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Huawei LiteOS, Simplifying the Development of LPWA Devices

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IoT OS is the Key to LPWA Devices

Low-cost Cloud hardware connectivity platform Wireless Device communication security Remote 5-10 years Management battery life \wedge

Device's Capabilities Required for LPWA Application

IoT Operating System

Huawei LiteOS, An IoT OS for Simplifying the Development of LPWA Devices



Microcontroller (MCU) | NB-IoT SoC











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Huawei LiteOS Flexibly Supports Different Development Scenarios



For LPWA Device Vendors:

Scenario 1 MCU based development (A + B + C)

Scenario 2 NB-loT SoC based development (A + C)

Scenario 3 SDK based development (B + C or C)

MCU Based Development Requires Full Stack Capability



- **Multi-platform support** \checkmark
- **Complete protocol stack** \checkmark
- Unified AT command \checkmark interfaces to communicate with various modules



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Native Support of Boudica SoC Lowers the Development Cost



- Support 3GPP R13/R14 standard
- > Full frequency coverage, 698MHz~2180MHz
- Low power consumption @ sleep (2.5uA)
- > ARM Cortex-M based processors @ 48MHz



Huawei LiteOS Accelerates the GTM of 3rd Party NB-IoT Chipsets



Reduce development efforts, Achieve fast GTM

Huawei LiteOS SDK Enables Existing Devices to Connect with IoT Platform Quickly



- ✓ Unified south interfaces for various modules
- Reduced efforts for both
 Telecom operators and
 Device Vendors



Simple Steps to Connect with OceanConnect IoT Platform Using Huawei LiteOS SDK



Huawei LiteOS Supports Fast Deployment of New Shared Bike's Locks



Huawei LiteOS Will Be Inside More LPWA Devices in 2018

Will be commercially shipped in 2018







Huawei LiteOS Jointly Builds Open Ecosystem with Partners



13 top MCU vendors | **25+** industry partners | **50+** development suites

Huawei LiteOS' Open-sourced Community Facilitates Developer's Projects



Thank You!