Wlan command usage

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Document Revision History

Revision	Date	Author	Description

Table of Contents

Notice

1. Ssid value should be set again, after wireless commands are executed;

2. Basic configuration info should be written into the file RT2684AP.dat under the directory of /usr/etc/Wireless/RT2860AP/ before the driver is activated.

(1) In the first line, only the key word Default is written

(2) BssidNum should be set to 4

(3) For auto channel selection, set AutoChannelSelect=1 or AutoChannelSelect=0.

(4) Other configurations are set by cmd

1 wlanphxcmd up Command

【COMMAND PURPOSE】this command activates WLAN interface

【COMMAND SYNTAX】**wlanphxcmd up -i {ssidindex}**

【 DESCRIPTION 】 this command initializes the WLAN interface during the system bootstrap process. If the first WLAN interface is named ra0, this command works the same routine as ‘ifconfig ra0 up’.

【PRECONDITION】None

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index	[optional]

【NOTICE】-i option must be followed by virtual interface number

【EXAMPLE】 wlanphxcmd up -i 0

2 wlanphxcmd down Command

【COMMAND PURPOSE】this command deactivates the WLAN interface

【COMMAND SYNTAX】**wlanphxcmd down -i {ssidindex}**

【DESCRIPTION】this command stops the WLAN interface

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index	[optional]

【NOTICE】 -i option most be followed by virtual interface number

【EXAMPLE】wlanphxcmd down -i 0

3 wlanphxcmd cmdver display Command

【COMMAND PURPOSE】this command displays WLANPHXCMD version info

【COMMAND SYNTAX】**wlanphxcmd cmdver display**

【DESCRIPTION】this command displays WLANPHXCMD version info

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none.(related to specific product)

【EXAMPLE】

4 wlanphxcmd driverver display Command

【COMMAND PURPOSE】this command displays WLAN driver version info

【COMMAND SYNTAX】**wlanphxcmd driverver display**

【DESCRIPTION】this command displays WLAN driver version info

【PRECONDITION】none

【PARAMETERS】none.(Related to specific product)

【NOTICE】none

【EXAMPLE】

【COMMAND PURPOSE】this command displays the WLAN chipset firmware version info

【COMMAND SYNTAX】**wlanphxcmd firmwarever display**

【DESCRIPTION】this command displays the WLAN chipset firmware version info

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none. (Related to specific product)

【EXAMPLE】

5 wlanphxcmd mode set Command

【COMMAND PURPOSE】this command sets the wirless mode for WLAN interface

【COMMAND SYNTAX】**wlanphxcmd mode set {***mode***}**

【DESCRIPTION】SIX wireless modes are supported

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
mode	bonly，setting the wireless mode to IEEE 802.11b-Only; gonly，setting the wireless mode to IEEE 802.11g-Only; mixed，setting the wireless mode to IEEE 802.11b/g mixed。 nonly，setting the wireless mode to IEEE 802.11n-Only; gnmixed，setting the wireless mode to IEEE 802.11g/n mixed; bgnmixed，setting the wireless mode to IEEE 802.11b/g/n mixed	[optional]

【NOTICE】

The WLAN basic rate is set, after the wireless mode command is applied. The respective values for each are listed as follows:
wlanphxcmd rateset set 15 : in N-only mode, mixed mode and B/G/N-mixed mode
wlanphxcmd rateset set 3 : in B-only mode
wlanphxcmd rateset set 351: in G-only mode, and G/N-mixed node

【EXAMPLE】

```
# wlanphxcmd mode set nonly /*setting the wireless mode to n-Only*/
```

6 wlanphxcmd mode display Command

【COMMAND PURPOSE】this command sets the wireless mode for WLAN interface

【COMMAND SYNTAX】**wlanphxcmd mode display**

【DESCRIPTION】SIX wireless modes are supported: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n,b/g-Mixed Mode, g/n-Mixed Mode, b/g/n-Mixed Mode

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none

【EXAMPLE】

7 wlanphxcmd rate set Command

【COMMAND PURPOSE】this command sets the WLAN data transmission rate

【COMMAND SYNTAX】**wlanphxcmd rate set {***rate value***}**

【DESCRIPTION】this command sets the WLAN data transmission rate according to the given parameter

【PRECONDITION】the data transmission rate is relative to mcs parameter in IEEE 802.11n mode

【PARAMETERS】

Parameter	Description	Notice
rate value	Data rate When CPE works in 802.11b mode, following data rates are supported:1, 2, 5.5, 11Mbps; When CPE Works in 802.11g mode, following data rates are supported: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54Mbps.	[optional]

【NOTICE】the routine of this command is dependent on the wireless mode

【EXAMPLE】

```
# wlanphxcmd rate set 11 /*setting the data rate to 11Mbps*/
```

8 wlanphxcmd rate display Command

【COMMAND PURPOSE】this command displays the WLAN data rate

【COMMAND SYNTAX】**wlanphxcmd rate display**

【DESCRIPTION】this command displays the WLAN data rate

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none

【EXAMPLE】

9 wlanphxcmd rateset set Command

【COMMAND PURPOSE】this command set the WLAN basic data rate

【COMMAND SYNTAX】 **wlanphxcmd rateset set {rate value}**

【DESCRIPTION】this command set the WLAN basic data rate according to the given parameter

【PRECONDITION】none

【PARAMETERS】

【NOTICE】none

【EXAMPLE】

NOTE: In default mode the data rate is adjusted automatically, and the above mentioned 3 commands are not necessary.

10 wlanphxcmd channel set Command

【COMMAND PURPOSE】this command set the WLAN channel

【COMMAND SYNTAX】**wlanphxcmd channel set {***channel value***}**

【DESCRIPTION】this command set the WLAN channel according the given parameters

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
channel value	Wireless Channel Wireless channel settings differs according to different country code For 2.4G spectrum device and 802.11b/g mode, possible channels are 1 – 14.	[optional]

【NOTICE】

1. Possible channels differ from country to country(eg: China and European countries are 1-13, North American Countries 1-11, Japan 1-14)

2. When the channel is automatically selected, this command would be executed. However the configuration file RT2860.dat for WLAN driver should be put into the directory of usr/etc/Wireless/RT2860AP. The detailed procedures are listed as follows:

(1) in first line the key word 'Default' is written

(2) when automatic channel selection is enabled AutoChannelSelect=1 should be written in the next line, otherwise AutoChannelSelect=0 is written.

(3) deactivate all the WLAN interfaces with 'wlanphxcmd down' command

(4) activate the selected WLAN interface with 'wlanphxcmd up' command

(5) adding all the activated WLAN interfaces into bridge 'br0'

(6) when automatic channel selection is not enabled the following command should be executed: wlanphxcmd channel set xxx

(7) set all the wireless parameters with cmd again

【EXAMPLE】

wlanphxcmd channel set 11 /*setting the wireless channel to 11*/

11 wlanphxcmd channel display Command

【COMMAND PURPOSE】this command displays the wireless channel for WLAN interface

【COMMAND SYNTAX】**wlanphxcmd channel display**

【DESCRIPTION】this command displays the wireless channel for WLAN interface

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】Possible channels differ from country to country(eg: China and European countries are 1-13, North American Countries 1-11, Japan 1-14)

【EXAMPLE】

12 wlanphxcmd txpwr set Command

【COMMAND PURPOSE】this command configures the WLAN RF power

【COMMAND SYNTAX】**wlanphxcmd txpwr set {*-p value*}**

【DESCRIPTION】WLAN channel is adjusted according to different unit

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
-p value	Range: 1~100	[optional]

【NOTICE】

【EXAMPLE】

```
# wlanphxcmd txpwr set -p 10
```

13 wlanphxcmd phytype display Command

【COMMAND PURPOSE】this command displays the physical wireless mode

【COMMAND SYNTAX】**wlanphxcmd phytype display**

【DESCRIPTION】physical wireless mode includes 802.11b, 802.11g, 802.11n, which should be displayed by calling this function

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none

【EXAMPLE】

```
# wlanphxcmd phytype display
# 2(g)
```

14 wlanphxcmd region set Command

【COMMAND PURPOSE】This command sets the respective country code

【COMMAND SYNTAX】**wlanphxcmd phytype set {region value}**

【DESCRIPTION】This command sets the respective country code

【PRECONDITION】none

【PARAMETERS】the country code is represented by 2 capitalized characters(eg: China is represented by CN, TAIWAN: TW), the definition of which can be found on the following website:

http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/list-en1.html#sz

【NOTICE】none

【EXAMPLE】

wlanphxcmd region set CN

15 wlanphxcmd bssid display Command

【COMMAND PURPOSE】this command displays the wireless BSSID value

【COMMAND SYNTAX】**wlanphxcmd bssid display [–i** *ssidindex***]**

【DESCRIPTION】BSSID value can be fetched by executing this command. When the BSSID index is not given, all BSSIDs are displayed.

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index	[optional]

【NOTICE】when –i option is not added，the operation is done to the first SSID

【EXAMPLE】

```
# wlanphxcmd bssid display－i 0 /*display the BSSID value for the first SSID*/
```

16 wlanphxcmd ssid set Command

【COMMAND PURPOSE】this command configures the SSID value for WLAN interfaces

【COMMAND SYNTAX】**wlanphxcmd ssid set [-i** *SsidIndex*] **{***ssid***}**

【 DESCRIPTION 】 SSID index is represented by SsidIndex， when multiple SSID are supported

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index，eg: when four SSIDs are supported, possible indexes are 0~3。	[optional]
ssid	SSID value。 Effective value are printable ASCII characters within the length of 32 (0~f) 。	[optional]

【NOTICE】when –i option is not added，the operation is done to the first SSID

【EXAMPLE】

```
# wlanphxcmd ssid set－i 0 brian /*setting the first virtual SSID value to ”brian”*/
```

17 wlanphxcmd ssid display Command

【COMMAND PURPOSE】this command displays the WLAN SSID。

【COMMAND SYNTAX】**wlanphxcmd ssid display [-i** *SsidIndex*]

【 DESCRIPTION 】 SSID index is represented by SsidIndex， when multiple SSID are supported

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index，eg: when four SSIDs are supported, possible indexes are 0~3	[optional]

【NOTICE】when –i option is not added，the operation is done to the first SSID

【EXAMPLE】

18 wlanphxcmd hide set Command

【COMMAND PURPOSE】this command sets the SSID state to hidden

【COMMAND SYNTAX】**wlanphxcmd hide set [-i** *ssidindex*] [*value*]

【DESCRIPTION】SSID hide operation can be executed to specific interface independently. This command is applied to activate/deactivate the hide SSID function

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index	[optional]
value	Disable: deactivate the function Enable: activate the function The default state is set to disable	[compulsory]

【NOTICE】when –i option is not added，the operation is done to the first SSID

【EXAMPLE】

```
# wlanphxcmd hide set  -i 0 enable /*activate the SSID hide function for the first SSID*/
```

19 wlanphxcmd assoclist display Command

【COMMAND PURPOSE】this command displays MAC address of the wireless station that the wireless device is connected to.

【COMMAND SYNTAX】**wlanphxcmd assoclist display [-i *SsidIndex*]**

【DESCRIPTION】this command displays MAC address of wireless station each SSID is connected to

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index	[optional]

【NOTICE】none

【EXAMPLE】

wlanphxcmd assoclist display -i 0 /*display the MAC address of wireless STA that the first SSID is connected to*/

20 wlanphxcmd secmode set Command

【COMMAND PURPOSE】this command sets the WLAN security mode

【COMMAND SYNTAX】**wlanphxcmd secmode set [-i *SsidIndex*] { open |wep | wpa | wpapsk | wpa2psk | wpapsk wpa2psk}**

【 DESCRIPTION 】 SSID index is represented by SsidIndex， when multiple SSID are supported

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]

【NOTICE】when –i option is not added，the operation is done to the first SSID. Security parameters are related to each other. When these commands are executed, CPE should be restarted.WLANPHXCMD is memory less

【EXAMPLE】

Wlanphxcmd secmode set－i 0 wpapsk /*setting the security mode of first ssid to WPA-PSK*/

Note: for command 22, 23

1.wlanphxcmd wepkey set, -k option specifies the key to set into;

2.wlanphxcmd wepkeyindex set, this command activates the key.

In wep mode, command should follow the following sequence:

wlanphxcmd secmode set -i 0 wep

wlanphxcmd wepkey set -i 0 -k 2 abcde

wlanphxcmd wepkeyindex set -i 0 2

wlanphxcmd ssid set -i 0 brian

21 wlanphxcmd wepkey set Command

【COMMAND PURPOSE】this command configures the WEP key the WLAN interface

【COMMAND SYNTAX】**wlanphxcmd wepkey set [-i** *SsidIndex***] [-k** *KeyIndex***] {***KeyValue***}**

【 DESCRIPTION 】 SSID index is represented by SsidIndex， when multiple SSID are supported. WEP key index is represented by KeyIndex, and keyValue refers to the value of the WEP key.

【PRECONDITION】the wireless encryption mode must be set to WEP

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
KeyIndex	Key index	[optional]
KeyValue	Key value	[compulsory]

【NOTICE】

1. When –i option is not added， the operation is done to the first SSID. Security parameters are related to each other. When these commands are executed, CPE should be restarted. WLANPHXCMD is memory-less

2. The key value checked by the following rules first:

(1) 5 or 13 characters excluding symbols;

(2) 10 or 26 characters ranging from 0~9, a, b, c, d, e, f;

【EXAMPLE】

Wlanphxcmd wepkey set－i 0 －k 1 abcde

22 wlanphxcmd wepkeyindex set Command

【COMMAND PURPOSE】this command sets the WLAN WEP key index currently in use

【COMMAND SYNTAX】**wlanphxcmd wepkeyindex set [-i** *SsidIndex***] {***KeyNumber***}**

【 DESCRIPTION 】 SSID index is represented by SsidIndex， when multiple SSID are supported, while KeyNumber refers to the key index

【PRECONDITION】the wireless encryption mode must be set to WEP

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index，eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
KeyNumber	Key index	[compulsory]

【NOTICE】when –i option is not added，the operation is done to the first SSID. Security parameters are related to each other. When these commands are executed, CPE should be restarted. WLANPHXCMD is memory-less

【EXAMPLE】

wlanphxcmd wepkeyindex set－i 0 1 /*using the first key*/

23 wlanphxcmd pskkey set Command

【COMMAND PURPOSE】this command configures the current WLAN WPA-PSK key

【COMMAND SYNTAX】**wlanphxcmd pskkey set [-i** *SsidIndex*] {*Keyvalue*}

【 DESCRIPTION 】SSID index is represented by SsidIndex， when multiple SSID are supported, while KeyValue refers to the key value.

【 PRECONDITION 】 security mode should be set to WPAPSK, WPA2PSK or WPAPSKWPA2PSK

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
KeyValue	Key value	[compulsory]

【NOTICE】when –i option is not added，the operation is done to the first SSID. Security parameters are related to each other. When these commands are executed, CPE should be restarted. WLANPHXCMD is memory-less

【EXAMPLE】

wlanphxcmd pskkey set－i 0 1234567890

24 wlanphxcmd wpaencryption set Command

【COMMAND PURPOSE】this command configures the encryption mode of WPA/WPA2

【COMMAND SYNTAX】**wlanphxcmd wpaencryption set [-i *SsidIndex*] {aes|tkip|tkipaes}**

【 DESCRIPTION 】SSID index is represented by SsidIndex， when multiple SSID are supported

【 PRECONDITION 】 security mode should be set to WPAPSK, WPA2PSK or WPAPSKWPA2PSK

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]

【NOTICE】when –i option is not added，the operation is done to the first SSID. Security parameters are related to each other. When these commands are executed, CPE should be restarted. WLANPHXCMD is memory-less

【EXAMPLE】

wlanphxcmd wpaencryption set -i 0 aes /*setting the encryption type of first SSID into AES*/

Note： for command 26 - 28, when the filter function is activated/deactivated, commands should be executed in the following sequence：

1.wlanphxcmd fltmacctrl set enable

2.wlanphxcmd fltmacmode set allow

3.wlanphxcmd fltmac set 00:11:22:33:44:55

25 wlanphxcmd fltmac set Command

【COMMAND PURPOSE】this command configures the MAC addresses of wireless devices that should be filtered

【COMMAND SYNTAX】**wlanphxcmd fltmac set [-i** *SsidIndex*] {*MAC address*}

【DESCRIPTION】MAC address filtering of the two different wireless modes are both implemented by this command

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
MAC address	MAC address	[compulsory]

【NOTICE】when –i option is not added，the operation is done to the first SSID.

【EXAMPLE】

wlanphxcmd fltmac set **-i 0** 00:11:22:33:44:55 /*adding the MAC address 00:11:22:33:44:55 into the MAC address list*/

26 wlanphxcmd fltmacctrl set Command

【COMMAND PURPOSE】this command configures the state of MAC address filtering

【COMMAND SYNTAX】**wlanphxcmd fltmacctrl set [-i** *SsidIndex***] {***mode***}**

【DESCRIPTION】this command configures the state of MAC address filtering

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
mode	enable, enable the MAC address filtering disable, disable the MAC address filtering	[compulsory]

【NOTICE】when –i option is not added, the operation is done to the first SSID.

【EXAMPLE】

```
# wlanphxcmd fltmacmode set enable/*enable the MAC address filtering*/
```

27 wlanphxcmd fltmacmode set Command

【COMMAND PURPOSE】this command sets the working mode of MAC address filtering

【COMMAND SYNTAX】**wlanphxcmd fltmacmode set [-i** *SsidIndex*] **{***mode***}**

【DESCRIPTION】2 working modes are supported: black list mode & white list mode

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
mode	deny, working as black list mode allow, working as white list mode	[compulsory]

【NOTICE】when –i option is not added, the operation is done to the first SSID.

【EXAMPLE】

```
# wlanphxcmd fltmacmode set deny/*setting the MAC address filtering mode into black list mode*/
```

28 wlanphxcmd assocctl set Command

【COMMAND PURPOSE】this command sets the maximum number of associated devices

【COMMAND SYNTAX】**wlanphxcmd assocctl set [-i** *SsidIndex*] {*devicenum*}

【DESCRIPTION】number of associated devices can be configured

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index, eg: when four SSIDs are supported, possible indexes are 0~3	[optional]
devicenum	Number of associated devices	[compulsory]

【NOTICE】when –i option is not added, the operation is done to the first SSID.

【EXAMPLE】

wlanphxcmd **assocctl** set **-i 0** 12 /* maximum associated device number of ssid1 is set to 12 */

29 wlanphxcmd mbss set Command

【COMMAND PURPOSE】this command activates/deactivates the multiple SSID function

【COMMAND SYNTAX】**wlanphxcmd mbss set 【-n num】{*value*}**

【DESCRIPTION】this command activates/deactivates the multiple SSID function

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
ssidnum	Number of ssid	[optional]
value	enable, enable the mutple-ssid function disable, disable the mutple-ssid function	[compulsory]

【NOTICE】

1. this command is for testing only

2. in practical cases then multiple ssid is applied, commands should be executed in the following sequence:

(1) BssidMum is set to 4 in RT2860AP.dat file, when WLAN driver is loaded;

(2) when 4 virtual ssid are required, following commands are executed: wlanphxcmd up -i 0 up; wlanphxcmd up -i 1 up; wlanphxcmd up -i 2 up; wlanphxcmd up -i 3 up;

(3) bind all the activated interfaces into br0;

(4) when mutipule-ssid function is no longer necessary, deactivate all the wireless interfaces except ra0 with 'wlanphxcmd down' command

30 wlanphxcmd ap_isolate set Command

【COMMAND PURPOSE】this command sets whether each SSID should be isolated from the ap

【COMMAND SYNTAX】**wlanphxcmd ap_isolate set [-i** *SsidIndex***] [***value***]**

【DESCRIPTION】this command sets whether each SSID should be isolated from the ap, ie, whether the stations connected by the same SSID can communicate with each other;

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
SsidIndex	SSID index	[compulsory]
value	State of SSID isolation, 0: not isolated; 1: isolated	[compulsory]

31 wlanphxcmd wme set

this command set whether each SSID should be isolated from the ap

【COMMAND PURPOSE】this command sets the state of WMM function

【COMMAND SYNTAX】**wlanphxcmd wme set [*value*]**

【DESCRIPTION】this command sets the state of WMM function

【PRECONDITION】 this function is on in default state of 11n

【PARAMETERS】

Parameter	Description	Notice
value	Setting the state of WMM, 0:down, 1:up	[compulsory]

32 wlanphxcmd dtim set Command

【COMMAND PURPOSE】this command set the period of power saving hibernation

【COMMAND SYNTAX】**wlanphxcmd dtim set [*value*]**

【DESCRIPTION】this command set the period of power saving hibernation

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	Range:1~255	[compulsory]

33 wlanphxcmd bgprotection set Command

【COMMAND PURPOSE】this command sets the protection mode。

【COMMAND SYNTAX】**wlanphxcmd bgprotection set [*value*]**

【DESCRIPTION】this command set 11/g protection mode

【PRECONDITION】this command is only valid in b/g mode

【PARAMETERS】

Parameter	Description	Notice
value	11/g protection mode, 0:auto 1:on, 2:off	[compulsory]

34 wlanphxcmd rtsthreshold set Command

【COMMAND PURPOSE】this command set the rts threshold value

【COMMAND SYNTAX】**wlanphxcmd rtsthreshold set [***value***]**

【DESCRIPTION】this command set the rts threshold value

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	Range:1~2347	[compulsory]

35 wlanphxcmd fragthreshold set Command

【COMMAND PURPOSE】this command set the fragmentation threshold.

【COMMAND SYNTAX】**wlanphxcmd fragthreshold set [***value***]**

【DESCRIPTION】this command set the fragmentation threshold.

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	Range:256~2346	[compulsory]

36 wlanphxcmd beaconperiod set Command

【COMMAND PURPOSE】this command set the beacon period

【COMMAND SYNTAX】**wlanphxcmd beaconperiod set [***value***]**

【DESCRIPTION】this command set the beacon period

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	Range:20~1023	[compulsory]

37 wlanphxcmd txburst set Command

【COMMAND PURPOSE】this command sets the state of tx rate optimization

【COMMAND SYNTAX】**wlanphxcmd txburst set [***value***]**

【DESCRIPTION】this command sets the state of tx rate optimization

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	1:enable; 0:disable	[compulsory]

【NOTICE】 security parameters are relative to each other, and must be deactivated when wmm function is on

38 wlanphxcmd HT_GI set Command

【COMMAND PURPOSE】this command sets the protection interval

【COMMAND SYNTAX】**wlanphxcmd HT_GI set [*value*]**

【DESCRIPTION】this command sets the protection interval

【PRECONDITION】this command can only be executed in 11n mode

【PARAMETERS】

Parameter	Description	Notice
value	short, long	[compulsory]

39 wlanphxcmd HT_BW set Command

【COMMAND PURPOSE】this command sets the channel bandwidth

【COMMAND SYNTAX】**wlanphxcmd HT_BW set [*value*]**

【DESCRIPTION】this command sets the channel bandwidth

【PRECONDITION】this command can only be executed in 11n mode

【PARAMETERS】

Parameter	Description	Notice
value	20, 20/40	[compulsory]

40 wlanphxcmd HT_MCS set Command

【COMMAND PURPOSE】this command sets the mcs type

【COMMAND SYNTAX】 **wlanphxcmd HT_MCS set [*value*]**

【DESCRIPTION】this command sets the mcs type

【PRECONDITION】this command can only be executed in 11n mode

【PARAMETERS】

Parameter	Description	Notice
value	0~15, 33 (auto)	[compulsory]

【NOTE】

For RT3390 chipset, possible values are 0~7

41 wlanphxcmd wps_ctl set Command

【COMMAND PURPOSE】this command sets the state of wps function

【COMMAND SYNTAX】**wlanphxcmd wps_ctl set [***value***]**

【DESCRIPTION】this command sets the state of wps function

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	enabled, activate wps disabled, deactivate wps	[compulsory]

42 wlanphxcmd wps_mode set Command

【COMMAND PURPOSE】this command sets the wps mode

【COMMAND SYNTAX】**wlanphxcmd wps_mode set [***value***]**

【DESCRIPTION】this command sets the wps mode

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	ap-pin: pin mode ap-pbc: pbc mode	[compulsory]

43 wlanphxcmd wps_pinval set Command

【COMMAND PURPOSE】this command sets the pincode value

【COMMAND SYNTAX】**wlanphxcmd wps_ctl set [***value***]**

【DESCRIPTION】this command sets the pincode value

【PRECONDITION】ap-pin mode must be applied by wps

【PARAMETERS】

Parameter	Description	Notice
value	8 digit	[compulsory]

44 wlanphxcmd wps_switch set Command

【COMMAND PURPOSE】this command initiates/terminates a wps process

【COMMAND SYNTAX】**wlanphxcmd wps_switch set [***value***]**

【DESCRIPTION】this command initiates/terminates a wps process

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	enabled, initiates a wps process disabled, terminates a wps process	[compulsory]

45 wlanphxcmd wps_conf set Command

【COMMAND PURPOSE】this command sets the state of wps_conf。

【COMMAND SYNTAX】**wlanphxcmd wps_conf set [*value*]**

【DESCRIPTION】if configured, only sending is allowed. Otherwise, both sending and reception are allowed.

【PRECONDITION】none

【PARAMETERS】

Parameter	Description	Notice
value	configured, unconfigured,	[compulsory]

46 wlanphxcmd help display Command

【COMMAND PURPOSE】this command displays the usage of the cmd

【COMMAND SYNTAX】**wlanphxcmd wps_conf set [***value***]**

【DESCRIPTION】this command displays the usage of the cmd。

【PRECONDITION】none

【PARAMETERS】none