



devices, and a general desire to accommodate an increase in data volumes. The High Data Throughout (HDT) project is expected to expand Bluetooth Low Energy from its current maximum rate of 2 Mbps to 8 Mbps and possibly beyond. Operation in unlicensed higher frequency bands, including 5 GHz and 6 GHz, is expected to provide the bandwidth to accommodate faster speeds, improve and expand audio applications for Bluetooth technology, and optimize the overall Bluetooth experience in congested areas. Channel Sounding greatly improves upon the accuracy of the current-generation RSSI-based Bluetooth distance measurement and creates market opportunities for Bluetooth technology to expand its footprint in a variety of applications for location services. More information is available from the [Bluetooth SIG](#).

Features and Availability

Pioneered by Ellisys more than 15 years ago with the introduction of the industry's first wideband Bluetooth test equipment, the digital radio approach enables Ellisys to update its industry-leading products to support new specifications with software updates. With this ability to manage evolutions in Bluetooth technology with software updates, coupled with a policy to provide these updates at no cost, Ellisys customers enjoy a high degree of protection on their investment and an incredible value over the years. A modular, flexible hardware architecture allows Ellisys to push investment protection even further with upgrades that enable new hardware capabilities, such as the support Bluetooth operation in the 5 GHz and 6 GHz bands.

Support for Channel Sounding has been available for several months on the Ellisys Bluetooth® Vanguard protocol analyzer as a no-cost software update. This update includes full support of carrier and synchronization patterns for Channel Sounding procedures. The Ellisys Bluetooth® Qualifier (EBQ) test system also fully supports Channel Sounding validation with more than two hundred additional dedicated tests, for a total of more than 2,500 tests. Support for Higher Bands is available on existing Bluetooth® Vanguard units with a hardware upgrade and on new units as an option. Analyzer and EBQ support for High Data Throughput is emerging and will be made available to a wider early adopter segment with a no-cost software update.

This development for Channel Sounding and other next generation features is based on working drafts of potential Bluetooth Specifications that are subject to change. Ellisys is closely tracking all changes and is updating its implementation accordingly to offer early adopters the needed test capabilities for their development and interoperability testing.

Ellisys Protocol Test and Analysis Solutions

Ellisys test and analysis solutions are used by a vast majority of Bluetooth developers worldwide, including radio and controller manufacturers, IP companies, software stack creators, makers of consumer electronics, medical device makers, cyber security services, automotive companies, test labs, and others. Solutions include the Ellisys Bluetooth® Qualifier (EBQ) tester platform, and several protocol analyzer systems supporting both Low Energy and Classic (BR/EDR) Bluetooth radio types. EBQ is a comprehensive qualification, validation, and development system for Bluetooth technology, targeting the behaviors of the lower communications layers, including implementation of more than two thousand test cases defined by the Bluetooth Special Interest Group (SIG). Ellisys protocol analyzers include the ubiquitous Tracker™, Explorer™, and Vanguard™ systems, each offering deep features sets designed to meet a variety of customer requirements.



About Ellisys

Ellisys, a member of the [Symbiosys Alliance](#), is a leading worldwide supplier of advanced protocol test solutions for Bluetooth®, Wi-Fi®, Ultra-Wideband, USB 2.0, SuperSpeed USB 3.2, USB Power Delivery, USB Type-C®, DisplayPort™, and Thunderbolt™ technologies. More information is available on www.ellisys.com.

Ellisys ▪ chemin du Grand-Puits 38 ▪ CH-1217 Meyrin Geneva ▪ Switzerland
World Class Protocol Test Solutions

Ellisys, the Ellisys logo, Better Analysis, and Bluetooth Tracker, Bluetooth Explorer, and Bluetooth Vanguard are trademarks of Ellisys, and may be registered in some jurisdictions. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. Wi-Fi® and the Wi-Fi Alliance logo are trademarks of Wi-Fi Alliance. Other trademarks and trade names are those of their respective owners.

#