

## EU STANDARDS UPDATES

### Laird MSD30AG/SSD30AG EN 300 328 v1.8.1 Updates

EN 300 328 v.1.8.1, which officially goes into effect on January 2015, includes new mandatory spectrum sharing requirements with the goal of reducing interference within the 2.4 GHz band. The following are the two main ways to achieve this:

- By incorporating adaptivity functionality such as DAA (Detect and Avoid), CCA (Clear Channel Assessment), and LBT (Listen Before Talk).
- By reducing the radio's power, duty cycle, or both

The MSD30AG and SSD30AG have been successfully tested to the new standard. See the following for additional information:

- [EN 300 328 v1.8.1 test report](#)
- [Laird Declaration of Conformity – MSD30AG](#)
- [Laird Declaration of Conformity – SSD30AG](#)

### Laird 40NBT Series EN 300 328 v1.8.1 Updates

EN 300 328 v.1.8.1, which officially goes into effect on January 2015, includes new mandatory spectrum sharing requirements with the goal of reducing interference within the 2.4 GHz band. The following are the two main ways to achieve this:

- By incorporating adaptivity functionality such as DAA (Detect and Avoid), CCA (Clear Channel Assessment), and LBT (Listen Before Talk).
- By reducing the radio's power, duty cycle, or both

The Laird 40NBT series radios (WB40NBT, MSD40NBT, and SSD40NBT) have successfully tested to the adaptivity requirements of the new standard. See the following for additional information:

- [Laird Declaration of Conformity - WB40NBT](#)
  - [Laird Declaration of Conformity – MSD40NBT](#)
  - [Laird Declaration of Conformity – SSD40NBT](#)
  - Test Lab [Declaration of Conformity](#) and [Test Report](#) for adaptivity requirements
- Note:** Testing for the MSD40NBT applies to both the SSD40NBT and the WB40NBT.

These radios will have the full EN 300 328 v1.8.1 in place before the end of 2014.

### Laird WB45NBT EN 300 328 v1.8.1 Updates

EN 300 328 v.1.8.1, which officially goes into effect on January 2015, includes new mandatory spectrum sharing requirements with the goal of reducing interference within the 2.4 GHz band. The following are the two main ways to achieve this:

- By incorporating adaptivity functionality such as DAA (Detect and Avoid), CCA (Clear Channel Assessment), and LBT (Listen Before Talk).
- By reducing the radio's power, duty cycle, or both

The WB45NBT has been successfully tested to the new standard. See the following for additional information:

- [EN 300 328 v1.8.1 test report - WB45NBT](#)
- [Laird Declaration of Conformity](#)

## Laird MSD45N/SSD45N EN 300 328 v1.8.1 Updates

EN 300 328 v.1.8.1, which officially goes into effect on January 2015, includes new mandatory spectrum sharing requirements with the goal of reducing interference within the 2.4 GHz band. The following are the two main ways to achieve this:

- By incorporating adaptivity functionality such as DAA (Detect and Avoid), CCA (Clear Channel Assessment), and LBT (Listen Before Talk).
- By reducing the radio's power, duty cycle, or both

The MSD45N has been successfully tested to the new standard. See the following for additional information:

- [EN 300 328 v1.8.1 test report – MSD45N](#)
- [EN 300 328 v1.8.1 test report – SSD45N](#)
- [Laird Declaration of Conformity – MSD45N](#)
- [Laird Declaration of Conformity – SSD45N](#)

## Laird 10- and 20-Series EN 300 328 v1.8.1 Updates

EN 300 328 v.1.8.1, which officially goes into effect on January 2015, includes new mandatory spectrum sharing requirements with the goal of reducing interference within the 2.4 GHz band. The following are the two main ways to achieve this:

- By incorporating adaptivity functionality such as DAA (Detect and Avoid), CCA (Clear Channel Assessment), and LBT (Listen Before Talk).
- By reducing the radio's power, duty cycle, or both

The 10-series and 20-series radios rely on the Broadcom BCM4318 chip. Due to this, these radios have issues with the CCA aspects of spectrum sharing. Although we have received a Declaration of Conformity for the BCM4318, this is the extent of the assistance we have received from Broadcom. Despite repeated requests to Broadcom over the past 12 months, we have not received test reports that support this compliance or firmware updates to fix the CCA issues.

Given the above, our customers with these products currently have the following options:

- Accept [Broadcom's Declaration of Conformity for the BCM4318](#) chip
- Lower the power level of the applicable radios to less than 10 mW (E.I.R.P.)
- Discontinue the sale of these radios to countries in which this ETSI standard applies

## Laird PE15N, EC15N, and EC25N EN 300 328 v1.8.1 Updates

EN 300 328 v.1.8.1, which officially goes into effect on January 2015, includes new mandatory spectrum sharing requirements with the goal of reducing interference within the 2.4 GHz band. The following are the two main ways to achieve this:

- By incorporating adaptivity functionality such as DAA (Detect and Avoid), CCA (Clear Channel Assessment), and LBT (Listen Before Talk).
- By reducing the radio's power, duty cycle, or both

The 15-series and 25-series radios rely on the Broadcom BCM4322 chip. Due to this, these radios have issues with the CCA aspects of spectrum sharing. Although we have received an Declaration of Conformity for the BCM4322, this is the extent of the assistance we have received from Broadcom. Despite repeated requests to Broadcom over the past 12 months, we have not received test reports that support this compliance or firmware updates to fix the CCA issues.

Given the above, our customers with these products currently have the following options:

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- Accept [Broadcom's Declaration of Conformity for the BCM4322](#) chip
- Lower the power level of the applicable radios to less than 10 mW (E.I.R.P.)
- Turn off the N-rates
- Discontinue the sale of these radios to countries in which this ETSI standard applies

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**Note:** The NDIS6 driver for the PE15N adheres to the EN 300 328 v1.8.1 requirements. Upgrading to the NDIS6 driver is an additional option for customer currently running Windows 7.

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