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\*@brief for TLSR chips

\* @date May 06, 2021

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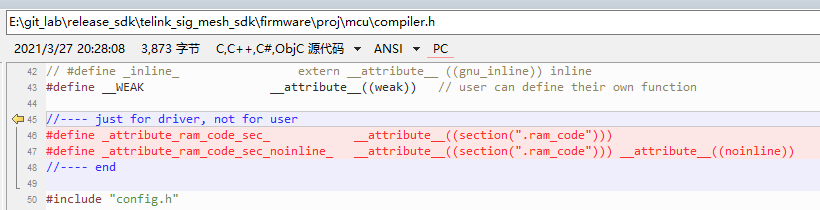
**Patch for Flash driver and low voltage detection: used for “telink\_sig\_mesh\_sdk” SDK version V3.3.2 and prior.**

Note: if you are developing based on V3.3.2, please update to V3.3.3 for all patch. Other versions,

in order to update patch, you need to do the following things:

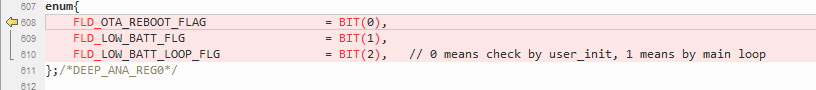
# Update flash driver

1. replace file " **\proj\drivers\flash.c** , **flash.h**"
2. add folder "**\drivers\8258\flash**" to path "\**drivers\8258**”
3. add "**\drivers\8258\flash\_mesh\_extend.c**" to path "**\drivers\8258**”
4. update file " **\proj\mcu\ compiler.h**" to add define of “\_attribute\_ram\_code\_sec\_” and “\_attribute\_ram\_code\_sec\_noinline\_”

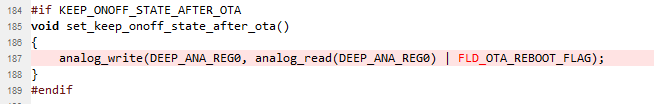


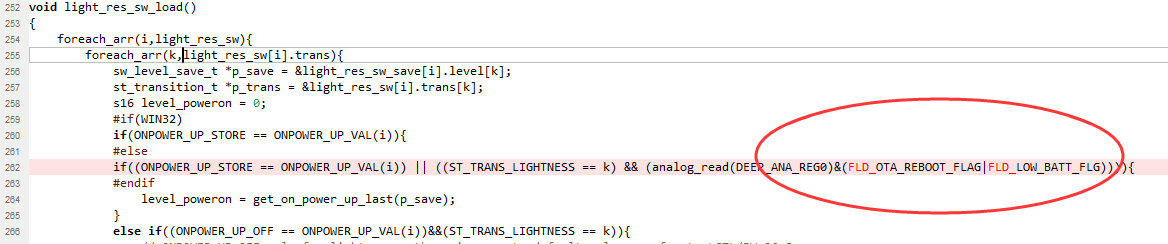
# Add low voltage detection function

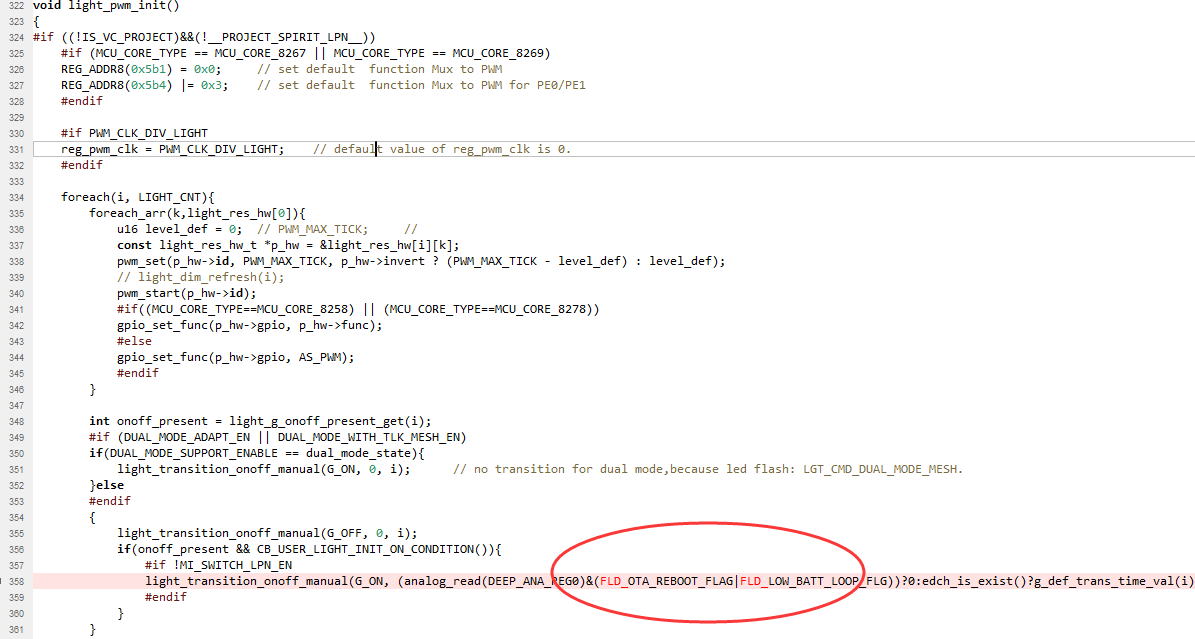
1. replace file " **\drivers\8258\ adc.c, adc.h**", " **\drivers\8278\ adc.c, adc.h**"
2. add " \vendor\common\battery\_check.c, battery\_check.h, battery\_check\_827x.c" to path "\**vendor\common\**”
3. update "proj\_lib\ble\blt\_config.h” to add” FLD\_OTA\_REBOOT\_FLAG”, ” FLD\_LOW\_BATT\_FLG” and “LOW\_BATT\_LOOP\_FLG”



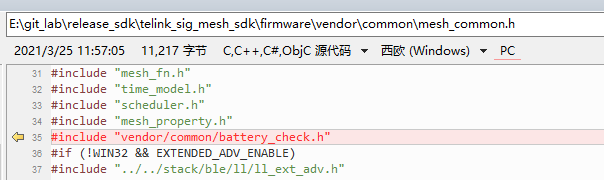
1. update " vendor/common/light.c” to add or update ” FLD\_OTA\_REBOOT\_FLAG”, ” FLD\_LOW\_BATT\_FLG” and “LOW\_BATT\_LOOP\_FLG”, as shown below:







1. update " vendor/common/mesh\_common.h” to add “#include "battery\_check.h"



1. update to add define of “BATT\_CHECK\_ENABLE” and IO setting into

firmware/vendor/boot\_loader/app\_config\_8258.h

firmware/vendor/boot\_loader/app\_config\_8278.h

firmware/vendor/mesh/app\_config\_8258.h

firmware/vendor/mesh/app\_config\_8278.h

firmware/vendor/mesh\_gw\_node\_homekit/app\_config\_8258.h

firmware/vendor/mesh\_lpn/app\_config\_8258.h

firmware/vendor/mesh\_lpn/app\_config\_8278.h

firmware/vendor/mesh\_provision/app\_config\_8258.h

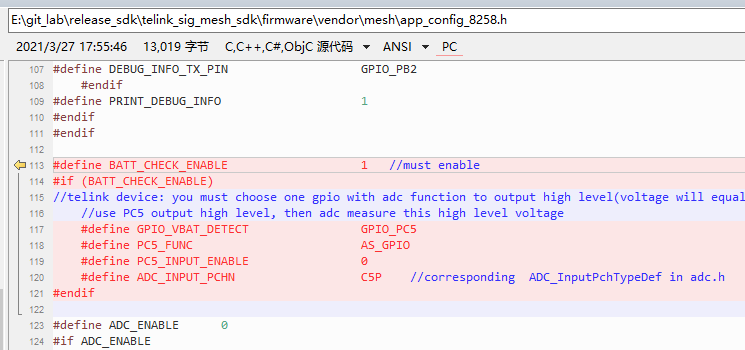
firmware/vendor/mesh\_provision/app\_config\_8278.h

firmware/vendor/mesh\_switch/app\_config\_8258.h

firmware/vendor/mesh\_switch/app\_config\_8278.h

firmware/vendor/spirit\_lpn/app\_config\_8258.h

firmware/vendor/spirit\_lpn/app\_config\_8278.h



1. update to add function calling of “app\_battery\_power\_check\_and\_sleep\_handle(1);” in all main\_loop(), and “app\_battery\_power\_check\_and\_sleep\_handle(0);” at the first of all user\_init(). Include:

firmware/vendor/mesh/app.c

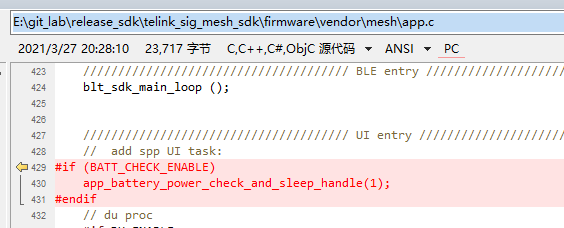
firmware/vendor/mesh\_gw\_node\_homekit/app.c

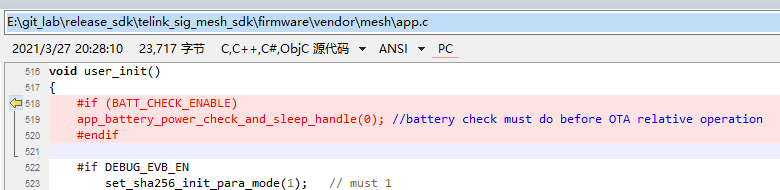
firmware/vendor/mesh\_lpn/app.c

firmware/vendor/mesh\_provision/app.c

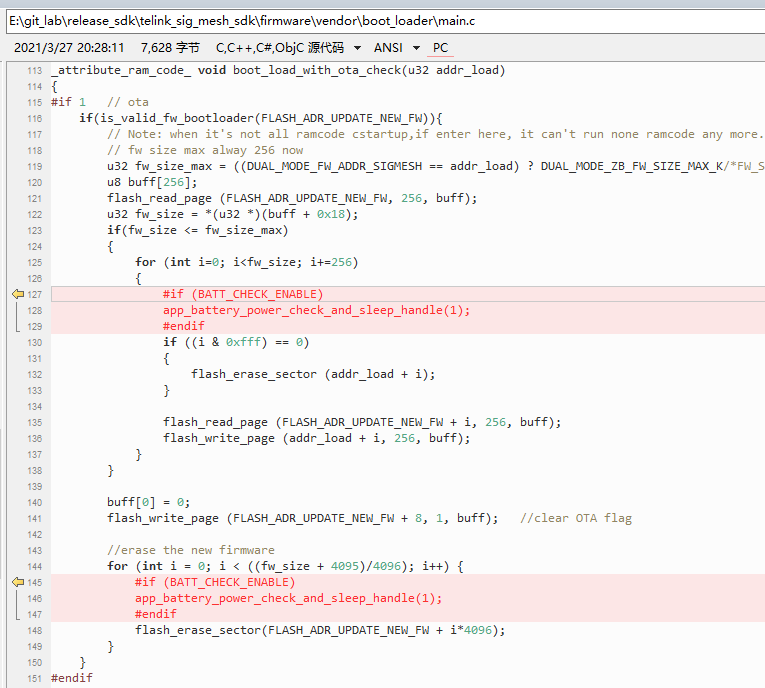
firmware/vendor/mesh\_switch/app.c

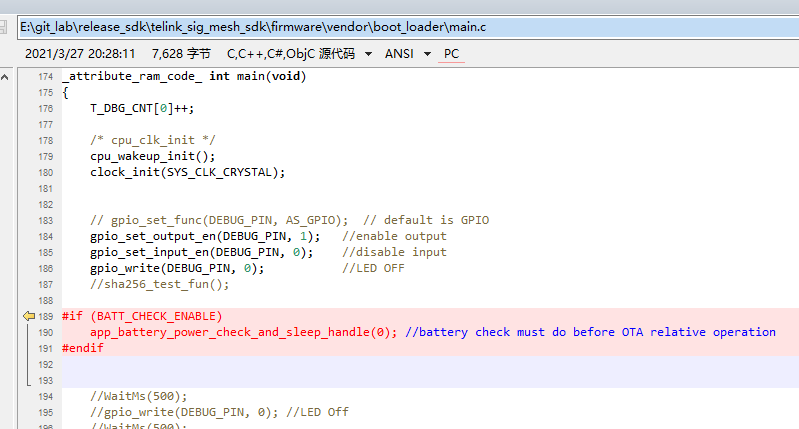
firmware/vendor/spirit\_lpn/app.c





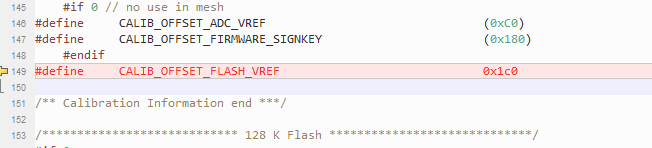
1. update “\vendor\boot\_loader\main.c” to add function calling of “app\_battery\_power\_check\_and\_sleep\_handle(1);” and “app\_battery\_power\_check\_and\_sleep\_handle(0);”



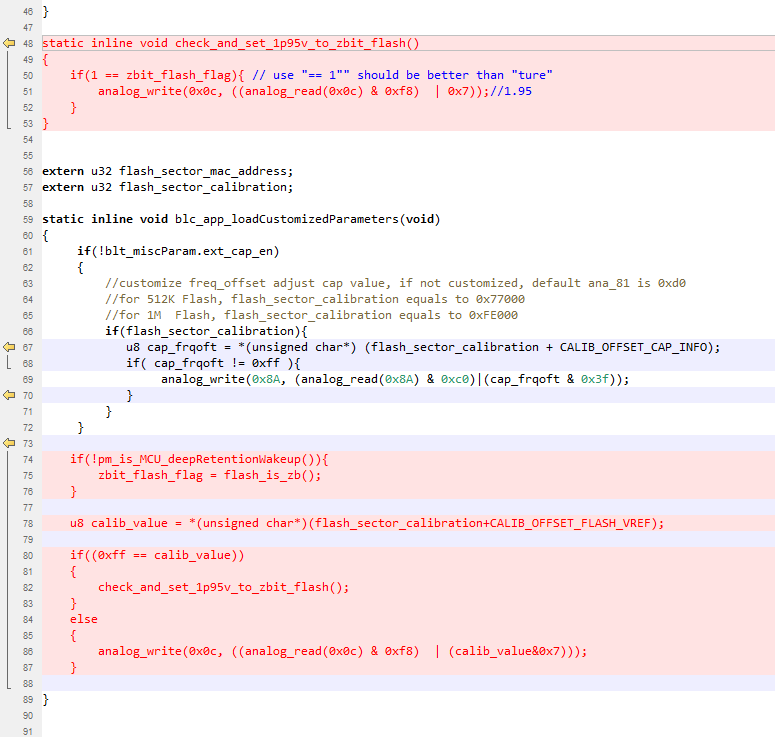


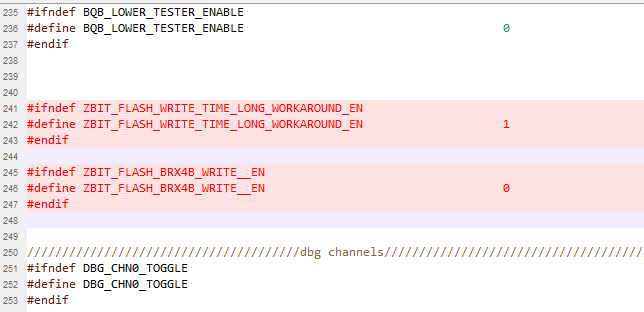
# Calibrate the flash vref according to the reading value from flash

1. update "proj\_lib\ble\blt\_config.h” to add ” CALIB\_OFFSET\_FLASH\_VREF” in red.



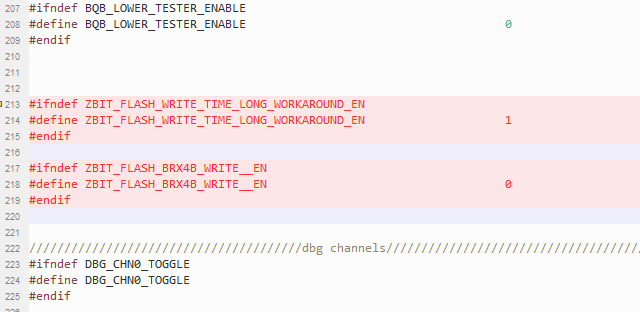
1. update “\stack\ble\blt\_config.h” to add codes in red:



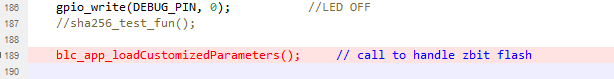


1. update “\stack\ble\_8278\blt\_config.h” to add codes in red:



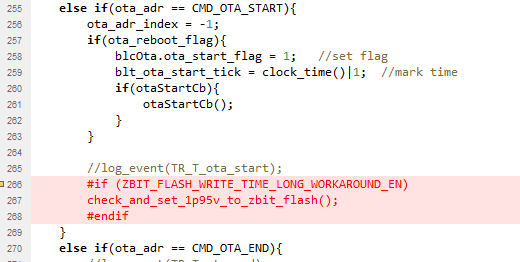


1. update the function “main()” in file “\vendor\boot\_loader\main.c” to add the codes in red.

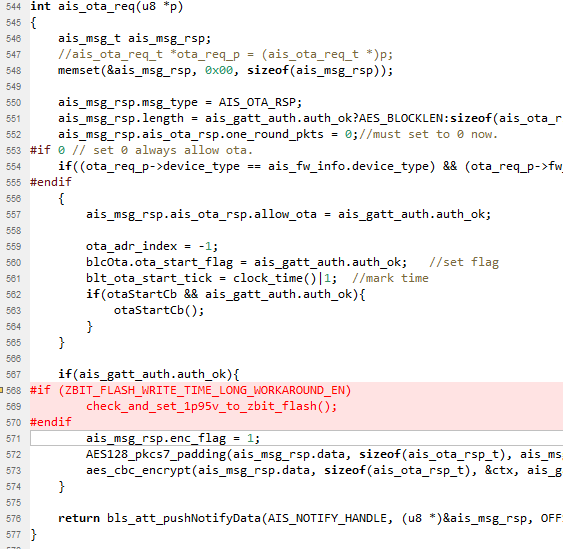


1. update the functions in file “\vendor\common\ble\_ll\_ota.c” to add the codes in red:

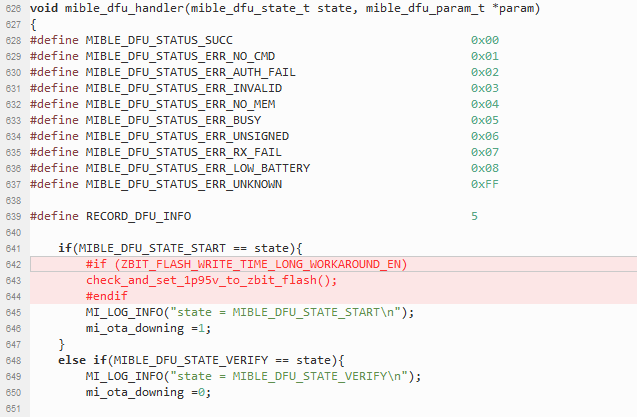
**“otaWrite ()”:**



**“ais\_ota\_req”:**



1. update the function “mible\_dfu\_handler()” in file “\vendor\common\mi\_api\telink\_sdk\_mible\_api.c” to add the codes in red:



1. update the function “mesh\_cmd\_sig\_blob\_transfer\_handle ()” in file “\vendor\common\mesh\_ota.c” to add the codes in red, if “mesh\_ota.c” is existed:

