

## Class II Permissive Change Description

Date: January 6, 2019

Federal Communications Commission  
7435 Oakland Mills Road  
Columbia MD 21046

Subject: Request for Class II Permissive Change  
FCC ID: UIDW31  
Original Grant Date: July 26, 2018

To Whom It May Concern:

Pursuant to CFR 2.1043, ARRIS hereby requests a Class II Permissive Change for the following product modifications:

1. Adding U-NII-2A and U-NII-2C bands (5250~5350 MHz, 5470~5725 MHz)
2. Adding operation in the TDWR band
3. Adding 802.11ax mode for WLAN 2.4GHz and WLAN 5GHz
4. Adding 160MHz channel width
5. Adding "MCS 0-11, 1024QAM" data rate and modulation for WLAN 2.4GHz 802.11ac
6. Adding power adapter model: NBS42D120350VU
7. Adding the Master (Extender), Bridge (Client without radar detection) and Client without radar detection modes for WLAN 5GHz band 3 and band 4 (5470~5725 MHz, 5725~5850MHz)

The above changes are enabled by Firmware programmed in the factory. There is no any software that can be modified by end-user.

This product is an extension of original report under Sporton project number: 842742

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ARRIS also hereby requests the following changes to the equipment listing and grant for "UIDW31":

1. Add a second model name "W30", which is a simple marketing variation that changes the colors of the product housing
2. To provide further clarity, change the equipment description to "Wireless Router" from "W31".

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In addition to the changes listed above, ARRIS is providing notice of the following Class I Modifications. Lab testing has been performed to verify that the following changes do not impact EMC characteristics.

1. Updating the Wi-Fi chip (BCM43684KRFBG) version to B1 from A1. The differences are:
  - (a) No functional RF changes versus A1
  - (b) MAC/PHY related bug fixes and optimizations
  - (c) Power and yield optimizations
2. Changing the internal structure of plastic housing
3. Changing the housing color to black from white
4. Depopulating the USB port



If you should have any questions regarding these modification, please don't hesitate to contact us.  
Thank you!

Sincerely,

Applicant : ARRIS

Address : 3871 Lakefield Drive, Suwanee, Georgia, 30024 USA

Signature :

A handwritten signature in black ink, appearing to read "Thomas Kelleher", is written over a horizontal line.

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