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<p>Synopsis</p> <p>Low power wide area networks are enabling new applications and services. At the same time cost reductions make LPWAN a competitive solution for many existing solutions. This report highlights the opportunities for LPWAN.</p>	<p style="text-align: center;">LPWAN Defining Factors</p>
<p>Publish Date: 2Q 19</p>	<p>Questions Addressed by this Report:</p> <ul style="list-style-type: none"> What is LPWAN and why is it a potential networking option for consumer IoT solutions? How does LPWAN compare to other wireless networking technologies used in the consumer market? Where are the opportunities for using LPWAN in consumer IoT markets and how are companies in those spaces using LPWAN today? How do we project LPWAN technology use to grow in consumer markets? Will it replace existing technologies or complement them?
<p>Contents</p>	<ul style="list-style-type: none"> Research Objectives Research Approach Companies Interviewed or Researched Executive Summary <ul style="list-style-type: none"> Defining Low Power Wide Area Networks (LPWAN) Core Features of LPWAN Technology LPWAN for Consumer IoT LPWAN for Consumer IoT and Industrial IoT Assessment of Leading LPWAN Technologies Key Findings: Technology Evaluation Key Findings: Business Models Key Findings: LPWAN Market Future Outlook Recommended Strategy to LPWAN Service Providers

Defining LPWAN for Consumer IoT

Low Power Wide Area Network (LPWAN): Defining Factors

What is LPWAN?

Range Comparison: LPWAN vs. LAN vs. PAN

Major LPWAN Technologies – A Quick Analogy

LPWAN Alliances and Standard Bodies

LPWAN Ecosystem (non-exhaustive examples)

LPWAN: Private vs. Public Options

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Evaluating LPWAN Technologies

Sigfox: Overview and Key Partners

Sigfox: Value Propositions and Weaknesses

Sigfox Advantage: Triple Resiliency Against Radio Jamming

Sigfox as Primary vs. Backup LPWAN Connectivity

LoRaWAN – Overview and Key Partners

LoRaWAN: Value Propositions and Weaknesses

LoRaWAN Technology and Network Architecture

WiFi 802.11ah HaLow – Overview and Partners

WiFi HaLow – Value Propositions and Weaknesses

Evolution Path of LTE-M, NB-IoT, and EC-GSM

LTE-M: Overview and Key Partners

LTE-M: Value Propositions and Weaknesses

NB-IoT: Overview & Partners

NB-IoT: Value Propositions and Weaknesses

LTE-M vs. NB-IOT

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LPWAN Applications for People/Pets, Homes/Buildings, and Cars

Case Study: LTE-M for Medical Wearables

Advantages of LTE-M for Medical Wearables

Smart Watch Adoption and Data Plans (Q1/19)

Importance of Feature When Purchasing Smart Watch (Q2/19)

Case Study: LoRaWAN-based ID Cards

Advantages of LoRaWAN for Personal Security

Interest in Personal Safety Solutions (Q2/18)

Case Study: Private LPWAN for Multi-Dwelling Unit (MDUs)

Advantages of Private LoRaWAN for MDUs

Bridging LoRaWAN with Legacy Devices in Homes/MDUs

Important Factors Influencing Home Renting/Purchase Decision (Q4/18)

Attitudes towards Homes with Smart Technology (Q4/18)

Case Study: Sigfox (Public LPWAN) for People, Homes, and Cars

Other Sigfox Use Cases for People, Pets, and Homes

Desired Items for Smart Tag Tracking Service (Q2/18)

Advantages of Sigfox for Consumer IoT Use Cases

Case Study: Tracking Shared Bikes via LPWAN

Case Study: Shared Economy - Parking Spots

Case Study: LPWAN for Connected Cars

Desired Capabilities of Vehicle Monitoring Service (Q2/18)

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Home Access and Controls for Consumers

	<p>Access Control Device Adoption (Q4/18)</p> <p>Access Control Devices: Ranking of Product Capabilities (Q4/18)</p> <p>Access Control Devices: Current Product Capabilities (Q4/18)</p> <p>Value of In-Home Delivery Services (Q4/18)</p> <p>Willingness to Pay for In-Home Delivery Services at Various Price (Q4/18)</p> <p>LPWAN Market Outlook: Growth and Trends</p> <p>LPWAN Market Outlook</p> <p>Sigfox: Market Presence and Growth</p> <p>LoRaWAN: Market Presence and Growth</p> <p>Senet: Public LoRaWAN Service Provider</p> <p>TTN – The Things Network</p> <p>NB-IoT and LTE-M: Market Presence</p> <p>LTE-M and NB-IOT: Growth</p> <p>T-Mobile Supports NB-IoT & LTE-M</p> <p>China Telecom Bets on NB-IoT</p> <p>Hybrid NB-IoT + LoRaWAN in China Unicom & China Tower</p> <p>Technology Comparison and Recommendation</p> <p>LPWAN Technology Comparison</p> <p>Recommendations to LPWAN Users</p>
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