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1 Introduction

1.1 Background

CPS requires multiple engineering competences across various engineering disciplines. The development of such systems is a huge challenge, also because of the heterogeneity of engineering tools involved in development platforms across the development lifecycle. In order to overcome this challenge, past and on-going EU research projects have developed the basis for an International Open Standard for Development Tool Interoperability, the so-called Interoperability Specification (IOS). However, due to lack of coordination, current IOS-related activities, especially with respect to standardization and possible extensions of appropriate standards and specifications, are uncoordinated, endangering the huge financial effort that has been put into the IOS idea and the chance to establish it. IOS cannot, after first studies in the topic have shown, be just one single formal standard but will be rather a set of in the end after an appropriate process of tracking and adoption selected standards, specifications and guidelines. The main goal of CP-SETIS is to conceive and set up a sustainable organizational structure as a platform joining all stakeholders, to coordinate all IOS-related activities, especially to maintain and continue the processes, of further extensions of the IOS database and serve as a platform and coordination forum to foster application of the IOS database. This organizational structure will be implemented within existing, sustainable European organizations, like the ARTEMIS-IA Working Groups or similar, which are open to all stakeholders. CP-SETIS will ensure the support of all stakeholders for this structure, its operational rules, its implementation within existing structures and, most importantly, their commitment to coordinate all IOS-related activities within this structure. In summary, the both head-line goals of CP-SETIS are:

- **Goal 1**: The alignment of all IOS-related forces within Europe to support a common IOS Standardization Strategy, aiming at a formal process of tracking, selecting and adopting standards, specifications and guidelines for the IOS Database.
- **Goal 2**: The definition and implementation of sustainable IOS Standardization Activities supporting both, formal establishment of ‘stable’ sets of IOS versions as well as their extensions, if possible within existing structures that survive the lifespan of single projects.

Although one type of an Interoperability Specification (IOS) has already been proposed and defined, and is currently developed further in many R&D projects it is a long way from the current state to a standard set supported by all stakeholders.

Key stakeholders with different objectives are:

- End Users not being interested in Software Engineering for Development Tools, but expecting solutions from Tool Vendors, System Integrators and OEMs;
- Tool Vendors – mostly being SMEs – not being able to converge to a single standard, but waiting for emerging standards from standardization bodies, but needing integration with other vendors’ tools;
- Projects that develop or have developed partial contributions to the IOS base within the scope of their project technical domain;
- Standardization Bodies being unable to install standards, guidelines and specifications without knowledge about the needs and without the experience of End-Users and Tool Vendors.

The different actions currently taken towards a development of the IOS database are quite diverse and only partially coordinated.
1.2. Scope

The purpose of the document is to outline the planning of communication and dissemination activities that will help to disseminate widely achievements towards the goals of CP-SETIS as described in Section 1.1 and will support exploitation of these achievements.

Dissemination activities have been carefully selected and planned since the project beginning in order to maximise the efficiency of the resources dedicated to this scope.

The purpose of the communication and dissemination activities in CP-SETIS are to:

- Raise awareness – let others know what the project is doing;
- Inform – increase the knowledge of the community, especially end-users and tool-vendors;
- Engage – get input/feedback from the community, especially tool-vendors and standardisation bodies;
- Promote – spread project outputs and results.

Defining the scope of dissemination is a first step to decide on the objectives, target audience, communication means and messaging.

1.3. Objectives

The objectives of the communication and dissemination activities in CP-SETIS are the following:

- Elaborate a Communication, Dissemination and Exploitation Strategy and Policy, and effectively implement them to ensure proper communication about objectives Goal 1 and Goal 2 of CP-SETIS and to enable adequate exploitation of results within the project consortium and also outside it toward the broader Embedded and Cyber Physical Systems Community (including but not restricted to the ARTEMIS Community).
- Link with standardisation bodies such as OASIS, ASAM, OMG, ISO, IEC and others (see WP 1 and WP5 descriptions) to ensure proper communication between them and the standardisation experts of the partners and the projects taken into account.
- Link with the international scientific and industrial community, particularly with standardisation experts in the domains addressed.

1.4. Target audience

From an Organizational & Strategical view, CP-SETIS will bring together all the relevant stakeholders concerned with the IOS (IOS is here understood in the sense of the set of adopted standards, specifications and guidelines):

- Developing Organizations and OEMs as End-Users of Tools, which need interoperable tool chains to enable cost-effective development of innovative future Cyber-Physical Systems.
• IOS-related European Research Projects, in which IOS is further developed  
• CPS Tool Vendors and System Integrators, that use the IOS as a specification basis for their interoperable tools and for which the IOS enables innovative new functionalities in these tools.  
• Standardization Bodies, such as ASAM, OASIS, OMG and others, which will further develop the stable parts of IOS.  
• Research Organizations, integrating their interoperability research results into extensions of IOS.  
• ARTEMIS-IA as the major European organization, which  
  (a) already has the vast majority of IOS stakeholders as members,  
  (b) is private member to the ECSEL Joint Undertaking, which funded and still funds almost all IOS related R&D projects and  
  (c) is committed to further the development of Standards stemming from Europe, thus increasing European competitiveness in Cyber Physical Systems Engineering.

The established communication channels of ARTEMIS-IA will be of great value for the communication and dissemination activities of CP-SETIS.

2. CP-SETIS DISSEMINATION STRATEGY

Enormous efforts are put since several years in (safety-critical) CPS engineering (design, development and testing activities), driven by common view of creation of a (Collaborative) Reference Technology Platform based on common Interoperability Specifications (IOS).

Particularly the very large ARTEMIS projects (e.g. CESAR, CRYSTAL, EMC2) are themselves innovation eco-systems (up to almost 100 partners and 100 Mio € budget), co-operating with other ARTEMIS projects only loosely coupled. It is therefore important to align these activities and to support them to bundle forces.

The goal is to achieve by joint forces formal standardization or specification in appropriate standardization bodies (organizations), taking into account the intended safety and dependability issues of the CPS areas addressed (which is primarily cross-domain with domain-specific instantiations). An important argument is, that during the last years, standardization was identified both by the EC (European Commission) and the industry to be of strategic importance as an enabler that eases approach to markets and improves competition on international level.

An Innovation Action in pre-standardization as CP-SETIS is designed for the challenging goal to create a sustainable innovation ecosystem. This sustainable ecosystem, also called IOS Community Forum (ICF) requires to involve major companies and organisations to become „member”. To convince parties to join the ICF, we have to show the needs for ICF and the benefits for parties of becoming active in ICF.

This requires particularly strong dissemination and communication in the communities to be addressed, within the existing ARTEMIS/ECSEL structures (Working Groups, Centres of Innovation...
Excellence CoIE and projects), but as well outside these structures. To reach the goal of creating the ICF, the target groups listed in section 1.4 are clustered into three communities:

- ARTEMIS/ECSEL community
- Standardisation bodies
- The broader ICT community

The three major lines of dissemination that address these three communities are:

- Dissemination activities within the ARTEMIS/ECSEL communities: this includes addressing industrial and academic stakeholders (including users and ARTEMIS CoIE, e.g. EICOSE, and Working Groups) and cooperation with the major related projects and their standardization managers (MBAT, CRYSTAL, EMC2, MBAT, SafeCer, and others) in joint meetings/workshops to exchange experiences and align activities particularly towards standardization of the IOS/CRTP, but also in general standardization issues.

- Dissemination activities towards relevant standardization bodies and organizations, particularly industry-based ones like OASIS, ASAM, ProSTEP, FMI, OMG and others, but also with international ones like IEC TCs, ISO TCs, ETSI and CEN/CENELEC where relevant, since generic and domain specific functional safety and security standards and dependability – related communication standards are managed at this level as well and have to be taken into account or influenced (invited to targeted workshops, individual partner contacts).

- Addressing the broader ICT community outside the ARTEMIS/ECSEL group, particularly related Horizon 2020 projects by participation of partners in relevant workshops, conferences, networking events, exhibitions or fairs, including EC-ICT events and ARTEMIS/ITEA3 Co-Summits. This may include computer associations, industrial association and the like, for raising awareness for the importance of standardization with focus on the IOS. (Mainly Year 2)

These three lines of dissemination are followed by more detailed descriptions in chapter 5, where the dissemination lines are related to the relevant work-packages and the main stakeholders, projects and standardization bodies associated with these work-packages.

The first phase focusses on the collection of information and participation in standardization activities of the projects (e.g. via contacts to the standardization managers and the respective standardization and dissemination WPs).

In the second phase the findings of CP-SETIS and evolving results from the other CP-SETIS WPs will be communicated along the three dissemination lines made more concrete and detailed in chapter 5.

2.1. The role of Associated Partners

A prerequisite for a sustainable ecosystem is the existence and partnership of a reasonable number of companies, stakeholders from standardization, users and the CPS community. Through the concept of
associated partners, currently consisting of Airbus Group, ABB, Volvo, ETSI, Daimler, it is planned to include suppliers, tool providers, system integrators, and eventually certification bodies, representing all stakeholders involved in IOS standardization activities. The longer term purpose is to convince and motivate the associated partners to become active in ICF and thus create a sustainable ecosystem.

Already, the number of companies interested in the CP-SETIS sustainable concept is considerably large, with the number of formal LoI’s being small just at the beginning. Throughout the lifetime of the project, we will invite new associate partners to join, stemming from end-users, suppliers, tool providers (large ones and SMEs), research organizations and networks of excellence.

Most of the participating organisation in this project but also of the associated partners already have some IOS-related in-house agendas in place. Thanks to this project, the involved partners will start to exchange on their plans and to synchronize/harmonize in order to maximize their IOS efforts and to address a wider IOS relevant market, i.e., more technology providers will be able to fulfil their needs, as they need to focus on less different IOS strategies.

Associated partners will send representatives to workshops and meetings, contributing to the results of CP-SETIS, and further commitment to IOS Standardization Activities within their companies/organizations.

As the partners and associated partners are considered key-stakeholders to this activity, WP 3 will establish contacts to understand what associated partners would contribute in a more detailed way (which conferences, workshops, standardization groups etc. they can address or they are already members of). WP6 will support WP3 in making these contributions visible on the website and in other communication and dissemination tools, where appropriate.

3. EXPLOITATION STRATEGY

The challenging goal to create a sustainable innovation ecosystem (ICF) for the exploitation of results, that is the continuation of implementing of the CP-SETIS recommendations, requires particularly strong dissemination and communication in the communities to be addressed. Both within the existing ARTEMIS/ECSEL structures (Working Groups, Centres of Innovation Excellence CoIE and projects), as well as outside these structures.

In the longer term, with harmonized results from the research projects, end-users will be more likely be able to carry out internal transfer of results including to other research projects and to advanced engineering projects. In terms of exploitation and dissemination this is very important since the end-users would otherwise neither at company level exploit nor disseminate research results that are not harmonized, and that may even be contradictory. Harmonized results from the concerned IOS-related projects (MBAT, nSafeCer, CRYSTAL and EMC2) will be the base for internal advanced engineering projects within the end-user organizations and will thereby influence end-user development processes.
Therefore key objective of CP-SETIS is to foster the support and industrial acceptance for the interoperability specification and to define a roadmap for development of the IOS base standards, specifications and guidelines (cf. work packages 3, 4 and 5). This will be achieved by having key stakeholders inside this project consortium but more over by identifying and inviting other key stakeholders via workshops and bi-lateral meetings.

A key goal of the CP-SETIS WP3 and Exploitation will also be to elaborate IOS business plans tailored to the wide range of the business stakeholders to be interfaces with our project (e.g., large or small CPS tool providers, innovative SMEs selling integration technologies occupying market niches, very large integration platform vendors, academics developing innovative engineering tools, OEMs, small to very large and distributed developing organizations as end-users). These business plans will pave the way towards the establishment of a Joint Exploitation Plan at European level that will considerably back-up the individual exploitation plans of the involved parties.

The planned IOS sustainable structure to exploit in the long term the results achieved in building the IOS database with an adopted set of standards, guidelines and specifications is the main instrument for exploitation. Therefore, an appropriate host will be selected to facilitate use and maintenance of the processes and give some advice and support to potential customers from the communities addressed considerably long beyond the end of the project.

The publication of a standardization strategic agenda for CPS and IOS related industrial success stories (cf. work packages 3 and 5) will lead to a wider acceptance of the interoperability specification and therefore lead to larger markets for IOS enabled products. This will also lead to new services offered by third parties in order to certify existing building blocks (i.e., tools) regarding their IOS compliance but also to new roles inside companies (or new services offered by third parties) around architecting collaborative engineering environments based on IOS enabled building blocks.

4. TARGET GROUPS

The target groups for communication, dissemination and exploitation are the key stakeholders identified in the project plan for CP-SETIS. The CP-SETIS consortium encompasses key stakeholders involved in the most important European IOS-related projects. It consists of a set of core partners, and a set of associated partners (see table 1 below).
End-Users | AVL, Thales, Siemens | ABB, Volvo, Daimler, Airbus Group
---|---|---
Research Organizations | KTH, OFFIS, AIT |  
Competence Clusters & Industrial Associations | SafeTRANS, ARTEMIS-IA |  
Standardization Bodies | ASAM, ETSI | (OASIS and ProSTEP expressed interests and should be joining our project as associate partners, others will be addressed as well)

More details on the associated partners are listed in Table 5, where especially their relation to IOS is indicated.

Table 2: CP-SETIS Initial Associate Partners

<table>
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<th>Legal Entity</th>
<th>Background &amp; Previous Experience in IOS-related Projects</th>
<th>Key Persons</th>
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<tr>
<td>Airbus (end-user in the aerospace domain)</td>
<td>(Co-)Coordinating IOS-related activities with KTH and OFFIS in MBAT and CRYSTAL</td>
<td>Andreas Keis</td>
</tr>
<tr>
<td>Daimler (end-user in the automotive embedded systems domain)</td>
<td>Coordinator of MBAT</td>
<td>Jens Herrmann, Michael Weber</td>
</tr>
<tr>
<td>ABB (end-user in the automation domain)</td>
<td>IOS-related use case owner in iFEST and EMC2</td>
<td>Tiberiu Seceleanu</td>
</tr>
<tr>
<td>Volvo (end-user in the automotive embedded systems domain)</td>
<td>Leader of the automotive domain use cases in MBAT, CRYSTAL and EMC2</td>
<td>Thomas Söderqvist</td>
</tr>
<tr>
<td>ASAM (Association for Standardisation of Automation and Measuring Systems, standardization body)</td>
<td>Interactions initiated with AVL in the context of CRYSTAL for bridging the gap between IOS Lifecycle Interoperability and the ASAM standards</td>
<td>Simon Preis</td>
</tr>
<tr>
<td>ETSI European Telecommunications Standards Institute</td>
<td>Active in a broad range of standardization activities in industrial sectors like Model-Based Testing MBT, Intelligent</td>
<td>Gaby Lenhart</td>
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Table 3: Initial IOS-related Projects that CP-SETIS will interface

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<tr>
<th>Projects</th>
<th>Goals</th>
<th>Time frame</th>
<th>Status &amp; results</th>
<th>Total nb. of partners</th>
<th>Nb. of IOS-related partner(s)</th>
<th>Nb. of use cases</th>
<th>Main contact for CP-SETIS</th>
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<tr>
<td>MBAT</td>
<td>New methods and techniques for combining model-based testing with static analysis, and making the corresponding tools interoperable</td>
<td>2011-2014</td>
<td>Adopted the IOS and RTP principles as initially defined by CESAR and iFEST, and defined IOS extensions for combined Testing &amp; Analysing Data Flows</td>
<td>39</td>
<td>24</td>
<td>21</td>
<td>Daimler, MBAT coordinator (CP-SETIS associate partner). AIT leading the MBAT Technology Subproject, Standardization and Dissemination WPs. KTH is coordinating the IOS-related activities. Several other CP-SETIS partners are also partners in MBAT</td>
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<tr>
<td>CRYSTAL</td>
<td>Definition of an enhanced IOS as a European standard for Safety-Critical Systems</td>
<td>2013-2016</td>
<td>Adopted the IOS and RTP principles as initially defined by CESAR and iFEST, initiated activities related to its extension besides existing CPS Engineering Standards</td>
<td>68</td>
<td>30</td>
<td>26</td>
<td>AVL, CRYSTAL coordinator. OFFIS is co-coordinating IOS-related activities. Several CP-SETIS partners are also involved in CRYSTAL</td>
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<tr>
<td>Project</td>
<td>Description</td>
<td>Start Date - End Date</td>
<td>Status</td>
<td>Key Features</td>
<td>Participants</td>
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<td></td>
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<tr>
<td><strong>EMC2</strong></td>
<td>Embedded multi-core systems for mixed criticality applications</td>
<td>2014-2017</td>
<td>Just started. Its sub-project 5 (System Design Platform, Tools, Models and Interoperability), focused on IOS-related issues is a follow-up of iFEST</td>
<td>98</td>
<td>Siemens, SP5 coordinator of EMC2. KTH co-leading IOS-related activities. AIT Standardization Manager. Several CP-SETIS partners are also involved in EMC2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>nSafeCer</strong></td>
<td>Safety Certification of software-intensive systems with Reusable Components</td>
<td>2012-2015</td>
<td>For implementation of a certification tool framework based on process models, component models and contracts some tools, e.g. the Workflow Engine for Analysis, Certification and Test (WEFACT) (partially) automating the C/Q process an OSLC interface according to the IOS concept is implemented as a first approach</td>
<td>29</td>
<td>VOLVO co-ordinator, AVL, VOLVO Automotive, AIT Standardization and Dissemination manager, Thales Aerospace, Rail.</td>
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CP-SETIS will interface both with associated partners and with projects in Table 3 by means of the tools described in chapter 5.
5. COMMUNICATION, DISSEMINATION METHODS AND TOOLS

5.1. Introduction

In previous chapters the headlines of the Communication, Dissemination and Exploitation have been described, together with the target groups to address by the Communication and Dissemination activities.

In this chapter, more concrete means will be described that will be applied to serve the goals and headlines defined in the previous chapters. It is necessary to define by whom and how the target groups will be approached and informed and which means will be applied for information sharing and raising awareness.

For this purpose the means and tools are described in more detail including their scopes and use in relation to the objectives of the Communication and dissemination activities. In addition to this, the different tools are planned to be combined in different ways during the two project years in order to effectively reach the objectives.

During the first project year the dissemination activities will aim to make the stakeholders aware of project’s objectives and expected results and to engage them to support the objectives of the project.

The CP-SETIS official website was developed at the beginning of the project; a first version of leaflets and posters was designed and presented at the Artemis Co-Summit event in Berlin in March 2015; updated versions with a stringent ‘Corporate Identity’ look and feel were devised for follow up events (Deliverable D6.1).

Templates for documents and presentations have been created. Most of the dissemination material produced at this stage will be used throughout the project life, perhaps with some updates, when relevant.

It has to be pointed out that the project dissemination activities are not limited to specific stakeholder groups, but also address the general public in order make it aware of the project’s existence and goals.

Publications and presentations aim at describing the project’s concept and approach. First feedback is expected from Stakeholders via the first workshops planned. The interest for the planned events is expected to increase over time. Newsletters are expected to play an important role in spreading the information about the progress of the project.
5.2. Communication and dissemination from co-operations with projects

In this section, the communication and dissemination aspects in the cooperation with the major related projects and their standardization managers (MBAT, CRYSTAL, EMC2, MBAT, SafeCer, and others) is provided in more detail. The main lead in interfacing to IOS-related projects is in WP2.

WP2 is to serve as an interface to IOS-related projects and to build a comprehensive cartography of the interoperability challenges and concerns they address, and to provide support to the projects in order to foster cross-fertilization and concrete cross-project interactions regarding tool interoperability for critical CPS development and engineering. The activities covered by this WP will stay at a high-level and be more focused on collecting and harmonizing inputs from the projects. This WP will also serve as the main technical contact point for supporting the projects. Finally, this WP will also collect Success Stories from the projects, showing concrete implementations of CPS Engineering Platforms based on the IOS.

WP2 is to collect Interoperability Scenarios from the projects, the rationale being to build a centralized database of generic (and IPR-free) scenarios defining the interoperability requirements and needs from the end users to be disseminated beyond the projects. This will imply to check with the use case owners of the projects if this information can be publicly disseminated.

WP2 will organize joint meetings/workshops to exchange experiences and align activities particularly towards standardization of the IOS/CRTP, but also in general standardization issues.

WP6 will communicate and disseminate these Success stories and Generic Interoperability scenario’s and make them available on the website when relevant and after consent of the use-case owners.

5.3. Communication and dissemination via co-operations with standardization bodies and organizations.

Dissemination activities are also developed towards relevant standardization bodies and organizations, particularly industry-based ones like OASIS, ASAM, ProSTEP, FMI, OMG and others, but also with international ones like IEC TCs, ISO TCs, ETSI and CEN/CELENEC where relevant, since generic and domain specific functional safety and security standards and dependability – related communication standards are managed at this level as well and have to be taken into account or influenced, particularly when SW tools and tool chains are addressed in these standards.

WP4 is active in this involvement of adequate standardization organizations, willing to take up the pre-standard specifications and to transform them into “real” standards, specifications or guidelines. Part of this work is (i) to identify standardization organizations where a specific standard would fit into their portfolio, (ii) to get their awareness and commitment, and (iii) to check which existing standards have to be fulfilled, and to keep in contact with these standardization organizations as well.
This work involves directed networking and negotiation activities as well as the organization of standardization workshops to bring the stakeholders together, and as a result, consists in defining a roadmap towards the establishment of the IOS standardization base.

WP6 will communicate such activities and publish the results of such networking activities and workshops at the website.

5.4. Communication and dissemination by co-operations with key-stakeholders.

Beside the identification of the relevant stakeholders by WP3, a further objective of this work package is to organize meetings with them, to get their commitment to support the IOS, and to elaborate IOS business plans tailored to the wide range of the business stakeholders and IOS tracked and adopted standards, specifications and guidelines to be involved.

Indeed, the business interests in relying on a common IOS base depend on the status and roles of these stakeholders, e.g., large or small CPS tool providers, innovative SMEs selling integration technologies occupying market niches, very large integration platform vendors, academics developing innovative engineering tools, OEMs, small to very large and distributed developing organizations (end-users), etc.

Building-up and disseminating such tailored business plans will foster industrial acceptance of the IOS by lowering its adoption barriers, and will pave the way towards the establishment of a Joint Exploitation Plan at European level that will considerably back-up the individual exploitation plans of the involved parties.

Finally, in order to make this wider IOS concept a real success, it is important to provide and share relevant “success stories”, demonstrating the application of the IOS in a specific context and its business value. It is planned to identify some first success stories among the organizations which have been in touch with the IOS during the ARTEMIS projects CESAR, iFEST, MBAT, CRYSTAL projects, as these organizations already could gather some experiences. After that, it is planned to work with new stakeholders on success stories in order to help them to promote the IOS concept within their own organization to get the support of decision makers regarding an IOS commitment.

WP6 will be instrumental in the dissemination of the tailored business plans and success stories that will foster wider industrial acceptance of the IOS.
5.5. Communication and dissemination to the broader ICT community

The third dissemination line is to address the broader ICT community outside the ARTEMIS/ECSEL group, particularly related to Horizon 2020 projects. This is implemented by participation of partners in relevant workshops, conferences, networking events, exhibitions or fairs, including EC-ICT events and ARTEMIS/ITEA3 Co-Summits. This will be mainly done in the second year and WP6 is in the lead of this activity.

ARTEMIS-IA will provide CP-SETIS opportunities to disseminate in the events organized or visited by ARTEMIS-IA, as far as this does not conflict with the specific purpose of an event or visit.

WP6 will also publish the revised ARTEMIS Strategic Standardisation Agenda, to be delivered by WP5. This is a means of long-term exploitation support.

5.6. Detailed overview of dissemination tools and actions

Communication and Dissemination are closely linked in this type of Innovation Action. The goal is first to access the closer CPS Community (ARTEMIS/ECSEL membership and projects) including associated partners and standardization bodies (organizations). When the work progresses and first intermediate results are available, more effort is directed towards the broader CPS-related community (particularly after Milestone 1, Month 12). Means are listed below, for details see “Dissemination” above. These means are part of this CP-SETIS Communication, Dissemination and Exploitation Strategy and Policy Plan:

- Initial and two later press releases,
- By flyers, leaflets, brochures and posters informing about the CP-SETIS intentions and progress,
- Articles submitted to industrial and scientific publications (Newsletters, ERCIM News etc.) by partners,
- Creating and maintaining a Web-Portal with active participation possibilities (e.g. public questionnaires, etc.), private and public part,
- Creation of an initial network (first contacts now from ARTEMIS-IA, ECSEL, related projects, standardization contacts), extension during the project,
- Dedicated workshops according to the time line of the threefold dissemination approach). As indicated in the sections 5.2 to 5.4, this is a shared responsibility with WP2 for workshops with projects, with WP3 for workshops with key-stakeholders and with WP4 for workshops with standardization bodies. WP6 will organize more generic workshops for dissemination purposes to the ARTEMIS and broader ICT target groups.
- Participation of partners in conferences, workshops and exhibitions/fairs, dissemination of CP-SETIS information at booths, etc.,
- Intermediate Reports (Public edition of results of WP1, WP2 and WP3),
- Publication of the Final Report (CP-SETIS Strategic Agenda for CPS Standardization, outcome of WP5),
- Long term dissemination: via the ARTEMIS Standardization WG and the ARTEMIS Repository.

5.7. Key dissemination tasks

Task 6.2:

(Co-) Organise networking events, workshops and forums to address a wider public to disseminate CP-SETIS results, and promote wider participation of the ARTEMIS Standardisation Working Group, and keep contacts with other relevant working groups such as the Tool Platform WG and the Repository WG. At least 6 workshops or events are planned to address the different stakeholder groups. This is pre-requisite for longer term exploitation as well (which in the end will be achieved by Task 1.1, implementation of the conceptual model, but needs strong support by WP6 activities).

Task 6.3:

Establish and maintain regular contacts with standardisation bodies and invite them to common events.

Task 6.4:

Communicate and disseminate publicly and to the stakeholders, by making available information and setting-up and maintain the communication tools for this purpose: web-site, news alerts, press releases, etc. This includes the following activities:

- Establish a “contacts list”: for the project and for a privileged network to raise the interest in the IOS-related projects activities and results. The building of this privileged network will start from the list of contacts from the ARTEMIS-IA and other initiatives in which the Consortium Partners are involved.

- Set-up a web-portal to support all Partners and guarantee a high quality level of information flow, their management and consequently maximize the results of the Innovation Action.

Task 6.5:

Publish on the web-portal periodic news (3) according to the major achievements. These news alerts will be disseminated on both the web-portal, and when participating to major events (as will be described in the Communication and Policy Plan).

- Publications of articles, reports, leaflets and brochures: to targeted media, or to larger audience for public media.

Task 6.6:

Publish the revised Strategic Standardisation Agenda. This is a means of long-term exploitation support as well.
6. Policy

The following procedure for submitting papers and articles to conferences and publications has been set up. The participation of CP-SETIS Partners in an event relevant to CP-SETIS must be announced beforehand to the Steering Committee (SC). Moreover, before and after CP-SETIS is presented at a conference, or elsewhere, some brief information needs to be published on the project repository and on the website, while making presentations and any accompanying publications downloadable. If this is not feasible, due to limitations, etc. there should be a written approval by the Coordinator or the Dissemination Manager. This is not required if standard materials and presentation slides, which have already been published or used, are presented on an event by partners.

For a conference presentation or publication, the following procedure should be followed:

• 4 weeks before the submission deadline: Completion of an appropriate Form and submission of it to the SC including the Project Coordinator, the Dissemination Manager. In case of limitations, authors should send material to be presented and the dissemination form to the Project Coordinator, the Dissemination Manager.

• 3 weeks before the submission deadline: The Consortium should be informed at least via email. Authors need to send info on the event and all the material to be published and to publish it on the project repository.

• 2 weeks before the submission deadline: Comments have to be sent to the authors and a copy to the Project Coordinator, the Dissemination Manager. Then the author should revise the draft paper accordingly. In case of conflicts, it is the duty of Project Coordinator, the Dissemination Manager together to take the final decision.

• After paper acceptance, the revised relevant Form has been sent to the Project Coordinator, the Dissemination Manager, together with a copy of the final material to be presented.

It is not possible to publish or submit any new kind of material on CP-SETIS without the approval at least of the Project Coordinator and the Dissemination Manager. The above will be strictly applied in order to:

• Avoid repetition of publications of the same work,
• Avoid publication of restrictive and/or commercial confidential data,
• Avoid misunderstanding between participants and publication of one’s work without proper referencing,
• Secure optimum use of dissemination resources of the project,
• Guarantee the reception of all dissemination materials.
7. Dissemination activities until April 2016

- **15 December 2014**: A full page CP-SETIS project announcement article in ARTEMIS-IA Magazine no. 17 with title “CP-SETIS a standardisation support action”.

- **11 March 2015**: At Berlin Conference Center during the ARTEMIS/ITEA Co-summit event 2015, set-up CP-SETIS Kick-off Meeting and CP-SETIS Booth presentation

- **25 March 2015 – 17 November 2015**: Create a tailored website frame work, added and updated the website content, implemented a dissemination page with event agenda and pictures and designed a restricted area for internal document use. For more information, see: [http://cp-setis.eu/](http://cp-setis.eu/)

- **16 April 2015**: Update and design of the CP-SETIS poster and leaflet. For more information see communication items at Media: [http://cp-setis.eu/documents/](http://cp-setis.eu/documents/)

- **16 September 2015**: Set-up a full day CP-SETIS internal partner meeting in the ECSEL-JU office, White Atrium in Brussels.


- **14. October 2015 Co-ordination Workshop CP-SETIS and JU ARTEMIS Project HOLIDES, Bilbao, Spain. Presentation of Interoperability Concepts from CRYSTAL and HOLIDES were presented, as well as the Sustainable Structure implemented by CP-SETIS.**

- **20-22 October 2015**: During the ICT2015 event in Lisbon, presented the activities of CP-SETIS in the ARTEMIS booth

- **October 20, 2015**: CP SETIS co-organized the ProSTEP iViP – OASIS OSLC Conference in Germany and presented its work there.

- The CP-SETIS Flyers were distributed at SAFECOMP 2015 (Delft), Euromicro SEAA 2015 (Funchal, Madeira), AMAA 2015 (Berlin)

- **November 2, 2015**: Eclipse Unconference Europe 2015, Germany, CP-SETIS co-organised the “Workshop on Life-cycle Interoperability – OSLC In Practice" at the Eclipse Unconference in Ludwigsburg.

- **February 2016**: Set up restricted area on CP-SETIS Webpage for internal exchange of documents. Adding members to this area and adding all documents

- **February 2016**: Poster Presentation and Dissemination Material at SafeTRANS booth at the Embedded World Exhibition in Nürnberg, Germany

- **February 2016**: Paper presentation [1] at Embedded World Conference in Nürnberg, Germany.
• **March 2016**: publication of upcoming event “28 April 2016: “Austrian Micro-Electronics Systems Symposium MESS16 in Vienna”

• **1 April 2016**: publishing new poster for SE2016 on CP-SETIS website

• **13-14 April 2016**: Poster exhibition at ARTEMIS Spring Event 2016

• **14 April 2016**: Project presentation at Road2CPS Cluster event 2016, Vienna.

## 8. CONCLUSIONS

The dissemination plan aims at planning communication activities which will help to disseminate widely CP-SETIS results. Therefore, this document aims at being a reference point for all information related to communication and dissemination activities at Project level. In addition, this document contains the dissemination procedures to be followed by all project partners.

This Dissemination Plan presented a comprehensive dissemination strategy, specific tools and activities adapted to the respective target groups and a clear policy. To further improve the dissemination strategy during the project’s life, the Dissemination Plan will be carried over the project whole duration.

## REFERENCES