Weightless-P's killer feature over LoRaWAN

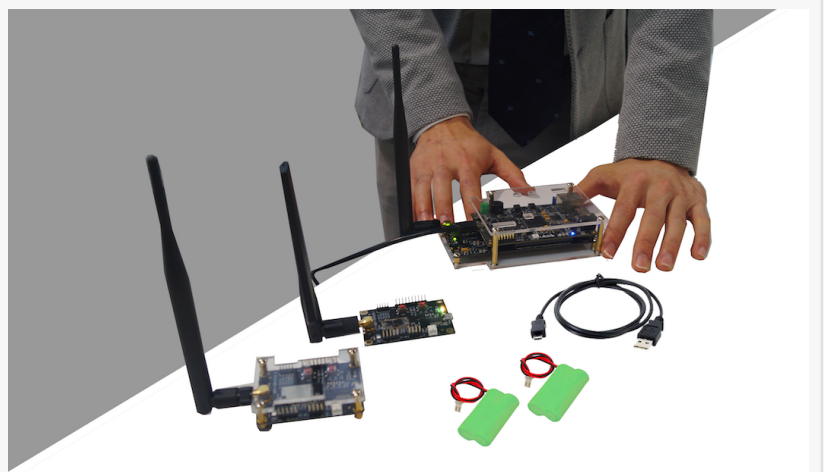*Learn why IoT is shifting from LoRaWAN to Weightless-P*

TAIPEI, TAIWAN, March 22, 2017 /EINPresswire.com/ -- LoRaWAN is unable to meet a key IoT network deployment requirement: bi-directional communication to upgrade firmware-over-the-air and update security patches to end-devices that have already been deployed in the field. The new LPWAN technology Weightless-P has taken position as the new catalyst to bring sustainable IoT networks to life.

Let's first take a look at the three reasons why LoRaWAN is unable to support Firmware-Over-The-Air (FOTA) for a real IoT deployment.

1. With very stringent downlink limitations, LoRaWAN would take an unreasonably long time to update the firmware for a single end device. There are a few elements to take into consideration including the distance of gateway to end device and spreading factor utilised but It could potentially take weeks to send a 200K update to ONE end-device given 20 bytes on a 5-minute polling.

2. LoRaWAN gateway transmissions are uncoordinated. This means if a gateway attempts firmware downlink transmission, it will not be able to listen and receive messages from the rest of the end devices in the network. When you have thousands of end devices deployed, the end-devices won't know the gateway is conducting a firmware upgrade and all messages being sent will be lost.

3. LoRaWAN gateways are duty cycle limited. LoRaWAN gateways can only transmit 1% of the time (ETSI), and will need all of the downlink

Weightless-P starter kit includes everything you need to deploy and test your very own Weightless-P LPWA Network

Ubiik is heading protocol development of Weightless-P and manufacturing the Weightless-P base stations and end device modules
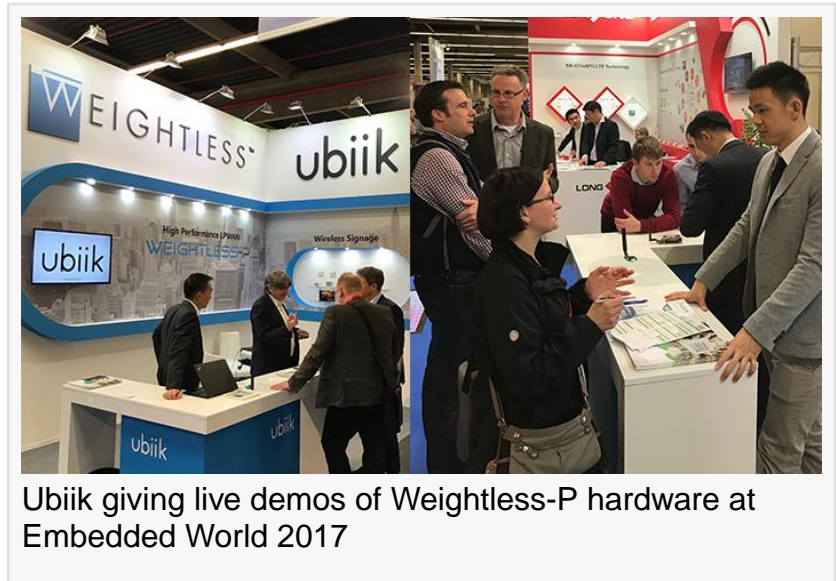
resource for acknowledgements and MAC control messages. Very, very little would be left over for FOTA multicast. In the US, the 1% duty cycle limit does not apply so the network basically stops functioning to facilitate uplink.

Weightless-P is a narrowband LPWAN technology which supports FOTA and true bi-directional communication. Duty cycle limitations do not apply as Weightless-P utilises spectrally efficient narrowband operation and frequency hopping.

Ubiik giving live demos of Weightless-P hardware at Embedded World 2017

Ubiik has officially begun the first round of pre-orders for the Weightless-P starter kit. Be the first to deploy and test your own Weightless LPWA network. please visit - https://www.ubiik.com/dev-kit

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