1. **Contact**
Provide the name and contact information of the primary contact person for this IC activity. Affiliation is any entity that provides the person financial or other substantive support, for which the person may feel an obligation. If necessary, a second/alternate contact person’s information may also be provided.

**Name:** Massimo (Max) Osella  
**Email Address:** massimo.osella@gm.com  
**Phone:** +1 248 930 4983  
**Employer:** General Motors  
**Affiliation:** USCAR

2. **Type of Activity**
Specify whether this activity will be entity-based (participants are entities, which may have multiple representatives, one-entity-one-vote), or individual-based (participants represent themselves, one-person-one-vote).

Entity-based event administration; attendance open to the public. The activity focuses on Ethernet & IP standards and interoperability in the automotive environment. The activity manages the annual Ethernet & IP @ Automotive Technology Day (EIP@ATD). EIP@ATD is in its 7th year overall and under the IEEE Standards Association since 2014.
The next EIP@ATD is 31 October – 2 November 2017 at the San Jose Convention Center, San Jose, CA.

3. **Purpose**

3.1. **Motivation and Goal**
Briefly explain the context and motivation for starting this IC activity, and the overall purpose or goal to be accomplished.

The automotive industry has held six previous Ethernet & IP @ Automotive Technology Days, the first was hosted by BMW AG in 2011, the 2014 event was the first held under this IEEE-SA Industry Connections Activity. Topics covered at these technology days include IEEE802.3cg, IEEE802.3ch, IEEE802.3bp (1000BASE-T1), IEEE802.3bw (100BASE-T1), IEEE802.1 AVB, TSN, AUTOSAR, GENIVI, Automotive Applications, Wake Up Concepts, EMC, Connectors, Cables, ISO26262, etc.

Keynote speakers, technologists and subject matter experts are invited from the

Car Makers (OEMs):
- BMW
- Daimler
- GM
- Hyundai
- VW
- Toyota
- ...

Tier1s:
- Bosch
- Continental
- Denso
- Harman
- ...

Tier2s (Semiconductor)
- Broadcom
- Marvell
- Vitesse
- TI
- Renesas
- ...

Tier2s (Tools):
- Elektrobit
- ETAS
- Vector
- TT-Tech
- ...

Tier2s (Connector & Cables):
- TE Connectivity
- MOLEX
- Rosenberger
- ...

Academia:
- FH Zwickau
- UNH
- FH Zürich
- TU Ilmenau
- Stanford University
- ...

Industry consortia:
- AVnu Alliance
- AUTOSAR Alliance
- Genivi Alliance
- OPEN Alliance
- ...

Especially those involved in interoperability and standard activities as well as strategists for automotive communication technologies. These events are open to anyone interested in the next generation automotive communication technology.

The use of Ethernet and IP has grown in the automotive industry and standards are being developed within IEEE: IEEE P802.3cg, IEEE P802.3ch, IEEE 802.1 AVB, IEEE 802.1 TSN, IEEE 1722a.

There is therefore a stronger need in the market place to promote the standards under development and their use to address interoperability issues.

The IEEE-SA Ethernet & IP @ Automotive Technology Day focuses on addressing this need by continuing, restructuring and expanding the scope of the current event initially organized by industry.

The overall purpose of the event is to allow the industry to assess the maturity of the technology and to promote the adoption of new standards in the automotive market.

**3.2. Related Work**
Provide a brief comparison of this activity to existing, related efforts or standards of which you are aware (industry associations, consortia, standardization activities, etc.).


Besides Automotive Ethernet Congress, none of the above conferences or events focuses on the deployment of Ethernet & IP in the automotive environment. In contrast to the IEEE-SA Ethernet & IP @ Automotive Technology Day, the Automotive Ethernet Congress has been tied to the same location in Munich, Germany since its start. Additionally, Automotive Ethernet Congress is usually in February whereas Ethernet & IP @ Automotive Technology Day is around September-November.

**3.3. Potential Markets Served**
Indicate the main beneficiaries of this work, and what the potential impact might be.
As mentioned above, industry has hosted this event in Germany in the initial three years. But Ethernet is widely used all over the world. North American and Asian car manufacturers are very active in the according standardization groups. The 2014 event was organized in North America, the 2015 event was held in Japan, the 2016 event was held in France, the 2017 event will be held in Silicon Valley, USA.

4. Estimated Timeframe
Indicate approximately how long you expect this activity might take to achieve its proposed results (e.g., number of weeks/months/years). Also indicate when you expect this activity to be reviewed by ICCom for completion or possible extension (maximum two years).

Expected Completion/Review Date:
The 2017 event will be the 7th annual event and the third as an IC activity.
This is the second request to extend the ICAID. The previous ICAIDs stated that the Activity should be reviewed by ICCom (after two events) for possible continuation/extension. It is anticipated that the review after two events will result in (a) continue to operate the Ethernet & IP @ Automotive Technology Day under IEEE-SA/ICCom, (b) transfer the Ethernet & IP @ Automotive Technology Day to IEEE Conference organizers, or (c) disassociate IEEE-SA from the event.

5. Proposed Deliverables
Outline the anticipated deliverables and output from this IC activity, such as documents, proposals for standards, conferences and workshops, databases, computer code, etc., and indicate the expected timeframe for each.

An annual IEEE-SA Ethernet & IP @ Automotive Technology Day, changing venue worldwide. Frequency may be increased and/or new locations may be added after further market research supports such a decision.

6. Funding Requirements
Outline any contracted services or other expenses that are currently anticipated, beyond the basic support services provided to all IC activities. Indicate how those funds are expected to be obtained (e.g., through participant fees, sponsorships, government or other grants, etc.). Activities needing substantial funding may require additional reviews and approvals beyond ICCom.

Funding for the annual Ethernet & IP @ Automotive Technology Day is provided by registration fees, exhibition fees, and financial supporters, with the IEEE-SA making up any shortfall.

7. Management and Procedures

7.1. IEEE Sponsoring Committee
Indicate whether an IEEE sponsoring committee of some form (e.g., an IEEE Standards Sponsor) has agreed to oversee this activity and its procedures.
Has an IEEE sponsoring committee agreed to oversee this activity?:

No

If yes, indicate the sponsoring committee’s name and its chair’s contact information, and skip the remaining parts of this section (skip 7.2 and 7.3, below).

Sponsoring Committee Name: Committee Name
Chair’s Name: Full Name
Chair’s Email Address: who@where
Chair’s Phone: Number, including country code

Additional sponsoring committee information, if any.

7.2. Activity Management
If no IEEE sponsoring committee has been identified in 7.1 above, indicate how this activity will manage itself on a day-to-day basis (e.g., executive committee, officers, etc).

A Steering Committee, consisting of representatives from the industry and IEEE-SA, organizes the event. The Steering Committee appoints a Program Committee for each annual event. The Program Committee oversees the submission and review of presentations and organizes the program agenda for a specific EIP@ATD.

7.3. Procedures
If no IEEE sponsoring committee has been identified in 7.1 above, indicate what documented procedures will be used to guide the initial operations of this activity (e.g., the Industry Connections Activity Baseline Procedures).


IEEE-SA Ethernet & IP @ Automotive Technology Day Membership Criteria Guideline, Version 1.0, 07 November 2013.


8. Participants

8.1. Stakeholder Communities
Indicate the stakeholder communities (the types of companies or other entities, or the different groups of individuals) that are expected to be interested in this IC activity, and will be invited to participate.

Representatives of various car manufacturers and companies from automotive electronics, consumer electronics, semiconductor design, semiconductor fabrication, measurement and tools will be interested in (and benefit from) this activity, including standards developers and users at:

- IEEE802.3
- IEEE802.1
- IEEE1722
8.2. Expected Number of Participants

Indicate the approximate number of entities or individuals expected to be actively involved in this activity.

Steering Committee members: 5-10
Program Committee: 10-20
Event attendees: 300-500

For reference, please note the attendance at the previous Ethernet & IP @ Automotive Technology Days:
2011: 320 (0 paid) – Munich, Germany
2012: 447 (403 paid) – Regensburg, Germany
2013: 522 (450 paid) – Stuttgart, Germany
2014: 515 (440 paid) – Detroit, USA
2015: 576 (272 paid) – Yokohama, Japan
2016: 307 (236 paid) – Paris, France

8.3. Initial Participants

Provide a list of the entities or individuals that will be participating from the outset. It is recommended there be at least three initial participants for an entity-based activity, or five initial participants (each with a different affiliation) for an individual-based activity.

Use the following table for an entity-based activity: (Example board members, all have not been contacted/confirmed yet)

<table>
<thead>
<tr>
<th>Entity</th>
<th>Primary Contact</th>
<th>Additional Representatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Bosch GmbH</td>
<td>Damon Martini</td>
<td></td>
</tr>
<tr>
<td>USCAR</td>
<td>Massimo Osella (GM)</td>
<td>Jim Lawlis (Ford)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ali Muhialdin (FCA)</td>
</tr>
<tr>
<td>Continental AG</td>
<td>Daniel Hopf</td>
<td></td>
</tr>
<tr>
<td>JASPAR</td>
<td>Hiroyuki Matsumoto</td>
<td></td>
</tr>
<tr>
<td>Renault</td>
<td>Josetxo Villanueva</td>
<td></td>
</tr>
<tr>
<td>Center for Automotive Research at Stanford</td>
<td>Stephen Zoepf</td>
<td></td>
</tr>
<tr>
<td>IEEE-SA</td>
<td>Joan Woolery</td>
<td></td>
</tr>
</tbody>
</table>

This Activity has been active since 2013. The current Steering Committee members are: