# Quick Start Guide for ETSI Adaptivity and Carrier Sensing Test ver. 1.0.1

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# **Release History**

1.0.0	2014/09/26	1.	Add documentation for ADAPTIVITY_VERSION 7.0, 7.1, 7.2
1.0.1	2018/09/28	2.	Add periodic idle time declaration.



#### 1. Introduction

Realtek Wi-Fi solutions support both ETSI Adaptivity test and Carrier Sense test. This document describes ways to configure Wi-Fi driver for the corresponding test and simple debug methods.

\* The test item "periodic idle time" can be skipped by a declaration document from chip vendor. Please get the document from chip vendor for Certification Lab reference **Before** starting test.

\* According to the test requirement, the Wi-Fi performance will drop at interfering environment. Please enable this function only when you really need it.

#### 2. Driver configuration

There are 2 configuration arguments in Makefile to control:

#### I CONFIG\_RTW\_ADAPTIVITY\_EN

n disable

Disable adaptivity function

n enable

Enable adaptivity function

#### I CONFIG\_RTW\_ADAPTIVITY\_MODE

n normal

For ETSI adaptivity test

n carrier\_sense

For carrier sense test

## 3. Driver configuration – disable (default setting)

To disable Realtek adaptivity function (also the default setting of these 2 configuration arguments):

CONFIG\_RTW\_ADAPTIVITY\_EN = disable CONFIG\_RTW\_ADAPTIVITY\_MODE = normal

Check the configuration arguments through driver's proc interface at runtime:

# cat /proc/net/rtl8723bs/wlan0/odm/adaptivity

ADAPTIVITY\_VERSION 7.2

RTW\_ADAPTIVITY\_EN\_DISABLE

RTW\_ADAPTIVITY\_MODE\_NORMAL

RTW\_ADAPTIVITY\_DML\_DISABLE

TH\_L2H\_ini TH\_EDCCA\_HL\_diff IGI\_Base ForceEDCCA AdapEn\_RSSI IGI\_LowerBound

0xf5 7 0x32 0 20 0

### 4. Driver configuration – enable for ETSI Adaptivity test

If your product needs to fit the requirement of ETSI Adaptivity test:

CONFIG\_RTW\_ADAPTIVITY\_EN = enable

CONFIG\_RTW\_ADAPTIVITY\_MODE = normal

Check the configuration arguments through driver's proc interface at runtime:

# cat /proc/net/rtl8723bs/wlan0/odm/adaptivity
ADAPTIVITY\_VERSION 7.1

RTW\_ADAPTIVITY\_EN\_ENABLE

RTW\_ADAPTIVITY\_MODE\_NORMAL

RTW\_ADAPTIVITY\_DML\_DISABLE

TH\_L2H\_ini TH\_EDCCA\_HL\_diff IGI\_Base ForceEDCCA AdapEn\_RSSI IGI\_LowerBound

0xf5 7 0x32 0 20 0

#### 5. Driver configuration – enable for Carrier Sense test

If your product needs to fit the requirement of Carrier Sense test:

CONFIG\_RTW\_ADAPTIVITY\_EN = enable

CONFIG\_RTW\_ADAPTIVITY\_MODE = carrier\_sense

Check the configuration arguments through driver's proc interface at runtime:

# cat /proc/net/rtl8723bs/wlan0/odm/adaptivity

ADAPTIVITY\_VERSION 7.1

RTW\_ADAPTIVITY\_EN\_ENABLE

RTW\_ADAPTIVITY\_MODE\_CARRIER\_SENSE

RTW\_ADAPTIVITY\_DML\_DISABLE

 $TH\_L2H\_ini\ TH\_EDCCA\_HL\_diff\ IGI\_Base\ ForceEDCCA\ AdapEn\_RSSI\ IGI\_LowerBound$ 

0xf5 7 0x32 0 20 0

