How to set driver debug log level

1   Introduction.

    1.1   The driver's debug log level is as follows,

    enum {

        _DRV_NONE_ = 0,

        _DRV_ALWAYS_ = 1,

        _DRV_ERR_ = 2,

        _DRV_WARNING_ = 3,

        _DRV_INFO_ = 4,

        _DRV_DEBUG_ = 5,

        _DRV_MAX_ = 6

    };

    1.2   The default log level is "_DRV_INFO_".

    1.3   The default compiling flag is "CONFIG_RTW_DEBUG", which is defined in "Makefile".

2   How to change debug log level during runtime.

    2.1   Use the following command to set different log level.

    # echo x > /proc/net/rtl8723bs/log_level

      x : is a number mapping to log level in driver.

    For example, if you want to change to log level to "_DRV_ERR_", please execute the command below,

    # echo 2 > /proc/net/rtk8723bs/log_level

3   How to change debug log level during inserting driver module.

    For example for change log level to _DRV_WARNING_,

    # insmod 8723bs.ko rtw_drv_log_level=3

4   How to disable all debug log level during runtime and inserting driver module.

    4.1   during runtime, please execute the command below,

    # echo 0 > /proc/net/rtk8723bs/log_level

    4.2   during inserting driver module , please execute the command below,

    # insmod 8723bs.ko rtw_drv_log_level=0

5　How to check current log level during runtime

Use the following command to check log level,

cat /proc/net/rtl8723bs/log_level

drv_log_level:4

_DRV_NONE_ = 0
_DRV_ALWAYS_ = 1
_DRV_ERR_ = 2
_DRV_WARNING_ = 3
+ _DRV_INFO_ = 4
_DRV_DEBUG_ = 5
_DRV_MAX_ = 6

This example shows the current log level is 4 (_DRV_INFO_).

6　How to change debug log level during compiling time.

6.1　In Makefile, please look for "CONFIG_RTW_LOG_LEVEL", and then you can modify its value to proper debug log level during compiling time.

7　How to disable all debug log during compiling time.

7.1　There are two methods to disable debug log.

7.1.1 Method A: in Makefile, please look for "CONFIG_RTW_DEBUG = y", and then change the "y" to "n".

7.1.2 Method B: also in Makefile, please look for "CONFIG_RTW_LOG_LEVEL", and then change the default value to 0

8　Notes: please change the term "rtl8723bs" to correct chip's name.