



Security And Interoperability in Next Generation PPDR  
Communication Infrastructures



Project Number: 313296

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## Deliverable 8.1

### Dissemination plan

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**Abstract:** Deliverable 8.1 describes the preliminary dissemination plan. The document presents a plan of dissemination activities that will be performed by the consortium as a whole and a plan of activities that will be carried out by each SALUS beneficiary individually. Additionally, the report also provides a list of dissemination activities that have been carried out so far.

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## EXECUTIVE SUMMARY

The SALUS project aims to design, implement and evaluate a next generation communication network concept for Public Protection and Disaster Relief (PPDR) agencies. The work package 8 is concerned with disseminating the knowledge generated to the public by focused activities, to interact with the wider community, and to ensure post-project impact through an exploitation strategy.

This document presents a preliminary dissemination plan, listing both activities performed by each SALUS beneficiary individually and activities performed by the consortium as a whole in order to ensure a wide post-project impact. Beneficiaries will disseminate the results of the project by contributing to various standardization groups (such as ETSI, 3GPP, ITU and IETF), publishing in technology magazines, scientific journals, conferences, and workshops, and by actively participating and promoting the project at industrial and end-users' events.

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## 1 INTRODUCTION

The main goal of the SALUS project is to design, implement and evaluate a next generation communication network concept for Public Protection and Disaster Relief (PPDR) agencies, supported by end-users, network operators and industry, which will provide the necessary security, privacy, seamless mobility, Quality of Service and reliability support for mission-critical PMR voice and broadband data services. SALUS covers the full techno-economic scope regarding development and deployment of the next generation PPDR networks by focusing on the integration with / migration to 4G wireless communications developments targeting three critical scenarios: 1) city security; 2) temporary protection and; 3) disaster recovery. SALUS addresses key research challenges such as enterprise architectures, economic and business analysis, and a number of technical aspects concerning QoS, resilience, inter-systems handover (secure, seamless and fast), enhanced security, privacy mechanisms in heterogeneous network infrastructure, and multicast broadband PPDR services.

The knowledge generated during the project will be disseminated in many venues. This document presents the preliminary plan describing how the results will be disseminated by the consortium as a whole and by each SALUS beneficiary individually. Additionally, the document also provides a list of already carried out dissemination activities.

## 2 DISSEMINATION PLAN

### 2.1 General approach

The objective of the dissemination is to promote the knowledge and results generated during the project's lifetime. The driving principle of all activities is to use research results to create value within the targeted communities of the European Union to ensure that funding will lead to further advancements and to advance European companies to the leading edge in the global market place.

To this effect the SALUS dissemination plan is twofold; one for each beneficiary and one for the project as a whole. The dissemination activities of each SALUS partner are provided in Section 2.2, while the dissemination activities at project level will be carried out on the SALUS website, with the means of social media (see Section 2.3) and by establishing liaison activities with other European Cooperation in Science and Technology (COST) FP7 projects (see Appendices 2 and 3).

### 2.2 Planned dissemination activities of SALUS beneficiaries

Since the SALUS beneficiaries come from various backgrounds – large corporations, operators, SMEs, research institutions, universities and PPDR users – the dissemination activities will take place at venues where beneficiaries usually disseminate their findings: the research outcomes will be presented at scientific venues such as conferences, workshops and journals; applied solutions shall be presented at industrial fora such as fairs, exhibitions and end-user events; training, education and workshops will be carried out by educational institutions; and finally, good practices will be promoted for inclusion in future standards by both research and industrial partners. The strategy of disseminating results in specific venues guarantees that dissemination will reach highly interested audiences, while it also allows the beneficiaries to collect valuable feedback from these audiences.

Also note that while the presentations and other scheduled dissemination activities are not exclusive to European countries, most of the industrial-based events will take place in Europe.

#### 2.2.1 Instituto de Telecomunicações (IT)

Instituto de Telecomunicações plans the following dissemination activities:

- As a member of ETSI, IT will disseminate SALUS activities by contributing to the EC Mandate on reconfigurable radio systems. This mandate, among other things, proposes to explore potential areas of synergy between commercial and public safety and between public safety and military;
- IT will also disseminate SALUS achievements to the ANPC (Portuguese Authority for Civil Protection). This activity also targets SIRESP (the operator for the Portuguese safety and emergency network) and the Portuguese Ministry of Internal Administration;
- Dissemination of results will be achieved through the submission of conference papers (ICC and GLOBECOM) and Journal papers (Springer, Elsevier or IEEE transactions) related to seamless and vertical handovers between TETRA and LTE technologies and correspondent security extensions.



### **2.2.2 Cassidian (CAS)**

Cassidian plans the following:

- As a member of ETSI, and having representative in the reconfigurable radio systems work group, Cassidian will support Instituto de Telecomunicações in disseminating SALUS activities in the normalization body.
- Cassidian will disseminate SALUS material on its booth during Critical Communications World Congress (CCW) and Milipol Exhibition.

### **2.2.3 Rohill (ROH)**

Rohill will be working on the following dissemination activities:

- Follow-up on initial presentation to the Critical Communication Broadband Group at TETRA & Critical Communications Association (TCCA/CCBG), explaining the status and request for further input and/or participation from end-users;
- Share experiences of Critical Voice and Data over LTE with pilot customers on the upcoming Critical Communications World 2014 in Bangkok with a focus on the next steps that need to be achieved through SALUS;
- Work with other Dutch partners on visibility of SALUS with the Dutch public safety agencies;
- White paper on Critical Voice and Data over public and private LTE networks with a strong reference to SALUS, to be shared through our web site and possibly magazine publications.

### **2.2.4 Airwave (AW)**

Airwave plans the dissemination activities specified below:

- Make presentations at industry events such as British Association of Public-Safety Communications Officials (BAPCO), Cambridge Wireless (CW) or Critical Communications World (CCW);
- Share the output with industry standards groups such as the Critical Communications Broadband Group at TETRA & Critical Communications Association (TCCA/CCBG);
- Communicate to user communities via their specialist magazines.

### **2.2.5 Fraunhofer (FhG)**

Fraunhofer will disseminate SALUS results according to the following:

- Publish scientific papers on automated analysis of interoperability and resilience aspects based on enterprise architecture models.
- Present results to INCOSE (International Council on Systems Engineering) and IEEE Systems Council in order to work towards recognised standards for enterprise architecture frameworks for PPDR.

### **2.2.6 Twente Institute for Wireless and Mobile Communications (TI-WMC)**

TI-WMC plans to disseminate the results of the project in the following venues:

- Dissemination of results in Dutch professional technical magazines, as the technical magazine "Verbinding" which is the publication directed to the professionals in mission critical communications, and Bits&Chips with a more general scope;

- Presentation of results at Dutch exhibitions dedicated to public safety: Seminars organized by the NIDV Stichting Nederlandse Industrie voor Defensie en Veiligheid, events by the Blomberg Institute<sup>1</sup> and the SecuVAK seminars in Vernray;
- Presentation of results in Dutch conferences and workshop of larger scope, as Bits&Chips conference on embedded systems, and ICT Open;
- Cooperation with the Dutch project Tec4se<sup>2</sup> on integration of technologies for network centric work for improving the efficiency of public safety services;
- Dissemination of results within the Hague Security Delta (HSD) cluster which is the largest security cluster in Europe. In this Dutch cluster, companies, governments, and research institutions work together on innovations and knowledge in the field of cyber security, national and urban security, protection of critical infrastructure, and forensics.

### 2.2.7 OneSource (ONE)

OneSource plans to disseminate results in the following venues:

- IEEE Symposium on Security and Privacy. Orientation: Networks Security, Security Architecture, Privacy Preservation Mechanisms;
- USENIX Security Symposium. Orientation: Networks and Mobile Security, Forensics and diagnostics for security, Intrusion Detection Systems;
- ACM Conference on Computer and Communications Security. Orientation: Information Security;
- ACM International Conference on High Confidence Networked Systems. Orientation: Security Preservation within the context of next generation PPDR systems;
- IEEE International Conference on Communications. Orientation: Networking Infrastructure and Architecture in PPDR Systems;
- ACM Transactions on Information and System Security. Orientation: End-to-end security preservation in new generation PPDR;
- IEEE Communications Magazine. Orientation: PPDR systems functions and architecture.

### 2.2.8 University of Ljubljana (UL)

University of Ljubljana will disseminate the results as follow:

- Publish a paper in a SCI-indexed journal (publishers IEEE, Elsevier and alike). Tentative title: Survey of privacy architectures and technologies for PPDR communication networks;
- Publish a conference paper (ISCRAM, IFIP and alike). Tentative title: Generic privacy architecture for PPDR communication networks (in collaboration with University of Patras and other partners in WG5).

### 2.2.9 University Twente (UTWENTE)

University of Twente plans to disseminate the results as follows:

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<sup>1</sup> <http://www.blomberginstituut.nl>

<sup>2</sup> <http://www.tec4se.nl>

- UTWENTE will publish research results at international conferences (e.g., IFIP WMNC, IEEE VNC, WWIC) and in international journals and magazines (e.g., IEEE Transactions on Networking, Elsevier Computer Communications, IEEE Communications Magazine);
- In addition to the publications mentioned above, it is the intent of University of Twente to use the knowledge and practical experiences gained during the project for both research and education. In research we expect one dissertation on topics related to SALUS to be realized based on the project. In education we expect that courses taught at University of Twente will benefit directly from the practical experiences and insights produced by SALUS. A significant number of student final projects related to SALUS will be launched.

### 2.2.10 Kingston University (KU)

Kingston University will disseminate the project results as follows:

- KU will be involved with standardisation related activities with ITU-R WP5A and IETF MANET-WG with regards to new technologies developed with the project;
- KU will publish R&D results related to Mobile ad-hoc Networking and Security in international conferences (e.g. IEEE PIMRC, IEEE TEMU), journals (IEEE Transactions Mobile Computing, IEEE Transactions on Networking), and magazine articles (e.g. e-forensics).

### 2.2.11 University of Patras (UPAT)

The University of Patras plans to disseminate the results as follows:

- A journal paper about car-crash simulator for VANET and performance metrics (Journal Publication submitted in Elsevier);
- Survey paper for next generation PPDRs (in possible collaboration with University of Ljubljana);
- Security mechanisms for next-generation PPDR (in possible collaboration with Univ. of Ljubljana and with Kingston University);
- Paper for SALUS Techno-economic analysis;
- A paper about security in mobile networks (in possible collaboration with Twente University).

### 2.2.12 Ubitel (UBITEL)

Ubitel plans to present SALUS project during welcome presentations and keynotes our employees are going to make during the next year. The list of conferences is presented below:

- The 15<sup>th</sup> Conference of Open Innovations Association FRUCT (Finnish-Russian University Cooperation in Telecommunications), IEEE Sister Society, St Petersburg, Russia, April 2014;
- The 12<sup>th</sup> International Conference on Wired/Wireless Internet Communications (WWIC) St Petersburg, Russia, June, 2014;
- The 7<sup>th</sup> conference on Internet of Things and Smart Spaces (ruSMART), St Petersburg, Russia, August, 2014;
- The 14<sup>th</sup> International Conference on Next Generation Wired/Wireless Networking (NEW2AN), St Petersburg, Russia, August, 2014;
- The International Congress on Ultra-Modern Telecommunications and Control Systems (ICUMT), Place to be confirmed, September, 2014;

- Most likely, already published materials about SALUS could be reused, and partly updated to include latest community achievements.

### 2.2.13 University of Belgrade (UB)

University of Belgrade plans to disseminate the results as follows:

- Present a paper at IEEE Antennas and Propagation Society (AP-S) conference in July 2014. Tentative title: Efficient EM modelling of human body for WBAN.
- Two conference papers at IEEE AP-S conferences in mid-2015 and mid-2016, related to WBAN modelling in crowded places related to city security and temporary protection scenarios.

### 2.2.14 Public Safety Communication Europe Forum (PSCE)

Public Safety Communication Europe will perform the following dissemination activities:

- Regular updates in the quarterly PSCE Newsletter sent to more than 3500 security stakeholders. PSCE Newsletters are issued on a regular basis. It further presents the latest information from the PSCE Secretariat and provides in depth analysis of relevant legislation. PSCE Newsletter also contains news on activities, projects, campaigns and conferences that PSCE and its members are involved in;
- Dissemination via our bi-annual conferences which regularly attract over 50 international participants. This has started on October 30 with a presentation of SALUS under one of the focus "Interoperability" of our conference held in Romania;
- Dissemination via 'PSCE Flash News' in order to provide stakeholders and general public with the latest developments of the project. Taking the form of the 'quick updates', PSCE Flash News contribute to keeping readers up-to-date with the evolution of relevant legal framework, events and general topics of interest;
- Organisation of 3 Advisory Board Sessions. These will be small, flexible panels where practical gained knowledge will be transferred to a selected combination of interested R&D providers, PPDR services industry participants and users. These small boards are aimed to present and discuss real-life problems within the processes and to make simulations based on real data collected with the participant in order to create concrete results for knowledge sharing. The board is around 10 participants for each workshop;
- PSCE will organise two SALUS conferences which will be held to present the results of the SALUS project and to interact with stakeholders. The estimated audience shall be between 50 and 100 participants. One conference will be held at the half-way mark and it will primarily focus on research results. The second conference will be held at the end of the project where the final results will be made available and exploitation possibilities discussed. These conferences will be fully open, and external speakers engaged and also similarly clustered projects will be invited to participate. They may be organised in conjunction with the PSCE bi-annual conferences;
- Dissemination of SALUS Press Releases to our network of contacts;
- Presentation on PSCE website with a dedicated page<sup>3</sup>.

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<sup>3</sup> <http://www.psc-europe.eu/index.php?id=420>

### 2.2.15 Alcatel-Lucent (ALU-I)

During the SALUS project, Alcatel-Lucent will promote SALUS activities through:

- Industry specific events, mainly targeting the Critical Communications World event (one global event plus few regional events per year) by means of presentations (during e.g. pre-conference seminars) and/or possibly by hosting SALUS joint demos on our booth;
- Domain specific association, such as the TCCA/CCBG, bringing technical contribution to the Solution Architecture sub-group (where TCCA proposals are consolidated before being presented to standard organizations such as 3GPP or ETSI) and more generic contribution to the knowledge of the CCBG community in plenary meetings.
- Standard body (namely 3GPP) by possibly providing contributions based on SALUS outputs to the 3GPP public safety related working and study items.

### 2.2.16 Emergency Services College (ESC)

ESC will disseminate the SALUS project results in papers, seminars and workshop contributions. It is also intended to include results in courses and training exercises.

## 2.3 Dissemination activities for the project as a whole

### 2.3.1 The SALUS website and social media

As the means of disseminating results by the consortium as a whole, a website has been developed and is actively maintained to enable interested parties (EU commission and the general public) to retrieve information about the project. The website is accessible at <http://www.sec-salus.eu>. A screenshot of the project website can be seen in Figure 1.

#### 2.3.1.1 Structure and contents of the website

The website is dynamic and new contents are being added as the project progresses, but the overall structure of the website can be described as follows.

On its landing page ("Home" menu) the website shows relevant information about the project; its goal and a set of recent news items. The news are also classified into various categories (such as press releases, presentations and similar). Additionally, the visitors may subscribe to the SALUS newsletter and periodically receive emails featuring recently published items. An option to subscribe to the page contents via RSS feeds is also available.

The "Project SALUS" webpage shows general information about the project: its motivation, vision, challenges, objective and its work packages. Each of these elements features its own subpage with detailed descriptions.

Similarly, visitors can find information about the SALUS beneficiaries on the "Consortium" webpage, where a general description is given regarding the project structure, followed by a description of each beneficiary and its role in the project.

Finally, a short table of information regarding the project can be found on the "ID Card" webpage.



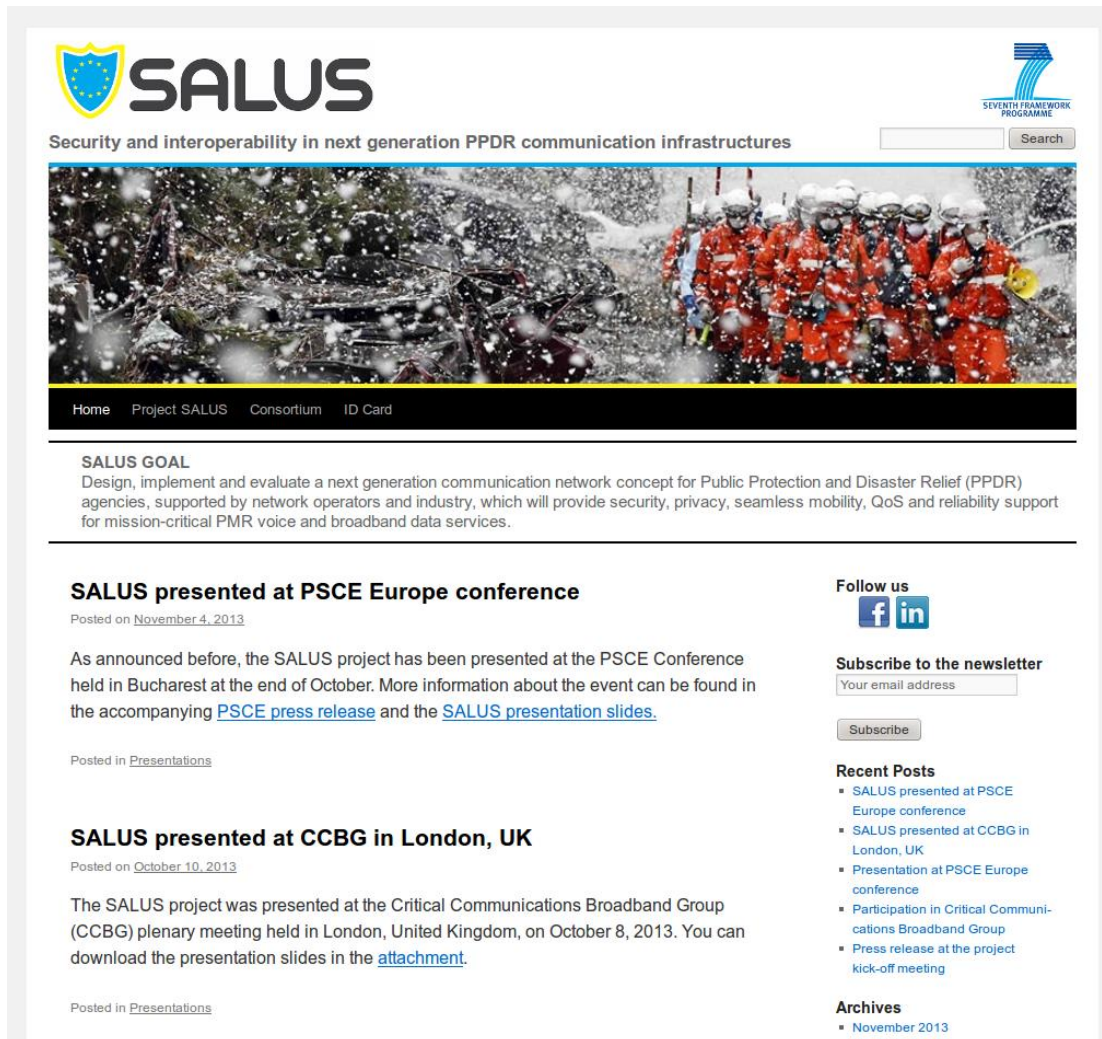


Figure 1 – The landing page of the SALUS project

### 2.3.1.2 Website statistics

This section presents two statistics regarding the visits of the SALUS homepage. The statistics have been generated with the AWStats<sup>4</sup> tool by analysing the logs of the server that runs the SALUS homepage.

Since the website has become operational (October 1, 2013) it has received over one thousand unique visits. A monthly overview of them is given in Figure 2; the “Unique visits” account for the number of different IP addresses that have accessed the page, the “Number of visits” accounts for the number of new visitors (visitors that have not visited site in the previous 60 minutes), the “Pages” account for the number of times that each page has been accessed, while the “Hits” count the number of all objects that have been accessed (pages, images and other files).

<sup>4</sup> <http://awstats.sourceforge.net>

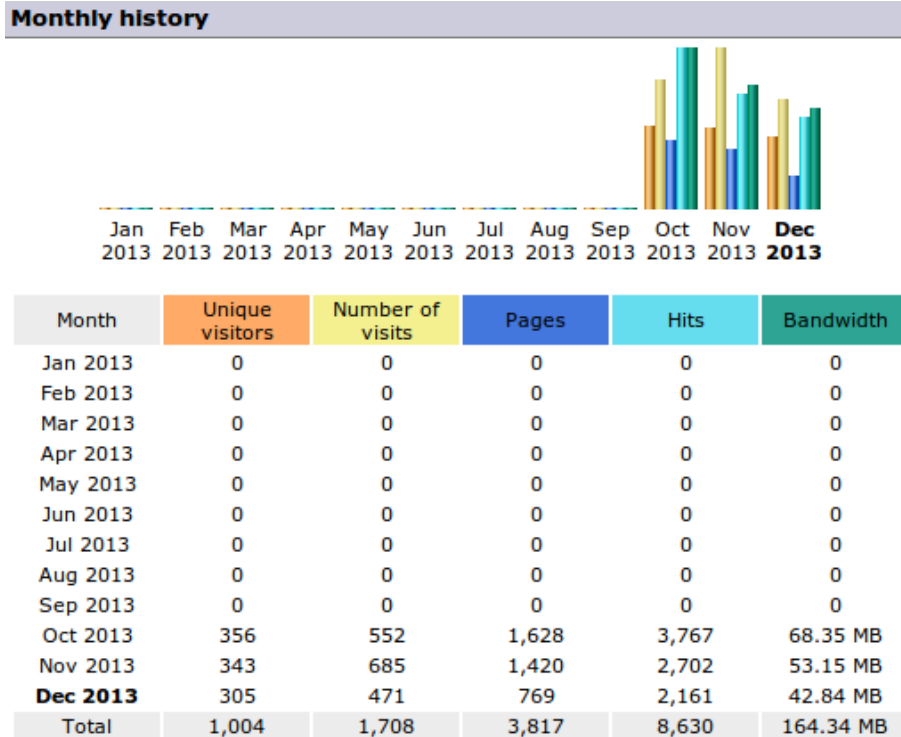


Figure 2 – A monthly overview of visits for SALUS homepage

Figure 3 shows the top 10 list of countries from which website visits have originated in the period between October 1 and December 26, 2013. The entry “European country” accounts for visits that cannot be unambiguously resolved to a particular European country, but are simultaneously unambiguously resolved as European.

A more detailed and interactive overview of SALUS homepage visits can be accessed online<sup>5</sup>. **Note that the statistics are password protected; use “salusstats” for username and password** (without quotation marks) to log-in.

### 2.3.1.3 Social media

The SALUS project will also be publicized and its results disseminated with the means of social media. To this extent a Facebook page<sup>6</sup> and a LinkedIn group<sup>7</sup> have been established. The purpose of these communication channels is twofold: first, to have additional means for spreading project information and disseminating results, and second, to create a community of interested parties (people and organizations) with whom the consortium can connect.

<sup>5</sup> <https://www.sec-salus.eu/awstats/awstats.pl?config=sec-salus.eu>

<sup>6</sup> <https://www.facebook.com/sec.salus.eu>

<sup>7</sup> <http://www.linkedin.com/groups/SALUS-Security-interoperability-in-next-7429420>











Countries (Top 10) - Full list					
Countries			Pages	Hits	Bandwidth
	United States	us	1,108	1,446	15.20 MB
	European country	eu	539	1,698	37.87 MB
	Great Britain	gb	286	691	13.31 MB
	China	cn	231	267	3.27 MB
	Slovenia	si	197	902	7.41 MB
	Portugal	pt	182	545	8.43 MB
	Netherlands	nl	158	427	10.85 MB
	France	fr	148	215	5.13 MB
	Germany	de	148	455	8.61 MB
	Spain	es	92	237	8.29 MB
	Others		728	1747	45.97 MB

Figure 3 – A top 10 list of countries from which the visits have originated

### 2.3.2 COST actions and FP7 projects that may relate to SALUS

SALUS also intends to disseminate its results and share knowledge with COST actions and 7<sup>th</sup> Framework Program projects seeking the same goals. A list of related COST actions and FP7 projects is presented in Table 5 (Appendix 2) and Table 6 (Appendix 3).

Even though at this time there are no specific planned partner activities for such commitment, Deliverable 8.2 (Dissemination, Exploitation and Standardization Activities Report - Intermediate), due on month 18, will provide such details.



### 3 ALREADY DISSEMINATED RESULTS

Since the start of the project the following dissemination activities have taken place.

#### 3.1 The start of the project press release

A press release has been issued after the project kick-off meeting in Aveiro, Portugal. The press release can be downloaded from the project homepage<sup>8</sup>.

#### 3.2 Presentation at Critical Communications Broadband Group

Several partners (Rohill, Airwave, Cassidian, PSCE and Alcatel-Lucent) participated in the Critical Communications Broadband Group (CCBG) plenary meeting that was held in London in October 8<sup>th</sup>, 2013, and gave an overall presentation of the SALUS project. The presentation slides are reachable at the SALUS homepage.<sup>9</sup>

#### 3.3 Presentation at PSCE Europe Conference

The SALUS project has been presented by PSCE and CAS at the PSCE Conference that was held in Bucharest, Romania, on October 30<sup>th</sup>, 2013. The accompanying press release and the presentation slides can be downloaded from the SALUS homepage<sup>10</sup>.

#### 3.4 Publication at HET-NETs 2013

Members of University of Patras, George Charalampopoulos and Tasos Dagiuklas, have published a paper entitled Performance Evaluation of VANETs with Multiple Car Crashes in Different Traffic Conditions at the Seventh International Working Conference on Performance & Security Modelling and Evaluation of Cooperative Heterogeneous Networks (HET-NETs) conference, held at Ilkley, United Kingdom.

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<sup>8</sup> <http://www.sec-salus.eu/archives/479>

<sup>9</sup> <http://www.sec-salus.eu/archives/511>

<sup>10</sup> <http://www.sec-salus.eu/archives/499>

## 4 NEXT STEPS

This document described the preliminary SALUS dissemination plan. It provided specific partner and overall project dissemination activities. A list of relevant venues for dissemination of scientific results and SALUS related COST actions and FP7 projects were also provided in appendices 1, 2 and 3, respectively.

The subsequent report, Deliverable 8.2, due in month 18, will further detail this dissemination plan and additionally provide the standardization activities and exploitation roadmap for each partner.

## ACRONYMS

3G	Third Generation
3GPP	Third Generation Partnership Project
4G	Fourth Generation
ANPC	Portuguese Authority for Civil Protection
AP	Access Point
AW	Airwave Solutions
BAN	Body Area Networks
BAPCO	British Association of Public-Safety Communications Officials
CAS	Cassidian
CCBG	Critical Communications Broadband Group
CCWG	Critical Communications World Congress
COSI	Standing Committee on Internal Security
COST	Cooperation for Science and Technology
EAP	Extensible Authentication Protocol
EC	European Commission
EC/EU	European Commission / European Union
ECS	Emergency College Services
ETSI	European Telecommunications Standards Institute
FP5/6/7	Framework Programme 5th/6th/7th
GPRS	General Packet Radio Service
GSM	Global System for Mobile communications
HSD	Hague Security Delta
IAP	Integrated Applications Promotion
ICT	Information and Communication Technologies
IDS	Intrusion Detection System
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IP	Internet Protocol
ISO	International Organisation for Standardisation
IT	Instituto de Telecomunicações
ITU	International Telecommunication Union
KU	Kingston University
LTE	Long Term Evolution
MANET	Mobile Ad-hoc Network
NIDV	Nederlandse Industrie voor Defensie en Veiligheid
P2P	Peer-to-Peer

PHY	Physical layer
PMR	Professional Mobile Radio
PPDR	Public Protection and Disaster Relief
PSTN	Public Switched Telephone Network
QoS	Quality of Service
R&D	Research and Development
RFC	Request For Comment
ROH	Rohill Technologies B.V.
SIRES	Operator of the Portuguese safety and emergency network
SME	Small Medium Enterprise
SON	Self-Organizing Networks
STREP	Specific Targeted Research Project
TCCA	TETRA & Critical Communications Association
TEA	TETRA Encryption Algorithms
TETRA	TErrestrial Trunked RAdio
TFEU	Treaty on the Functioning of the European Union
UMTS	Universal Mobile Telecommunications System
UPAT	University of Patras
VANET	Vehicular Ad-Hoc Network
VoIP	Voice over IP
WBAN	Wireless Body Area Networks
WG	Working Group
WiFi	IEEE 802.11
WiMAX	Worldwide Interoperability for Microwave Access
WLAN	Wireless LAN
WMN	Wireless Multimedia and Networking
WP	Work Package

## APPENDIX 1: SUMMARY OF DISSEMINATION VENUES

Table 1 summarizes the industrial and end-user events at which the project SALUS and its results shall be disseminated by various beneficiaries as specified in Section 2.2.

Table 1: Industrial and end-user events

Abbreviation	Title	URL
MILIPOL	Milipol: Worldwide exhibition of internal state security	<a href="http://www.milipol.com">http://www.milipol.com</a>
CCW	Critical Communications World	<a href="http://criticalcommunicationsworld.com">http://criticalcommunicationsworld.com</a>
TCCA	TETRA & Critical Communication Association	<a href="http://www.tandcca.com">http://www.tandcca.com</a>
TCCA/CCBG	Critical Communications Broadband Group at TETRA & Critical Communications Association	<a href="http://www.tandcca.com/assoc/page/18100">http://www.tandcca.com/assoc/page/18100</a>
BAPCO	British Association of Public-Safety Communications Officials	<a href="http://www.bapco.org.uk">http://www.bapco.org.uk</a>
CW	Cambridge Wireless	<a href="http://www.cambridgewireless.co.uk">http://www.cambridgewireless.co.uk</a>
HSD	The Hague Security Delta cluster	<a href="https://www.thehaguesecuritydelta.com">https://www.thehaguesecuritydelta.com</a>

Table 2 summarizes the industrial and end-user specialist magazines referenced in Section 2.2.

Table 2: Industrial and end-user specialist magazines

Title	URL
Bits&Chips	<a href="http://www.bits-chips.nl">http://www.bits-chips.nl</a>
Verbinding	<a href="http://www.verbinding.nl">http://www.verbinding.nl</a>

Table 3 summarizes relevant standardization bodies targeted by SALUS.

Table 3: Standardization bodies

Abbreviation	Title	URL
ETSI RRS	European Telecommunications Standards Institute: European Commission Mandate on reconfigurable radio systems	<a href="http://www.etsi.org/images/files/ECMandates/m512.pdf">http://www.etsi.org/images/files/ECMandates/m512.pdf</a>
ITU WP5A	International Telecommunications Union: Working Party 5A – Land mobile service above 30 MHz; wireless access in the fixed service; amateur and amateur-satellite services	<a href="http://www.itu.int/ITU-R/index.asp?category=study-groups&amp;rlink=rwp5a&amp;lang=en">http://www.itu.int/ITU-R/index.asp?category=study-groups&amp;rlink=rwp5a&amp;lang=en</a>
IETF MANET	Internet Engineering Task Force: Mobile Ad-hoc Networks Working Group	<a href="https://ietf.org/wg/manet">https://ietf.org/wg/manet</a>
3GPP	3 <sup>rd</sup> Generation Partnership Project	<a href="http://www.3gpp.org">http://www.3gpp.org</a>

Table 4 summarizes the before mentioned scientific conferences and journals at which dissemination of results can take place. While the table list the events specified in Section 2.2, it also includes some alternatives venues.

Table 4: Scientific conferences and journals

Abbreviation	Title	Type	URL
S & P	IEEE Symposium on Security and Privacy	Conference	<a href="http://www.ieee-security.org/TC/SP-Index.html">http://www.ieee-security.org/TC/SP-Index.html</a>
USENIX	USENIX Security Symposium	Conference	<a href="https://www.usenix.org/conferences/byname/108">https://www.usenix.org/conferences/byname/108</a>
CCS	ACM Conference on Computer and Communications Security	Conference	<a href="http://www.sigmac.org/ccs.html">http://www.sigmac.org/ccs.html</a>
HiCoNS	ACM International Conference on High Confidence Networked Systems	Conference	<a href="http://www.hi-cons.org">http://www.hi-cons.org</a>
ICC	IEEE International Conference on Communications	Conference	<a href="http://www.ieee-icc.org">http://www.ieee-icc.org</a>
AdHoc-Now	International Conference on Ad-Hoc Networks and Wireless	Conference	<a href="http://www.adhocnow.net">http://www.adhocnow.net</a>
ISWCS	International Symposium on Wireless Communication Systems	Conference	<a href="http://www.iswcs2014.org">http://www.iswcs2014.org</a>
MALWARE	IEEE International Conference on Malicious and Unwanted Software	Conference	<a href="http://www.malwareconference.org">http://www.malwareconference.org</a>
GLOBECOM	IEEE GLOBECOM	Conference	<a href="http://www.ieee-globecom.org">http://www.ieee-globecom.org</a>

Abbreviation	Title	Type	URL
ISCRAM	Information Systems for Crisis Response and Management	Conference	<a href="http://www.iscramlive.org">http://www.iscramlive.org</a>
IFIP	International Federation for Information Processing	Conference	<a href="http://www.ifip119.org/Conferences">http://www.ifip119.org/Conferences</a>
COSE	Elsevier Computers & Security	Journal	<a href="http://www.journals.elsevier.com/computers-and-security">http://www.journals.elsevier.com/computers-and-security</a>
TISSEC	ACM Transactions on Information and System Security	Journal	<a href="http://tissec.acm.org">http://tissec.acm.org</a>
IJIS	Springer International Journal of Information Security	Journal	<a href="http://link.springer.com/journal/10207">http://link.springer.com/journal/10207</a>
COMMAG	IEEE Communications Magazine	Journal	<a href="http://www.comsoc.org/commag">http://www.comsoc.org/commag</a>
JSAC	IEEE Journal on Selected Areas in Communications	Journal	<a href="http://www.jsac.ucsd.edu">http://www.jsac.ucsd.edu</a>
MCA	ICST Mobile Communications and Applications	Journal	<a href="http://icst.org/mobile-communications-and-applications">http://icst.org/mobile-communications-and-applications</a>
DIIN	Elsevier Digital Investigation	Journal	<a href="http://www.journals.elsevier.com/digital-investigation">http://www.journals.elsevier.com/digital-investigation</a>
TON	IEEE/ACM Transactions on Networking	Journal	<a href="http://www.ifp.illinois.edu/ton">http://www.ifp.illinois.edu/ton</a>
COMCOM	Elsevier Computer Communications	Journal	<a href="http://www.journals.elsevier.com/computer-communications">http://www.journals.elsevier.com/computer-communications</a>
PIMRC	IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications	Conference	<a href="http://www.ieee-pimrc.org">http://www.ieee-pimrc.org</a>
TEMU	IEEE International Conference on Telecommunications and Multimedia	Conference	<a href="http://www.temu.gr">http://www.temu.gr</a>
TMC	IEEE Transactions Mobile Computing	Journal	<a href="http://www.computer.org/portal/web/tmc">http://www.computer.org/portal/web/tmc</a>
AP-S	IEEE Antennas and Propagation Society	Conference	<a href="http://www.ieeeaps.org">http://www.ieeeaps.org</a>
FRUCT	IEEE Sister Society, Conference of Open Innovations Association	Conference	<a href="http://fruct.org/conference15">http://fruct.org/conference15</a>
WWIC	International Conference on Wired/Wireless Internet Communications	Conference	TBA
ruSMART	Conference on Internet of Things and Smart Spaces	Conference	<a href="http://rusmart.e-werest.org">http://rusmart.e-werest.org</a>
NEW2AN	International Conference on Next Generation Wired/Wireless Networking	Conference	TBA
ICUMT	International Congress on Ultra-Modern Telecommunications and Control Systems	Conference	TBA

## APPENDIX 2: COST ACTIONS THAT MAY RELATE TO SALUS

Table 5: COST Projects on which SALUS can cooperate or gather input

COST Action	Project	Goal	SALUS input	SALUS output
IC0906	Wireless Networking for Moving Objects (WiNEMO) <a href="http://cost-winemo.org">http://cost-winemo.org</a> Begin: 2/12/2009 End: 19/05/2014	"Advance the state-of-the-art concerning networking aspects of scenarios integrating moving objects of the most varied kinds, ranging from personal use devices to sensors, into the Internet of the Future (IoF). In particular, the Action will coordinate the development of new algorithms, techniques, protocols models and tools that will facilitate the integration of moving objects into pervasive and ambient communications."	Moving Objects (e.g. helicopters) can be used in different safety and protection operations. Specifically scenario 2 - temporary protection and scenario 3 - disaster recovery.	SALUS by involving user communities can, in a first place share feedback with WiNEMO project. Specifically if moving objects adapt well to the scenarios of SALUS
IC1206	De-identification for privacy protection in multimedia content (DE-ID) <a href="http://costic1206.uvigo.es">http://costic1206.uvigo.es</a> Begin: 26/3/2013 End: 23/11/2017	"To facilitate coordinated interdisciplinary efforts in the introduction of person de-identification and reversible de-identification in multimedia content "	SALUS can use the input of this project to enable de-identification of multimedia content	
IC1101	Optical Wireless Communications - An Emerging Technology (OPTICWiSE) <a href="http://opticwise.uop.gr">http://opticwise.uop.gr</a> Begin: 9/11/2011 End: 15/11/2015	"Offering significant technical and operational advantages, optical wireless communication (OWC) can be, in some applications, a powerful alternative to and, in others, complementary to existing radio frequency (RF) wireless systems."		SALUS can provide input with requirements for next-generation networks for PPDR scenarios. Next-generation communication networks can include Optical Wireless Communications (OWC)



## APPENDIX 3: 7<sup>TH</sup> FRAMEWORK PROGRAM PROJECTS THAT MAY RELATE TO SALUS

Table 6: SALUS related FP7 projects

Project	Goal	SALUS input	SALUS output
Satellite Based Asset Tracking for Supporting Emergency Management in Crisis Operations (SPARTACUS) Begin: 1/11/2013 End: 31/10/2016	"SPARTACUS will design, realise, test and validate in simulated and real world scenarios GALILEO-ready tracking/positioning solutions for critical asset tracking and crisis management."	SALUS can use satellite communications to enhance operations in the scenario 1 and scenario3	The output of SALUS can consist on user feedback, as well as technical aspects in the integration of Satellite communications in disaster relief operations.
Reliable and Smart Crowdsourcing Solution for Emergency and Crisis Management - RESCUER <a href="http://cordis.europa.eu/projects/rcn/110379_en.html">http://cordis.europa.eu/projects/rcn/110379_en.html</a> Begin: 1/10/2013 End: 31/3/2016	"RESCUER aims at developing a smart and interoperable computer platform for using crowdsourcing information mashed up with open data to support emergency and crisis management."		SALUS can contribute with data from the different scenarios to the RESCUER project to test their computing platform.
Aerial Base Stations with Opportunistic Links for Unexpected & Temporary Events - ABSOLUTE <a href="http://www.absolute-project.eu">http://www.absolute-project.eu</a> Begin: 1/10/2012 End: 30/9/2015	"design and validate a holistic and rapidly deployable mobile network to provide broadband services based on a flexible, scalable, resilient and secure network design."		SALUS can use the aerial base stations for scenario 2, temporary events.
Intelligent Synthesis and Real-time Response using Massive Streaming of Heterogeneous Data - INSIGHT <a href="http://www.insight-ict.eu">http://www.insight-ict.eu</a> Begin: 1/9/2012 End: 31/8/2015	"The goal of the INSIGHT project is to radically advance our ability of coping with emergency situations in smart cities by developing innovative technologies, methodologies and systems that will put new capabilities		SALUS can contribute with data from the different scenarios

Project	Goal	SALUS input	SALUS output
	in the hands of disaster planners and city personnel to improve emergency planning and response"		
Automatic Data relevancy Discrimination for a PRIVacy-sensitive video surveillance (ADDPRIV) <a href="http://www.addpriv.eu">http://www.addpriv.eu</a> Begin: 01/02/2012 End: 31/1/2014	"ADDPRIV proposes solutions for automatic discrimination of relevant data recorded on a multi-camera network, related to an individual whose suspicious behaviour triggered an alert."	SALUS can use the algorithm developed in this project for scenario 1 - city security. For instance, to identify in any surveillance camera a suspect.	
Next Generation Technology Independent Interoperability of Emergency Services - GERYON <a href="http://www.sec-geryon.eu">http://www.sec-geryon.eu</a> Begin: 1/12/2011 End: 31/5/2014	"Therefore, GERYON will unify common technical and operational logic of first responder communications networks in a technology independent manner. This unification will offload interconnection gateways from duplicated technology dependent details by providing a neutral interconnection interface. "	Shares the same goals of SALUS, moreover employs the same technology, namely emergency services over LTE.	
Public Protection and Disaster Relief Transformation Center (PPDR-TC) Begin:01/4/2013 End: 30/9/2015	"The goal of PPDR-TC is to specify an interoperable, secure and resilient voice and data communications architecture, tailored specifically for the needs of the PPDR community. It will provide the foundation for the evolution of mission critical communications. PPDR-TC will address both mission critical and non-mission critical situations in an integrated and uniform way"	SALUS should follow the progress of this project as the goal for PPDR is common. Probably some joint activities, such as workshops might be an efficient way of promoting the activities of both projects.	