

# SOAFEE-in-Action

At Eclipse SDV Member Meeting 2025

Seiji Ishikawa, Arm K.K.

December 11<sup>th</sup>, 2025

# What is SOAFEE?

オープンな規格でCloud2Carを実現します

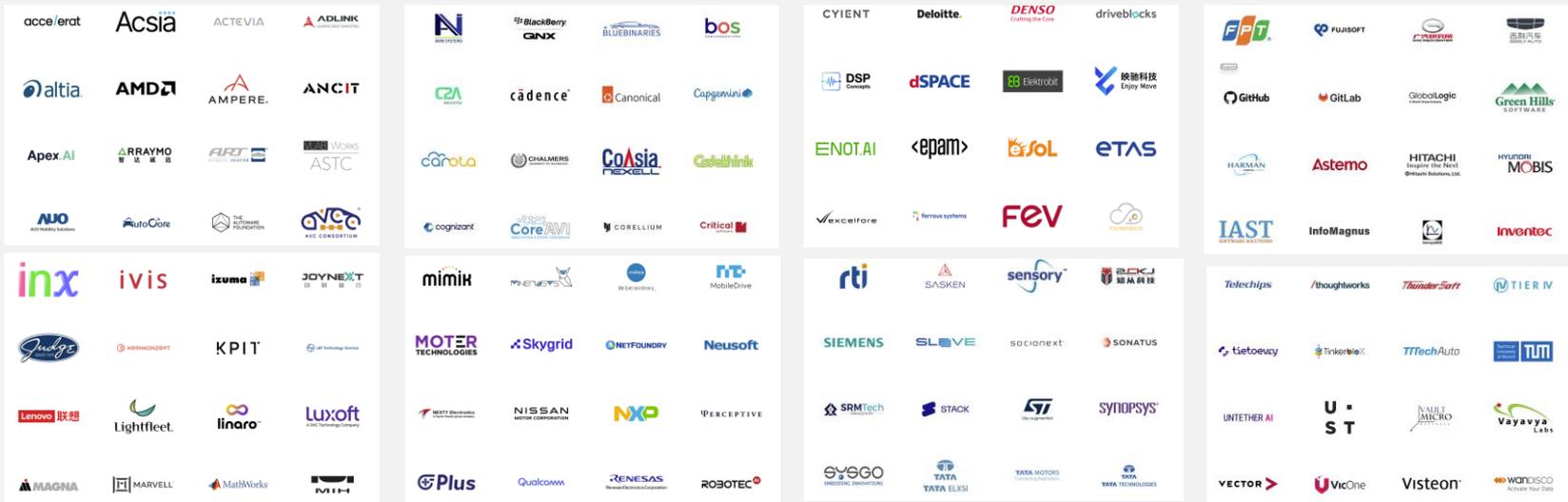
- Scalable Open Architecture For Embedded Edge
  - Established since 2021 for Cloud2Car by Govering Body Members.
    - Deploy the application software developed on a cloud to a car.
- Blueprint sharing
  - Example implementations of SOAFEE by the members for Cloud2Car. <https://www.soafee.io/about/members>
    - Anything, including commercial ones, for Cloud2Car is ok for SDV/AIDV.
- Standardized Interfaces/EWAOL – Reference Software Stack
  - Edge Workload Abstraction and Orchestration Layer for Cloud2Car.
    - As the example/reference software stack for the containerized application.
- APAC Regional Hub
  - Formed in 2024, APAC Regional Hub is a dynamic forum for APAC SOAFEE members to communicate and collaborate
    - Bi-Weekly meeting at APAC friendly time.



# SOAFEE Voting Members/SIG: Special Interest Group

- 150+ members (Membership for Free)

SIGへの参加は無料です



<https://www.soafee.io/about/members>

# SOAFEE-in-Action

SOAFEE collaboration is driving the SDV/AIDV forward

SDV/AIDVを推進する、3つの活動を紹介します。

## SOAFEE Blueprints

- SOAFEE Blueprints are the way to showcase SOAFEE methodologies and technologies
- Used as a mechanism to advance SOAFEE and its goals going forward
- Available to both SOAFEE members and external users
  - Collaboration is key
- Blueprint examples are on show at SOAFEE Seminars

## APAC Regional Hub

- Liaise closely with, and influence, the SOAFEE corporate entities in APAC
- For more information, please speak to Jerry Zhao, Panasonic Automotive Systems, APAC Hub Chair

## Standardized Interfaces

- Blueprints and APAC Hub are contributing to the next chapter of SOAFEE – **utilizing standardized interfaces for both run-time and development stacks**
- This leads to portability of software for ease of development and deployment of the SDV/AIDV

# SOAFEE Blueprint

# Blueprints to be shared

## Cloud2Car対応の公開実例集です

- [SOAFEE in Action | Soafee.io](#)

SOAFEE Blueprint: AosEdge - Scalable Deployment and...  
SOAFEE Blueprint: AosEdge - Scalable Deployment and Orchestration Platform for Automotive  
Learn more

Innovative Collaboration Between LG Electronics and SOAFEE...  
The automotive industry is undergoing a transformation towards Software-Defined Vehicles (SDVs), and in this process, LG Electronics has...  
Learn more

SOAFEE Blueprint: DENSO develops deterministic...  
Software-defined vehicles (SDVs) are transforming the industry and paving the way for optimized mobility solutions in the future.  
Learn more

**Red Hat**

SOAFEE Blueprint: The Benefits of Open Standards in Automotive...  
The automotive industry is undergoing a massive transformation driven by a perfect storm of market drivers from electrification, hardware consolidatio...  
Learn more

**30+ new registrations discussions are on-going.**

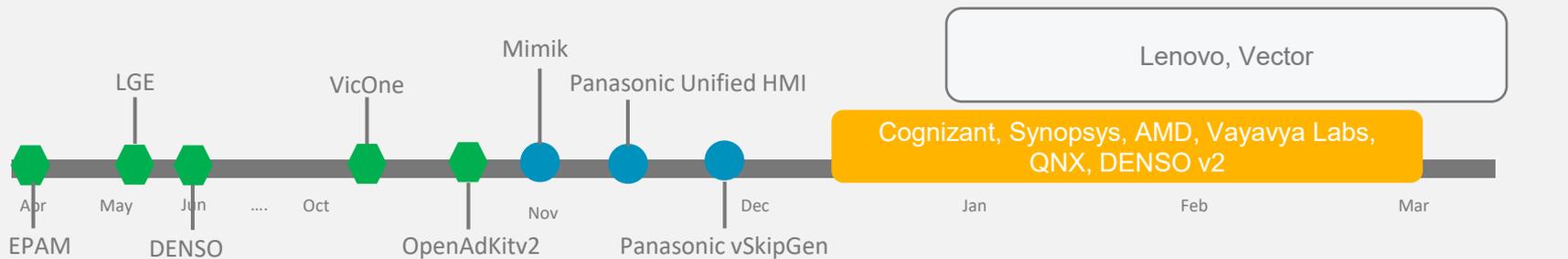
[SOAFEE Blueprint Submission](#)

- Member-delivered OSS or commercial building blocks that demonstrate SOAFEE in action.
- Showcase or validate SOAFEE standardized interfaces across the automotive software stack.
- Can leverage collaboration between multiple members and other industry alliances.  
(e.g., AUTOSAR, COVESA, and Eclipse SDV)
- Validated through SOAFEE's Technical Steering Committee and promoted as real examples of industry collaboration.
- SOAFEE will work with existing standards bodies to share real-world feedback and technical contributions.  
(e.g., FujiSoft: Open SDV Initiative at EdgeTech+ 2025)

# SOAFEE in Action — Blueprint Roadmap



公開済み・公開予定・公開前最終確認・公開確約分



[Open AD Kit: The First SOAFEE Blueprint Powering Open Collaboration in Autonomous Driving | Soafee.io](#)

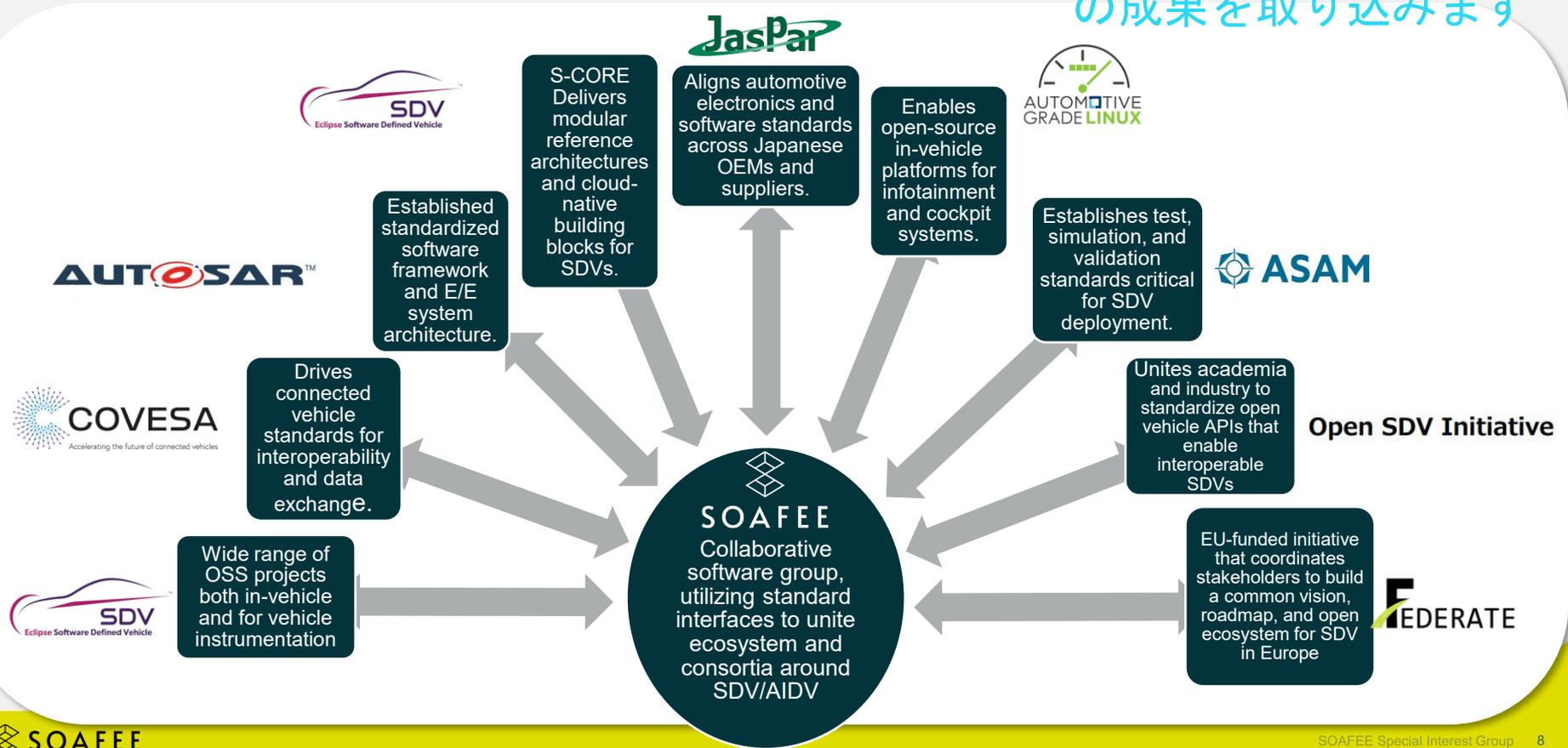
Collaboration among: AUTOWARE, Red Hat, Arm, Excelfore and AWS

- Published
- Committed release
- Date being finalized
- Committed pipeline

# How SOAFEE fits into the consortium landscape

Collaboration extends to other initiatives as part of Blueprints

あらゆるCloud2Car活動の成果を取り込みます



# SOAFEE

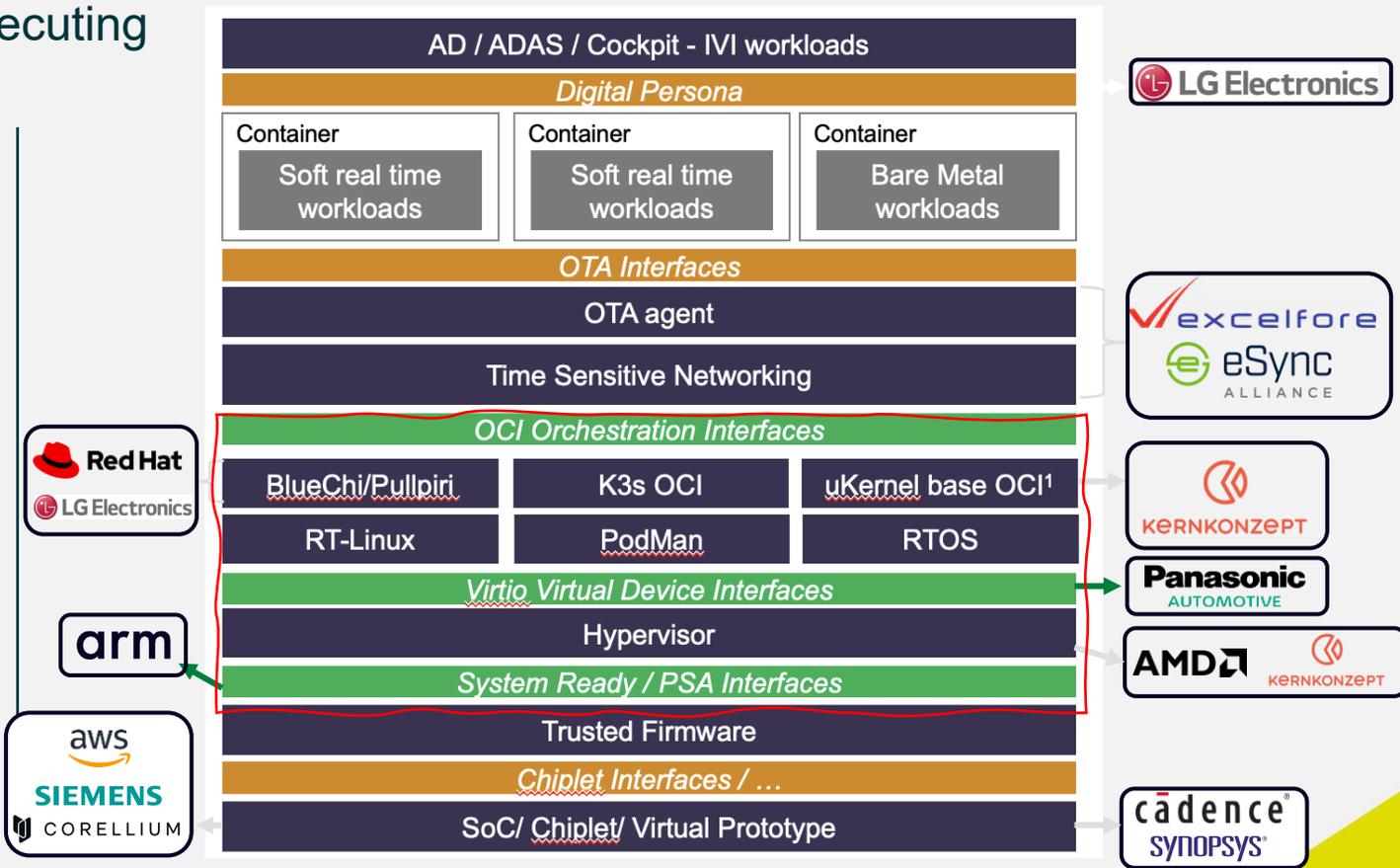
# Standardized Interfaces

# Standardized runtime stack interfaces

## What SOAFEE is Executing

- Reference Implementations available that follow the SOAFEE philosophy
- As a collaborative software group, SOAFEE:
  - Works with existing standards bodies to share real-world feedback and technical contributions
  - Validates and showcases standardized interfaces through deployable, member-driven (OSS & Commercial) SOAFEE Blueprints.

Including EWAOL



1: In planning

# SOAFEE APAC Regional Hub

# 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.

深夜の会議



## Language Barrier:

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

英語の会話



## Cultural Barrier:

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

内気な参加者

# Setting Regional Hubs could be a Solution



## Time-zone:

- No overnight meetings anymore.

定時内の会議



## Language:

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

母国語OK  
平易な英語



## Cultural Barrier:

- More organized and comfortable environment for expressing ideas.

発言しやすい  
雰囲気

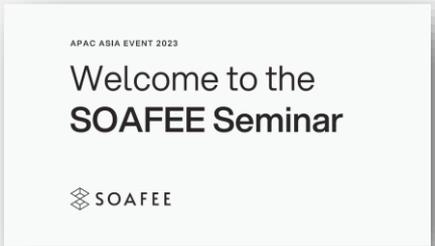
# Pathway to SOAFEE APAC Regional Hub

1<sup>st</sup> SOAFEE APAC Seminar  
@Tokyo, 2023.9

2<sup>nd</sup> APAC Seminar  
@Shanghai, 2024.5

3<sup>rd</sup> APAC Seminar  
@Seoul, 2024.9  
→ Brainstorming Workshop  
for Setting up Regional Hub

4<sup>th</sup> APAC Seminar  
@Tokyo, 2025.5  
→ Official launch of  
SOAFEE APAC Regional Hub



Agenda

09:00-09:30	Opening
09:30-09:45	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 Virtualization
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

半年程のトライアルを経て、  
本年5月に正式発足しました



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

# SOAFEE APAC Regional Hub Biweekly Meeting

- **Bi-Weekly regular meeting at 11am – noon of JST.**
  - **APAC friendly time slot;-)**
  - **Chairperson: Jerry Zhao, Panasonic Automotive Systems**
  
- Regular Topics
  - SOAFEE SIG Updates (TSC, MSC and other WGs)
  - Blueprint Sharing & Updates (If any)
  
- Timely Topics
  - SOAFEE APAC Seminar/Workshop Discussions for specific topics
  
- How to join? **メンバー外の方でも、議事公開OKなら、随時参加可能です！**
  - Contact Jerry Zhao or Jerry Shu to add you into the invitation
    - Jerry Zhao [chou.kensou@jp.panasonic.com](mailto:chou.kensou@jp.panasonic.com)
    - Jerry Shu [Jerry.Shu@arm.com](mailto:Jerry.Shu@arm.com) -> Especially for Chinese companies

# SOAFEE APAC Seminars

Over 500 face to face attendees and 66 presentations

September 2023 - Tokyo



September 2024 - Seoul



インドでの開催追加を検討中

November 2025 - Shanghai



May 2024 - Shanghai



May 2025 - Tokyo

2026 - India

# How to Get Involved

皆様のご連絡をお待ちしております m(\_ \_)m

## Participating and Contributing to SOAFEE

- Learn (more) about SOAFEE
  - Browse documents section at [soafee.io](https://soafee.io)
- Use the SOAFEE [slack channel](#)
- Download SOAFEE reference integration and implement it in your system
- Follow SOAFEE on [LinkedIn](#) 
- Consider joining SOAFEE SIG
- Contacts :

[tobias.mcbride@arm.com](mailto:tobias.mcbride@arm.com)

for more info on Blueprints & becoming a SOAFEE member

[Robert.day@arm.com](mailto:Robert.day@arm.com)

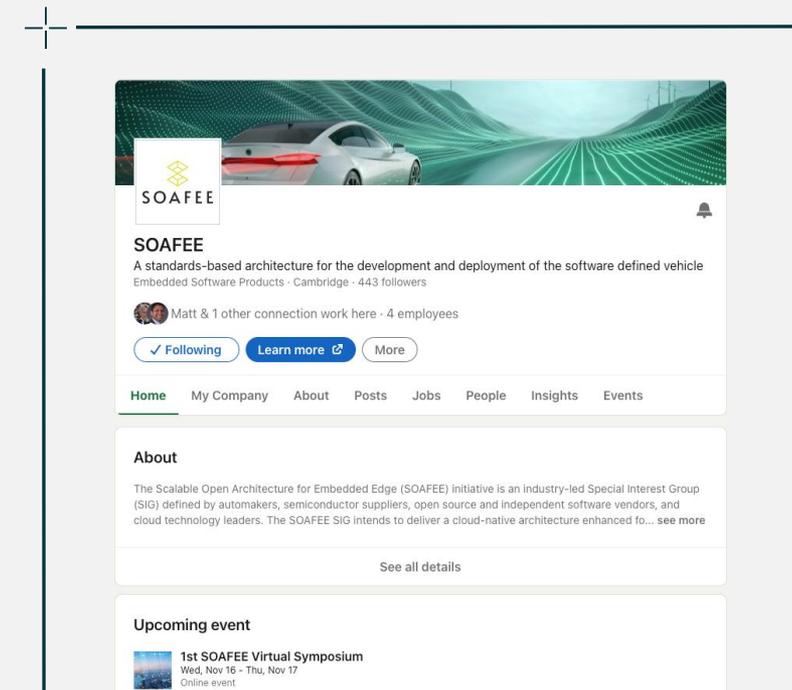
for more information on SOAFEE marketing (MSC)

[John.penn@arm.com](mailto:John.penn@arm.com)

for more information on SOAFEE technical (TSC)

[Andrew.coombes@arm.com](mailto:Andrew.coombes@arm.com)

for more information on joining AUTOSAR JG-SOAFEE



[chou.kensou@jp.panasonic.com](mailto:chou.kensou@jp.panasonic.com) (Jerry Zhao)

for more information on joining SOAFEE APAC regional hub



Thank You

Danke

Gracias

Grazie

谢谢

ありがとう

Asante

Merci

감사합니다

धन्यवाद

Kiitos

شكرًا

ধন্যবাদ

תודה

