CVII – Common Vehicle Interface Initiative – Survey Results

July 2021

Project Technical Scope

Q: Indicate the degree to which you agree or disagree with the following statements

What is key to ease in-vehicle integration

	STRONGLY DISAGREE	SOMEWHAT DISAGREE	NOT SURE	SOMEWHAT AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
Standardization of data and APIs (actual definitions) is necessary for in-vehicle integration	3.85% 1	3.85% 1	7.69% 2	30.77% 8	53.85% 14	26	4.27
Standardization and collaborative development of data exchange and integration technologies is necessary for in-vehicle integration (inside or between ECUs).	3.85% 1	15.38% 4	11.54% 3	30.77% 8	38.46% 10	26	3.85

Q: Indicate the degree to which you agree or disagree with the following statements

What is key to ease vehicle edge implementation

	STRONGLY DISAGREE	SOMEWHAT DISAGREE	NOT SURE	SOMEWHAT AGREE	STRONGLY AGREE	TOTAL
Standardization and collaborative development of data protocols and integration technologies is necessary for the vehicle-edge.	0.00% 0	0.00% 0	15.38% 4	38.46% 10	46.15% 12	26
Standardization of data and APIs (actual definitions) is necessary for the vehicle-edge.	0.00% 0	0.00% 0	19.23% 5	34.62% 9	46.15% 12	26

Q: Do you agree or disagree that standardization of data and APIs (actual definitions) is necessary for the 3rd party web/cloud application development ?

Is standardization of data and APIs key to ease 3rd party web/cloud application development ?

	STRONGLY DISAGREE	SOMEWHAT DISAGREE	NOT SURE	SOMEWHAT AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
(no label)	0.00% 0	0.00% 0	7.69% 2	23.08% 6	69.23% 18	26	4.62

Q: Are specs or implementation or both needed ?

Specifications are the key asset ! Implementation are required !

	STRONGLY DISAGREE	DISAGREE SOMEWHAT	NOT SURE	AGREE SOMEWHAT	STRONGLY AGREE	TOTAL
Standards specifications are ONLY useful with at least one open-source licensed reference implementation	7.69% 2	19.23% 5	23.08% 6	19.23% 5	30.77% 8	26
Standards specifications are ONLY useful with proven implementations from commercial entities	7.69% 2	26.92% 7	11.54% 3	38.46% 10	15.38% 4	26
It is better to only develop code instead of formal specifications	42.31% 11	26.92% 7	7.69% 2	15.38% 4	7.69% 2	26

Project Awareness & Company Engagement

Q: Please rate your understanding of the below listed technologies

	DON'T KNOW AT ALL	BASIC UNDERSTANDING	INTERMEDIATE UNDERSTANDING	ADVANCED UNDERSTANDING	TOTAL	WEIGHTED AVERAGE
Vehicle Signal Specification (VSS)	7.69% 2	42.31% 11	30.77% 8	19.23% 5	26	2.62
Vehicle Interface Service Specification (VISS)	11.54% 3	53.85% 14	26.92% 7	7.69% 2	26	2.31
Vehicle Service Catalog (VSC)	19.23% 5	53.85% 14	26.92% 7	0.00% 0	26	2.08
Franca Interface Description Language (Franca IDL)	34.62% 9	46.15% 12	15.38% 4	3.85% 1	26	1.88

Maturity Growth

Consolidation needed

Evangelization needed

Evangelization needed

Actions in progress

CVII Track	Action	Topic
VSS	Maturity Growth	Joint work on VSS with OPIN and eSync Alliance, putting VSS at work in insurance and SOTA domains
		Work in VHAL team on VSS to Vehicle Properties
	Evangelization	Reaching out to ISO Extended Vehicle WG6
		Reaching out to AUTOSAR (VSS to ARXML)
VSSo	Consolidation	Joint work on VSSo with Microsoft and BMW
		Reaching out to Catena-X
VSC	Consolidation	Need to stabilize the concept, evangelization needed
CVII Tech Stack - VISS	Consolidation	PoC architectural design and development
CVII Tech Stack - Bosch IoT	Consolidation	PoC architectural design and development
Franca IDL	Evangelization	Need for a wiki page with relevant info about Franca

Resulting Agenda for this Workshop

CVII Track	Topic
Common Model/Catalog (for services/APIs)	VSC and the industry-common Service Interface Language VSC language, Franca IDL, OpenAPI, AsyncAPI → single language
Alignment	ISO Extended Vehicle specification – status and possible future
Tech Stack	AUTOSAR – Discuss planning for connecting data and service models to common data model
Tech Stack	AOS – Overview of cloud-and-vehicle framework
Tech Stack	Building the CVII technology stack

Q4: How many CVII activities have you been involved (viewed or participated) in since the start, including W3C meetings, GENIVI AMMs and Technical, targeted CVII workshops, and Webinars?

ANSWER CHOICES	RESPONSES	
None so far	19.23%	5
1-2 Activities	53.85%	14
3-5 Activities	11.54%	3
More than 5 activities	15.38%	4
TOTAL		26

More commitment needed

Q: In which CVII-related area would you consider engaging if you can / could commit some of your time ?

ANSWER CHOICES	RESPONSES	
Improving and aligning towards common vehicle data description standards, a.k.a. (meta)models.	53.85%	14
Adding to the set of defined standard data signals	34.62%	9
In-vehicle network protocols / integration	26.92%	7
In-vehicle standard APIs for ECUs, SW-components, …	38.46%	10
Vehicle-to-cloud standard protocols / implementations	50.00%	13
Web/cloud application development	11.54%	3
Android Automotive platform-questions	11.54%	3
Android Automotive, applications	19.23%	5
Cloud-infrastructure, databases, cloud deployment & devops.	26.92%	7
Surveying and defining a common service/interface description standard, a.k.a. Interface-Description-Language(s)	15.38%	4
Programming, writing code (any code)	23.08%	6
Writing and improving documentation, proof-reading specifications.	15.38%	4
Other (please specify)	3.85%	1
Total Respondents: 26		

Engagement expected

Engagement expected

Thank you!

Contact W3C Transport and Automotive groups:

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