





communications by using a message relay approach and are inherently uncomplicated and inexpensive to deploy, as there are no requirements for a central router or computer. These attributes make Bluetooth mesh networking ideal for various IoT applications and environments, such as Smart Home, asset tracking, industrial controls, retail, airports, offices, and more. Devices such as tablets and mobile phones that do not include a native mesh stack can still access mesh networks through proxy nodes, using a special protocol defined by the mesh networking specifications, making backward-compatibility a non-issue.

### **Mesh Security**

At the core of mesh networking is a robust array of mandatory security mechanisms designed to provide a defense against network intrusions and passive eavesdropping. Analysis of security features will be a significant focus of mesh-related hardware and software development projects. The advanced capture engines and sophisticated application software used by Ellisys Explorer and Tracker analyzers are ideally suited to resolve and demystify the variety of security features installed on mesh networks.

### **Availability and Information**

The added feature support for mesh networks is provided as a free software update to existing Ellisys customers and is provided at no additional cost to new customers. Existing users can update their current Ellisys application software through standard means from within the application. For more information, please contact Ellisys at [sales@ellisys.com](mailto:sales@ellisys.com) or via the following form: <https://www.ellisys.com/sales/contact.php>

### **Innovative Bluetooth Test and Analysis Solutions**

The Explorer and Tracker all-in-one Bluetooth protocol analysis solutions are designed to support integrated, concurrent capture and analysis of a wide variety of wired and wireless communications. These products are deployed in the labs of every major Bluetooth developer worldwide. Ellisys analyzers include passive, whole-band capture of all Bluetooth channels, a wideband approach pioneered by Ellisys engineers. Various purchase configurations are offered to meet the project requirements of a broad array of developers, test houses, and system designers.

Ellisys analyzers support Bluetooth Classic (BR/EDR) and Bluetooth LE, Wi-Fi, and a wide variety of wired interfaces, including logic signals, host controller interface (HCI) protocols (USB, UART, and SPI), Audio I2S, various standard interface buses, and WCI-2, all visualized over the Ellisys Bluetooth analyzer software suite. Ellisys solutions provide the convenience and accuracy of single-platform integration with unequalled precision timing synchronization of and between supported wireless technologies and wired interfaces.

Ellisys also provides the Bluetooth Qualifier™ (EBQ) system, a Bluetooth SIG-approved, standards-based, test and qualification system for Bluetooth link layer and HCI. Bluetooth mesh networking utilizes several advanced Bluetooth 5 features, such as Advertising Extensions (Adv Ext), which have been extensively tested and validated by chip manufacturers worldwide, using the EBQ.

### **About Ellisys**

Ellisys is a leading worldwide supplier of advanced protocol test solutions for Bluetooth®, Wi-Fi®, USB 2.0, SuperSpeed USB 3.1, USB Power Delivery, USB Type-C™, DisplayPort™, and Thunderbolt™ technologies. More information is available on [www.ellisys.com](http://www.ellisys.com).



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World Class Protocol Test Solutions for Bluetooth, USB, and Wi-Fi

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