

ASAM e.V.

OpenODD Webinar

Nicco Dillmann
ASAM e.V.

10.06.2021
Online

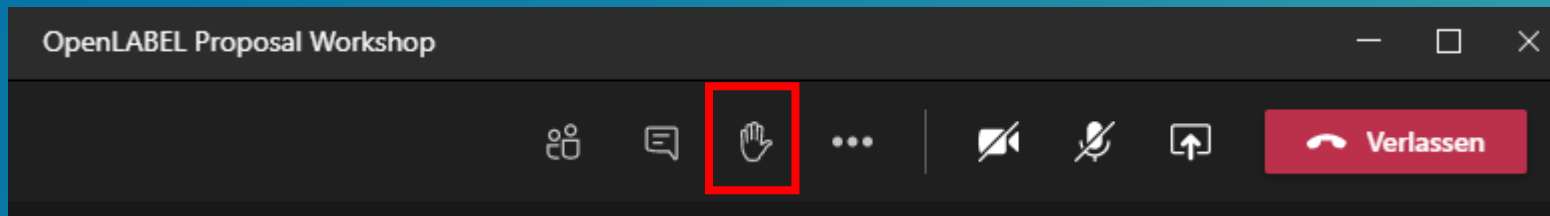


Agenda

| Time | Topic | Presenter |
|---------|--|---------------------|
| 1:00 PM | Welcome & Brief Introduction to ASAM | Nicco Dillmann |
| 1:15 PM | ASAM OpenODD - An Overview on Concept and Solutions | Siddhartha Khastgir |
| 1:30 PM | OpenODD Attributes | Nicola Croce |
| 1:45 PM | OpenODD Format | Jason Zhang |
| 2:00 PM | Application Story of ODD as part of Safety Assurance | Bernhard Kaiser |
| 2:25 PM | Break | |
| 2:40 PM | Demo of SafetyPool Usecase for ODD Scenario Tagging | Nicola Croce |
| 3:00 PM | OpenODD representing Uncertainty and Risk | Edward Schwalb |
| 3:20 PM | Q&A Session | All |
| 4:00 PM | | |

We will record the workshop and publish the recording on the ASAM Website

Please raise your hand if you do not want to be recorded.



Organizational Remarks

This meeting is a public meeting. It is NOT restricted to only ASAM members. Antitrust Rules apply.

Recording of this Teams Meeting

It is prohibited According to the General Data Protection Regulation (GDPR), in effect since May 25, 2018, all concerned people must be informed comprehensively in accordance with Art. 13 DSGVO if data of the people are processed (collected, saved, forwarded, deleted, etc.). This includes photos as well as audio and video recordings (independent of location and time of the recording). The participants have not given their written consent for recordings. It is therefore prohibited by European law for any participant or other party to record this livestream. You will find the presentations as well as the meeting minutes on the ASAM Website after the event.

Thank you!
ASAM e.V.

ASAM

Who we are and what we do

- **Non-profit standardization organization** within the Automotive Industry
- Focus on **implementation level standards** (rather than the process level standards of e.g. ISO/SAE)
- ASAM standards are **recommendations**, they do not have an impact on regulatory framework
- **Open, non-competitive** standard development groups
- **Membership driven** standardization projects

ASAM Membership

Around 350 Member Organizations Develop and Apply ASAM Standards

OEMs



Tier-1 Suppliers



Tool Vendors / Service Providers



Universities / Research Institutes



Status: Feb 2021

ASAM Office

The ASAM Team “At Your Disposal” – At Any Time



Peter Voss
Managing Director
Phone: +49 170 9104720
Email: pv@asam.net



Dr. Klaus Estenfeld
Executive Advisor
Phone: +49 151 64631204
Email: ke@asam.net



Magdalena Weintritt
Management Assistant
Phone: +49 1709210718
Email: mw@asam.net



Dorothee Bassermann
Marketing Manager
Phone: +49 151 64412188
Email: db@asam.net



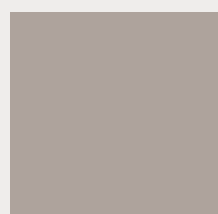
Stefan Cyliax
Global Technology Manager
Phone: +49 170 9213579
Email: sc@asam.net



Nicco Dillmann
Global Technology Manager
Phone: +49 160 99218048
Email: nd@asam.net



Ben Engel
Global Technology Manager
Phone: +49 151 61645936
Email: be@asam.net



Christian Gödert
Technical Writer
Phone: +49 170 9210750
Email: cg@asam.net

ASAM Japan G.K.



Yoshiaki Shoi
Representative in Japan
Phone: +81 (0)3-6721-8503
Email: ys@asam.net

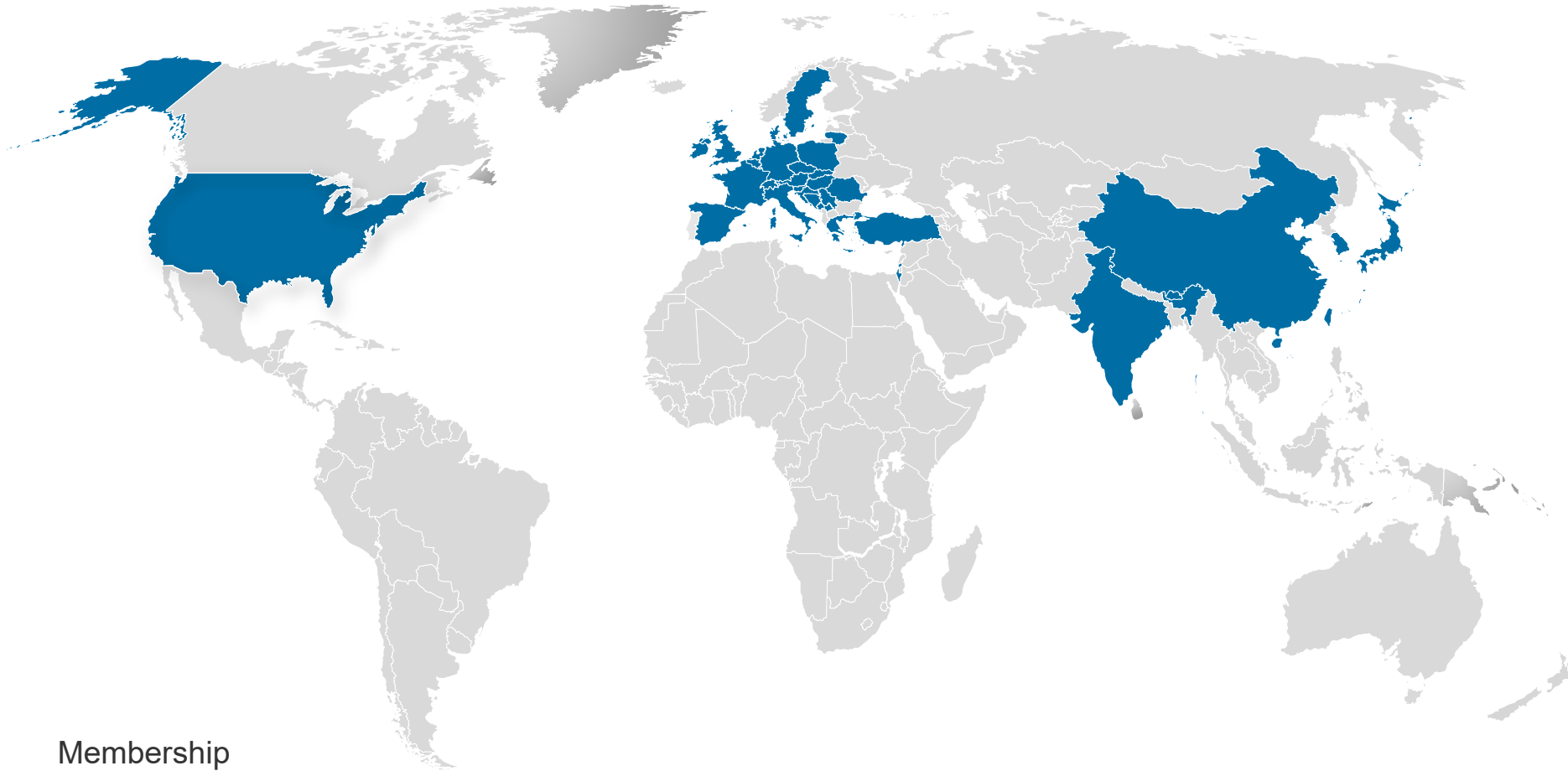
Office Chemnitz



Bernd Wenzel
Senior Technical Consultant
Phone: +49 371 5607742
Email: bw@asam.net

ASAM – An International Organization!

ASAM Has Grown Strongly in Japan, China and USA



Membership

Revenue: 12,7 %

53,1 %

34,2 %

ASAM Standards Portfolio

ASAM is currently active in 7 domains

Simulation

- OpenCRG
- OpenDRIVE
- OpenSCENARIO
- OSI

Data Management & Analysis

- CEA
- ODS

Test Automation

- ACI
- ASAP 3
- ATX
- GDI
- iLinkRT
- MCD-3 MC
- XIL
- OTX Extensions

Measurement & Calibration

- ARTI
- CDF
- CPX
- HMS
- MCD-1 CCP / XCP
- MCD-1 POD
- MCD-2 MC
- MCD-2 CERP
- MDF

Diagnostics

- MCD-2 D
- MCD-3 D

ECU Networks

- MCD-2 NET

Software Development

- CC
- FSX
- ISSUE
- LXF
- MBFS
- MDX



<https://www.asam.net/standards/>

ASAM Development

From the First Idea to the Publication of a Standard

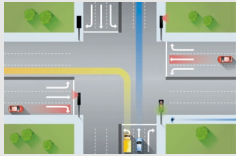


Guiding Principles:

- **Member-driven**
Initiatives and decisions are taken by the member companies.
- **Open exchange**
ASAM requests open exchange among all stakeholders.
- **Domain expertise**
ASAM has a global network of domain experts to develop standards
- **Flexible processes**
ASAM has lean yet flexible process structures leading to short development times
- **Project support**
Experienced Technology Managers support the working groups

ASAM OpenX Overview

Current and Future Standards Portfolio in the Domain Simulation



ASAM OpenSCENARIO

→ Dynamic scene description



ASAM OpenDRIVE

→ Static road network



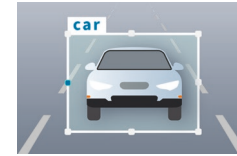
ASAM OpenCRG

→ Detailed road surface description



ASAM OSI

→ Generic interface between sensor models
& ground truth



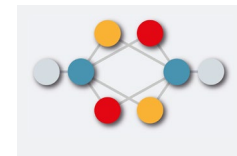
ASAM OpenLABEL

→ Object and scenario labeling format



ASAM OpenODD

→ ODD description format



ASAM OpenXOntology

→ Extendable domain ontology for OpenX

Break until 2:45 PM (CET)

Name
Position

Phone: +49
Email: