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\*@brief for TLSR chips

\* @date March 29, 2021

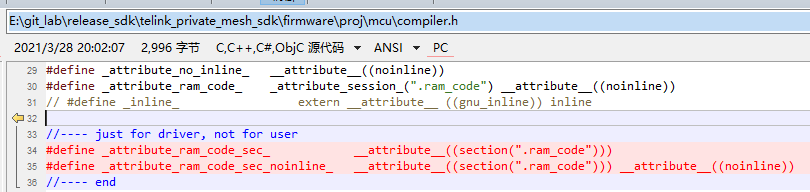
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**Patch for Flash driver and low voltage detection: used for “telink\_private\_mesh\_sdk” SDK version V1.R and prior.**

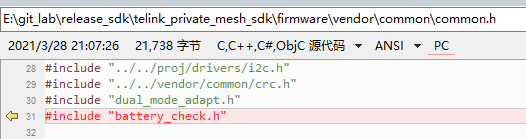
Note: if you are developing base on V1.R, please update to V1.S for all patch. Other version,

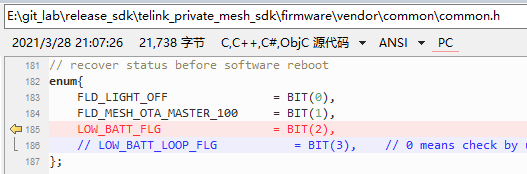
in order to update patch, you need to do the following things:

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



1. **Add low voltage detection function：**
2. replace file " **\proj\drivers\ adc\_8258.c, adc\_8258.h**, **adc\_8278.c, adc\_8278.h**"
3. add " \vendor\common\battery\_check.c, battery\_check.h, battery\_check\_827x.c" to path "\**vendor\common\**”
4. update "\**vendor\common\common.h**” to add “#include "battery\_check.h"” and “LOW\_BATT\_FLG”





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

firmware/vendor/light\_8258/light.h,

firmware/vendor/light\_8278/light.h

firmware/vendor/light\_gateway/light\_gateway\_8258.h

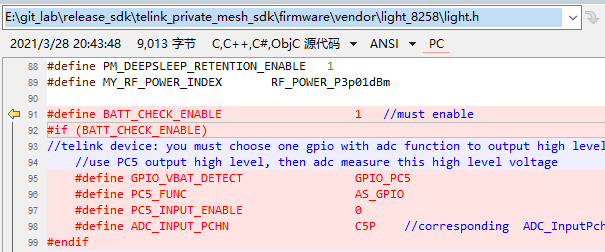
firmware/vendor/light\_gateway/light\_gateway\_8278.h

firmware/vendor/light\_lpn/light\_lpn\_8258.h

firmware/vendor/light\_lpn/light\_lpn\_8278.h

firmware/vendor/light\_switch/light\_switch\_8258.h

firmware/vendor/light\_switch/light\_switch\_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:

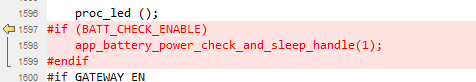
firmware/vendor/light\_8258/main\_light.c

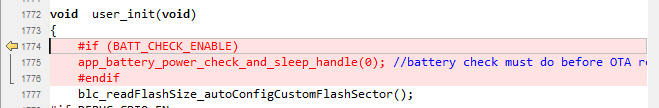
firmware/vendor/light\_8278/main\_light.c

firmware/vendor/light\_gateway/main\_light.c

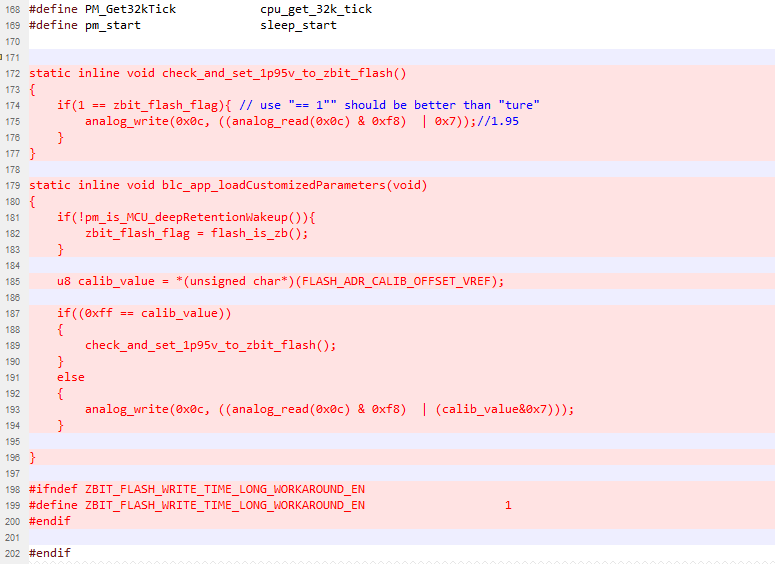
firmware/vendor/light\_lpn/light\_lpn.c

firmware/vendor/light\_switch/light\_switch.c

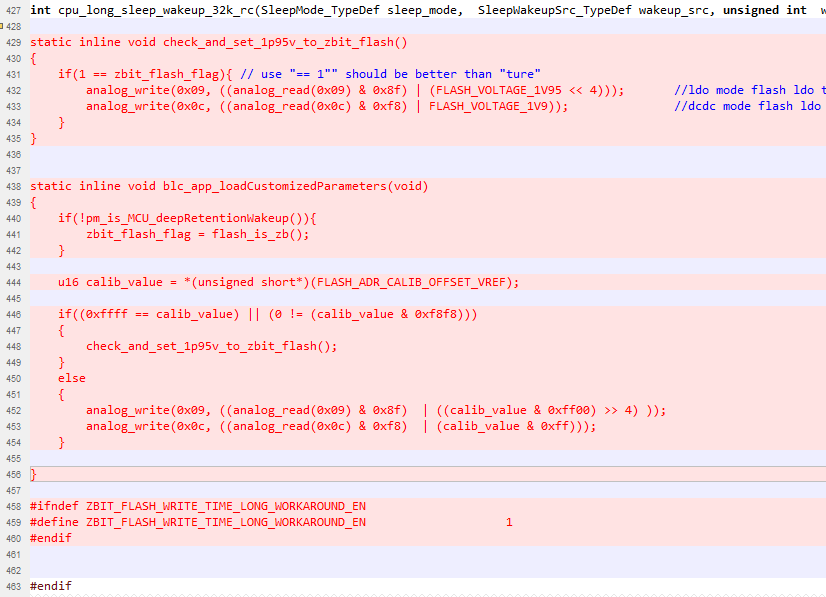




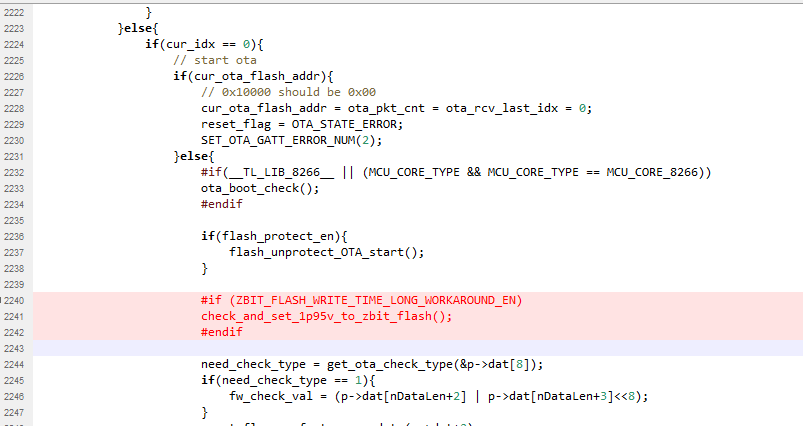
1. **Calibrate the flash vref according to the reading value from flash.：**
2. replace " \proj\_lib\pm\_8258.h" for V1.R, or update this file to add codes in red.



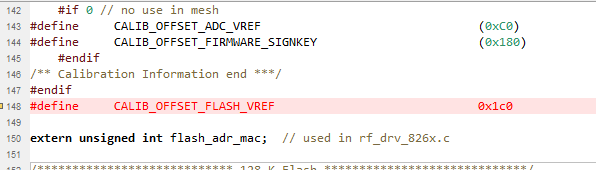
1. replace " \proj\_lib\pm\_8278.h" for V1.R, or update this file to add codes in red.

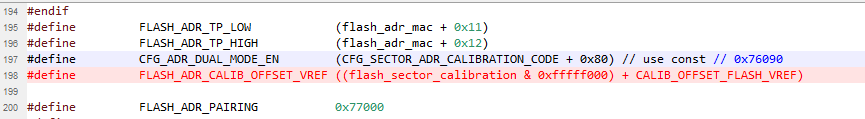


1. update the function “rf\_link\_slave\_data\_ota\_save()” in file “\vendor\common\common.c” to add the codes in red.

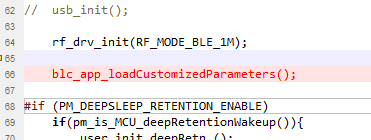


1. update file “\vendor\common\user\_config.h” to add the codes in red.

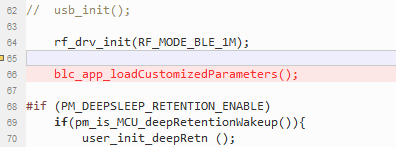




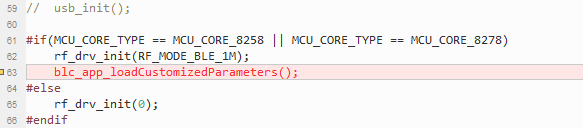
1. update the function “main()” in file “\vendor\light\_8258\main.c” to add the codes in red.



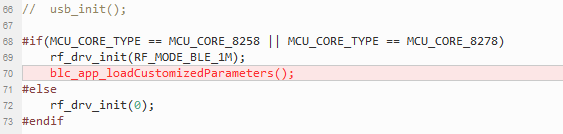
1. update the function “main()” in file “\vendor\light\_8278\main.c” to add the codes in red.



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



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



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

