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:

CONFIG_RTW_ADAPTIVITY_EN

disable

Disable adaptivity function

enable

Enable adaptivity function

• CONFIG_RTW_ADAPTIVITY_MODE

normal

For ETSI adaptivity test

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/rt18723bs/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

