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STMicroelectronics Launches Ultra-Low-Power Sigfox Monarch-Ready Solution for Industrial Asset Management, Enabling Seamless IoT Worldwide Connectivity

- ❖ *Industry's first hardware- and software-certified reference design enabling Sigfox Monarch service, based on ST's S2-LP sub-1GHz radio with STM32 MCU or BlueNRG SoC*
- ❖ *Ready-to-go solution for remote monitoring and asset-tracking devices featuring global inter-regional Sigfox geolocation capability*
- ❖ *The S2-LP based long-range and ultra-low-power connectivity extends ST portfolio for the industrial IoT market*

Geneva, October 22, 2018 – STMicroelectronics (NYSE: STM), a global semiconductor leader serving customers across the spectrum of electronics applications, is the first chip maker to develop and market a certified solution for seamless global, ultra-low-power, and long-range wireless IoT connectivity enabling the Monarch worldwide tracking and positioning service from Sigfox, the world's leading IoT service provider.

ST's solution lets users create region-independent smart objects that connect automatically to the local Sigfox network anywhere in the world, empowering inter-regional mobility, geolocation, and asset tracking without relying on more expensive GPS or GNSS positioning devices. These could include smart-baggage products that aid tracking in airports or transport hubs, or innovations for supply-chain management and air or rail transportation in the industrial asset-management market, such as smart pallets. Regional independence also allows makers of connected smart objects such as consumer or commercial IoT devices to standardize products for multiple export markets, simplifying manufacturing and logistics.

"The widespread worldwide coverage of the Sigfox network represents a unique Global connectivity service for remote monitoring and industrial asset management. This ready-to-go offering for Sigfox Monarch networking perfectly complements the existing ST IoT ecosystem providing the fastest go-to-market solution for IoT

connectivity,” said Benedetto Vigna, President, Analog, MEMS and Sensors Group, STMicroelectronics. “ST’s customers can quickly create new products for seamless worldwide tracking and positioning that are cost-effective, secure, real-time connected, and inherently benefit from long range and ultra-low-power consumption.”

ST is providing a complete Software Development Kit (SDK) for Sigfox Monarch networking, supported by development kits, reference designs, and tools that accelerate project completion.

“The launch of this Monarch solution demonstrates that we are building a solid business collaboration with ST, aiming to expand further the vast possibilities of the IoT market,” said Raouti Chehah, Chief Adoption Officer at Sigfox. “The S2-LP based Ultra-Low-Power Sigfox Monarch Ready Solution will deliver a great user experience for our clients who need to enable devices to run seamlessly in all parts of the world, unlocking endless use cases in logistics and supply chain, in the consumer industry, and in automated maintenance for the shipping, aircraft, and railway industries.”

The fully certified Sigfox Monarch solution is based on ST’s [S2-LP](#) ultra-low-power, long-range, sub-1GHz radio, which is automatically tuned on the local regional Sigfox frequency band, across all relevant worldwide zones (RC1 to RC6), enabling seamless connectivity to the Global Sigfox network and geolocation services.

The SDK runs on the STM32¹ MCU family and benefits from its vast portfolio availability, including both low-power and higher-performance product families. For instance, for processing demanding applications, the ARM® Cortex®-M4 based devices enable highly efficient data pre-processing and localized AI, thus reducing network traffic requirements.

To jump-start new product development, ST’s S2-LP radio is also available for the STM32 Open Development Environment (ODE) with [X-NUCLEO-S2868A1/-S2915A1](#) (upcoming in late Q4’18) expansion boards and [X-CUBE-SFXS2LP1](#) Sigfox Ready software expansion pack.

The SDK also supports a convenient dual-radio reference solution powered by the S2-LP and [BlueNRG-2](#) Bluetooth low energy SoC, enabling easy in-field provisioning, maintenance and configuration of the device through a convenient smartphone app.

¹ STM32 is a registered and/or unregistered trademark of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere. In particular, STM32 is registered in the US Patent and Trademark Office.

The design can easily be enhanced with the STSAFE secure element for robust cyber-protection and with ST's comprehensive industrial portfolio of motion and environmental MEMS sensors.

The availability of a Sigfox Monarch certified solution for LPWAN connectivity along with the ST comprehensive IoT and industrial portfolio makes ST the one-stop shop for creating innovative devices for real-time and always-connected remote monitoring and asset-tracking applications.

About STMicroelectronics

ST is a global semiconductor leader delivering intelligent and energy-efficient products and solutions that power the electronics at the heart of everyday life. ST's products are found everywhere today, and together with our customers, we are enabling smarter driving and smarter factories, cities and homes, along with the next generation of mobile and Internet of Things devices.

By getting more from technology to get more from life, ST stands for life.augmented.

In 2017, the Company's net revenues were \$8.35 billion, serving more than 100,000 customers worldwide. Further information can be found at www.st.com.

Media Contact:

Michael Markowitz
STMicroelectronics
Director, Technical Media Relations
+1 781 591 0354
michael.markowitz@st.com