

# BLUETOOTH® CORE SPECIFICATION 4.2

## QUICK REFERENCE GUIDE

Bluetooth 4.2 is an important update to the Bluetooth Core Specification delivering exciting new features and benefits for Bluetooth Smart technology. This will create significant advantages for developers and manufacturers, while providing a better user experience for their customers. Bluetooth 4.2 makes Bluetooth Smart even **smarter, faster and the ideal wireless technology for the Internet of Things (IoT).**

### NEW BENEFITS ASSOCIATED BLUETOOTH 4.2

#### 1) Enables the IoT

Advantages	Features	End User Examples
<b>Flexible Internet Connectivity Options</b>  Extend the reach of power-efficient devices to the Internet	<b>Low-power IP (IPv6/6LoWPAN)</b>  Available through the Internet Protocol Support Profile (IPSP)	A Bluetooth Smart sensor can access the Internet (send and receive messages) through a gateway device
	<b>Bluetooth Smart Internet gateways (GATT)</b>  Available early 2015 through the HTTP Proxy Service (HPS) & RESTful API white papers	

#### 2) Makes Bluetooth Smart Even Smarter

Advantages	Features	End User Examples
<b>Industry-leading Privacy</b> Keeps Bluetooth Smart devices from being tracked	<b>LE Privacy 1.2</b>	A Bluetooth Smart location tracker can only be followed by the owner or trusted group all while consuming less power
<b>More Power Efficient</b> Introduces refinements that help Bluetooth Smart devices save even more energy		
<b>Highly Secure</b> Features FIPS-compliant encryption ensuring confidential data stays that way	<b>LE Secure Connections</b>	A Bluetooth Smart lock or other smart home device provides industry standard security for added user confidence during device pairing

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### 3) Makes Bluetooth Smart Even Faster

Advantage	Feature	End User Example
<b>Data Throughput Increase</b> Up to 2.5x faster with a packet capacity increase of 10x vs. previous versions	<b>LE Data Length Extension</b>	Over-the-air firmware updates for a Bluetooth Smart device are up to 250% faster and more reliable

## GET MORE INFORMATION

For the latest Bluetooth 4.2 technical details, tools and other information including an FAQ and more, visit: <https://www.bluetooth.org/en-us/specification/adopted-specifications>