lpu237 android mapper working flow.

restriction – support only one device.

normal flow

flow		class				
	event	method	working	thread	description	
FN00		StartupActivity	push_request - Request_update_list			
	Start up.	onCreate	ERROR – EP01	main		
FN01		ManagerDevice	 if lpu237 is detected, request it's permission. if bootloader is detected, request it's permission. 	worker	_run_update_list will	
		_run_update_list	• no device : EP04.	WOLKEL	detect lpu237.	
FN02		ManagerDevice			display by system	
	request Ipu237's permission	_callback_normal _lpu237_permission	push_request - Request_get_info_for_list ERROR : EP01	main	for getting permission. If user does not give a permission, re- request permission.	
FN03		ManagerDevice	condintent CET INFO FOR UST	worker		
		_run_get_info_for_list	send intent GET_INFO_FOR_LIST.	worker		
FN04		ManagerDevice	RESULT TRUE : send intent -			
		_callback_normal	ACTIVITY_STARTUP_DISPLAY_DEVICE_LIST	main		
		_get_info_for_list	RESULT FALSE : EP01			
FN05		StartupActivity			display the basic	
		onReceive	update device list view.	main	information of the detect device.	
FN06	select	StartupActivity	adat darias O			
	"connect" button	m_listener_dlg_connect_yes	select device 0. start MainActivity.	main		
FN07		StartupActivity				
	select device	DeviceRecyclerAdapter:	select device 0.	main		
		onListItemClick	start MainActivity.			
FN08	start	MainActivity	push_request - Request_get_parameters			
	MainActivity	onCreate	ERROR : EP01	main		
FN09		ManagerDevice				
		_run_get_parameters		worker		
FN10		ManagerDevice	and intent			
		_callback_normal	send intent -	main		
		_get_parameters	ACTIVITY_MAIN_COMPLETE_GET_PARAMETERS			
FN11		MainActivity	RESULT TRUE : posted initialization.		ready for use.	
		_callback_get_parameter	RESULT FALSE : EP01	main	idle status.	
FN12	select	MainActivity	nuch request. Dequest set parameters			
	"Update" button	m_button_apply. onClick	push_request - Request_set_parameters ERROR : EP00	main		
FN13		ManagerDevice				
		_run_set_parameters		worker		
FN14		ManagerDevice	RESULT TRUE : send intent -		diambar on detect	
		_callback_normal	ACTIVITY_MAIN_COMPLETE_SET_PARAMETERS	main	display update ok	
		_set_parameters	RESULT FALSE : EP08		dialog.	

Update Firmware flow in normal mode.

flow		class			
	event	method	working	thread	description
FU00	select "Update"	PageDevice	display dialog box for selection		
	button	OnClick	rom- file.	main	
FU01		PageDevice	push_request -		
			Request_start_bootloader	main	
		fileSelected	ERROR: EP00		
FU02		ManagerDevice	save parameters.	o. elso e	ERROR : EP00 in
		_run_start_bootloader	enable bootloader	worker	_callback_started_bootloader
FU03		ManagerDevice	push_request -		
	attached usb	_callback_boot_usb_attached	Request_update_list	main	
		_callback_boot_usb_attached	ERROR: EP03		
FU04		ManagerDevice	 if Ipu237 is detected, 		
		Managerbevice	request lpu237's permission.		
			 if bootloader is detected, 	worker	_run_update_list will detect
		_run_update_list	request bootloader's	Worker.	bootloader.
		_ran_apaate_nst	permission.		
			• no device : EP03		
FU05	request	ManagerDevice	finish MainActivity.		display by system for getting
	bootloader's	_callback_boot	select bootloader 0.	main	permission. If user doesn't give a
	permission	_bootloader_permission	set_rom_file.		permission, re-request permission.
FLIOC		·	start UpdateActivity.		
FU06	start	UpdateActivity	push_request -		
	UpdateActivity	onCreate	Request_firmware_erase mair ERROR: EP03		
FU07		ManagerDevice	LINON . LI 05		
1007		_run_firmware_erase		worker	ERROR : EP06
FU08		ManagerDevice	push_request -		
. 000		_callback_boot	Request_firmware_write	main	
		_erase_firmware	ERROR : EP02		
FU09		ManagerDevice	send intent		
			WRITE_SECTOR(sector2~7) or		loop sector2~7 and 1.
		_run_firmware_write	send intent	worker	ERROR : EP06
			WRITE_COMPLETE(sector1)		
FU10	White cector	ManagerDevice	push_request -		
	WRITE_SECTOR	_callback_boot	Request_firmware_write	main	called sector2~7.
	intent	_write_sector	ERROR: EP03		
FU11	COMPLETE intent	ManagerDevice	push_request - Request_run_app ERROR : EP03	main	
		_callback_boot			
		_write_complete	LIMON . LI UJ		
FU12		ManagerDevice		worker	ERROR : EP06
		_run_run_app		WOIKEI	Linon . Li oo
FU13		ManagerDevice	clear bootloader list	main	
		_callback_boot_started_app	cicai bootioadei 113t	malli	
FU14	attached usb	ManagerDevice	push_request -		
		_callback_boot_usb_attached	Request_update_list	main	
		_camback_boot_asb_attached	ERROR: EP03		

FU15		ManagerDevice	 if Ipu237 is detected, request Ipu237's permission. if bootloader is detected, request bootloader's permission. no device: EP03 	worker	_run_update_list will detect lpu237.
		_run_update_list			
FU16	request lau 227's	ManagerDevice	push_request -		display by system for getting
	request lpu237's permission	_callback_boot	Request_get_parameters	main	permission. If user doesn't give a
	permission	_lpu237_permission	ERROR: EP01		permission, re-request permission.
FU17		ManagerDevice		worker	ERROR : EP06
		_run_get_parameters		worker	ERROR : EP00
FU18		ManagerDevice	push_request -		
		_callback_boot	Request_recover_parameters	main	
		_get_parameters	ERROR: EP01		
FU19		ManagerDevice		worker	ERROR: EP07
		_run_recover_parameter		WOIKEI	EMON : El 07
FU20		ManagerDevice	disable bootloader.		
		_callback_boot _recover_parameter	display fw_download_ok dialog.	main	
FU21	select "ok"	ManagerDevice ManagerDevice	finish UpdateActivity.		
		m_listener_dlg _fw_download_ok	push_request - Request_get_info_for_list with StartupActivity context.	main	ERROR : EP01 in push_request.
repeat	FN03~FN14.				

Update firmware flow at startup.

flow	avant.	class			Anna Anthon	
	event	method	working	thread	description	
FN00	– start StartupActivity	/				
FU04	run_update_list , de	etect bootloader.				
FS00	raquest	ManagerDevice			display by system for getting permission. If user doesn't giv	
	request bootloader's permission	_callback_normal_bootloader_permission	display fw download yes or no dialog.	main	a permission, re-request permission. If user selects "no" or cancel in "fw download dialog", EP05	
FS01	select "yes"	ManagerDevice	enable bootloader	main		
	select yes	m_listener_dlg_fw_download_yes	start UpdateActivity.	permission. If user doesn't give a permission, re-request permission. If user selects "no" or cancel in "fw download dialog", EP05 Table bootloader art UpdateActivity. Splay dialog box for lection rom- file. TowFwSelectDialog. TROR: EP05 Total Click. Total Click. Total Click. Total Click archard are doesn't give a permission. If user selects "no" or cancel in "fw download dialog", EP05 Total Click. Total Click archard archa		
FS02	start UpdateActivity	UpdateActivity onCreate	display dialog box for selection rom- file.	main		
FS03		UpdateActivity	showFwSelectDialog.		g, see see see see see see see see see se	
	select rom file.	fileSelected	ERROR : EP05	main		
FS04		UpdateActivity	onClick.			
	select firmware.	showFwSelectDialog	push_request - Request_firmware_erase ERROR: EP03	main		
FU07	run_firmware_erase		l		L	
FU08	callback_boot_erase	e_firmware				
FU09	run_firmware_write					
FU10	callback_boot_write	e_sector				
FU11	callback_boot_write	e_complete				
FU12	run_run_app					
FU13	callback_boot_start	red_app				
FU14	callback_boot_usb_	attached				
FU15	run_update_list					
FS05	request lpu237's	ManagerDevice	disable bootloader.		display by system for getting permission. If user doesn't giv	
	permission	_callback_boot_lpu237_permission	display fw_download_ok dialog.	main	a permission, re-request permission.	
FU21 -	– finish UpdateActivit	y & refresh device list of StartupActivity.				
epeat	: FN03~FN14.					

error processing

case	process	etc
EP00	display error message dialog.	
	if press "ok" or cancel, app remains the current status.	
EP01	display error message dialog.	
	if press "ok" or cancel, terminate app.	
EP02	display error message dialog. (Including "A/S" message)	
	if press "ok" or cancel, terminate app.	
EP03	display error message dialog. (Including "Reboot" message)	
	if press "ok" or cancel, terminate app.	
EP04	display "no device" message dialog.	
	if press "ok" or cancel, terminate app.	
EP05	display "need a firmware download" message dialog.	
	if press "ok" or cancel, terminate app.	
EP06	display error message to UpdateActivity.	
	app remains the current status.	
EP07	display error message in "Update Complete" dialog.	
	app doesn't consider a error in this case.	
EP08	display "Save parameter" dialog with error message.	