

Radio Equipment Directive (RED) Updates

May 2017

OVERVIEW

The EU released and enacted new legislation named the NLF (New Legislative Framework). This legislation required new directives to be drafted and released, including the Radio Equipment Directive or RED.

The directives communicate requirements from a broad legislative standpoint; they do not outline the technical requirements for each product. The limits and requirements are specified in individual standards (ETSI EN 300 328, for example).

Harmonized standards for each directive are listed in each directive's Official Journal (OJ); when used, they allow a presumption of conformity to the requirements. Put simply, if you use these harmonised standards, your product is compliant in all member countries of the EU.

Each standard has a committee which is required to address the new legislation introduced into the rewritten directives and how it affects their technical requirements. When the OJ was published for the Radio Equipment Directive, many of these committees had not finished updating the technical requirements conforming to the new directive requirements. As a result, only a few harmonized standards were included in the OJ. Over the past few months, additional standards (with updated requirements) have been added.

WHAT DOES THIS MEAN FOR LAIRD PRODUCTS?

All products must be compliant to the latest requirements of RED by June 13th, 2017. Products not tested to a harmonized standard published in the RED's Official Journal require review and *type examination* by a Notified Body.

EN 300 328 v2.1.1

ETSI EN 300 328 (v2.1.1) was recently published in the RED's OJ. This is the main emissions standard for all 2.4 GHz modules using wide-band modulation including Wi-Fi and Bluetooth/Bluetooth Low Energy radios. As a result, this is now a harmonized standard and testing can be performed to these requirements without a Notified Body; this allows for quicker approvals. Once each product is successfully tested, the DoC (Declaration of Conformity) that verifies the harmonised standards to which it complies, can be created.

The specific changes in the EN 300 328 standard which impact testing include the following:

- A change in limits for Adaptivity and TX/RX Spurious emissions
- The addition of RX sensitivity/blocking measurements – Not previously required for many products

EN 301 893

ETSI 301 893 applies to 5 GHz band Wi-Fi radios. There is currently no listed harmonised standard in the OJ for this, so these radio types are required to go through a NB *type examination*; testing must be performed to the latest available version of the standards. Depending on any changes that occur between the draft version and the final version of the standard, additional testing may be required after the June 13th deadline. ***This delay is acceptable to the EU.***

EN 301 489-1/17

Additional testing is also necessary for ETSI EN 301 489-1 and ETSI EN 301 489-17 because radiated RF immunity requirements now extend to 6 GHz. The updated versions of these standards have been published and are expected to enter the RED's OJ in May.

MODULE UPDATE TIMELINE

(Current as of 02 May 2017)

Below is a grouping by month for the modules. Each grouping represents an approximate timeline for the completion of testing and the availability of updated DoC's. All dates are subject to change but Laird is committed to updating each module's documentation prior to the June 13th deadline to avoid any delayed product shipments.

Early May 2017
BT900-SA, BT900-SC
BT900-US
BT800, BT800-ST
BT820
BT830-SA, BT830-ST
TiWi-uB1
Sable-X

Mid-May 2017
WB40NBT
SSD30AG/MSD30AG
SSD40NBT/MSD40NBT
Sterling-LWB5
BL652-SA, BL652-SC
BL600-SA, BL600-SC, BL600-ST, BL620-SA, BL620-SC, BL620-ST
BL620-US
TiWi-BLE
TiWi-uB2
Sterling-LWB

Late May 2017
TiWi5
SSD50NBT/M2SD50NBT/M2US50NBT
MSD50NBT
WB50NBT
SSD40L
PE15N
SSD45N/MSD45N
WB45NBT
BT730-SA, BT730-SC
BT740-SA, BT740-SC
BTM411
BTM431
BTM441, BTM443

Early June 2017
BTM511
Proflex
MGE
MGU
RM186
RM024-P10, RM024-S10
BRBLU03-010A0
BISMS02BI
TRBLU23-00200
TiW-C-W

Please contact your Laird representative with any questions regarding the products that are listed.