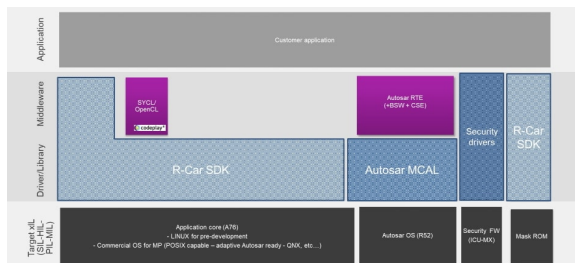# ES_RVC_SOC_SW

Project objective

Join force with Renesas Viet Nam (RVC) to develop software for Renesas SOC (RCAR) and MCU (RA)

RCAR SDK

R-CAR-SDK - R-Car Software Development Kit | Renesas

The R-Car SDK (Software Development Kit) is an easy to start & easy to use development framework for the R-Car V Series SOCs from the successful Renesas Autonomy Platform.
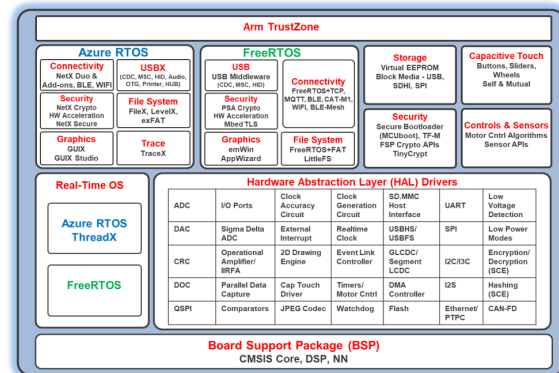

Technology

- Computer vision, machine learning (Vision IP, DSP, CNN...)
- Audio/Video related module (DSP, Gstreamer, OMX...)
- Linux device driver
- Yocto
- CI/CD
- Automation

FSP

Flexible Software Package (FSP) | Renesas

The Renesas Flexible Software Package (FSP) is an enhanced software package designed to provide easy-to-use, scalable, high-quality software for embedded system designs using Renesas RA family of Arm Microcontrollers. With the support of new Arm® TrustZone® and other advanced security features, FSP provides a quick and versatile way to build secure, connected IoT devices using production-ready drivers, Azure® RTOS, FreeRTOS™, and other middleware stacks.

Technology

- MCU driver
- RTOS
- IoT

Team objective

Long term

Receive work package from RVC, it means BV take ownership and responsibility for delivery. BV team functions as a project team (project planning, executing, monitoring and controlling)

Short term

- Gain knowledge and enrich BV knowledge archive (TTP, technical material ...)
- Gain trust from customer by showing technical competency, commitment ...

Role

Role	Description
EM	Engineering manager
PL	Project leader
TL	Team leader
Tech	Technical leader
Member	Team member

Responsibility matrix

Responsibility matrix (RACI matrix) to make clear each role responsibility so that project team ensures objective achievement

Responsibilities	Description	Symbol
Responsible	**Doing the task.** This person actions the task or deliverable. They are responsible for getting the work done or making the decision	**R**
Accountable	**Owning the task.** This person or role is responsible for the overall completion of the task or deliverable. They won't get the work done, but are responsible for making sure it's finalized	**A**
Consulted	**Assisting.** This person, role, or group will provide information useful to completing the task or deliverable	**C**
Informed	**Keeping Aware.** These people or groups will be kept up to date on the task or deliverable. This could be on progress, or when the task or deliverable is completed	**I**

RACI Table

Task group	Task	PL	TL	SL	Tech	Member
Delivery	Planning	**C:** provide resources /information (manpower, information, tool, facilities...) from EM **I:** project's schedule	**A:** make sure planning is sufficient (on time, mitigate risk...) **C:** review and feedback member planning **I:** team's schedule	**R:** make sure planning is sufficient (on time, mitigate risk...) **C:** review and feedback member planning **I:** team's schedule	**R:** planning (build WBS, define schedule) **C:** review and feedback member planning	**R:** planning (build WBS, define schedule)

	Execute task	-	**A:** make sure task is done **C:** member's task (support technical issue, technical knowledge...)	**R:** make sure task is done **C:** member's task (support technical issue, technical knowledge...)	**R:** execute task **C:** member's task (support technical issue, technical knowledge...)	**R:** execute task
	Monitoring & control	**C:** support or provide resource to support **I:** project's status	**A:** overall project status **C:** support or provide resource to support **I:** component's status	**A:** overall sub project status **C:** support or provide resource to support **I:** component's status	-	-
	Delivery KPI	**A:** make sure project team achieves KPI **I:** KPI value from EM (not define yet)	**R:** on time delivery **I:** KPI value (not define yet)	**R:** on time delivery **I:** KPI value (not define yet)	**R:** on time delivery **I:** KPI value (not define yet)	**R:** on time delivery **I:** KPI value (not define yet)
Quality	Review	**A:** project overall quality **C:** Support or provide resource to support **I:** up to date review activities	**R:** peer review, cross check **A:** project review activities	**R:** peer review, cross check **A:** sub project review activities	**R:** peer review, cross check	**R:** peer review, cross check
	Guideline and workflow	**A:** project guideline and workflow **C:** provide the latest process, template...	**R:** contribute building guideline and workflow (major in workflow)	**R:** contribute building guideline and workflow (major in workflow)	**R:** contribute building guideline and workflow (major in technical guideline)	**I:** get the latest information

Operation	Monthly delivery	**A:** review and submit as EM request	**R:** team monthly delivery	**R:** sub team monthly delivery	**C:** provide individual data	**C:** provide individual data
	Weekly report	**A:** review and submit weekly report to EM	**R:** team weekly report	**R:** sub team weekly report	**C:** provide individual data	**C:** provide individual data
	KPI report (delivery, quality, productivity)	**A:** review and submit as EM request	**R:** team data	**R:** sub team data	**C:** provide individual data	**C:** provide individual data
	Project knowledge	**A:** Maintain and improve project knowledge (TTP, technical sharing...)	**R:** provide effort to implement **C:** provide knowledge	**R:** provide effort to implement **C:** provide knowledge	**R:** provide effort to implement **C:** provide knowledge	**I:** inform about project knowledge

Related guideline

- Management task list

Team structure

EM	Huynh Trung Bac													
PL	Bui Viet Hung													
Group	#26 SWST2 - Vision/IVI SW development and System Validation	#35 SWST4 - System Validation	#34 SWST3 - R-Car SI/SV	#27 SWST5 - R-Car MW					#28 SWST7 - R-Car BSP		#29 SWST8 - GPC SW development			
Sub Team	RIVP	System Validation	SISV	Cockpit Middleware	MMP	SISV	CI /CD	Customer support	Linux BSP /UKV /XEN	Video Content	IMP /DSP /GPC	CPU-RTT	IMR DRV	Atomic
TL	Nguyen Huu Anh (Acting)	Nguyen Thanh Quang	Nguyen Huu Anh (Acting)	Bui Viet Hung	Nguyen Thanh Quang				Le Son Dy		Huynh Huu Tai	Le Hung Cuong		
Tech	Bui Viet Hung	-	To Thanh Danh Nguyen Pham Minh Tri	-	-	-	-	-	Nguyen Hong Thuan (Acting)	-	Le Hung Cuong	-	-	-
Member	Bui Viet Hung	Nguyen Huu Anh	To Thanh Danh	Vo Thai Duong	Nguyen Minh Tri 2	Do Ngoc Trung	Pham Van Cong Hau	Nguyen Dinh Long	Le Son Dy	Pham Thi Thu Thao	Le Hung Cuong	Phan Thanh Duy	Nguyen Hoang Phi	Phan Minh Phat
	Pham Huynh Minh Sang		Nguyen Thanh Quang	Trinh Nha Nhi Huy	Truong Hoang Ngoc	Dang Huu Trung Hieu	Nguyen Le Gia Tri		Nguyen Hong Thuan	Tong Duc Duy	Huynh Huu Tai		Vo Tran Quang Huy	
	Phan Thanh Trung		Vu Tung Duong	Chau Le Tuan Vy		Pham Minh Quan 2			Nguyen Quang Le Kien		To Chi Thanh		Duong Vu Thanh Long	
	Tran Quang Hao		Ton That Lam	Nguyen Huy Hoang 3	Nguyen Duc Nghia	Nguyen Tran Trung Hieu			Ha Nhu Thuan		Pham Van Huy			
			Nguyen Tan Hung	Nguyen Hoang Minh	Trinh Tran Trung	Pham Trung Quoc			Vo Huu Trai		Tran Co Tam			
			Nguyen Pham Minh Tri	Duong Le Tuan Anh	Tran Minh Quan 2	Le Thanh Phuc					Huynh Nguyen Quang Mao			

			Nguyen Thanh Toan										

Meeting record

[BV-RVC][SOC SW] Responsibity matrix, team structure