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Project Acronym:

SOCRADES

Project Full Title:

**Service-Oriented Cross-layer infRAstructure for
Distributed smart Embedded devices**

Proposal/Contract No: EU FP6 IST-5-034116 IP SOCRADES

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Dissemination progress report

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¹ See Annex A for explanation of Dissemination Levels, as defined in the DoW

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1. Introduction

The objective of the Dissemination Report for SOCRADES is to point out and describe the activities performed in order to promote the project's results with the widest dissemination of knowledge from the project. Through the SOCRADES Dissemination Plan some activities have been identified and organised in order to promote the project's results with the widest dissemination of knowledge.

Dissemination is a horizontal activity that involves all SOCRADES partners aiming to disseminate the results of the project to a wide range of existing or potential stakeholders.

SOCRADES has been promoted especially following three directions:

- the notification of the project results in the scientific sector,
- the promotion of the project in the industrial world,
- the dissemination via centres and networks of excellence.

The aim is to form a critical mass of key industrialists and academics to promote the SOCRADES concept. In particular, effective dissemination is important in order:

- to make key individuals and groups aware of the work,
- to enable them to understand the concepts and potential benefits,
- to obtain critical feedback from them to assess the perceived value of the approach.

This report presents the dissemination activities carried out by the SOCRADES consortium during the first phase period (M1 – M18).

The main activities carried out within SOCRADES are:

- **Scientific, technical and general dissemination:** including all publications for presentation at conferences, workshops and journals.
- **Patents, demonstrators and industrial dissemination:** here the focus is on the applicability of SOCRADES results to enhance industrial interest on the project.
- **Website:** developed to support both external dissemination and interaction between the project partners.
- **Brochure and leaflet:** brochure and leaflets are used to disseminate projects results, especially during conferences and workshops.

The main groups targeted transversally by all these four activities are:

- **Science:** the focus is both on research and academic activities
 - Dissemination of new developed methodologies, technologies and tools for networked HW/SW systems embedded in smart physical objects in order to encourage further scientific activities.
 - Introduction of the scientific results into the academic education to keep it updated with reference to present scientific developments.
- **Companies:** the main objective of the dissemination activities for this group is the applicability of the developed procedures, instruments, tools and methods of SOCRADES.

1.1. Outline

Following the main activities described above, Chapter 2 describes the activities done in for Scientific, technical and general dissemination, Chapter 3 is referred to the Patents, demonstrators and industrial dissemination, Chapter 4 concerns the SOCRADES Website, Chapter 5 is about the Brochure and leaflets and finally Chapter 5 contains some conclusions and remarks to improve dissemination.

2. Scientific, technical and general dissemination

In Table 1 a list of the activities done by the SOCRADES partners during the first 18 months. This list includes all the publications for presentation at conferences, workshop and journals. Information about the date of the event, the characteristics of the audience (typology, countries and size) and the SOCRADES partner involved can be found in the table.

Special mention has to be done for the paper "Integration of SOA-ready networked embedded devices in enterprise systems via a cross-layered Web Service infrastructure" presented by SAP at the 12th IEEE Conference on Emerging Technologies and Factory Automation, held in Patras (Greece) on the 25th-28th September 2007. This paper was attributed the prestigious Best Paper Award of this conference.

Actual dates	Type	Type of audience	Countries addressed	Size of audience	Partner involved
05-06 October 2006	<i>Presentation:</i> ITEA 2 Symposium 2006: European research excellence for competitive software-intensive systems and services (Paris) - Fair	Research & Industry	Europe	522 partners	Schneider Electric
07- 10 November 2006	<i>Presentation:</i> IECON 2006 (IEEE) - Paris	Research & Industry	65 countries	959 papers in 131 sessions	Schneider Electric
09-10 November 2006	<i>Presentation and leaflets:</i> Manufature Conference 2007, Tampere	Research & Industry	Europe	400	Schneider Electric, POLIMI
13 November 2006	<i>Magazine:</i> Parliament Magazine-short article presenting the SOCRADES project	General public	International		Schneider Electric, POLIMI
21 - 23 November 2006	<i>Workshop and leaflet:</i> IST Conference in Helsinki	Research & Industry	Worldwide	Over 4,500 delegates	Schneider Electric, Siemens, POLIMI
08 December 2006	<i>Workshop:</i> Enterprise Services Community Workshop "Sensor Networks - Paving the Road to Real Business Applications", SAP AG Headquarters, Walldorf, Germany.	Industry	Europe	45	SAP
11 December 2006	<i>Presentation:</i> IPROMS training on-line course on Multi Agents technology (spreading of excellence)	Research	Worldwide	10-15 participants	Schneider Electric
17-18 January 2007	<i>Presentation and leaflets:</i> The Manufacturing in FP7 Conference, Cardiff, UK	Research & Industry	Europe		Schneider Electric, POLIMI
26 January 2007	<i>Presentation:</i> Zoltan Nochta, presentation of SOCRADES to students of University of Darmstadt, in the scope of a series of lectures given by Prof. Lutz Heuser (VP SAP Research)	University	Germany		SAP
30 January – 02 February 2007	<i>Fair:</i> Initi@tive 2007 in Nice, France	Industry	Worldwide	4000	Schneider Electric
01 February 2007	<i>Poster:</i> ICT Proposers' Day, Köln, Germany	Research & Industry	Worldwide	~3000	Schneider Electric
7-9 February 2007	<i>Workshop:</i> SAP internal workshop on integrating sensor network services in enterprise systems, SAP Research, Karlsruhe, Germany.	Industry	Germany		SAP
26 February 2007	<i>Leaflet:</i> Electronics Made in Europe"	Research &	Europe	70	Schneider

	Opportunities under the ICT Theme of FP7 Information Day, Brussels, Belgium	Industry			Electric, POLIMI
26 February – 02 March 2007	<i>Publication:</i> Stamatis Karnouskos, “Autonomic sensor networks for future enterprise services”, KiVS 2007 Conference, Bern, Switzerland	Research & Industry	International		SAP
February 2007	<i>Newsletter:</i> Stamatis Karnouskos, Interview in the EU IST RUNES Newsletter on the importance of dependability, reconfiguration and the RUNES approach in networked embedded systems.	General public	Europe		SAP
20 March 2007	<i>Presentation:</i> 4th Mesh and Sensor Networks Cluster meeting, Brussels, Belgium		Europe		SAP
28 March 2007	<i>2 Presentations:</i> Consultation Meeting of the European Commission on "Sensing, Monitoring and Control"		European commission		Schneider Electric, SAP
April 2007	<i>Newsletter:</i> International newsletter on micro-nano integration		International		SAP, Schneider, ABB
21-23 May 2007	<i>Paper and presentation:</i> in the 2 nd International IEEE Workshop on SOCNE in conjunction with 21 st IEEE International Conference on AINA, Niagara Falls, Canada		International		Schneider Electric
23 May 2007	<i>Presentations:</i> “SOA Middleware for Manufacturing”, in Applications in Manufacturing and Industrial Monitoring and Surveillance, Brussels, Belgium	General public	Europe	-	TUT, Schneider Electric
June 2007	Presentation Tampere Manufacturing Summit	General public Industry	Europe	200	Schneider Electric
June 2007	Paper and presentation at the LANDAMAP 2007, Cardiff	Research, Industry, General Public	International		Schneider Electric
12 June 2007	<i>Presentations:</i> “The Socrates European project”, in WCEAM-CM 2007, Harrogate, United Kingdom	Research and Industry	International	250	Polimi
July 2007	Presentation	Industry (Process Automation), ZVEI AK KfA	Germany	23	ifak
July 2007	Paper in The International Journal of Manufacturing Technology and Management (IJMTM) INDERSCIENCE PUBLISHERS		International		Schneider Electric, Lboro
July 2007	Paper and presentation at the 3 rd IPROMS Virtual Conference	Research, Industry, General Public	International		Schneider Electric
July 2007	Paper and presentation at the 5 th IEEE INDIN Conference	Research, Industry, General Public	International		Schneider Electric
26 – 27 July 2007	<i>Paper:</i> “Maximizing the Business Value of Networked Embedded Systems through Process-Level Integration into Enterprise Software Conference” at ICPCA 07, Birmingham, UK.		International		SAP
5 – 8 August 2007	<i>Paper:</i> “A comprehensive approach to design of embedded real-time software for controlling mechanical systems” in Asia Pacific Automotive Engineering Conference Technical	Research & Industry	International		LTU

	Papers. (SAE, 2007) (SAE Technical Papers; 2007-01-3744).				
Aug 2007	Presentation/Speech EPSRC Conference AgenticitiesUK.net	Higher education Research Groups	Bath, UK	40	Lboro
20 September 2007	<i>Presentation:</i> to DFAM (Deutsche Forschungsgesellschaft für Automatisierung und Mikroelektronik – German Research Association for Automation and Microelectronic).	Industry	Germany	20	ifak
27 September 2007	<i>Presentation:</i> at WASP workshop 2007, Darmstadt, Germany	Industry	International		SAP
25 - 28 September 2007	<i>Paper:</i> "Integration of SOA-ready networked embedded devices in enterprise systems via a cross-layered Web Service infrastructure" presented at the 12th IEEE Conference on Emerging Technologies and Factory Automation, Patras, Greece (<i>Best Paper Award of the ETFA 2007 conference</i>)	Research & Industry	International		SAP
27-29 September 2007	<i>Paper:</i> "Positive Supercompilation for a Higher Order Call-By-Value Language" at IFL2007 19th International Symposium on Implementation and Application of Functional Languages, Freiburg, Germany.	Research	International		LTU
8 October 2007	<i>Paper:</i> at 3 rd International Workshop on Localized Communication and Topology Protocols for Ad hoc Networks (LOCAN 2007), Pisa, Italy	Research	International		SAP
18 – 19 October 2007	<i>Poster and demonstrator:</i> at the ITEA 2 Symposium 2007, Berlin, Germany.	Research & Industry	Europe	466 partners	Schneider Electric, SAP, (Siemens, ifak)
14 - 20 October 2007	<i>Paper:</i> at The International Conference on Sensor Technologies and Applications (SENSORCOMM 2007), Valencia, Spain	Research	International		SAP
21 – 22 October 2007	<i>Paper:</i> "A correct and useful incremental copying garbage collector" in Proceedings of the 2007 international symposium on Memory Management. (ACM, 2007. p. 129-140)	Research	International		LTU
15 – 16 November 2007	<i>Presentation:</i> at Strategies for Global Manufacturing Seminar in Zurich, Switzerland	Research			Schneider Electric, POLIMI, SAP, TUT, Siemens, KTH
27 – 29 November 2007	<i>Presentation:</i> "Service-Oriented Cross-Layer Infrastructure for Distributed Smart Embedded Systems (SOCRADES)" at the SPS/IPC/DRIVES 2007, in a special session organized by IFAC Associated Journal atp international, Nuremberg, Germany	Industry, Higher education, Research	Europe	200	LBORO, Schneider Electric
17 December 2007	<i>Presentation:</i> "Enterprise services based on SOA-ready devices" at Advanced Process Automation and Control R&D Meeting, Brussels, Belgium.		European Commission		SAP
5 – 8 January 2008	<i>Paper:</i> "Comprehensive reactive real-time programming" at Annual Hawaii International Conference on Education (2008, No. 6), Honolulu,	Research	International		LTU

	United States				
5 – 6 February 2008	<i>Presentation:</i> Control over wireless link, Automationsdagarna 2008	Research & Industry	International		LTU
Sept 2007	Presentation Paper submission 4th International Conference on Responsive Manufacturing	Higher education Industrial Sectors Research Groups	Nottingham, UK	50	Lboro
Sept. 2007	Book: Holonic and Multi-Agent Systems for Manufacturing. 3 rd International Conference on Industrial Applications of Holonic and Multi-Agent Systems HoloMAS 2007. Springer Verlag Series LNCS	Research, Industry, General Public	International		Schneider Electric

Table 1: Scientific, technical and general dissemination list

3. Patents, demonstrators and industrial dissemination

3.1. Demonstrators

A demonstrator has been developed by Schneider Electric and SAP. This demonstrator has been shown at the ITEA 2 Symposium 2007 and at the review meeting.

A video showing the functionality of the operating demonstrator has been produced and published on YouTube website in order to obtain a broader audience.

18 – 19 October 2007	<i>Poster and demonstrator:</i> at the ITEA 2 Symposium 2007, Berlin, Germany.	Research & Industry	Europe	466 partners	Schneider Electric, SAP
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3.2. Industrial dissemination

FlexLink is disseminating information via its network of sales units in 25 countries, by FlexLink News and by other publications, including professional journals. Jaguar Cars is including SOCRADES as a project of special interest in its Technology Cycle Plan (TCP), a five-year initiative beginning in 2005 to specify the requirements and identify future new control system technologies and methods.

Some dissemination activities included in the previous chapter “Scientific, technical and general dissemination” have been addressed also to industrial audience. To have more details about them please see Table 1, especially those dissemination activities for which, under column “Type of audience”, industry is mentioned.

4. Website

A website (www.socrades.eu or www.socrades.org) has been developed to support both external dissemination and interaction between the project partners.

The website is kept updated with reference to the newest publications of SOCRADES partners and to all new events in which SOCRADES has been presented and disseminated.

The website presents the following main areas:

- PROJECT: General information about the project
- EVENTS: Updates on all the events related to SOCRADES project (conferences, relevant meetings, etc.)
- DOCUMENTS: Updates on publications (presentations, paper, etc.) with link to related documents
- RELATED TOPICS: Section concerning some relevant topics related to SOCRADES project
- STANDARDIZATION: Section with the standards developed by SOCRADES

- PILOTS: Section with the presentation of the pilots developed with SOCRADES solutions
- DOWNLOADS: Section for downloading some tools and software components
- FAQ: with answer to the most important questions about SOCRADES
- PRIVATE: reserved area for internal interaction between the project partners

5. Brochure and leaflets

5.1. Brochure

A brochure for dissemination purposes is upcoming. It will be used in the next conferences, workshop, etc. The brochure is composed of a general informative folder containing some specific leafs that can be inserted or not depending on the public addressed. As an example, even if it is not the final version of the brochure, see Figure 1.



Figure 1: Example of SOCRADES brochure

The leafs will contain the description of relevant areas addressed by SOCRADES, the objectives and in the future the results accomplished.

The main areas addressed are:

- Ad-hoc networking services platform and Service-oriented Architectures
- Wireless sensor/actuator networking infrastructure
- Enterprise Integration
- System Engineering & Management

A leaf containing SOCRADES Objectives and expected results will be soon available, instead another leaf with the results accomplished by the project will be prepared by the end of the project.

This brochure has been designed in this way in order to be scalable. In the next months it will be possible to add more leafs on specific topics that may need a more detailed description.

5.2. Leaflets

A leaflet has been produce by SOCRADES partners.

It is a first flyer focusing on motivations and goals of the project. An updated version of this flyer, including more details on the developments and results of SOCRADES, will be produce in the following months.

Annex A – Dissemination Levels

PU	Public
PP	Restricted to other programme participants (including the Commission Services)
RE	Restricted to a group specified by the consortium (including the Commission Services)
CO	Confidential, only for members of the consortium (including the Commission Services)

Table 2: Dissemination levels for a document