



Telematics Workshop

Minneapolis, MN

14 June 2016

Internet:

SSID: PSAV Event Solutions

Password: ASAM (all capitals)

Welcome Message

DAIMLER



TATA

WABCO



GEOTAB
management by measurement

KPIT



Agenda

09:00

Welcome / Statement of Goals

09:30

Who is ASAM

10:00

End User Requirement Statements

10:45

Coffee / Networking

11:00

Initial Requirement Analysis (From Detroit)

Agenda

12:00	Lunch
13:00	ASAM Methodology: Steering Committees & Proposal Workshops
14:00	Coffee / Networking
14:15	Discussion / Next Steps
16:00	Planned / End of Day

Why Are We Here?

- Investment efficiency
- Faster cycle time – initial and ongoing
- Enable the best OEM, Tier1/2 and TSP capabilities
- Consistent UX
- Foundation for the future of SaaS
- Customer confidence in system-level security
- While protecting proprietary data and intellectual property

Boundary Conditions



Focus

- V2V, V2X communication and platforms for in use applications
- Sensors to Vehicle Bus to IVI
- Insurance / Warranty Performance
- OTA Updates
- Cybersecurity



Focus

- Vehicle Platooning
- Logistics Tracking
- OTA Updates
- Cybersecurity



ASSOCIATION OF
EQUIPMENT MANUFACTURERS



Focus

- Business Tracking
- Improved performance
- OTA Updates
- Cybersecurity





09:30

Who is ASAM

Minneapolis, MN

14 June 2016

Agenda



Who is ASAM



Advantages to working in ASAM



ASAM Process



ASAM's Role in Today's Workshop



Joining ASAM

Who is ASAM



ASAM is an **international community of experts** who understand non-competitive use cases in engineering, simulation, development, testing, and manufacturing.



This community defines standard interfaces and formats for simplifying the data exchange.

Technical Standards focused around:



Data Model



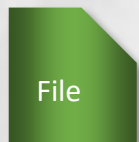
Communication API



SW-component API



Data Base



File Format



Communication
Protocol

Measurement & Calibration

ASAM MCD-1 XCP, ASAM MCD-2 MC, etc.

ECU Networks

ASAM MCD-2 NET

Diagnostics

ASAM MCD-2 D (ODX)

Software Development

ASAM MDX, ASAM MBFS, etc.

Test Automation

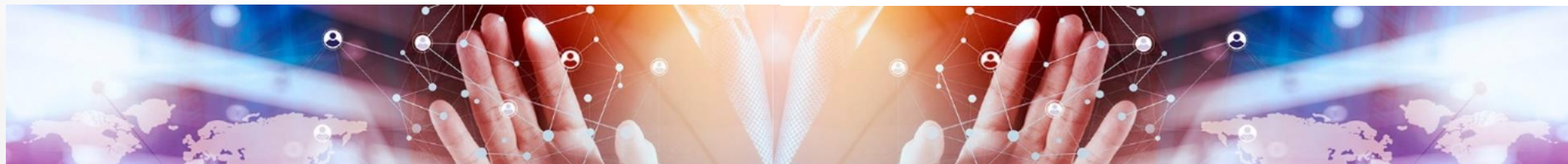
ASAM MCD-3 MC / D, ASAM XIL, etc.

Data Management & Analysis

ASAM ODS, etc.

Telematics

Who is ASAM



Solutions

Challenges

German Arbeitskreis

5 Directors of Development agree to cooperate with their suppliers.



1991

ASAM e.V.

Foundation of a registered association

1998

Internationalization

ASAM's community is growing internationally with OEMs, Tier-1s and Tool Vendors joining from

- EU
- Asia
- North America

2008

New Areas for Standardization

- March 31, Telematics Workshop
- Dec. 2015 Conference on „Big Data in Future Car Development“

2016

1980 / 90s

- Pressure to cut costs & optimize processes
- Introduction of electronics & computers in development process

→ **Proprietary test solutions with incompatible interfaces & data formats**

Since 2000

- IoT, Wireless Communication and Autonomous Driving cause the industry to use new technologies

→ **New challenges arise that require standardized solutions**

Areas of Standardization

Market Requirements

Design

Simulation

Prototype Manufacture

Component Test & Calibration

Vehicle Test, Validation, &
Verification

Field Test & Market Adaptation

Manufacturing

In Service

Field Service / Repair /
End of Service

Traditionally, ASAM's technical standards focus on R&D, Testing and Validation. Telematics is the next focus as relating to continuous improvement of products with field data.

Automotive
Electronics

Measurement
& Calibration

ECU Networks

Diagnostics

Software
Development

Computer
Aided Test

Test Automation

Data Management
& Analysis

Telematics

Problems & Solutions for Standardization

Americas

Antitrust litigation requires standards development organizations for discussion

Europe

Business driven decisions have driven lean behavior

Asia

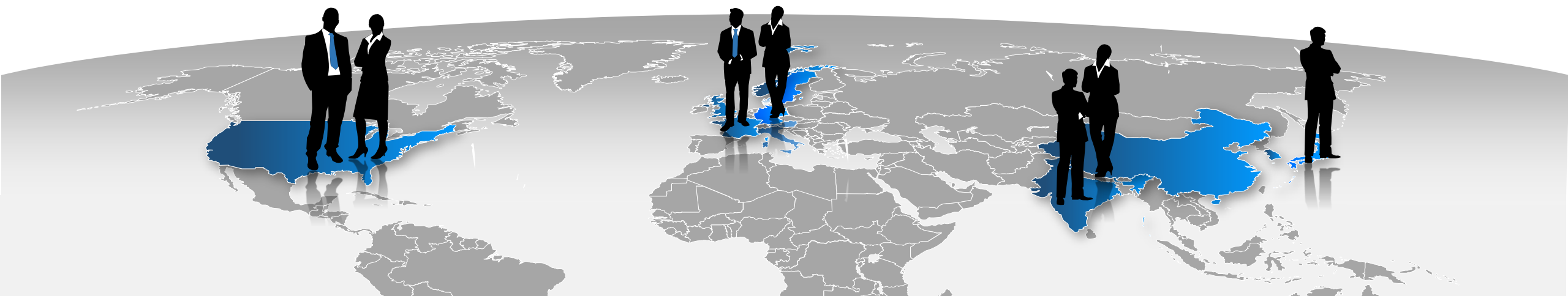
keiretsu: close-knit networks of vendors that continuously learn, improve, and prosper along with their parent companies

Sponsorship

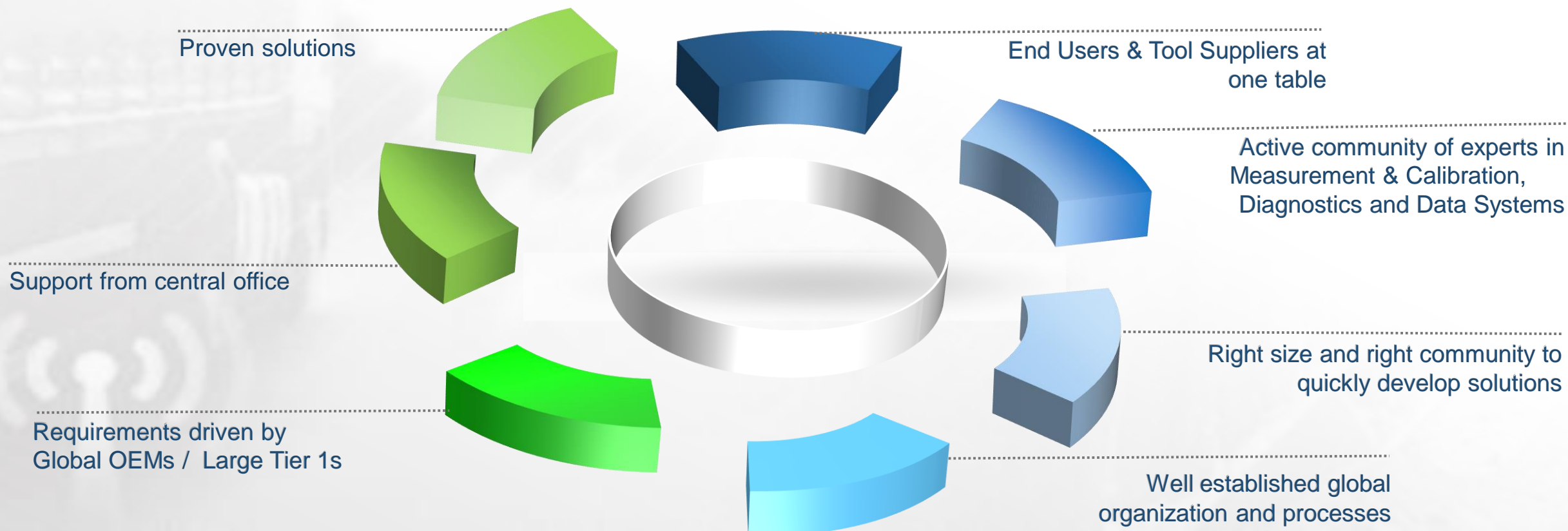
Leadership

Guidance

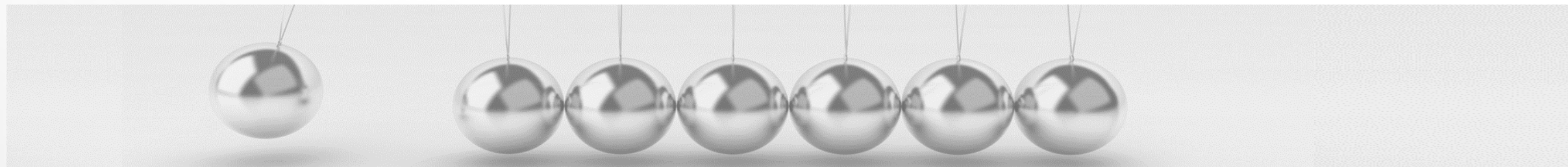
Promotion



Advantages to working in ASAM



ASAM Process



OPEN FOR INDUSTRY

Phase I Idea-Creation

Tasks

- New technical domains
- Identify business use cases
- Market forecast: 5 – 10 yrs.
- Assigning resources for work group

Who

All Industry End User
Representatives

ASAM MEMBERSHIP REQUIRED

Phase II Proposal

Tasks

- Consolidate requirements into a proposal
- Define work packages
- Resource commitment

Who

- Work group
- All Members

Phase III Development

Tasks

- Development of standard
- Documentation of Specification

Who

- Work group

Phase IV Review

Tasks

- Review specification
- Last issue fixes

Who

Work group
All members

Phase V Release

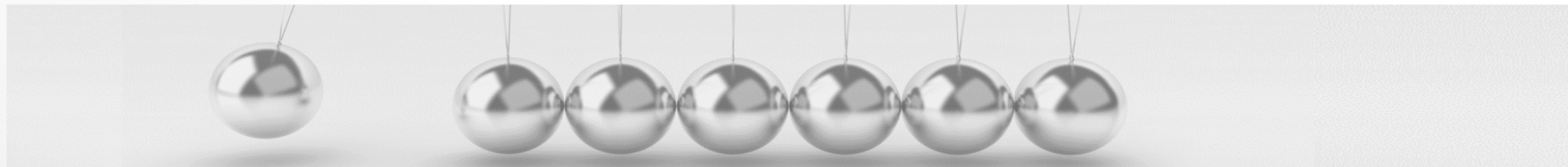
Tasks

- Publication of Standard
- Marketing
- Legal Representative

Who

All Industry End User
Representatives

ASAM Process – Goals for Today



Telematics Steering Committee

OPEN FOR INDUSTRY

Goals

- Identify, align, consolidate, and prioritize common mobility industry concerns
- Develop and document business and technical use cases from an End User's point of view

Tasks

- Market forecast
- Understand governmental & business requirements
- Develop business use case scenarios
- Understand technical requirements
- Understand financial impact
- Assign appropriate resources

Automotive OEMs / Tier-1s & TSPs:

Technical engineering management with global profit and loss responsibility

Proposal Workshop

ASAM MEMBERSHIP REQUIRED

Goal

To identify, align, and consolidate technical use cases

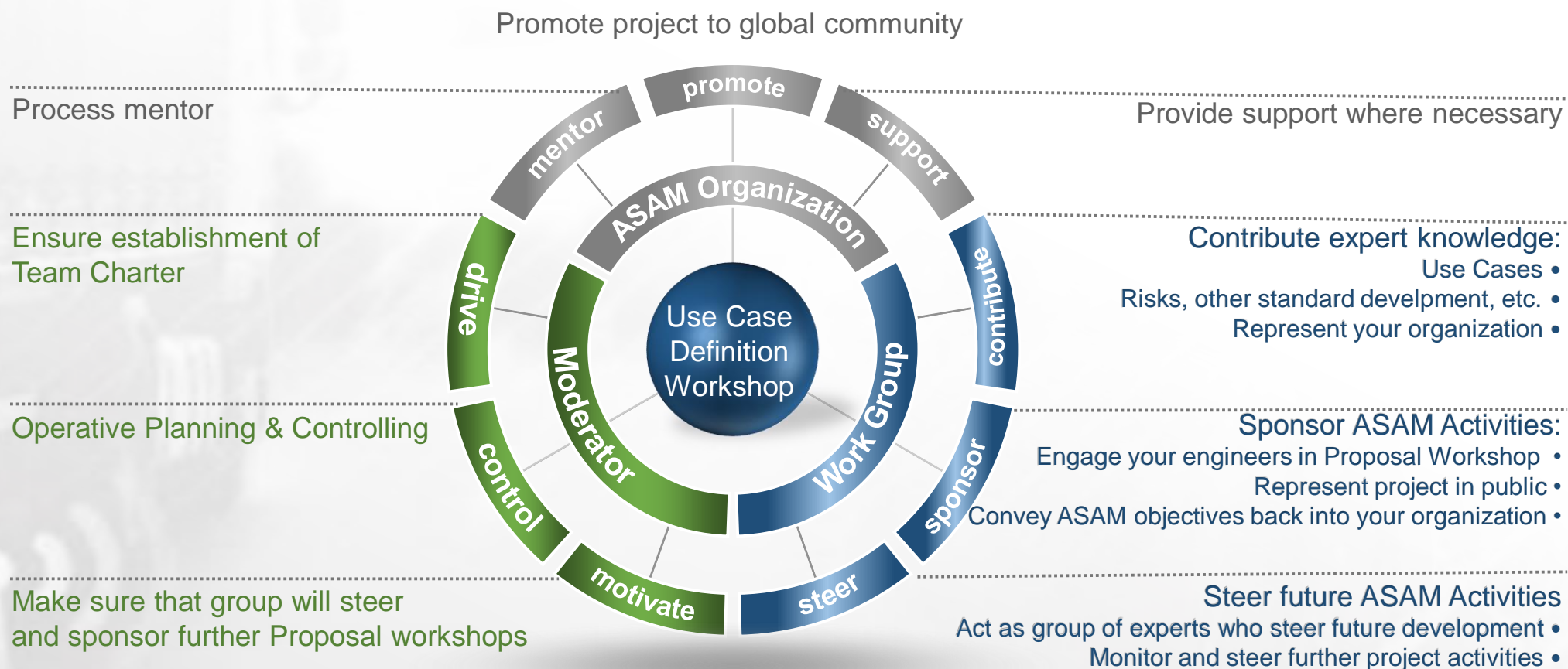
Tasks

- Develop requirements
- Investigate new / future technologies
- Plan scope of work for standardization

Automotive OEMs / Tier-1s / Tool Vendors & Telematics Service Providers

Technical engineers

Telematics Steering Group Organization – Role Allocation



Joining ASAM

**Classes H:
Academics**

Class A
> 50.000 employees

Class B
30.000 - 50.000 employees

Class C
< 30.000 employees

**Classes D-G:
Tool Vendors**

End Users (OEMs & Large Tier-1 Suppliers)

Choice: Executive or Passive Membership

	Executive Members	Passive Members	Non-Members
Participation in ASAM standardization projects	✓	✗ (only Ideation, Proposal, Review)	✗ (only Ideation)
Participation in ASAM study groups	✓	✓	✗
Access to the ASAM Community Portal	✓	✓	✗
Able to be elected to Board of Directors	✓	✗	✗
Able to be elected to the TSC	✓	✗	✗
Voting rights at General Assembly	✓✓✓	✓	✗
Free download of standards and software	✓	✓ (software: discounted)	✗



Defining Value in ASAM

For the End User (OEM & Tier 1)...

- Alignment of efforts between government requirements, other SDO efforts and competitors
- Creating a unified list of requirements for TSPs and Tool Suppliers to develop against

For the TSP...

- More consolidated input from OEMs and Tier 1s
- Reduced development requirements
- Reduced integration cycle
- Consistent user experience

For the Tool Supplier...

- More consolidated input from OEMs and Tier 1s
- Reduced development requirements

For ASAM...

- Creating value for stakeholders
- Becoming ever more attractive for non-member End Users



Questions: Joseph Sparacino
Business Development Manager - ASAM, eV

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10:00

End User Requirement Statements

Minneapolis, MN

14 June 2016

Problem Statement Example – Remote Firmware Update

- Deliver consistent user experience while performing remote firmware update on multiple smart devices (control modules), provided by different suppliers, in a vehicle network.
- Why does the problem exist?
 - No standard for the smart / control modules
 - Multiple telematics providers
 - OEMs, 3rd party providers and/or custom solutions for mixed fleets
 - No standard for the telematics hardware and user interface
- Possible solutions
 - Develop proprietary methods and require all suppliers to comply
 - Requires long lead time any time new supplier is introduced
 - Develop an industry standard
 - Need to ensure non-competitive scope





11:00

Initial Requirement Analysis (From Detroit)

Minneapolis, MN

14 June 2016

Initial Requirements Discussion

Participants



Process

- ① Polled for top "Business Use Cases"
- ② Prioritized based on votes
- ③ Aligned for duplication
- ④ Discussed top 4 in detail

Initial Requirements Discussion

Priority	Use Case
1	Standard format for exchange / storage of telematics data to enable efficient integration of backend systems and analytics
2	Remote Programming
3	Pre-analytics before sending to cloud / optimizing diagnostics & prognostics
4	Standardized method for authenticating and authorizing a telematics box to communicate with a controller

- 5 Standard way of 2-way proprietary data exchange (Parameters Calibrations software) in a secured manner
- 6 Remote Diagnostics
- 7 HD trucks have multiple networks: ECUs Need standard for how different ECUs / networks will connect and what data is available
- 8 A common telematics box hardware platform on which service providers can build their services
- 9 How to lower cost for getting data into cloud hardware software transmission etc.
- 10 How to minimize transmission of data reduce cost compress etc.
- 11 Individual Subsystems 3rd Party Systems Who owns data how is data transferred between the multiple systems
- 12 Standards for hardening a telematics device against unauthorized remote access to prevent rogue datalink communications
- 13 Intrusion detection system on vehicles and reporting
- 14 Driver vehicle use monitoring information for fleets OEs and Tiers
- 15 How do we work with ISO20078 community?
- 16 How to keep anonymous data anonymous
- 17 A standard for exchanging, processing, and distributing data for the purpose of self-learning - ADAS and autonomous systems
- 18 Geo-fencing / Route Tracing / GPS Data Logging / Build Specification of equipment

Group 1: Cloud Interface

USE CASE TITLE									
Problem statement	Standard method to interface at the cloud (ex: cloud to cloud) to enable faster implementation, reduce work, etc. Included methods to publish enriched data make to clouds (TSPs, OEMs, Fleet Management Systems)								
Additional details and benefits (user stories)	Cloud to cloud data exchange; Cloud to Tool (Matlab) Community data (GPS, DM1, engine speed, etc); Proprietary data (method to get at this data - including security) Methods to get data: JSON, XML, API (or Queue) Security standard; Who can access data (Government agencies?) Access to data - different levels of data based on who owns it or grants access to it; data scrubbing;								
Other organizations doing similar work	OpenAPI spec; TMC?, LD ISO20078 (extended vehicle data)								
Existing standards that may be impacted	ODS, Right to repair,								
Please describe possible impact to vehicle electronics	Multiple engine applications, may drive way to get data from all								
Impact to "telematics box" and HMI	TSPs in vehicle box needs to support the meta data; usually a single CAN port, depends on data needs								
Impact to Cloud	Yes, see above								
Impacted Market/Applications/Segment	x	On Highway	x	Off Highway	x	Passenger Car	Marine, Industrial	Other / specifics	
Areas of concern	Data ownership, how is a company authorized								
Who should be involved?	Company names		Primary contact names		Primary contact details		If not present, who will reach out?		
OEMs	Navistar, PACCAR								
Tier 1s	Cummins, Eaton								
Telematics Providers	Omnicracs:Zonar:PeopleNet:Geo Tab, etc								
Fleets	Swift								
Others	ETI, Conti, CTE/Delphi								
Company willing to lead a workgroup	?								
Other comments									

Group 2: Authentication

AUTHENTICATION STANDARDIZATION FOR ONBOARD TCU INTERACTION WITH VEHICLE COMPONENT CONTROL UNITS

Problem statement	How can the onboard telematics control unit (TCU) communicate bi-directionally in a secure way with all of the vehicle's onboard controllers?							
Additional details and benefits (user stories)	1. Multiple tiers of authentication may be necessary depending on the classification of the vehicle data; i.e. publicly available data would have a lower (potentially none) authentication mechanism versus OEM proprietary signals. 2. Source address "spoofing" is problematic (TCU identifying themselves as other controllers) 3. The group feels that this is a requirement for Over-The-Air (OTA) update of vehicle control units 4. Adoption of the standard here helps minimize investment; maximizes the value of the investment, and improves serviceability and sustainability over time 5. Minimize product liability and risk for those adopting the standard							
Other organizations doing similar work	None to the group's knowledge; may be possible to use some evolving IoT methods to accomplish; investigate best practice with passenger car OEMs; Secure CAN working group--does this include any authentication?							
Existing standards that may be impacted	Source address validity could impact SAE J1939							
Please describe possible impact to vehicle electronics	Very high likelihood that there are impacts to EE architecture (busload) that must be considered when developing the authentication method.							
Impact to "telematics box" and HMI	HMI little to none; TCU would require compliance with the recommendations of this standard							
Impact to Cloud	Strictly an onboard issue							
Impacted Market/Applications/Segment	X	On Highway	X	Off Highway	X	Passenger Car	Marine and Industrial Usage	Other / specifics
Areas of concern	V2V and V2I implications? Will the TSPs accept? Backward compatibility? Encryption overhead to data payload for authentication session							
Who should be involved?	Company names		Primary contact names		Primary contact details		If not present, who will reach out?	
OEMs	Mandatory for all segments		Larry Hilkenne					
Tier 1s	Mandatory (min. powertrain, vehicle control systems suppliers)							
Telematics Providers	Mandatory							
Fleets	Optional							
Others	N/A							
Company willing to lead a workgroup	Cummins							
Other comments	N/A							

Group 3: OTA Updating

group 3 remote programing								
Problem statement	Remote Programing							
Additional details and benefits (user stories)	Over the air updates of software, calibration and configurations. From and OE perspective the ideaa of controlling overall vehicle configuration is important, specifically a comptibility check. Question on Fleet as the owner and Driver as a user to their involvement and responsabilites. The need for a gateway module to protect secific comm lines has been idnetified as a key topic							
Other organizations doing similar work	UMTRI, is looking at automotive update, the feeling of the group is that this topic of FOTA standards is late and needs to speed up to be effective							
Existing standards that may be impacted	potential RP1210 or UDS but no direct conflict.							
Please describe possible impact to vehicle electronics	Decreased cost of operation,customer satisfaction increase, new revenue streams and a way of doing business that may not be known today.							
Impact to "telematics box" and HMI	The reality of supporting multiple module rev levels and the interdependancies that exisit.The concern of supporting multiple engine / trans and support systems that may require independent update. Managing the complexity offboard and on board deployment.							
Impact to Cloud	Bandwith concerns							
Impacted Market/Applications/Segment	x	On Highway	x	Off Highway	x	Passenger Car		Other / specifics
Areas of concern	End to end security, reliabilty , configuration							
Who should be involved?	Company names		Primary contact names		Primary contact details		If not present, who will reach out?	
OEMs	the usual suspects							
Tier 1s								
Telematics Providers								
Fleets	owner operators and Fleets							
Others								
Company willing to lead a workgroup								
Other comments	The telematics box must be able to run proprietary logic. Concern over current spec and future product							

Group 4: Box Requirements

USE CASE TITLE								
Problem statement	What standards should telematics hardware providers comply with.							
Additional details and benefits (user stories)	Advantages of widespread adoption of standard APIs & common libraries to enable - data exchange (between ECUs, between the telematics HW & ECUs, TPS HW & back-end systems) - on board processing - Security - necessary authorization/authentication provided by ECU suppliers - providers need to provide a layer that abstracts the APIs from the OS - portability of the application layer							
Other organizations doing similar work	Example: Genivi, a collaboration among passenger car OEMs - focus on infotainment. FMS standard, an API used in commercial vehicles							
Existing standards that may be impacted	CAN/j1939, limited bandwidth to implement security. Ethernet (Broad R reach). ODX / OTX for diagnostic test sequences, ISO26262, AutoSAR							
Please describe possible impact to vehicle electronics								
Impact to "telematics box" and HMI	Formulating standard APIs & common libraries.. For data exvhange & common features. Wi-Fi capabilities / BT. De-emphasis on HMI device technology.							
Impact to Cloud								
Impacted Market/Applications/Segment	X	On Highway	X	Off Highway	X	Passenger Car		Other / specifics
Areas of concern	Buy-in from telematics providers. Tendency among OEMs to retain proprietary methods. Ability to form collaborations.							
Who should be involved?	Company names		Primary contact names		Primary contact details		If not present, who will reach out?	
OEMs	Leading CV & aumotive suppliers							
Tier 1s	Critical							
Telematics Providers	Critical							
Fleets								
Others								
Company willing to lead a workgroup	Each are willing to participate.							
Other comments								

- Group is interested in proceeding to standardize aspects of the “telematics” 2 way communication
 - Many use cases identified, with top 3 to start with being:
 - Standard format for exchange of telematics data to enable efficient integration of backend systems and analytics
 - Standardized method for authenticating and authorizing a telematics box to communicate with a controllers
 - Remote Programming
 - May need to split up the work into smaller parts
 - Telematics provider participation is critical
 - Next step is to approach telematics providers (all of us together)
 - ASAM will prepare a presentation that we could share with the telematics providers
 - ASAM to host a meeting with TSPs as selected/proposed by the OEMs/Tier1s/2s
 - Need to establish a group to coordinate/prioritize the work going forward – worldwide
 - We need to actively coordinate/partner with other organizations and groups
- Method of communication between the group?
 - Email
 - ASAM website (asam.net)
 - Other?



13:00

ASAM Methodology: Steering Committees & Proposal Workshops

Minneapolis, MN

14 June 2016

ASAM Organization and Committees

Board of Directors	2015-2017 BMW Cummins Daimler HORIBA	Strategy Projects Cooperations Marketing Projects
ASAM Office	Managing Director Business Development Manager Global Technology Manager Marketing Manager Representative in Japan Office Manager	Align Members Promote Discussions Mentor Processes Provide Office Support (Financial, IT, etc.)
Technical Steering Committee	2016-2018 AUDI AG AVL List GmbH Continental Automotive GmbH dSpace GmbH Emotive GmbH ETAS GmbH National Instruments Peak Solution GmbH Robert Bosch Engineering Softing Automotive Electronics GmbH	Harmonizes Processes and Standards Reviews and Approves Proposals and Funding Provides Project Oversight Reviews and Approves Standards

ASAM Organization and Committees

Board of Directors

ASAM Office

Technical Steering
Committee

CAT Steering
Committee



AE Steering
Committee



Dr. Klaus Estenfeld
Managing Director



Mr. Thomas Thomsen
Global Technology
Manager



Ms. Dorthée Bassermann
Marketing Manager



Mr. Joseph Sparacino
Business Development
Manager



Mr. Yoshiaki Shoi
Representative in Japan



Ms. Katharina Löburg
Office Manager

Telematics Steering
Committee

ASAM Organization and Committees

Board of Directors

ASAM Office

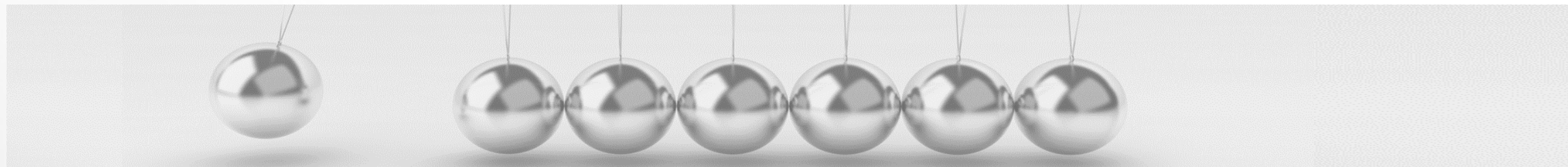
Technical Steering
Committee

US Telematics
Steering Committee

EU Telematics
Steering Committee

JP Telematics
Steering Committee

ASAM Process – Goals for Today



Telematics Steering Committee

OPEN FOR INDUSTRY

Goals

- Identify, align, consolidate, and prioritize common mobility industry concerns
- Develop and document business and technical use cases from an End User's point of view

Tasks

- Market forecast
- Understand governmental & business requirements
- Develop business use case scenarios
- Understand technical requirements
- Understand financial impact
- Assign appropriate resources

Automotive OEMs / Tier-1s & TSPs:

Technical engineering management with global profit and loss responsibility

Proposal Workshop

ASAM MEMBERSHIP REQUIRED

Goal

To identify, align, and consolidate technical use cases

Tasks

- Develop requirements
- Investigate new / future technologies
- Plan scope of work for standardization

Automotive OEMs / Tier-1s / Tool Vendors & Telematics Service Providers

Technical engineers

Telematics Steering Group Organization – Role Allocation



Typical Roles – Telematics Steering Committee

Does not need to be an
ASAM Member



Committee Leader

- Elected by work group
- Sets the meeting agenda, organizes and manages the group, moderates the meetings
- Reports progress to TSC and ASAM Office
- Depending, might be focal point for international Telematics Steering Committees

Time Commitment

- Dependent on the role, the frequency of the meetings, and the discussions
- Depending on organization and topics possibly 1 day per quarter (guess at this time)



Committee Members

- Provides use-cases, application, & process knowledge and requirements
- Provides technical expertise
- Helps identify new efforts and lead discussions on how to harmonize with other SDOs
- Helps identify new opportunities initiated by the industry, by the governments, by other industries
- Champions ASAM in their own company and provides resources for ASAM activities

Tools

- ASAM WebEx
- ASAM Community



Note Taker, Moderator, Host

- Usually separate functions, but can be combined with Committee Leader
- Hosting is usually rotated amongst members

Meeting Location



Telematics Steering Committee Team Charter

Team Goal(s):	<ul style="list-style-type: none">• To identify, discuss, align, consolidate and document Business 'Use Cases' in the area of Telematics as relating to Power Generation whether mobile or stationary• To decide if this committee only reviews CV On-Road, Off-Road, or also includes Pass Car and how to work with global organizations• To watch developments in government, in business needs, in other SDOs as relating to the needs of this group• To partner with other organizations efforts where required• To develop an action plan convert Business Use Case to identifying Technical Problems and a team to address the Technical Problems• ...
Steering Committee Leader:	XXX XXX (Person), XXXX (Organization) Rules: <ol style="list-style-type: none">1. How often is a new Project Leader put into place2. How is this person selected / elected...
Steering Committee:	<ul style="list-style-type: none">• Organizations, and specific people involved in this effort• Roles of people – Sponsoring employees, travel, meeting locations• How to grow the team• ...
Team Topics:	Identified by Business Use Cases, outside "disruptors" (from government initiatives, other industries, etc.), and alignment with other SDO's
Process	From Requirements Analysis to Project Proposal
Communication	Global group vs. regional group Communication Process with View to Global

Telematics Steering Committee Sign Up

Team Members:	
Project Leader:	
Date:	
Location:	
Communication Method:	

ASAM Process

ASAM Project Handbook

Guidelines for Project Management and Standard
Development

Version 2.0.0
Date: 2016-04-06

Guidelines
Copyright © ASAM e.V., 2016



Association for Standardization of
Automation and Measuring Systems

ProjectShortTitle

ProjectNumber



ISSUE PROPOSAL

Project Number:	ProjectNumber		
Project Short Title:	ProjectShortTitle		
Project Type:	<input type="checkbox"/> FVD	<input type="checkbox"/> Main	<input type="checkbox"/> SOFT
Issue Submitter - Name:			Tel.:
Issue Submitter - Company:			Fax:
Issue Submitter - Email:			
Project Leader:			
Maintenance Project Manager (for MAIN Projects only):			
Creation Date:	dd.mm.yyyy		
Issue Version:	IssueVersion		
Relevant for Standard and Version			

Index

1. Overall Project goal and Use cases (PG_UC):.....	2
2. Technical content – what has to be done (TCO):	2
3. Project team (PT):	2
4. Resource effort estimation (REE):	2
5. Market Relevance (MR):	3
6. Required ASAM Budget (RAB):	4
7. Project Plan (PP):	4
8. Deliverables (DEL):	4
9. Consideration of ASAM Internal Standards (AIS):	4
10. Relation to other ASAM activities / standards (RAAS):	4
11. ASAM-external Relations (AER)	4
12. Attachments:	4
13. Work schedule (WS)	4

IssueProposal
IssueVersion

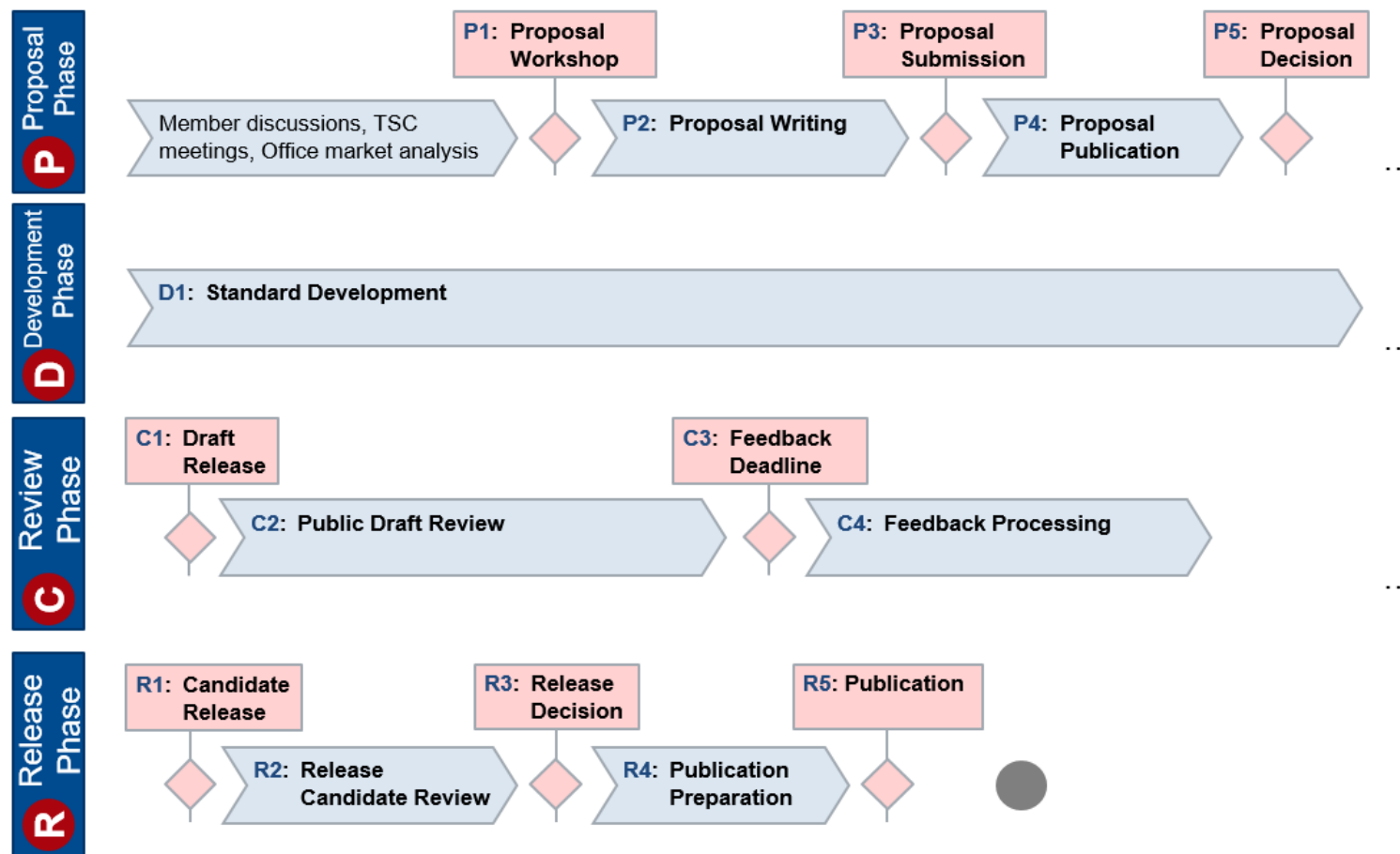
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dd.mm.yyyy

ASAM Project Handbook

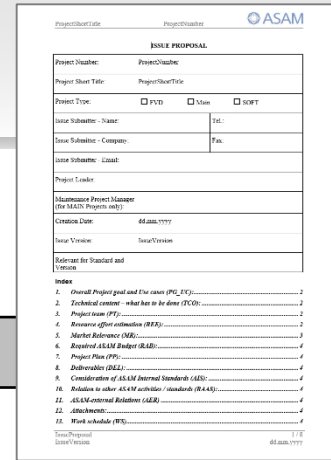
4 Types of Projects

- **Standard Development Projects**
 - New Standard Development
 - Revision Development
- **Implementation Project**
 - Supports the development of standard-based, commercial products (e.g. development tool kit)
 - Reduces the development costs of commercial products (e.g. source code)
 - Tests standard compliance of commercial products (e.g. checker tool, test suite, source code)
- **Concept Project**
 - Provides justification or proof for the usefulness, practicability and feasibility of the proposals
 - Feasibility Studies, Requirements Evaluation, Technology Surveys, Prototype Development, Performance Benchmarks...
- **Study Projects**
 - Provides an organizational structure to study or analyze specific aspects of ASAM standards in a collaborative way

Standard Development Process



Proposal Form



The thumbnail shows the top portion of the ASAM Proposal Form. It includes the ASAM logo, a header for 'Project/Issue Title' and 'Project/Issue Number', and a section for 'Project Information'. This section contains fields for 'Project Name', 'Project Type' (with checkboxes for PVT, New, and SMT), 'Issue Submitter - Name', 'Issue Submitter - Company', 'Issue Submitter - Email', 'Project Leader', 'Maintenance Project Manager (for MACH Projects only)', 'Creation Date', 'Issue Version', and 'Issue/Version'. Below this is an 'Index' table listing 13 sections of the form with their corresponding page numbers.

Project/Issue Title		Project/Issue Number	
Project Name:		Project/Issue Number:	
Project Type:		<input type="checkbox"/> PVT <input type="checkbox"/> New <input type="checkbox"/> SMT	
Issue Submitter - Name:		Tel.:	
Issue Submitter - Company:		Fax:	
Issue Submitter - Email:			
Project Leader:			
Maintenance Project Manager (for MACH Projects only):			
Creation Date:		dd.mm.yyyy	
Issue Version:		Issue/Version	
Refer to the Standard and Version:			
Index:			
1.	Overall Project goal and Use cases (PG, PCT)	1	
2.	Technical content - what has to be done (TCO)	2	
3.	Project team (PT)	3	
4.	Resource effort estimation (REFF)	4	
5.	Market Relevance (MR)	5	
6.	Required ASAM Budget (RAB)	6	
7.	Project Plan (PP)	7	
8.	Deliverables (DEL)	8	
9.	Consideration of ASAM Internal Standards (AS)	9	
10.	Relation to other ASAM activities / standards (RAA)	10	
11.	ASAM-external Relations (AER)	11	
12.	Attachments	12	
13.	Work schedule (WS)	13	
Total Pages:		13	
Issue/Version:		dd.mm.yyyy	

No.	Title	Description
1	Overall Project Goal and Use Cases	This section documents the idea, purpose, advantages and reasons for the project and clearly describes covered use Cases, the application area and business benefit.
2	Technical Content	The technical scope of work to be done
3	Project Team	The names, titles, company and contact detail for the project team
4	Resource Cost Estimation	The estimation of effort expressed in man-days for Project Co-ordination and Management, Meeting Participation, Definition of Requirements, Technical Specification, Documentation, Testing and Verification, Example Code, etc.
5	Market Relevance	The committal of work time or money from each organization
6	Required ASAM Budget	The additional funding that is required from ASAM
7	Project Plan	Project Plan expressed in MD, defining tasks, milestones, and intermediate deliverables
8	Deliverables	This section lists the items to be delivered / project results. Beside the deliverables the Release Presentation, the publication for the ASAM Newsletter and the text for the ASAM website and the solution guide are expected for a release.
9	Consideration of ASAM Internal Standards	This section documents any references to published ASAM Standards.
10	Relation to other ASAM activities / standards	This section documents any potential overlaps, conflicts, and interactions with other ASAM project groups or existing standards.
11	ASAM-external Relations	This section documents any potential overlaps, conflicts, and interactions with other Standardization Development Organizations
12	Attachments	Other documents requiring attachment
13	Work Schedule	The Project Plan defined as a Gantt Chart.

Typical Roles – Proposal Workshop

Needs to be an
ASAM Member



Proposal Leader

- Elected by work group or proposed by the Telematics Steering Committee
- Sets the meeting agenda, organizes and manages the group, moderates the meetings
- Works directly with Thomas Thomsen, Global Technology Manager
- Presents proposal to the TSC
- Sometimes (not always) continues as Project Leader, but this is elected by Workgroup

Time Commitment

- Usually one or two one-day meetings to create proposal
- The proposal group usually continues on into Project (when approved) and sometimes new members will add. Depending on scope and on agreement, might be up to 12 man days per year.



Proposal Members

- Provides use-cases, application, & process knowledge and requirements
- Provides technical expertise
- Contributes to the proposal
- Champions ASAM in their own company and provides resources for ASAM activities

Tools

- ASAM WebEx
- ASAM Community



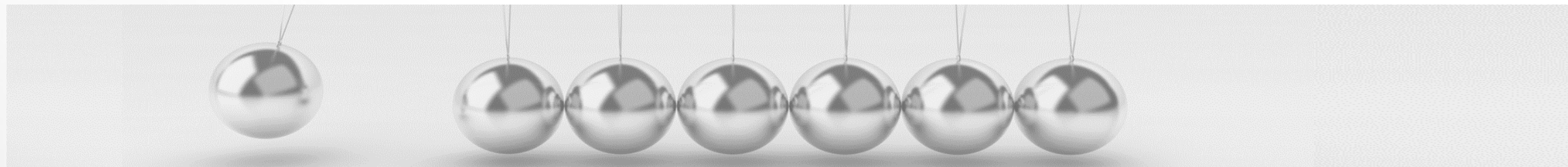
Proposal Author, Moderator, Host

- Usually separate functions, but can be combined with Proposal Leader
- Hosting is usually volunteered

Meeting Location



ASAM Process – Goals for Today



Telematics Steering Committee

OPEN FOR INDUSTRY

Goals

- Identify, align, consolidate, and prioritize common mobility industry concerns
- Develop and document business and technical use cases from an End User's point of view

Tasks

- Market forecast
- Understand governmental & business requirements
- Develop business use case scenarios
- Understand technical requirements
- Understand financial impact
- Assign appropriate resources

Automotive OEMs / Tier-1s & TSPs:

Technical engineering management with global profit and loss responsibility

Proposal Workshop

ASAM MEMBERSHIP REQUIRED

Goal

To identify, align, and consolidate technical use cases

Tasks

- Develop requirements
- Investigate new / future technologies
- Plan scope of work for standardization

Automotive OEMs / Tier-1s / Tool Vendors & Telematics Service Providers

Technical engineers



14:15

Discussion / Next Steps

Minneapolis, MN

14 June 2016

Telematics Steering Committee Sign Up

Team Members:	
Project Leader:	
Date:	
Location:	
Communication Method:	