ASAM | Association for Standardisation of Automation and Measuring Systems

Telematics – Workshop II: Remote 2-Way Communication

Meeting Results

June 14, 2016

ASAM Members and Non-Members primarily from the North American On-Road/Off-Road Commercial Vehicle Market met a second time to discuss the need and requirements for standardization in the area broadly described as Telematics.

The goal for the first workshop held in Detroit was to determine interest in gathering, aligning, and prioritizing use cases from an End User viewpoint (Equipment or Vehicle Manufacturer / Tier 1 perspective).

The goal for this second workshop was to include the Telematics Service Providers, Engineering Consultancies, and the Tool Suppliers and focus on building both a Telematics Steering Committee and Proposal Workgroups. Significant discussion and participation continued to demonstrate the need for standards and the willingness for cooperation.

The conclusion of this second workshop was that both members and non-members would need to get their management approval to participate. The group agreed that during the next two weeks discussions with respective management could take place, and levels of commitment could be determined. All agreed to meet again by WebEx in two weeks to start establishment of the kick-off meetings for Telematics Steering Committee and the Proposal Workshops.

The participants at this workshop were:

OEMs:	Tier 1s:	TSPs:
Daimler Trucks	Allison Transmissions	Actia
Volvo Trucks	Continental	Geotab
	Cummins	KPIT
	Eaton	Omnitracs
	Tata Consulting	PeopleNet
	WABCO	Zonar

Other global organizations expressed interest in participating, but were unable to attend this workshop

Agenda

- Welcome and Introduction Message by Cummins
- Welcome Message from ASAM
- Discussion of Goals of the Workshop
- Statement of requirements by the End Users
- Review of the Initial Requirements developed in the First Workshop
- Descriptions of a proposed Telematics Steering Committee and the Proposal Workshops

Importance of Standards

Cummins again started the day's activities by highlighting the importance of standards. The stated benefits were:

- Investment efficiency – reduce time, manpower, or costs
- Faster cycle time – initial and ongoing
- Enable the best OEM and Tier 1&2 capabilities
- Consistent UX
- Foundation for the future of SaaS
- Customer confidence in system-level security
- Protect proprietary data and intellectual property

This list generated a large discussion on a number of topics, including:

- data models should be standardized, and not the data itself
- performance standards for each vehicle application
- security of the transmitted data
- authentication of the additional transmitting devices connected to the vehicle bus
- focus on simplicity
- the role of the OEMs and how data (and potentially Intellectual Property) is opened to third party solutions
- limited number of standards
- development of standards in ASAM or other groups (i.e. SAE technical standard development)
- work of other organizations, such as the TMC (Traffic Message Channel) connector

Goals of Workshop

ASAM and Cummins then stated the goals for the workshop:

1. To identify the interest of the TSPs and the Engineering Consultancies in the standardization efforts for Telematics
2. To develop both a Telematics Steering Committee and potentially several Project Proposal Working Groups
3. Prepare a charters for the Telematics Steering Committee (stated goals of the group, how often the group will meet, how to join the group, how leadership is selected, etc.)
4. Explain the Proposal Workshop requirements and drive participation for the selected Use Cases

Why ASAM?

Cummins explained that working in the ASAM community is beneficial. The primary reasons from Cummins point of view were:

1. Leveraging knowledge and know-how from current membership in the topics of data gathering and data exchange
2. ASAM has a proven track record of developing useful standards
3. ASAM is the right size community with a focused group of industry experts
4. ASAM has international support and infrastructure
5. Average standard development time is significantly shorter than two years

Description of Telematics Steering Committee

ASAM wants to develop a "Telematics Steering Committee". This steering committee should be constituted from business and technical leaders from the OEMs, Tier 1s, TSPs, and Engineering Consultants who understand the business drivers for Telematics. This group would be responsible for discussing the common cost drivers that can be reduced through the use of standards.

This group would be responsible for identifying, discussing, consolidating and aligning future work projects. This group would be responsible for identifying and prioritizing the ideas, in documenting use cases, and to provide a high level understanding of the work to be done. Furthermore, this group would drive their internal teams to participate in the Proposal Workshops. While ASAM membership is not be required for the Telematics Steering Committee, there is an expectation that the members of the

committee have business relationships with ASAM members who would work in and drive the standardization effort.

The time commitment for the Steering Committee depends on the urgency of the work being done. It is envisioned that early in the process, the meeting frequency might be quite high as standardization topics are identified, aligned, and converted to project proposals. However, it is believed that this effort will reduce to possibly quarterly meetings as people and priorities become well established.

Without ASAM membership, participation within the Telematics Steering Committee does not provide access to the finished product – the standards or results from Implementation Projects, the Concept Projects, or Study Projects. Active and Passive members have access to the standards. Organizations who are not members can purchase standards individually.

As participation in the Telematics Steering Committee does not require ASAM membership, there is no direct cost involvement. The only cost is to travel or hosting responsibilities when face-to-face meetings are held. ASAM will provide the ASAM WebEx account access for this group and an online "ASAM Community" portal for recording of notes, polls, calendar events, etc.

Description of Project Proposal Workgroups

At the first workshop in Detroit, 18 use cases were identified where further investigation, discussion, and alignment would have industry support. At that workshop, four of those use cases were further discussed, refined, and documented. At this second workshop, the results from the first workshop were presented to the TSPs and further discussed.

ASAM is looking for technical experts who can identify and describe items - such as the Data models, Communication APIs, SW Component APIs, Databases, File Formats, or Communication Protocols that are needed to achieve a technical standard to solve the specific problem.

These groups would meet to develop a proposal document. This group would define the scope of work, define the project plan with key milestones, and define the deliverables. The leader of this proposal group would then present the project to the ASAM Technical Steering Committee for approval.

Typically, the participants of the proposal continue into the standards development effort. Usually, additional participants from other interested organizations join the effort during the first few sessions. The goal of the development effort is to perform the work as described in the proposal document. Either participants in the work group can develop and document the new standard as a part of the project work – or else a third party service provider can be hired. Payment for a third party service provider is completed with the project funding. ASAM can help with the funding of this effort.

The time commitment for the Proposal Workshop and ensuing project depends on the urgency of the work being done. Typically, the Proposal is written during a limited number of face-to-face meeting(s). Because of the detailed technical work, the best results have been achieved also with face-to-face meetings with tasks assigned in between the face-to-face meetings. At the end of the last Proposal Workshop, the leader of the Proposal Workshop presents the Proposal to the Telematics Steering Committee for alignment and to the ASAM Technical Steering Committee for approval.

Once approved by both committees, the Project Work Group begins work on the tasks as outlined in the proposal. Normal practice is that meetings are held once a month; however, the urgency and the participants dictate the schedule to achieve the milestones laid out.

Participation in the Proposal Workshop and the project work does require ASAM membership; however, membership is based on an organizational level. Therefore, once the organization has paid the annual fee, anyone representing the organization can participate in the process. Usually Proposal Workshops and the project face-to-face meetings are hosted and paid for by the participants on a rotating fashion. ASAM will provide the ASAM WebEx account access for this group and an online "ASAM Community" portal for recording of notes, polls, calendar events, etc.

Funding

Each member organization can contribute in three ways:

1. Contribution of Time – Dedicating a person to the development effort is translated into €700 per man day. This time is spent participating in meetings, in preparing or reviewing presentations or documents, in writing the specification.
2. Contribution of Resources – A value can be assigned to providing disk space in a cloud, to providing a telematics unit for developmental use, etc.
3. Contribution of Money – An organization can dedicate money to be used for the project.

Contributions from the participants, or participant's organization, in the Project Group should total 75% or more of the total required resources to complete the project. ASAM can contribute the other 25% upon approval from the ASAM Technical Steering Committee. These funds that ASAM contributes can only be used for:

- Buying required resources (Cloud Services, software, etc.)
- Paying a service provider(s). Approved services might be:
    - authoring the standard
    - creating other work artifacts, e.g. UML models, schemas, interface description files, examples, etc.
    - prepare technical content of meetings
    - develop prototypes, tools or software as part of the standard
    - create the deliverables to ASAM
- Paying for conference rooms, video equipment, etc.

Important Links

- Workshop 1 Meeting Minutes
- Workshop 2 Presentation
- ASAM Project Handbook
- ASAM Issue Proposal Document

Next Steps

At the conclusion of the workshop, a number of participants see the value in defining standards in the telematics area; however, many of the participants were either not from an ASAM Member organization or else needed an approval from management.

A proposal to reconvene by ASAM WebEx in two weeks was accepted. Therefore, the next steps are:

1. ASAM to publish the notes and presentations from the 2016.06.14 meeting in Minneapolis on the http://www.asam.net/home/trainings-events/proceedings/telematics-remote-2-way-communication/workshop-ii.html
2. The two topics that were selected for a Proposal Workshop were:
    a. Cloud Interfaces, and
    b. Security / Authentication
3. ASAM to distribute the notes by email to all participants from both workshops
4. ASAM to request registration to a WebEx that will be held on July 6, 2016. During this registration, participants are requested to identify interest in participation in the Telematics Steering Committee, a Proposal Workshop, or other.
5. ASAM to distribute login credentials to registered participants for the WebEx and host the WebEx on July 6, 2016.

All questions, comments, or concerns regarding these notes should be directed to mailto:joseph.sparacino@asam.net.