Network of Excellence

Deliverable D12.4

Annual Upgrades of Dissemination and Communication Deliverable
Abstract

This deliverables reports on the dissemination activities that have been carried out by the members of the NESSoS NoE during the second year report.

Keyword list

Dissemination activities, publications, events, newsletter, brochure, raising public awareness
## Document History

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# List of Abbreviations

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<th>Abbreviation</th>
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<tr>
<td>CBK</td>
<td>Common Body of Knowledge</td>
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<td>NoE</td>
<td>Network of Excellence</td>
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<td>NESSoS</td>
<td>Network of Excellence on Engineering Secure Future Internet Software Services and Systems</td>
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<td>SDE</td>
<td>Service Development Environment</td>
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Executive Summary

This deliverable presents the dissemination activities carried out by the NESSoS partners during the second reporting year. This deliverable is an update of the first report presented at the end of the first year and therefore, it follows the same structure. It includes a detailed list of the 91 publications of the NESSoS consortium during the second year report, a summary of the events where NESSoS has been involved and an analysis of the usage of the web page during the second year of the project. The specific dissemination material produced for this second year is also presented in this document.
1 Introduction

Dissemination is one of the main building blocks of NESSoS. In this deliverable we concentrate on the dissemination activities and left aside industry liaison and education and training, as there are specific work packages and deliverables that address these specific topics. Thus, in this deliverable we concentrate on publications, events, production of material and the NESSoS web page.

Concerning publications we have analysed the number of publications achieved during the second year. We also give details of the distribution of publications among conferences proceedings, journal and technical reports.

The dissemination of NESSoS also consisted in spreading the word about the project in related events or by organizing proper NESSoS events in relevant audiences. These activities have also been described.

The NESSoS web page is the main source of dissemination. Last year we presented the distribution of its contents. Therefore, for this year’s report we concentrate on the available statistics of the web page for this period.

Another way of dissemination is the production of material for disseminating the results of the project. Thus, for the first year we designed a poster and a brochure. For this year, we created a specific brochure for the SDE and started distributing the NESSoS newsletter.

The structure of the deliverable is as follows. Section 2 describes the dissemination activities, which include publications and events. Section 3 shows the statistics for the NESSoS web portal for the second year. Section 4 presents the dissemination material that has been created for the second year of the project and Section 5 highlights concerning the raising of awareness to the general public. Section 6 concludes the deliverable.
2 Dissemination Activities

2.1 Publications

NESSoS partners are very active regarding research publications, as they were last year. The complete list of publications can be found in the following link of NESSoS: http://www.nessos-project.eu/index.php?option=com_jresearch&view=publicationslist&task=list&modelkey=default. This list includes all the publications for the whole duration of the project, however the list of publications for the second year can be found in Appendix A. The number of publications for the second year is 91. The distribution of them can be seen in Table 1.

<table>
<thead>
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<td>Technical reports</td>
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*Table 1 Distribution of Publications*

The number of joint publications is 11, which means 12% of the total number of the NESSoS publications. The list of joint publications for the second year can also be seen in Appendix A. 37 out of the 91 publications acknowledge only NESSoS; 29 of them acknowledge another project besides NESSoS and 18 publications acknowledge three projects. The rest of publications acknowledge more than three projects (up to five projects are acknowledged). Additionally, the publications for the second reporting year include 5 PhD theses and 1 MSc thesis.

2.2 Presentations of NESSoS

NESSoS partners have presented the results and activities of the NESSoS project in different venues of interest. We described below in a chronological order, starting by the most recent ones these presentations.

- Presentation of NESSoS privacy-related topics at the SMART (Scalable Measures for Automated Recognition Technologies) Workshop held in Florence (Italy) in September 2012. The SMART project organized a workshop on Survelling Surveillance, where they invited NESSoS to give a talk for providing an overview about the privacy related topics dealt within NESSoS.
- Presentation of the NESSoS roadmap at the ERCIM Working Group meeting of STM (Security and Trust Management). The workshop of STM was held in Pisa (Italy) in September 2012. Together with this workshop, the STM Working Group holds its annual meetings where interested members or attendees of the workshop present their advances on research or interesting activities. From the NESSoS consortium we
identified this as a good opportunity to make the NESSoS roadmapping activities known to this community.

- Presentation of the NESSoS poster at TrustBus’12 (Trust, Privacy and Security in Digital Business, Vienna (Austria), September 2012). TrustBus’12 organized this year a session for EU related projects where their main objectives and topics of research were presented in a short session. Then, the posters of the projects were exhibited at the main common area of the conference. NESSoS was invited to participate in this session and during the days of the conference the NESSoS poster was exhibited there.

- Presentation of the CBK at ARES (Availability, Reliability and Security) conference. As part of the 1st International Workshop on Security Ontologies and Taxonomies and the International Cross Domain Conference and Workshop of the ARES conference held in Prague (Czech Republic) in August 2012.

- The NESSoS CBK was also presented at a workshop organized by VDE EWNS (Testing and Certification Institute in Germany) in Essen (Germany) in June 2012.

- Presentation of the NESSoS roadmap at FIA (Future Internet Assembly) roadmapping session. FIA organized a roadmapping session in Brussels in June 2012 where they presented the main contributions they received and therefore the main contents of their roadmap. As part of the session, NESSoS was invited to present the NESSoS roadmap.

### 2.3 Organization of Events

The participation of NESSoS partners in different events contribute to the effort of creating this long lasting research community. Also, a complete description of the relationships of the events organized together with other communities is described in [D4.2_I].

The following list is an exemplification of the events organized and planned during the second year of activities of the project. These events contribute to the goal of integration. The list is organized in a chronological order starting from the most recent ones:

- Model-Driven Security Workshop (MDsec), Innsbruck (Austria). This workshop took place as a satellite event of the MoDELS 2012 conference on October the 1st, 2012. Even though this event has been technically held in the third year of NESSoS, the efforts for the organization have been performed during the second year of the project. Three out of five of the organizer are NESSoS members (Nora Koch from LMU, Marina Egea from ATOS and Benoit Baudry from INRIA). The MDsec 2012 workshop aims at providing a discussion forum where researchers and practitioners of the model-driven and security areas can meet, disseminate and exchange ideas and problems, identify some of the key issues related to these topics, and explore together possible solutions and future works.

- Javier Lopez (UMA) took part in the organization of CRITIS 2012 as a PC co-chair. The 7th International Workshop on Critical Information Infrastructures Security was held on 17-18 September 2012 in Lillehammer (Norway).

- ESORICS 2012 was organized by Fabio Martinelli (CNR) in Pisa in September 2012. The European Symposium on Research in Computer Science is one of the most
important events in the security area. Besides the main conference, some workshops were organized where some members of the NESSoS consortium are also very active.

- Workshop on Quantitative Aspects of Security Assurance, QASA, organized by CNR. This event was collocated as a workshop of ESORICS 2012 and it was the NESSoS workshop where NESSoS research results were presented. CNR was the organizer. During this workshop a specific NESSoS panel on quantitative aspects of security was organized.
- DPM 2012. The Data Privacy Management workshop was held as a satellite event of ESORICS. Javier Lopez (UMA) was the general chair of this workshop.

• FOSAD 2012 summer school is organized by NESSoS in cooperation with the NoE on the Application of Formal Methods to Cryptography (CryptoForma). It was held as usual in Bertinoro (Italy) during the first week of August 2012.
• Workshop on Web Service Security Contracts. NESSoS co-organized this workshop at the Cyber Security and Privacy Forum held in Berlin in April 2012. The workshop was organized together with the other EU-funded projects ASSERT4SOA, Effectplus, FIWare and ANIKETOS. The workshop speakers and moderators were members of these projects (including a presentation from NESSoS given by Aljosa Pasic).
• Analyzing Risk in Practice: the CORAS approach to model-driven risk analysis. SINTEF organized a tutorial at the Cyber Security and Privacy Forum.

• A flagship event for NESSoS is ESSoS, International Symposium on Engineering Secure Software and Systems. ESSoS is a main event in secure service and software engineering that is supported by the NESSoS community. ESSoS started back in 2009 organized by Wouter Joosen (KUL), in 2010 it was organized by Fabio Martinelli (CNR), in 2011 by Manuel Clavel (IMDEA) in February 2011 and in 2012 it was organized by Sandro Etalle, a NESSoS associated partner. The event is crucial for shaping the research area and allowing NESSoS partners to create and consolidate a worldwide community interested in the same topics thus going beyond the EU boundaries. As usual, a NESSoS plenary meeting was colocated with the ESSoS conference. This eases participation of NESSoS researchers to the ESSoS conference (and contributes to sustain it through participation).
• An ESSoS Doctoral Symposium was held together with the conference in 2012. The event was organized by Jorge Cuellar (SIEMENS) and Nora Koch (LMU). The purpose of this event was to bring together PhD students working on NESSoS related areas to present their work. There were presentations from NESSoS PhD students (UNITN, ETH, CNR, IMDEA, UMA, SIEMENS, UDE) and also from non NESSoS partners.
• The first NESSoS Industry Seminar (organized by Jorge Cuellar (SIEMENS), Fabio Martinelli (CNR), Aljosa Pasic (ATOS)) was held as a scientific workshop at the Servicewave2011 conference (Poznan, October 2011), a main event of the service
engineering community. Around 30 participants attended the event. It was a good opportunity to discuss with members of the industrial and academic community the current trends and best practices as well as to try to reduce the gap between industry and research. Gary Mc Graw gave an invited talk at the event. He manages the BSIM (Berkeley Short-channel IGFET Model) community interested in secure software engineering.

- Session at the Future Internet Assembly (FIA) in Poznan (October 2011) on “Trustworthy Services and Systems”. It was organized by several projects, including NESSoS. In particular, Aljosa Pasic (ATOS) and Fabio Martinelli (CNR) were among the organizers. Around fifty people attended the session. The presence of NESSoS at the FIA event of NESSoS contributed to make evident the relevance of the research issues tackled by the NESSoS community. Additionally, we had the opportunity to discuss these issues with other communities.

### 2.4 Invited Talks

NESSoS members are key researchers in their corresponding areas of expertise they therefore are invited to give talks in relevant events. In the following we list those invited talks in a chronological order, starting from the most recent ones:

- Boris Köpf (IMDEA) was invited to give a talk at the Workshop on Quantitative Aspects in Security Assurance (QASA) on “Quantitative Information Flow” held in Pisa (Italy) in September 2012.
- Gilles Barthe (IMDEA) was invited to give a talk at ESORICS on “Computer-Aided Cryptographic Proofs and Designs”, held in Pisa (Italy) in September 2012.
- Ketil Stølen (SINTEF) was invited to give a talk on “Risk Analysis and Testing-Experiences from Industrial Cases within Information Security” organized by the Norwegian Computer Society in Trondheim (Norway) in May 2012.
- Boris Köpf (IMDEA) was invited to give a talk at the Tenth Workshop on Quantitative Aspects of Programming Languages (QAPL 2012) held in Tallinn (Estonia) in April 2012 The title of the talk was “Quantifying Side-Channels in RSA and AES”.
- Fabio Martinelli was invited speaker at the NODES 2012 Winter School (February 2012) held in Turku (Finland). The title of his talk was "Application Security for Mobile Devices".
- Manuel Clavel (IMDEA) gave an invited talk at LMU (Munich, Germany) in January 2012. The title of the talk was “Model-based development of security-aware data-centric web applications”.
- Ketil Stølen (SINTEF) was invited to give a talk at the Institute für Informatik, Humboldt Universität zu Berlin (Germany) on “Model-driven Risk Analysis”- The CORAS Approach (January 2012).
Carmen Fernandez (UMA) was an invited speaker at NEC Laboratories Europe (Heidelberg, Germany) on the 15th-16th of November 2011. One of them was a technical talk, which the title was “Trust Management for Wireless Sensor Networks”. The other talk was not that technical and she presented there the work being carried out in NESSoS.
3 The Web Portal

The initial contents and structure of the NESSoS web portal were described in [D12.2]. Since the structure has been shown to be functional and meet the partners’ and the project’s needs it has not been changed. We here summarize its main features:

- The main page of the web portal contains (see Figure 1) the main events of NESSoS that we consider are of interest to the guests visiting our web page.
- The main menu on the left-hand side provides links to the consortium, the project description, publications, deliverables, etc. as well as three links to the three main blocks that we consider in the NoE: integration, research and spreading of excellence.
- The poster and brochure can be downloaded from the main page of the web site.
- We offer the possibility of joining the community list also from the main page of our web site.

![Figure 1 Main Page of the NESSoS Web Site](image-url)
3.1 Statistics

As we did last year we made use of the Google Analytics tool in order to analyse the use of the NESSoS web page. By using this tool we are able to obtain information about the number of visits, profile of the visitors or the country of origin of them, for instance. We have performed the analysis taking into account data from the 1st of October 2011 to 30th of September 2012.

The total number of visits for this period has been 6012 and the distribution of these visits in a monthly period can be seen in Figure 2. A graphical distribution of the visits per week can be seen in Appendix B (we have included in this section the most significant figures) while the more specific ones have been included in the appendix for a matter of space).

Figure 2 Monthly Visits to the NESSoS Web Site

There were a good number of new visitors to this web site as it can be seen in Figure 3.

Figure 3 Behaviour of Visitors
This figure also gives us information about the number of pages visited (25,178), the average of pages visited each time a visitor used the NESSoS web site (4.19) or the percentages of new visits versus returning visits (54.46% vs. 45.54%).

It is also important to consider the sources of the visits. Thus, we can see in Figure 4 that most of the visits to the NESSoS web page came from direct search on different search engines, whereas the second source of visits are from referrals sites.

![6,012 people visited this site](chart)

Figure 4 Sources of Traffic

The top ten of the total traffic of visitors’ sources can be seen in Figure 5. In this figure we can see that the main referral sources for visiting the NESSoS web page are the web pages of the NESSoS partners. Also, in the top ten referrals there the FIA week appears. This is an event where NESSoS organized a session and the first industry seminar.
<table>
<thead>
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<th>Visits</th>
<th>Pages / Visit</th>
<th>% New Visits</th>
<th>Bounce Rate</th>
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<tr>
<td>1. google / organic</td>
<td>3,668</td>
<td>4.18</td>
<td>45.42%</td>
<td>61.12%</td>
</tr>
<tr>
<td>2. (direct) / (none)</td>
<td>1,127</td>
<td>4.01</td>
<td>62.34%</td>
<td>51.11%</td>
</tr>
<tr>
<td>3. sde.psf.ihtim.de / referral</td>
<td>156</td>
<td>6.12</td>
<td>5.13%</td>
<td>31.41%</td>
</tr>
<tr>
<td>4. distinet.cs.kuleuven.be / referral</td>
<td>69</td>
<td>4.43</td>
<td>73.81%</td>
<td>43.40%</td>
</tr>
<tr>
<td>5. stuniurb.it / referral</td>
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<td>2.60</td>
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<td>63.24%</td>
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<tr>
<td>6. psf.lruu.de / referral</td>
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<td>2.63</td>
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<td>7. infsec.ethz.ch / referral</td>
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<td>8. nesss-cbk.org / referral</td>
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<td>31.03%</td>
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<td>2.61</td>
<td>24.63%</td>
<td>83.02%</td>
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<td>10. ist.cnr.it / referral</td>
<td>43</td>
<td>3.12</td>
<td>76.74%</td>
<td>62.79%</td>
</tr>
</tbody>
</table>

Figure 5 Total Traffic

It is worth to analyse how much the work on NESSoS has spread around the world.

The visits to the NESSoS web page came from 103 countries in contrast to 59 countries of origin last year. If we analyse the map and compare it to the map of the last period report we can observe that the visits have increased considerably from Latin American countries covering...
the whole continent. Visits from African countries expanded as well whereas the report last year showed only visits from two of them.

A more detailed distribution of partners per country can be seen in Appendix B.
4 Dissemination Material

4.1 Community List

As we already pointed out in [D12.2] the NESSoS community mailing list was created for the purpose of dissemination of the NESSoS activities to a wider community. During the last year the list has grown considerably also because we personally invited several key researchers that we thought might be interested in the NESSoS results to join us. Our objective was to reach 250 subscribers by the end of the project, however we reached it by this second year and currently the number of subscribers to the list is 269. Even though our objective has been reached we keep inviting interested research in the area of NESSoS and we expect this list to keep growing.

The list is mainly used for distributing information related to the NESSoS activities, in particular, events and the distribution of the NESSoS newsletter (see Section 4.3).

4.2 SDE Brochure

In [D12.2] we described the NESSoS brochure where basic information about the project can be checked at a glance.

For this year, we elaborated a brochure for dissemination focusing on the SDE (see Appendix C). Besides giving some general description about the project the brochure contained a specific description of the SDE and gave some examples of tools integrated in the SDE.

The purpose of this brochure was to make people aware about the existence of the NESSoS SDE for the integration of tools persuading them to include their own tools there.

4.3 Newsletter

During the second year of the project we have elaborated and distributed two issues of the newsletter. The aim of these newsletters is to keep the community of NESSoS informed about advances, activities and past and coming events.

Besides these sections we devoted each issue to explain a specific workpackage and describe a specific partner. Our intention in doing this is to make the audience of the newsletter more acquaint about NESSoS and its partners. The two issues of the NESSoS newsletter released during year two can be in Appendix C.
5 Managing Public Awareness

One of the NESSoS main goals is to increase non-experts awareness on Secure Service Engineering. Thus, some partners have contributed to this goal by publishing articles about NESSoS in some local newspapers and news agencies.

5.1 Communications in Local Press

*Feature article in Norwegian trade magazine*

A feature article mentioning NESSoS was published in the 23 March 2012 issue of Computerworld Norge (a Norwegian trade magazine focusing on IT and technology). The article is written by Mass Soldal Lund (SINTEF) and titled "It-sikkerheit krev risikoanalyse" ("IT security requires risk analysis").

Online version: [http://www.idg.no/computerworld/article241761.ece](http://www.idg.no/computerworld/article241761.ece)

*Articles in Spanish media*

UMA members were interviewed for an article at the University of Malaga magazine Uciencia. In this article UMA members explained the main objectives of NESSoS are and how the raise of the Future Internet paradigm could affect in their lives, concerning mainly the influence on IT security.

Online version: [http://www.uciencia.uma.es/index.php/Noticias/Tecnologia/Preparados-para-la-Internet-de-los-objetos](http://www.uciencia.uma.es/index.php/Noticias/Tecnologia/Preparados-para-la-Internet-de-los-objetos)

This article was also published at SINC, the first information public agency for science, technology and innovation in Spanish. This agency publishes news, articles and interviews and the audience they target is mainly the scientific community. For the February issue they included an article about NESSoS. The article focused on how security will have to be included in the Future Internet.

Online version: [http://www.agenciasinc.es/Noticias/Preparan-la-seguridad-de-la-futura-Internet-de-los-objetos](http://www.agenciasinc.es/Noticias/Preparan-la-seguridad-de-la-futura-Internet-de-los-objetos)

*Interview in Italian media*

Fabio Martinelli (CNR) was interview by a local Italian TV during the ESORICS conference held in Pisa on Sept. 10-14 2012. The conference has been also sponsored by NESSoS and a brief description of NESSoS and its main goals and achievement was given.
5.2 Other Activities

The University of Malaga organizes every year an event called “Coffee with Science” where secondary school students visit the university premises. The purpose of the event is put them in contact with researchers. They explain the students what their work is about and students ask them questions. The event was held in November 2011 and Carmen Fernandez from UMA was one of the selected researchers. She explained students NESSoS purposes and goals. The emphasis of the talk was made on how the Future Internet paradigm and its security will influence or change the way they are conceiving and using Internet and its services nowadays.
6 Conclusion

This deliverable describes the dissemination activities carried out by the NESSoS consortium during the second year of the project.

We have achieved 91 publications for the second year, which means an increase from the figures we showed last year in 20 publications. In absolute terms, considering also the 70 publications of the first year, we are already very close to our success criteria of 210 publications at the end of the project.

NESSoS partners organized and sponsored several events, in particular, the ESSoS 2012 conference and the ESORICS 2012 one.

We have also summarized the events where NESSoS has been presented including the list of invited talks given by some members of NESSoS concerning the NESSoS results.

A main tool for dissemination of the project is the NESSoS web site. We have shown here the analysis performed on the data available. We highlight that only for the second year we obtained 6012 visits and we were visited from 103 different countries, which is almost double the countries we were visited from last year. Also important for dissemination is the creation of specific material that can be distributed in adequate forums. Thus, for year 2 we designed a brochure specifically for the SDE tool that aim at attracting potential users to include their tools in the service development platform. The two newsletters distributed during the second year have also been described in this deliverable.

Finally, we have shown the activities carried out by the consortium in order to reach the general public.
References

[D4.2_1] Report on Cutting Edge-Activities, Alignment and Integration with Relevant European and International Activities and Release of the Research Roadmap
Appendix A: Publications


Joint Publications


**PhD and MsC Theses**

**PhD Theses**


**MsC Thesis**
Appendix B: The Web Portal

Figure 7 Visits per week

Country / Territory

1. Italy 1,358 22.59%
2. Spain 1,182 19.88%
3. Germany 746 12.41%
4. France 363 6.04%
5. Belgium 265 4.41%
6. Switzerland 251 4.17%
7. United States 244 4.00%
8. United Kingdom 189 3.14%
9. Netherlands 169 2.81%
10. Norway 147 2.45%

Figure 8 Visits per country
Appendix C: Dissemination Material

SDE Brochure

Service Development Environment
NESSoS tool workbench

Service Development Environment
www.nessos-project.eu

Examples of SDE tools

- Catalyst is an engine based on compiler
  program to detect and fix security
- COMAS is a model-driven approach to
  software development
- Sable is a tool for the development of
  Java applications

Do you think your tool should
also be available within the SDE?

CONTACT US:
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NESSoS - 256980

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NEWSLETTER, JANUARY 2012

Summary of past and future NESSoS events

The NESSoS engineering of secure software services is based on the principle of addressing security concerns from the very beginning in the system analysis and design, contributing thus to reduce the amount of system and service vulnerabilities and enabling the systematic treatment of security needs through the engineering process. In light of the unique security requirements the Future Internet will expose, new results will be achieved by means of an integrated research, as to improve the necessary assurance level and to address risk and cost during the software development cycle in order to prioritize and manage investments.

NESSoS will integrate the research labs involved; NESSoS will re-address, integrate, harmonize and foster the research activities in the necessary areas, and will increase and spread the research excellence. NESSoS will also impact training and education activities in Europe to grow a new generation of skilled researchers and practitioners in the area. NESSoS will collaborate with industrial stakeholders to improve the industry best practices and support a rapid growth of software-based service systems in the Future Internet.

LAST MEETING REPORT

Last meeting took place in Trento and was hosted by the University of Trento, from 29th to 31st of August 2011.

We discussed about the state of the deliverables due at the end of Y1, that is, September.

As a key part of the meeting we discussed the roadmap activities. NESSoS delivered a roadmap in the area of Secure Service Engineering that will sustain the basis for future European research in the area for the forthcoming years.

NESSoS aims at constituting and integrating a long lasting research community on engineering secure software-based services and systems.
NESSoS partners have a strong interest in spreading the knowledge and research results to the scientific community at large and to the multitude of interested stakeholders in both the academia and the industry. In addition, we also address communication to a wider audience about the foreseen impact and progress for Europe.

The main activities for spreading excellence are dissemination & communication, education & training, and exploitation & standardization.

**DISSEMINATION & COMMUNICATION**

**NESSoS first Industry seminar, Poznan (Poland)**

The first NESSoS industry seminar was held in Poznan (Poland) on the 28th of October 2011. This event was co-located together with the Future Internet week. The member of the NESSoS advisory board, Gary McGraw gave the talk “From Secure Software Engineering to Secure Service Engineering”.

**NESSoS Co-organized event at FIA session 2011**

NESSoS organized a session during the FI week in Poznan titled “Building a Trust Framework for Future Internet Services”. The session was held on the 25th of October 2011 and some members of the NESSoS consortium participated at the panel. The event was attended by around 50 people.

**EFFECTSPLUS (March 2011)**

UMA presented NESSoS in the EffectS+ Cluster meeting at Brussels, 29th of March 2011. NESSoS attended this meeting as part of the Roadmap developing strategy.

EffectSplus is a FP7 funded Coordination & Support Action, across a large spectrum of R&D activity in the ICT Framework Programme that relates to the twin requirements of trust and security, and their constituent concepts and components.

**NESSOS FLAGSHIP EVENT**


The International Symposium on Engineering Secure Software and Systems (ESSoS) is a key event in the area of secure software engineering. Its main goal is to bridge the research done by the software engineering and security engineering community. NESSoS supports the event and are involved in the organization. Thus, NESSoS consortium celebrated a plenary meeting together with ESSoS’11 (Madrid) and so it will happen with this year event in Eindhoven.

ESSoS’12 will also hold a Doctoral Symposium event where PhD students will have the chance to present and share their work.

**EDUCATION AND TRAINING**

**E-RISE 2011 (May 2011)**

E-RISE 2011 is the first NESSoS Open Challenge organized by the University of Trento, which the objective of providing the method designer with:

- Empirical evaluation and Benchmarking of security engineering methods;
- Knowledge of how and why participants intend to adopt a method;
- Feedback to improve a security method by investigating strengths, weakness and limitations of the method.

E-RISE aims to provide the participants with the benefit of knowledge about various state-of-the art methods in the research field, and an opportunity to participate and work on an international collaborative project remotely.
NESSoS partners have a strong interest in spreading the knowledge and research results to the scientific community at large and to the multitude of interested stakeholders in both the academia and the industry.

Each issue of this newsletter will introduce one of our partners, presenting its involvement into the NESSoS project.

**Atos**

Atos is an international information technology services company with annual revenues of EUR 8.7 billion and 78,500 employees in 42 countries. Serving a global client base, it delivers hi-tech transactional services, consulting, systems integration and managed services. Atos is focused on business technology that powers progress and helps organizations to create their firm of the future. It is the Worldwide Information Technology Partner for the Olympic Games and is quoted on the Paris Eurolist Market. Atos operates under the brands Atos, Atos Consulting, Atos Worldline and Atos WorldGrid.

Atos S.A.E. is the Spanish branch of this leader European IT services Company. Atos is a founding member of the European Technology Platform NESSI (Networked European Software and Services Initiative). At national level, Atos is also participating in other technology platforms like eMOV for mobility, eSEC for security, PROMETEO for embedded systems and INÉS for software and services.

Atos Research & Innovation, node of R&D of Atos in Spain, is a point of world reference in innovation for the whole Atos group. It is focused in the project accomplishment, which combine the most advanced Technological developments and the economic exploitation of results in R&D. Our aim is to lead our knowledge and experience acquired to concrete projects with clients. Atos Research & Innovation department concentrates on the realisation of international projects within the Consulting & Public Sector Division since 1989, combining the most up-to-date technological developments with a high awareness of the human factors (education sciences, disability-related issues, cultural diversity and multi-linguality).

**WP I : “JOINT VIRTUAL RESEARCH LAB INFRASTRUCTURE”**

Each issue of this newsletter will present our work in one of the work packages of the NESSoS project.

The main objective of this work package is to provide the infrastructure for the operation of the Joint Virtual Research Lab. This constitutes the main infrastructure for collaborative working and as backbone of the NoE activities.

**Establishment of a common technical infrastructure for collaborative working inside the NoE.**

- Creation of the infrastructures for the activities for the NoE as Web Portals (for internal and external interaction), administration tools, communication tools (as tele-conference facilities), sharing of technical expertise, as well as databases, digital libraries, etc...
- Creation of a test-bed for the integration, experimentation and implementation of Future Internet services.
- Establishment of the technical infrastructure and human competencies for the NESSoS Virtual Education Centre, including audio/video machinery for creation of multimedia, information and audio/visual support for lectures and demonstrations.
- Creation of a Web Portal for the sharing of the integrated knowledge acquired and produced by the NoE.
Meetings

MADRID, FEBRUARY 2011

On May we had a meeting that took place in Madrid from 7th to 9th of February 2011. This meeting was co-located with our flagship conference, ESSoS’11. Our Project Officer was invited to give a keynote talk for ESSoS and he joint our meeting project. We presented him some initial work that was being carried out in order to develop a roadmap for secure software engineering. His comments and the ones from the partners were very fruitful for the development of the document as it is now.

OSLO, JUNE 2011

A plenary meeting of NESSoS took place in the SINTEF premises in Oslo (Norway) from June the 20th to the 21st. Partners discussed the work carried out so far for the different WPs and agreed on the contents that the deliverables due on Month 22 should have. The NEE of NESSoS also held a meeting during these days.

This meeting set the structure and details of the first review of the project as well as the location for the GA meetings to be held in 2012. The first version of the roadmap for the area of secure software engineering was presented during this meeting.

TRENTO, AUGUST 2011

The NESSoS consortium held a plenary meeting during in order to deal with any issues towards the first review meeting. The NESSoS roadmap was discussed and a final version was finally sent to EC in September 2011.

FIRST NESSoS REVIEW MEETING, DECEMBER 2011

The first NESSoS review meeting took place in the premises of KUL on the end of December 2011. Our Project Officer and the reviewers considered that our project successfully achieved the
NESSoS is in its second year. We are working towards the integration of the different research labs involved. This is reflected in the amount of joint publications that are currently available as part of NESSoS. From the research point of view we have published more than 100 papers in the area during the first eighteen months.

We also work on the integration with other communities. NESSoS have been involved in the organization of some relevant events in the area. Our community has more than 250 members so far and we expect to increase this number.

Spreading of Excellence

The main activities for spreading excellence are dissemination & communication, education & training, and exploitation & standardization.

DISSEMINATION & COMMUNICATION.

NESSoS Co-organized a workshop on Web Service Security Contracts at CSP Forum, Berlin (April 2012)

The clustering Workshop on Web Service Security Contracts aimed to share ideas and experiences between relevant EU projects, standardization bodies, and other interested parties on Assurance Level Agreement (ALA) for SOA, and align outreach activities in order to achieve a higher impact on the technological standardization and development in Europe and abroad. This workshop aimed at supporting assurance by design and assurance by contract, by paving the way toward a shared notion of ALA, including models and languages for expressing, certifying, and negotiating the assurance level of services implemented on a SOA infrastructure. It is expected that such a notion will eventually lead to a standardization effort.

Research Projects involved

ASSERT4SOA, Effectsplus, FIWare, NESSoS, Aniketos

NESSoS aims at constituting and integrating a long lasting research commu-
NESSoS organized a workshop on Access and Usage Control

The workshop took place during the NESSoS plenary meeting at the premises of ETH (Zurich) in June 2012. There were two invited talks. One of them was given by Günter Karjoth from IBM Zurich Research Labs and the other one by one of NESSoS associate partners, Alex Pretschner from Karlsruhe Institute of Technology. The other talks were given by NESSoS partners on the progress of the research workpackages.

EDUCATION AND TRAINING

E-RISE 2012 (May 2012)

The Training and Application week of eRISE 2012 challenge took place at University of Trento from May 7th to 11th. Forty two participants were involved: twenty seven participants were professionals with a minimum of five years of working experience in the field of Auditing in Information Systems attending an MBA at Dauphine University in Paris. Fifteen participants were MSc Students in Computer Science from Trento with a background in Security Engineering and Information Systems.

Five research groups have been invited to join the challenge and to give a tutorial to the participants about their methods on security requirements elicitation and risk analysis. The methods were CORAS from SINTEF, LINDUNN from Katholieke Universiteit Leuven, SECURE TROPOS from University of East London, SREP from University of Castilla-la Mancha, and SECURITY ARGUMENTATION from Open University.

Moreover, two industrial partners: Siemens and Atos have participated by providing two case studies about the management of electronic health care records and the smart grid systems.

The Training phase started on May 8th when participants have attended tutorials by method designers about the method they are going to use for the analysis of the scenario. On May 9th and 10th participants have been introduced to the case studies.

The face to face Application phase lasted two days, May 10th and 11th, where the participants divided in groups have applied the security engineering methods on the two case studies.

The preliminary feedbacks of the participants have been collected through questionnaires and short presentations given by the groups in the afternoon of May 11th.

The second phase of eRISE 2012 will take place at Dauphine University in Paris from June 14th to June 15th.

NESSOS MAIN SPONSORED EVENT

ESSoS (February 2012)

The International Symposium on Engineering Secure Software and Systems (ESSoS) is a key event in the area of secure software engineering. Its main goal is to bridge the research done by the software engineering and security engineering community. NESSoS supports the event and are involved in the organization. Thus, NESSoS consortium celebrated a plenary meeting together with ESSoS'12 in Eindhoven.

ESSoS'12 also held a Doctoral Symposium event where PhD students had the chance to present and share their work with others interested in the area.
PARTNER OF THIS ISSUE
The Italian National Research Council (CNR) is a public organization, whose duty is to carry out, promote, spread, transfer and improve research activities in the main sectors of knowledge, to foster knowledge growth and application to the scientific, technological, economic and social development of Italy.
CNR is NESSoS coordinator and besides it three CNR research groups are involved in NESSoS. All these groups are located in the Pisa Research Area.

The Information Security members (IS-IIT) have a significant expertise on formal models for security and trust, synthesis of secure composed services as well as run-time service monitoring and enforcement, and study of security metrics and risk. They have running prototypes for GRID/Web service access and usage control and for data-sharing policies authoring and analysis. They coordinate the CNR Interdepartmental Security Project, spanning activities in the field of cyber-security and critical infrastructure protection. Also, they lead the technological platform for national security (SERIT, SEcurity Research in ITaly).

The SEDC-ISTI Laboratory merges researchers with expertise in the two complementary fields of software engineering and dependability. In particular, the researchers involved in NESSoS bring to the network a solid expertise and a long outstanding research curriculum in software V&V, testing and analysis. Currently research is strongly focused in the development of methodologies and tools for functional and non-functional testing and monitoring of component-based systems and Service-oriented Architectures. Of special relevance to NESSoS, they are also developing approaches for validation of security access control policies.

The HPC-ISTI Lab research group carries out research on algorithms and systems addressing the computational and data-intensive problems that arise in scientific, business, social, and knowledge-based applications within the Future Internet scenario, exploiting High Performance techniques and tools to deal with the exponential growth of users, data and services available on line. The main research areas are: Cloud and PaP Systems, Service Oriented Architectures, Web Information Retrieval, Data and Web Mining. The HPC Laboratory has close ongoing collaborations and exchanges with outstanding international partners from both industry and academia, including Yahoo, Google and Tiscali.

All the three groups are actively involved in several European projects as well national ones.

WP 2: “INTEGRATION OF METHODOLOGIES AND TOOLS IN THE WORK-BENCH”

The main objective of work package 2 is to provide an overview of and a platform for existing security engineering methods, tools and notations. This should help security and software engineers to make decisions on which solution or tool is the most appropriate for a software project.

Data on tools and methods for secure service engineering are collected, evaluated and compared based on a pattern-based classification scheme. NESSoS partners are gathering the data in the Common Body of Knowledge (CBK), an integrated wiki-based platform.

Integration of tools is implemented using the Service Development Environment (SDE) developed in the EU project SENSORIA (Software Engineering for Service Overlay Computers). The SDE is based on a Service-Oriented Architecture (SOA) approach, where each tool is represented as a service. Furthermore, it provides the ability to compose new tools out of existing ones, a process known as orchestration of services.

Tools are developed at different sites and cover different aspects of the life cycle phase. However, once integrated as Eclipse plugins in the SDE, they can be used in combination with the only condition that input and output formats are compatible or conveniently converted.

Further security related tools are welcome and we appreciate to working together with interested readers! (Please contact the SDE team at sde@pst.ti.fu-berlin.de)
Meetings

EINDHOVEN, FEBRUARY 2012

NESSoS meeting took place in Eindhoven (Netherlands) together with ESSoS’12 and was hosted by the University of Eindhoven on the 13th and 14th of February 2012.

We discussed about the state of the deliverables due at the end of year 2 and how to address the comments received after the first review.

ZURICH, JUNE 2012

NESSoS plenary meeting took place on the 4th, 5th and 6th of June at the ETH premises. As a key part of the meeting a research workshop was organized where NESSoS partners and invited speakers contributed with presentations. We intend to continue with these series of events. The next one to be held will be the QASA workshop in Pisa.

Next Events

• NESSoS meeting, Pisa (Italy), 12-14 of September together with ESO-RICS’12
• ESORICS. Pisa, 10-12 September 2012
• Co-located workshops with ESORICS 13-14 September (DPM’12, ERCIM STM’12)
• QASA 2012, 14 September (Pisa, Italy) will be the NESSoS workshop for the next meeting
• SecVote’12 summer school, Schloss Dagstuhl (Germany), 16-20 July 2012
• MÖsec at Models, 1st October 2012, Innsbruck (Austria)
• CRISIS’12, 10-12 October 2012, Cork (Ireland)

Contributors of this issue