

LXI Device Specification 2016, Revision 1.5

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In November, the LXI Consortium published the [LXI Device Specification 2016, revision 1.5](#). In this new release, the specification is more structured and open for future development. In simplifying and reorganizing the main specification document the consortium has provided a clear path for the addition of new features, such as improved messaging or cyber security.

The changes are minor in terms of technical content. VXI-11 is no longer a mandated protocol, it is replaced by implementations of mDNS and HiSLIP, which support Internet Protocol version 6 (IPv6). IPv6 was developed to deal with the long-anticipated problem of IPv4 address exhaustion. In the LXI Device Specification 2016, Revision 1.5, VXI-11 is now an optional "Extended Function." Vendors implementing VXI-11 are still required to implement the protocol in the same way as earlier versions of the specification. In other areas the standard has been simplified by the removal of rules and recommendations related to mechanical aspects of LXI Devices. Wherever clarifications to Version 1.4 of the standard have been published, these have now been included in the specification.

The LXI Consortium has defined a transitional period being able to certify LXI V1.4 conformant devices until November 2017.

The LXI Reference Design supports the LXI standard Version 1.5 and has been enhanced. In the Reference Design, version 1.10 CMake is used as a toolchain, which makes it easier for LXI vendors to switch from their platform to the Reference Design. The LXI Reference Design implements the following Extended Functions: IPv6, HiSLIP, Event Messaging, and Event Logging.

The LXI Technical Committee and its working groups continue their work identifying future enhancements to the standard. From this work, concrete extensions to the specifications will be proposed, and, if approved, they will ultimately be incorporated into the LXI Reference Design.

About LXI Consortium, Inc.

Use the connection you already know!

The LXI Consortium (www.lxistandard.org) is a standard-setting organization in the Test & Measurement industry that develops, maintains and promotes the open LXI Standard. LXI is the robust system backbone for today and tomorrow, and it lets you easily connect the system you need: big or small, local or remote. Thousands of instruments have passed LXI conformance testing, and every one of them lets you use the connection you already know.

With 50 of the top test & measurement (T&M) companies sponsoring and developing this technology, and more than 3,640 products in over 305 different product families, LXI (LAN

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