

# [RFC] VDA (Vehicle Data Agent)

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## On differences from actual products related to Vehicle data (include kaizen)

### □ Apps side

- Apps is depend vehicle HW IF
- Apps is depend CAN data format
- Apps is depend destination requirement
- > Shall be all vehicle data change to AGL public data provide to Apps

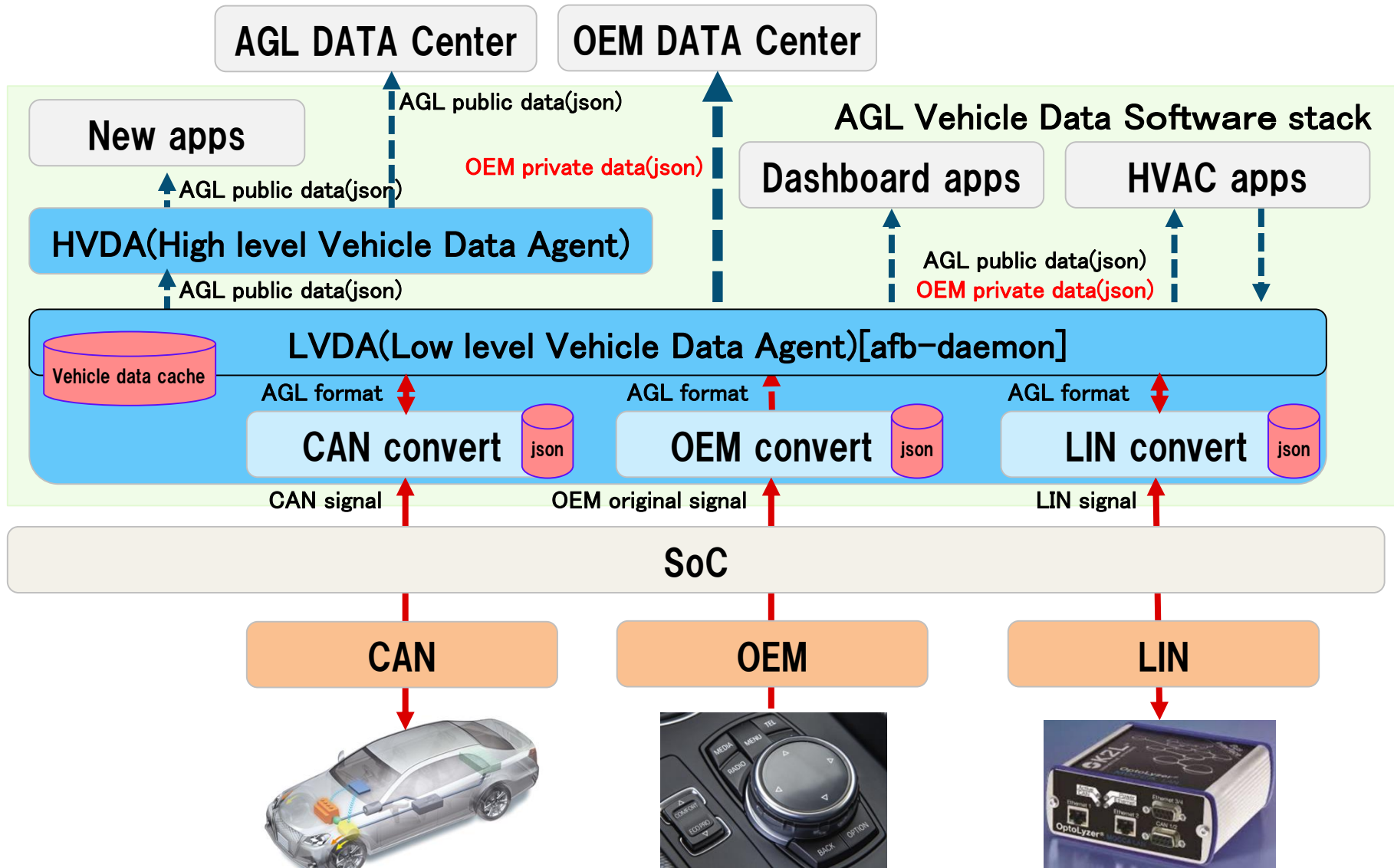
### □ MW side

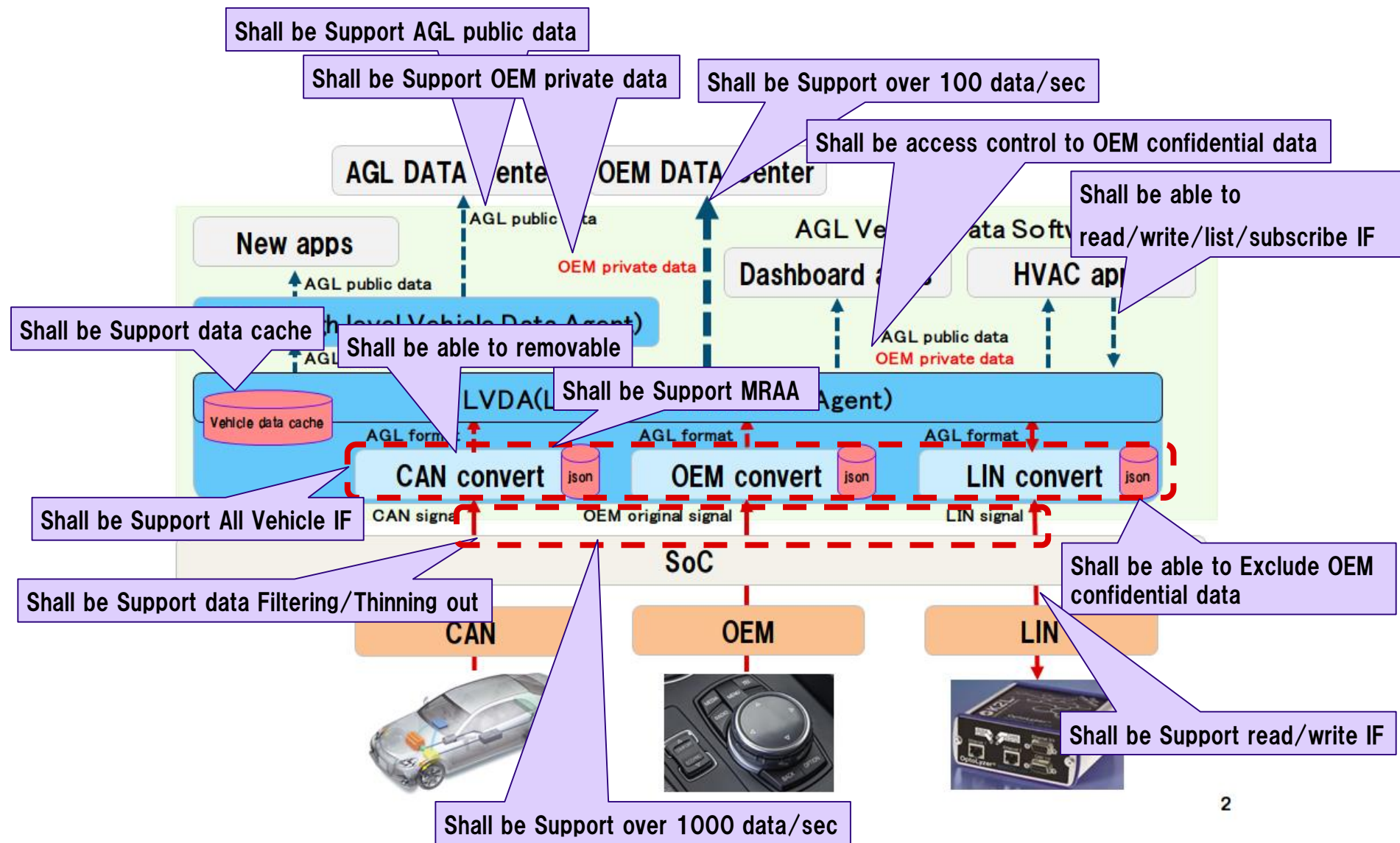
- MW need to very high cycle vehicle data received
- MW need to support OEM private confidential data
- MW need to protect OEM private confidential data
- MW need to support many vehicle HW IF
- MW need to vehicle data cache
- MW need to easy removable vehicle HW IF

### □ Data Center side

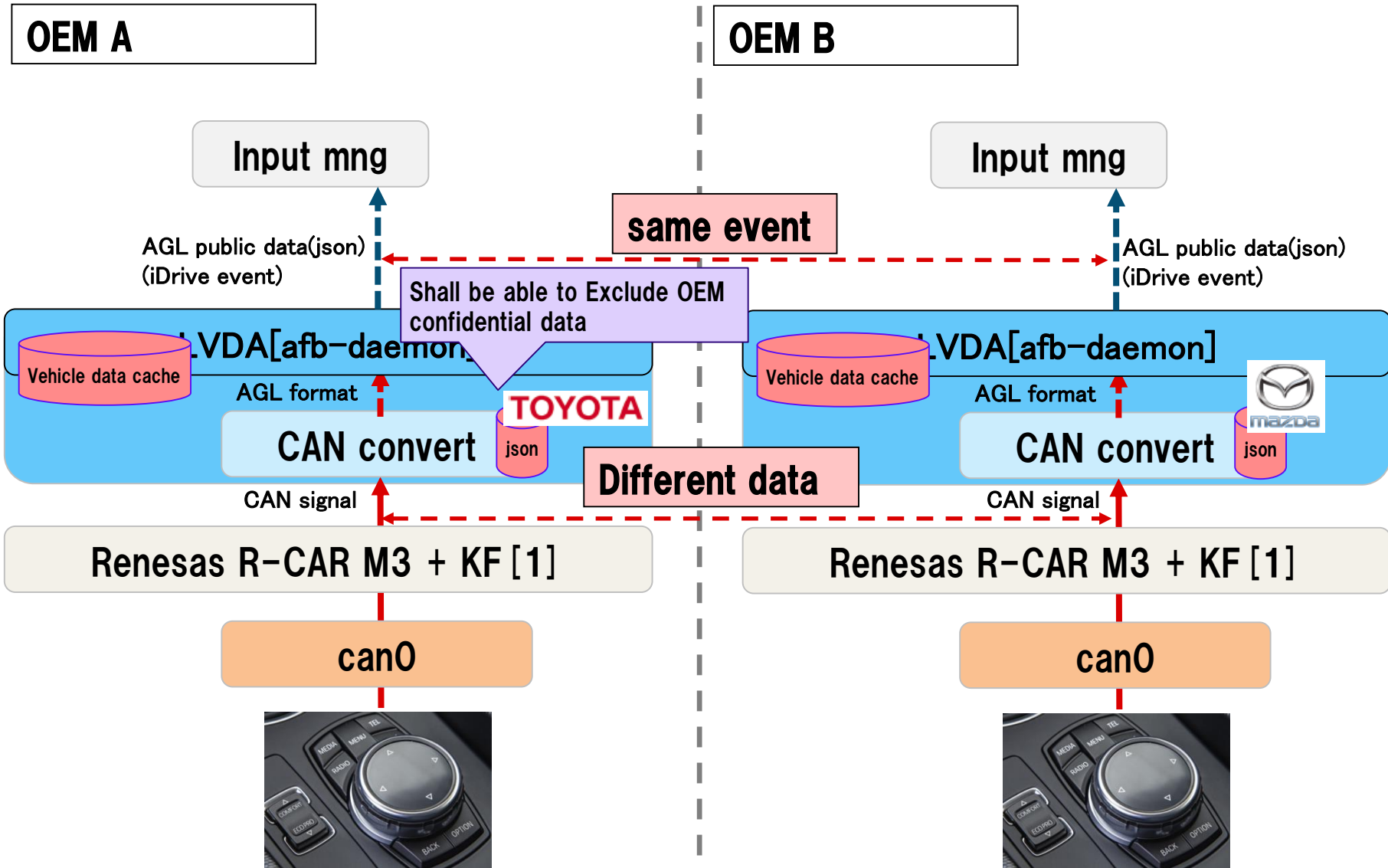
- Data Center need to real time vehicle data.
- Data Center need to sync vehicle data when vehicle change offline to online.

**All vehicle data change to AGL public data and OEM private data provide to Apps**





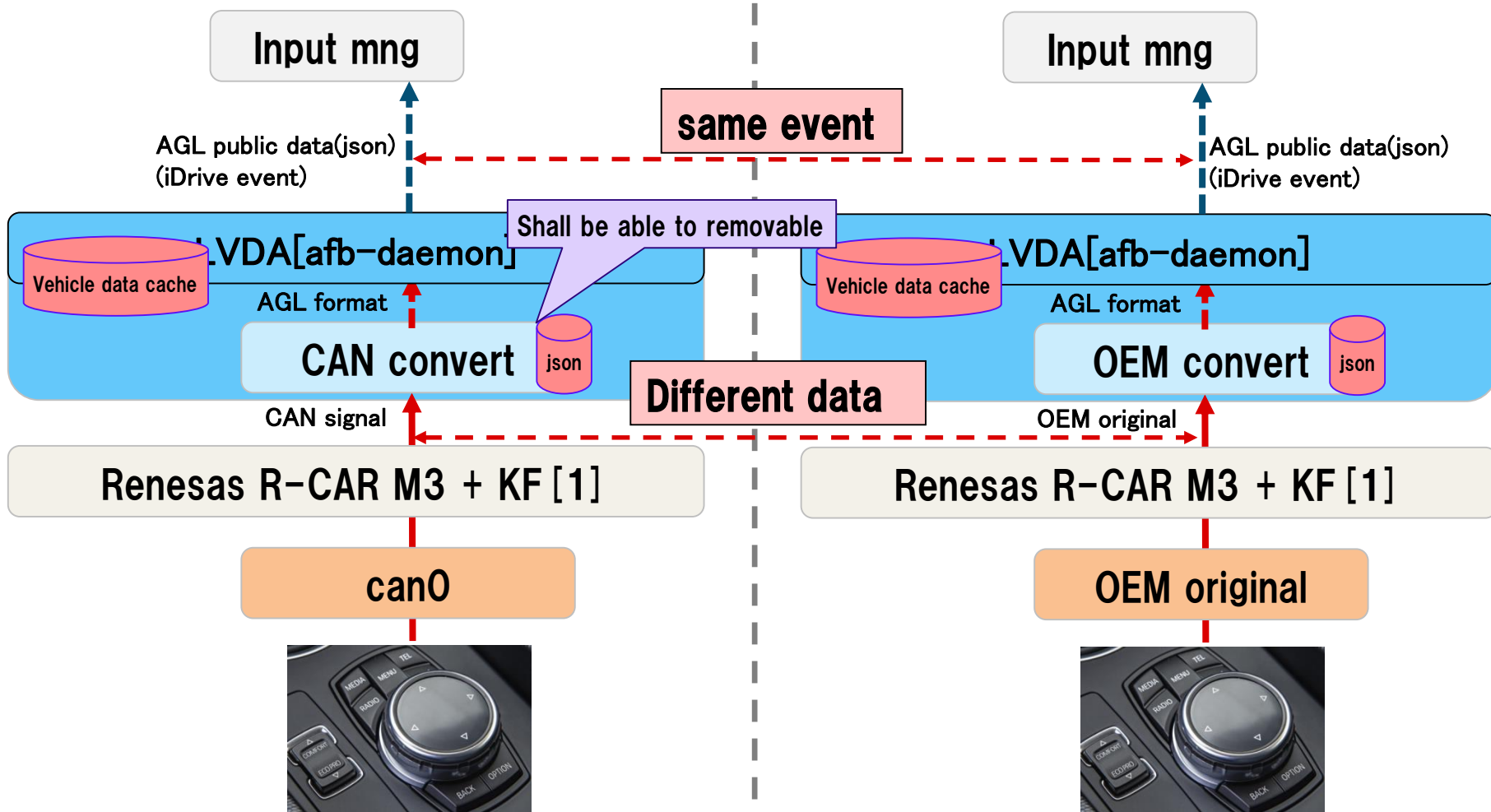
VDA provide to same event to Apps from different CAN data.



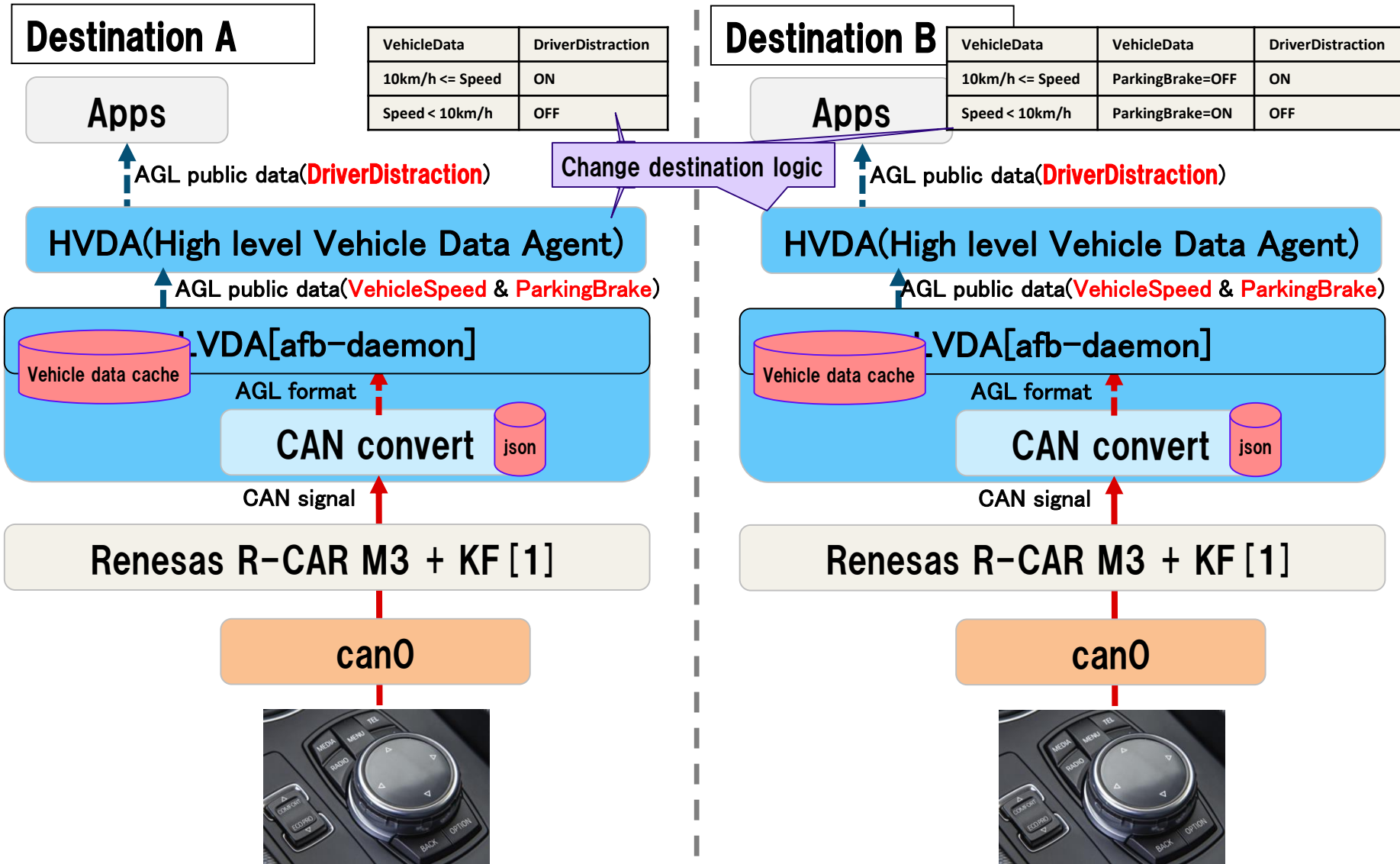
VDA provide to same event to Apps from different hardware IF.

OEM A model 1

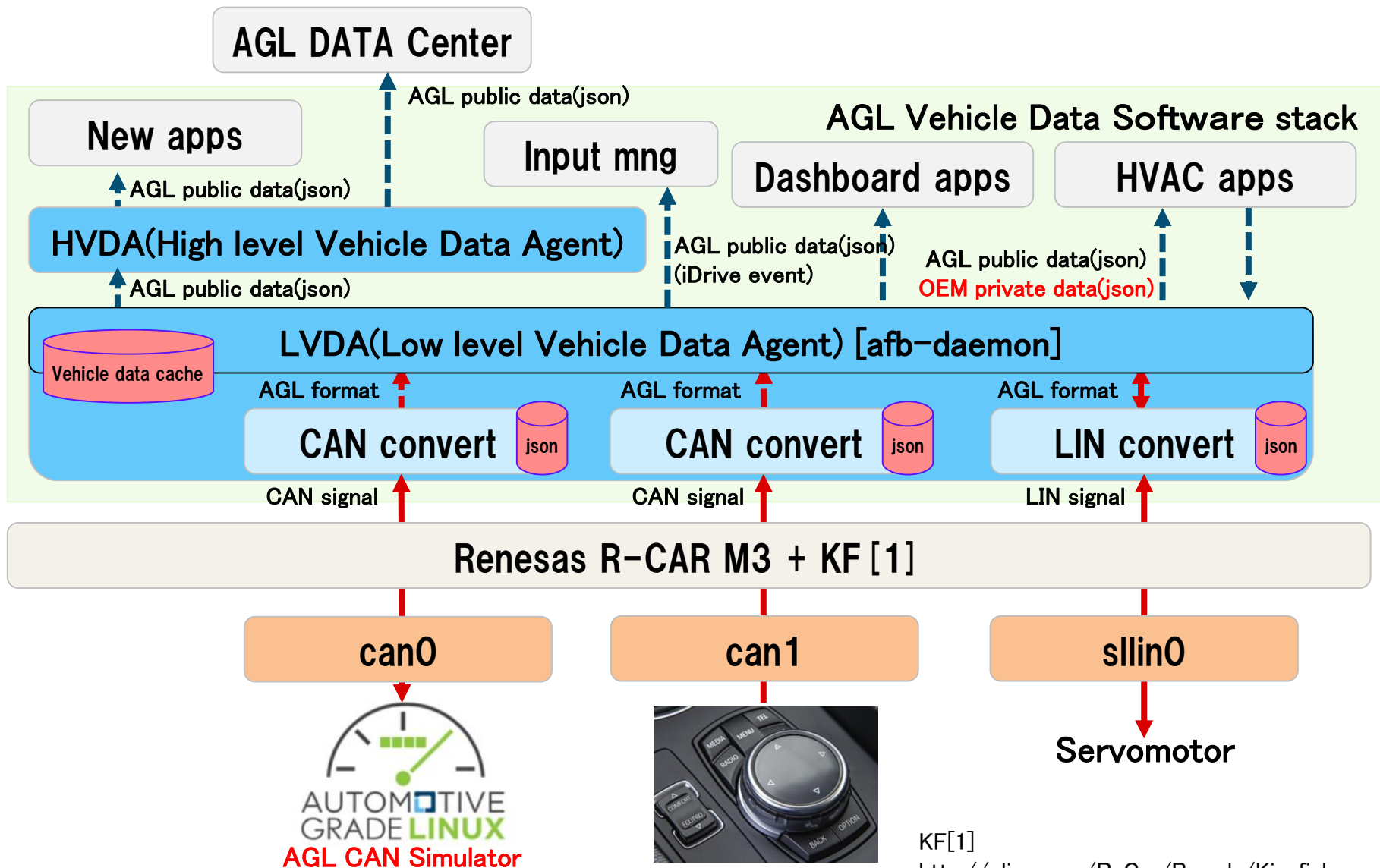
OEM A model 2



## Apps not depend destination requirement (For example Driver Distraction)









**Collaborate with the Reference Hardware System Architecture Expert Group**

# Sample

AGL Public Vehicle Data				AGL Reference Data			
No	Data label(Apps side)	value	AGL Reference IF	ID	Length	Data	cycle(ms)
1	VehicleSpeed	unsigned short	CAN	0x010	2	**,**	16
2	GearPosition	unsigned char	CAN	0x100	1	**	64
3	LightStatus	unsigned short	CAN	0x200	2	**,**	100
4	Seatbelt;	unsigned short	CAN	0x300	2	**,**	200
5	FuelInterface	unsigned short	CAN	0x400	2	**,**	1,000
6	EngineSpeed	unsigned long	CAN	0x011	4	**,**	16

**Reference to w3c, OpenXC and FMS Vehicle data**