



Security and Safety Modelling

Artemis JU Grant Agreement no.: 295354

D6.1 – Project website, newsletters and press releases Version 01

31 July 2012

Final

Dissemination level: PU

Contributing partners
CTU with contributions from all partners

Project Partners:

Intecs, Institute of Informatics and Telematics - CNR, AKHELA, Università degli Studi di Roma La Sapienza, Technical University of Denmark, FTW Forschungszentrum Telekommunikation Wien, Adelard, UniControls, Czech Technical University in Prague, PSA Peugeot Citroën, SYSGO, ikv++ Technologies, eesy-id, Infineon Technologies AG Deutschland, EADS DEUTSCHLAND, Électricité de France, SYSGO s.r.o., Siemens AG Österreich, City University London - Centre for Software Reliability, General Motors Research & Development

Every effort has been made to ensure that all statements and information contained herein are accurate, however the Partners accept no liability for any error or omission in the same.

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1 INTRODUCTION

The present document represents a placeholder for the real deliverable that is the <http://www.sesamo-project.eu/> website.

This SESAMO website provides publicly available project information including introduction to the project and its objectives, the partners involved, the expected results and the impact the results will have on the targeted industries.

Publicly available deliverables will be made available for download on the website, together with periodic newsletters and press releases.

This is the first delivery, which was due at M6; updates are foreseen for each project review at M12, M24, M36.

1.1 WEBSITE STRUCTURE

The website is organised into 7 sections:

- **About**, also identified as the home page, presents the project, the main objectives and the key elements of the project approach
- **Project partners**: with a web page per project participant, providing Profile and Expertise, Main Tasks performed or to be performed in the project and Relevant Experience with respect to the project objectives
- **News**: where project news are collected and displayed
- **Events**: where all events related to the project are collected and displayed: conferences/workshops/symposiums references where SESAMO has been presented
- **Documents**: where all public project deliverables are stored for downloading
- **Use cases**: where it is possible to read about the use cases that will be developed in the project the application domains: Energy management. Automotive, Avionics, Metropolitan underground railway transport and Mobile Ambient Assisted Living Systems
- **Contact**: where it is possible to send requests of information to the project coordinator.

1.2 SCREENSHOTS

Some website screenshots are shown here.



Figure 1-1: SESAMO website: home page.



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About

Project partners

- Adelard LLP (UK)
- Akhela (I)
- City University London - Centre for Software Reliability (UK)
- Czech Technical University in Prague (CZ)
- DICEA – "Sapienza" Università di Roma (I)
- EADS Deutschland GmbH (D)
- ees-Id GmbH (D)
- Electricité de France (F)**
- Forschungszentrum Telekommunikation Wien GmbH (AT)
- General Motors Research (USA)
- iw+ technologies ag (D)
- Infineon Technologies AG Deutschland (D)
- CNR, Institute of Informatics and Telematics (I)
- Intecs S.p.A.
- Peugeot Citroën (F)
- Siemens AG Österreich (AT)
- SYSGO AG (D)
- SYSGO s.r.o. (CZ)
- Technical University of Denmark (DK)
- UniControls (CZ)

News

Events

Documents

Use cases

Contact

Electricité de France (F)

Profile and Expertise

EDF is one of the world's leading power utility companies, with solid positions in major European countries. It had a worldwide workforce of 158,842 people and a revenue of 68.2 billions euros in 2010. Its research and development division employs around 2,000 people with a budget of 486 M€, working on three key global energy issues: minimizing CO2 emissions through the development of alternatives to fossil fuels, bringing new technologies to our customers, and working on the security of electricity grids. Information Technologies play a key role for all these issues.

The group "computing, communication and security infrastructure" (CCOS) of EDF R&D is a transversal group that addresses many needs of EDF R&D. It is its mission to propose telecom and mobility solutions, system architectures and their security and high-performance computing targeting the application domains of EDF. Some of the key objectives of the group are:

- To study wireless communications systems (RFID, Zigbee, WIFI, WIMAX, LTE, etc.) and to validate their use for EDF, taking into account certain constraints (electromagnetic compatibility in industrial environments, cybersecurity, etc).
- To propose innovative system architectures and mobility solutions, and to prototype these solutions,
- To conceive secure communication infrastructures and to evaluate the level of confidence of these and existing infrastructures.
- To represent EDF in international committees (IAEA, IEC SC45A and TC57WG15, CIGRE, etc) for the standardisation of critical infrastructures.

Main tasks

EDF will be active in most of the work packages. EDF will contribute several use cases to the project based on its experience in electrical power plants and networks. Several use cases will be specified, with a thorough elicitation of safety and security-related requirements.

Many infrastructure projects within EDF have lifetimes from 10 to 40 years: it must be possible to define mechanisms that allow upgrading security/safety to take into account an evolving threat environment all along these lifetimes. As a matter of a consequence, an important issue for EDF is the longevity of the security and safety solutions that are developed. Closely related to the lifetime issue, the integration of adapted security and safety mechanisms in legacy and close environments is also a strong need in the power industry environment, which will be reflected in SESAMO use-cases.

The security of a system in terms of its communications can not be separated from the safety of the system that is implemented over it. This is of particular importance in an industrial environment where there is a possible risk to human life associated with faults in the system. EDF will propose a methodology to treat the compromise between the functional and cyber-security of the system. Also, another important issue for EDF is the longevity of the security solutions that are developed. Many infrastructure projects within EDF have lifetimes from 10 to 40 years, and it must be possible to define mechanisms that allow upgrading security/safety to take into account an evolving threat environment.

EDF is an active member of a number of international standards bodies and working groups such as IEC TC57, IEC SC45A, CIGRE, IAEA, etc. EDF will contribute to ensure that the relevant work on SESAMO will be disseminate and used in the relevant bodies.

Relevant Experience

EDF has significant previous experience in the cyber security of industrial systems, and is an active participant in a number of international standards bodies and working groups such as IEC TC57 WG15 (cybersecurity for the power grid), IEC SC45A (safety instrumentation and control for nuclear power plants), CIGRE D2.22 and D.31 (security for power utilities), IAEA, etc. This security experience will be applied to the SESAMO project and its scenarios. EDF also has previous experience in the prototyping and development of security mechanisms for industrial information systems. It has a previously developed security prototyping platform including a number of industrial automation and monitoring systems that can be used in the prototyping tasks of the SESAMO project. There is currently common work at EDF R&D between different department (industrial risks, safety systems, information security) on the interrelationship between safety and security. This has also been a focus of a thesis at Telecom ParisTech and EDF.

  SESAMO is made possible by public funding from the **ARTEMIS Joint Undertaking** (Grant Agreement No. **238334**) and from ARTEMIS member states Austria, Czech Republic, Denmark, France, Germany, Italy, U.K. and USA.

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Figure 1-2: SESAMO website: a project participant page.



Figure 1-3: SESAMO website: the Event page.