

TRANSITION GUIDE

Update of EN 300 328 Standard for Bluetooth, Wi-Fi and other 2.4GHz Products

What's changing?

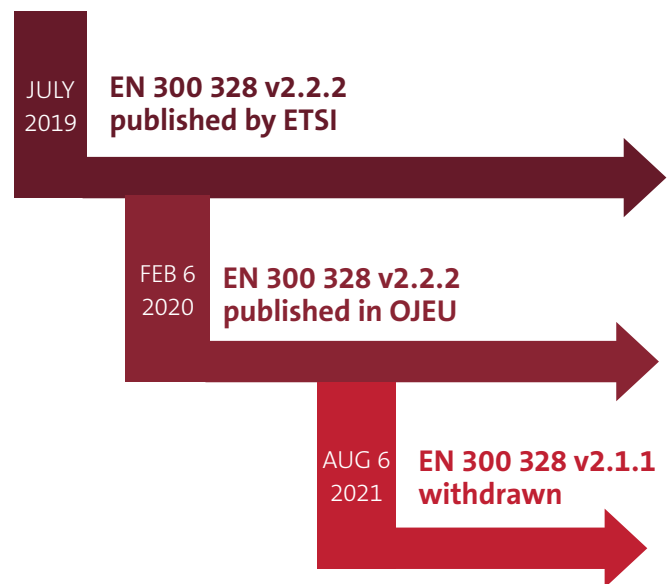
In August 2021, the new version of EN 300 328 will come into effect as the presumption of conformity for “Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band.” This standard is very important for manufacturers of Bluetooth, ZigBee, Wi-Fi and other 2.4GHz products sold in the European Union (EU). After August 5, 2021, previous versions of the standard may no longer be used as presumption of conformity.

Why should I care?

In order to continue to place a product on the market in the EU, manufacturers, distributors and importers are required to ensure their electrical/electronic products with radio transmitters and/or receivers declare compliance with the Radio Equipment Directive 2014/53/EU. Any changes to either the products or the requirements of the directive shall be evaluated and compliance statements updated where necessary. Failure to continuously ensure compliance may result in a variety of enforcement penalties by the member states.

In many cases, as part of the declaration of compliance, a presumption of conformity may be achieved by evaluating a product to a harmonised standard published in the Official Journal of the European Union (OJEU) under the directive. EN 300 328 v2.2.2. was published in the OJEU on February 6, 2020. On August 6, 2021, the previous version will be withdrawn and no longer act as a presumption of conformity. Therefore, manufacturers who have previously used EN 300 328 as their presumption of conformity will need to evaluate the changes as they relate to their products and update their technical construction file accordingly.

What are the key timelines?



What are the differences between V2.1.1. and V2.2.2?

EN 300 328 V2.1.1		EN 300 328 V2.2.2
The minimum performance criterion shall be a PER less than or equal to 10%, or the manufacturer could perform an alternative	Receiver Blocking Performance Criteria (Clause 4.3.1.12.3)	For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10%. For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.
Depending on class blocking signal of -47dBm or -53dBm	Receiver Blocking Limits (Clause 4.3.1.12.4)	A minimum blocking signal requirement is now defined for all three classes of receiver with an increase to -34 dBm.
The wanted signal power level was set at minimum power +6dB	Receiver Blocking Limits (Clause 4.3.1.12.4)	The wanted signal power level is set using the occupied bandwidth (OCBW) of the DUT
Transmitter limits for spurious emissions <ul style="list-style-type: none"> • 470 MHz to 862 MHz at -54dBm • 862 MHz to 1 GHz at -36dBm 	Transmitter unwanted emissions in the spurious domain - Limits (Clause 4.3.1.10.3)	Transmitter limits for spurious emissions <ul style="list-style-type: none"> • 470 MHz to 694 MHz at -54dBm • 694 MHz to 1 GHz at -36dBm The protected frequency band 470 MHz to 862 MHz has been reduced to 470 MHz to 694 MHz

What should I do next?

For more information, we are pleased to make available our online seminar:

Upcoming Changes for the Most Common RE-Directive Radio Standards.

[Watch now >](#)

Start your FREE Technical Documentation Health Check

We are also pleased to offer a free Technical Documentation Health Check to provide you with valuable feedback and next steps.

Learn more about our Technical Documentation Health Check

One of our experts will perform a high-level review of your technical construction file for a product you are considering upgrading from EN 300 328 v2.1.1. to EN 300 328 v2.2.2. The review will cover:

- Declaration of conformity
- Standards applied for the product including versions, relating to Radio Equipment Directive
- High level review of the testing performed as contained in any included test reports

At the conclusion of the review, we will provide written feedback and any findings we consider material to the product compliance to the Radio Equipment Directive¹.

1. Due to the summary nature of the review, the findings provided shall not be taken as a statement of product compliance.

To access this offer, contact us at [UL.com/contact-us](https://www.ul.com/contact-us)



Empowering Trust®