The Things Network, a global LoRaWAN data network with a set of open tools to build your next IoT application at low cost, featuring maximum security and ready to scale. Through robust end-to-end encryption, a secure and collaborative Internet of Things network is built that spans across 100+ countries around the globe. Now operating thousands of gateways providing coverage to millions of people.

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The Things Industries