

SOAFEE APAC Regional Hub

2025/05/15

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Leader of SOAFEE APAC Regional Hub

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Self Introduction



Jerry, Jiancong Zhao

Joined Panasonic since graduate in 2017 and now leading the overall standardization and advanced engineering activities of SDV-related virtualization

AGL SDV-EG Leader since 2020



(New) Leader of SOAFEE APAC Regional Hub



Travel



Game



Talk



Background



Barriers for APAC Participants to join Current SOAFEE WG

SOAFEE has 40% APAC members, but

Time-zone Barrier:

• Most SOAFEE WG meetings are held in 3pm or 4pm UK time, which are the midnight in AP.

Language Barrier:

 Fast discussion pace and difficult technical words in English blocks APAC participants to join the meeting.

Cultural Barrier:

• When discussing, APAC members(especially East Asia) tends to be "polite" and "less aggressive", which causes voices may be not heard.

Setting Regional Hubs could be a Solution

Time-zone:

• No overnight meetings anymore.

Language:

• Communication in the mother tongue or English in a reasonable speed.



Cultural Barrier:

• More organized and comfortable environment for expressing ideas.

Pathway to SOAFEE APAC Regional Hub

SOAFEE Semina

APAC Region

1st SOAFEE APAC Seminar @Tokyo, 2023.9

2nd APAC Seminar @Shanghai, 2024.5

3rd APAC Seminar @Seoul, 2024.9

→ Brainstorming Workshop for Setting up Regional Hub

APAC is a pivotal region for the automotive industry. A wide variety of companies are contributing to SOAFEE (Scalable Open Architecture for Embedded Edge), which is enabling the development and

deployment of software solutions for the Al-enabled software-defined vehicle (SDV). Therefore, we are thrilled to announce that a SOAFEE Seminar will be held in Korea in September, allowing local

teams to collaborate, network and share their software developments and insights with the growing

Ready to be part of an exclusive gathering exploring how SOAFEE is reshaping the automotive landscape? Register now for in-person only places at the event on September 24, 2024, at LG

Stay tuned for updates on our distinguished lineup of speakers, including industry pioneers, OEMs,

Don't miss this chance to join us on the SOAFEE journey as we continue to advance Al-enabled

Location: LG Science Park ISC Building (30 Magokjungang 10-ro, Gangse-gu, Seoul)

APAC SOAFEE community, which includes renowned industry leaders.

SOAFEE Seminar

SOAFEE | 24 September 2024

Science Park, Seoul, Korea.

Date: September 24, 2024

Tier 1 suppliers, and silicon vendors.

software-defined vehicles in the APAC region We can't wait to see you there!

APAC Region

4th APAC Seminar @Tokyo, 2025.5

→ Official launch of SOAFEE APAC Regional Hub



me	Agenda			
0:00 -10:10	Opening			
10:10 -10:40	SOAFEE SIG and APAC Regional Hub			
10:40 -11:10	SOAFEE.NEXT Showcasing - Astemo's Virtual Platform aligned with SOAFEE and evolving towards SOAFEE.NEXT			
11:10 -11:30	Break & Demo Visit			
11:30 - 11:50	Voice of Car OEMs - Promotion of Open Source and Software Supply Chain Management in the SDV Era			
11:50 - 12:10	Voice of Car OEMs - Architectural Innovation Driving SDV Evolution: GAC's Framework Achieving Core Objectives & Advancing SOAFEE Implementation			
12:10 -12:30	Voice of Car OEMs - Virtual Platform for "Chip to Factory"			
12:30 -13:30	Lunch & Demo Visit			
13:30 - 13:40	Deterministic SDV Overview			
13:40 - 14:20	Deterministic SDV - Who Is Responsible for the Deterministic System?			
14:20 -15:00	Deterministic SDV - The Curse of Zonal Architecture			
15:00 -15:40	Deterministic SDV - Deterministic middleware for cloud native development			
15:40 -15:55	Break & Demo Visit			
15:55 - 16:00	SOAFEE Blueprints: Making the SDV's a Reality			
16:00 -16:30	Blueprints - Decoupling Cockpit Software and Hardware - Introduction of vSkipGen and Unified HMI			
16:30 -17:00	Blueprints - AosEdge to enable Scalable Deployment & Mixed Critical Orchestration for Virtual and Real			
17:00 -17:30	Blueprints - LG PICCDLO on EWAOL, And Next of LG PICCOLO			
17:30 - 18:00	Blueprints – SOAFEE.NEXT CI/CD with CC: SOAFEE IntegrationLab to test Blueprints			
18:00 - 18:05	Closing			
18:05 - 19:30	Networking with drink & food			

- Kickoff preparation & Trial operation with a biweekly call since last Nov.
- 20+ SOAFEE members, 10+ Companies actively joining discussions

APAC ASIA EVENT 2023

Welcome to the **SOAFEE Seminar**

soafee

Agenda					
09:00-09:20	Opening				
09:20-09:50	SOAFEE SIG update and future plans				
09:50-10:00	Break				
10:00-10:30	System design and verification for Mixed-Criticality Systems in SDV				
10:30-11:00	Enabling a Software-Defined Automotive Edge with VirtIO based Device Virutalization				
11:00-11:30	Internet of Vehicles Platform				
11:30-12:30	Lunch				
12:30-13:00	The Rise of Software-Defined Vehicles and Cloud-to-Vehicle Edge Parity				
13:00-13:30	Introduction to Autoware Open AD Kit				
13:30-13:40	Break				
0 2023 SOAFEE					

Join the SOAFEE SIG and China teams for the next SOAFEE Seminar on 9 May 2024.



Location: The Ritz-Cartton Shane Pudono.China Date: 9 May 2024

F E E Agenda



Activities

SOAFEE Special Interest Group

Objective of Regional Hub

Goal: Solve OEM Challenges in Common towards SDV Shift Five A"**ct**"

- 1. Collect: Create a platform for unite APAC voices towards SDV
 - a. Address worldwide problems that APAC OEMs are also facing and specific APAC OEMs problems
 - b. Analyze and Commonize to form a consensus towards common problem statements
- 2. Enact: Make standards and reference implementation suitable for APAC needs
- 3. Interact: Play a role of bridge between APAC and World
- 4. Connect: Enhance Collaboration with other APAC OSS/Standardization Organizations
- 5. Impa**ct**: Make impact on the region and contribute outcome to the SOAFEE SIG (world)



SOAFEE APAC Regional Hub Topics

SOAFEE: "Working together to build open-source architecture for software-defined vehicles. Together we have one single goal - to create a shared platform for vehicles using **cloud-native architecture** that accommodates multiple hardware configurations. By making SOAFEE **hardware agnostic**, we plan to **simplify vehicle software solutions radically**."

https://www.soafee.io/

Bottom-up Approach -> From existing SOAFEE direction. Collecting member company SOAFEE bluerprints.

- Abstraction: To abstract and decouple software from hardware -> Hardware agnostic
 - e.g. VirtIO, Unified HMI
- **Containerization**: To establish simple architecture for microservices and enable migration between cloud and automotive edge
 - e.g. Piccolo, Lingua Franca, IOV
- **Cloudification**: To create cloud-native architecture to enable automotive software capable to be developed or executed in cloud environment
 - e.g. Virtual Hardware, Graviton, Virtual Prototyping, vSkipGen

Top-down Appoach -> New approach in Regional Hub. Listen to industry (especially OEMs) needs & voices -> SOAFEE APAC Seminar & Workshop arranged

SOAFEE APAC Regional Hub Biweekly Meeting

- ➢ Bi-Weekly regular meeting at 11am − noon of JST.
 - APAC friendly time slot;-)
 - The next meeting is on May 28
- Regular Topics
 - SOAFEE SIG Updates (TSC, MSC and other WGs)
 - Blueprint Sharing & Updates (If any)
- Timely Topics
 - SOAFEE APAC Seminar Wrap-up & Next Actions
- ➤ How to join?
 - Contact Jerry or Morris to add you into the invitation
 - Zhao Jiancong(Jerry) <chou.kensou@jp.panasonic.com>
 - Morris Hung <Morris.Hung@arm.com>



Today's Seminar Topics

Topic Overview

Time	Торіс		
10:00 AM - 10:10 AM	Opening		
10:10 AM - 10:40 AM	SOAFEE SIG and APAC Regional Hub	1 -	SOAFEE Updates
10:40 AM - 11:10 AM	SOAFEE.NEXT Showcasing – Astemo's Virtual Platform aligned with SOAFEE and evolving towards SOAFEE.NEXT		
11:10 AM - 11:30 AM	Break & Demo Visit		
11:30 AM - 12:30 PM	Voice of Car OEM - Promotion of Open Source and Software Supply Chain Management in the SDV Era	17	
11:50 - 12:10	Voice of Car OEMs - Architectural Innovation Driving SDV Evolution: GAC's Framework Achieving Core Objectives & Advancing SOAFEE Implementation		Voices of OEMs
12:10 -12:30	Voice of Car OEMs - Virtual Platform for "Chip to Factory"	-	
12:30 PM - 1:30 PM	Lunch & Demo Visit		
1:30 PM - 1:40 PM	Deterministic SDV Overview	17	
1:40 PM - 2:20 PM	Deterministic SDV - Who Is Responsible for the Deterministic System?		Deterministic SDV
2:20 PM - 3:00 PM	Deterministic SDV - The Curse of Zonal Architecture		
3:00 PM - 3:40 PM	Deterministic SDV - Deterministic Middleware for Cloud Native Development		
3:40 PM - 3:55 PM	Break & Demo Visit	1	
3:55 PM - 4:00 PM	SOAFEE Blueprints: Making the SDV's a Reality	1	
4:00 PM - 4:30 PM	Blueprints - Decoupling Cockpit Software and Hardware – Introduction of vSkipGen and Unified HMI	17	
4:30 PM - 5:00 PM	Blueprints - AosEdge to enable Scalable Deployment & Mixed Critical Orchestration for Virtual and Real		
5:00 PM - 5:30 PM	Blueprints - LG PICCOLO on EWAOL, And Next of LG PICCOLO		SDV in SOAFEE Blueprints
5:30 PM - 6:00 PM	Blueprints – SOAFEE.NEXT CI/CD with CC: SOAFEE IntegrationLab to test Blueprints		
6:00 PM - 6:05 PM	Closing		
6:05 PM - 7:30 PM	Social Gathering with Drink & Food		



Thank You Danke Gracias Grazie 谢谢 ありがとう Asante Merci 감사합니다 धन्यवाद **Kiitos** شکرًا ধন্যবাদ תודה

