Sigfox pioneers Internet of Things interoperability to further accelerate mass market adoption

- Sigfox demonstrates IoT interoperability with Internet compression technology, enabling LPWAN applications to transparently run over different IoT radio technologies

LABÈGE, France, April 5, 2017 - Sigfox, the world's leading provider of connectivity for the Internet of Things (IoT), has announced that it has hit a new milestone in IoT interoperability with a development which sets to enable Internet applications interoperating over different IoT technologies.

For the first time at the IETF 98 Bits-n-Bites event in Chicago, Sigfox publicly demonstrated over its live network that, using this new compression technology, Internet applications can communicate with Low Powered Wide Area Network (LPWAN) devices.

IoT interoperability remains one of the greatest challenges for the IoT industry and it is holding back the technology industry from achieving the true potential of mass IoT deployments. By achieving true interoperability between applications, sensors and the network, the technology open-ups the possibility for the development of new applications and value creation.

The development of this specification puts the industry one step closer to developing future LPWAN enabled IoT applications that are radio technology agnostic.

To achieve the milestone and enable Internet protocol applications to communicate over its network, Sigfox and Acklio implemented Static Context Header Compression (SCHC), a new compression scheme which is being standardised by the IETF LPWAN Working Group.

SCHC reduces CoAP/IPv6 headers to just a few bytes, which can then be transported over LPWAN networks for low-power, low-cost IoT services. The software behind the compression was developed with Sigfox's partner Acklio both device side and in the cloud.

Commenting on the milestone, **Juan-Carlos Zúñiga, senior standardisation expert at Sigfox, and co-chair of the IETF IntArea working group**, said, "We are thrilled with this latest milestone in our quest to support and promote interoperability in the IoT. It is critical that the industry rallies together to adopt open Internet standards to unlock the true potential of the IoT."

"Acklio is very proud of sharing this experience with Sigfox. IP on LPWAN devices unifies IoT technologies and opens the door to creating new services and to accelerating the development of new applications," said **Laurent Toutain, CSO of Acklio**.

Stéphane Bortzmeyer, long-time IETF participant and author of several Internet specifications (aka RFCs) commented, "This is a nice demonstration of a low-end sensor and a Raspberry Pi talking to an IPv6 application in the cloud, which shows the feasibility to rely on IETF standards to connect things to the Internet".

The announcement builds upon Sigfox's commitment to supporting the development of true IoT interoperability as an active member of well-established standards development organisations including the IETF, ETSI and IEEE. It also follows Sigfox's recent global deal with mobile operator Telefonica, to complement cellular technologies including 4G and NB-IoT.

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About the SCHC demonstration
The demonstration platform was based on an Acklio compression protocol stack running on Sigfox-enabled devices and cloud-based applications. Two scenarios were shown: one with a CoAP application communicating with legacy non-IP LPWAN devices, and another one where CoAP interoperability was shown over the live Sigfox US and cellular networks in Chicago with IP-enabled devices.

About Sigfox
Sigfox is the world's leading provider of connectivity for the Internet of Things (IoT). The company has built a global network to connect billions of devices to the Internet while consuming as little energy as possible, as simply as possible. Sigfox's unique approach to device-to-cloud communications addresses the three greatest barriers to global IoT adoption: cost, energy consumption, and global scalability.

Today, the network is present in 32 countries and on track to cover 60 by 2018 – covering a population of 512 million people. With millions of objects connected and a rapidly growing partner ecosystem, Sigfox empowers companies to move their business model towards more digital services. Founded in 2010 by Ludovic Le Moan and Christophe Fourtet, the company is headquartered in Labège near Toulouse, France's "IoT Valley". Sigfox also has offices in Paris, Madrid, Munich, Boston, San Francisco, Dubai and Singapore. For more information, see www.sigfox.com and follow us on Twitter, Facebook and Youtube

About Acklio
Acklio LPWA Software Suite brings a new dimension to IoT Ecosystem through its unique Internet and Web approach. Acklio promotes and develops standards and software for Low-Power Wide-Area Networks. Thanks to its exclusive IP Core Network, Acklio's software solutions enable fully secure interoperability between Devices, Applications, Connectivity and Technology while relying on standard protocols.