

VISION 2020 「From Domestic No.1 to Global Top 10」



SiW Touch Driver

Mode Change for OLED v1.0

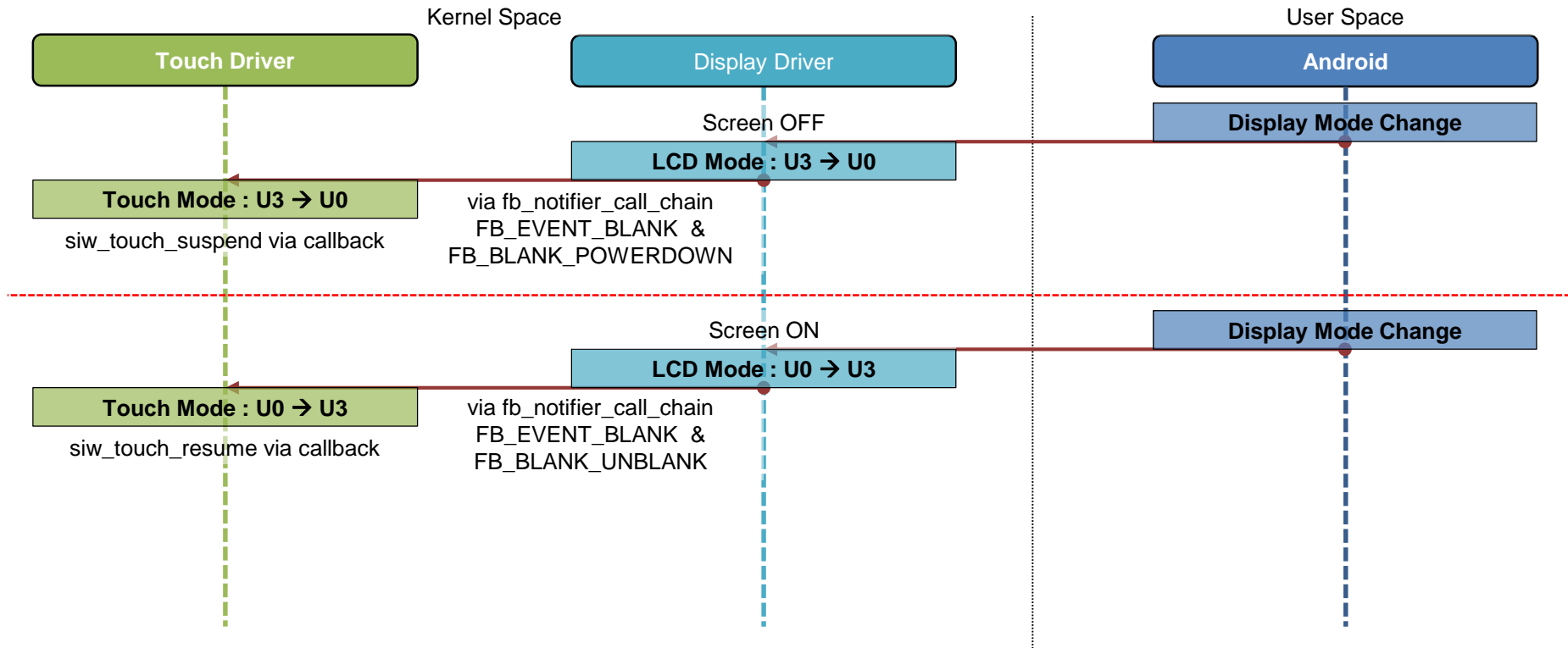
2019.01.10

R&D / MTS

History

Version	Date	Description
1.0	2019.01.10	1 st release

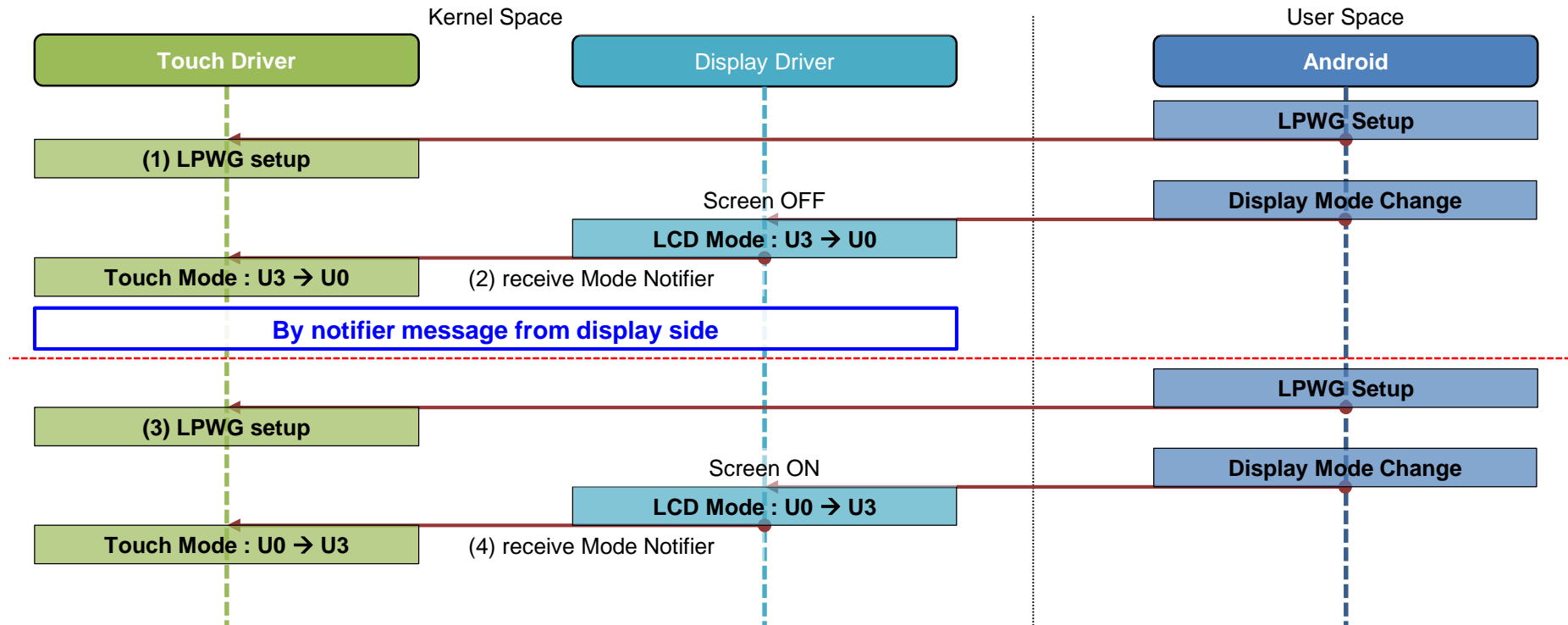
2. Mode Change : U3 → U0 → U3 (w/h CONFIG_FB)



[Note]

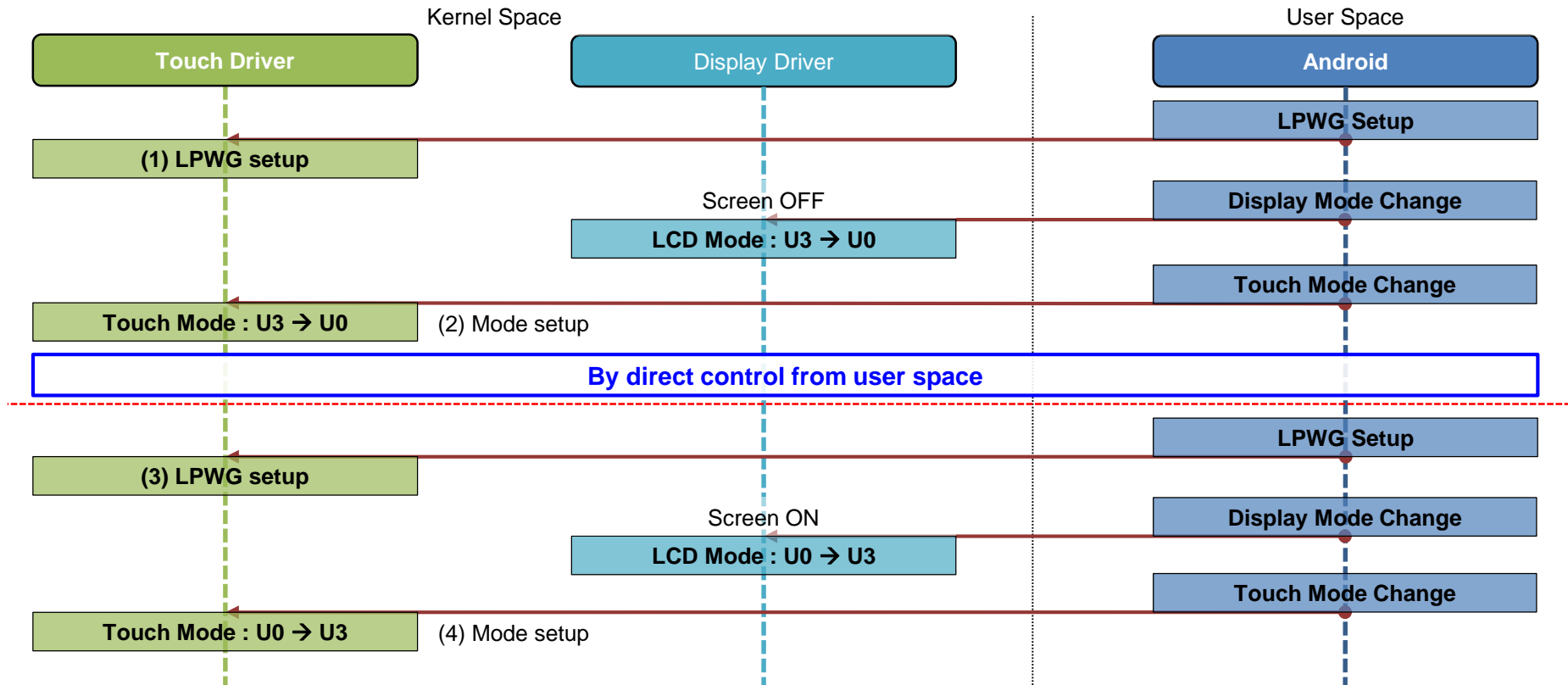
- (1) __SIW_CONFIG_FB (depends on CONFIG_FB) & __SIW_PANEL_CLASS_MOBILE_OLED
This supports automatic mode change operation following display status without extra command.
- (2) LPWG setup control is optional
- (3) Refer to 'SiW.Touch.Driver_readme_lcd_mode_change_for_OLED_01_basic.txt' for detail log example.

3. Mode Change : U3 → U0 → U3 (w/o CONFIG_FB)



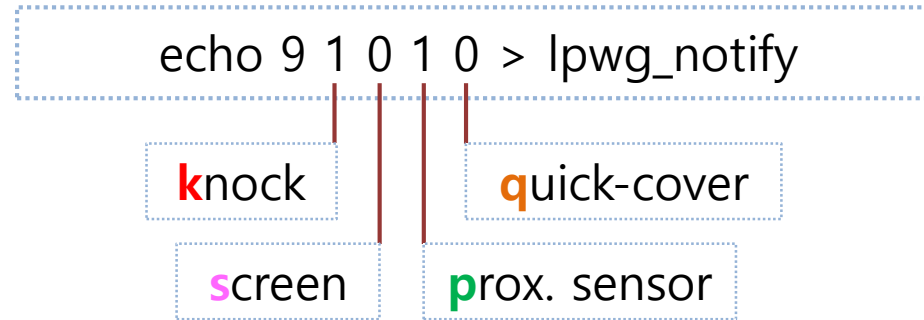
Step	Action	How to	Note
1	LPWG setup	echo 9 1 0 1 0 > .../siw_touch_input/lpwg_notify	sysfs access
2	receive Mode Notifier	siw_touch_notifier_call_chain(LCD_EVENT_LCD_MODE, (void *)&panel_mode) int panel_mode = LCD_EVENT_LCD_MODE_U0	inside LCD driver [See siw_touch_notify.h]
3	LPWG setup	echo 9 0 1 1 0 > .../siw_touch_input/lpwg_notify	sysfs access
4	receive Mode Notifier	siw_touch_notifier_call_chain(LCD_EVENT_LCD_MODE, (void *)&panel_mode) int panel_mode = LCD_EVENT_LCD_MODE_U3	inside LCD driver [See siw_touch_notify.h]

4. Mode Change : U3 → U0 → U3 (w/o CONFIG_FB)



Step	Action	How to	Note
1	LPWG setup	echo 9 1 0 1 0 > .../siw_touch_input/lpwg_notify	sysfs access
2	Mode setup	echo 0 > .../siw_touch_input/lcd_mode	sysfs access
3	LPWG setup	echo 9 0 1 1 0 > .../siw_touch_input/lpwg_notify	sysfs access
4	Mode setup	echo 3 > .../siw_touch_input/lcd_mode	sysfs access

5. LPWG Setup



	k	s	p	q	Status
U3	0	1	1	0	Screen ON, Prox FAR, Quick FAR
	0	1	0	0	Screen ON, Prox NEAR , Quick FAR
	0	1	1	1	Screen ON, Prox FAR, Quick NEAR
	0	1	0	1	Screen ON, Prox NEAR , Quick NEAR
U0	1(0)	0	1	0	Knock ON(OFF), Prox FAR, Quick FAR
	1(0)	0	0	0	Knock ON(OFF), Prox NEAR , Quick FAR
	1(0)	0	1	1	Knock ON(OFF), Prox FAR, Quick NEAR
	1(0)	0	0	1	Knock ON(OFF), Prox NEAR , Quick NEAR