



D6.3 – Public Final activity report

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1. Final Publishable Summary Report

CONTEXT

One of the greatest challenges of the Security environment will be the need for detecting, accessing and controlling relevant information (especially threats and possible countermeasures). Nevertheless, the perception on Security varies depending on the addressed community. The Security domain has become a cross-cutting activity, therefore the term “Security” has a wide meaning involving numerous and varied groups, expertises and stakeholders. It is needed to bring together those perspectives to have a complete and enriched view of security, but this implies a large effort to address the asymmetry of knowledge, as well as the terminology evolution and ambiguity within each cell of knowledge.

In order not to duplicate efforts and to have an efficient European network for security research, at the Preparatory Action for the Security Research, it was already pointed out the need for a tool for detecting new threats and technologies (ACTIVE WATCH).

OBJECTIVES

STRAW (Security Technology Active Watch) is a C.S.A. project funded under the Security Research theme (FP7-SEC-2007-7.0-01 “Technology Watch”) that aims at providing a European Service of Technology Watch on Security Technologies.

The STRAW objective is to enhance the European civil Security by facilitating the cooperation among the different Security stakeholders: researchers, technology providers and end-users, including Administration. This mission is accomplished by monitoring the security domain in order to detect relevant and applicable security technology developments, knowledge, experience and stakeholders and to deliver this information to the right audience at the right time to take advantage of this information.

In addition, the concept of STRAW tries to bring together the Defense and Security research industry in order to foster the development of new applications and the creation of future opportunities of cooperation.

As specific objectives to achieve this global aim, STRAW outcomes include:

- The development of an online IT system serving for repository and interface for managing information on Security, so that security stakeholders could take advantage of the relevant technologies and trends.
- The establishment of a network of contact points and the promotion the networking activities aiming at reinforcing the European Security community and enhance transnational cooperation.
- The constitution of a panel of experts to monitor the implementation.

PROJECT STRUCTURE

STRAW is a ten-partner project coordinated by Atos Origin. The consortium incorporates both research and industrial partners, having access to both the defense and the civilian security sectors,

and representing relevant end users. The consortium is also supported by a panel of experts consisting of 23 members.

No.	Beneficiary Short Name	Beneficiary Name	Country
1	ATOS	Atos Origin SAE	Spain
2	ASD	AeroSpace and Defense Industries Association	Belgium
3	THALES	Thales Services SAS	France
4	SINTEF	Stiftelsen SINTEF	Norway
5	FHG	Fraunhofer-IFF	Germany
6	INTA	Instituto Nacional de Técnica Aeroespacial	Spain
7	ED	Elsag Datamat S.p.A	Italy
8	AETIC	Asociación de Empresas de Electrónica, Tecnologías de la Información y Telecomunicaciones de España	Spain
9	FR	Fondazione Rosselli	Italy
10	EOS	European Organisation for Security	Belgium

Table 1: List of Beneficiaries

METHODOLOGY

The activity of STRAW project was split in the following activities:

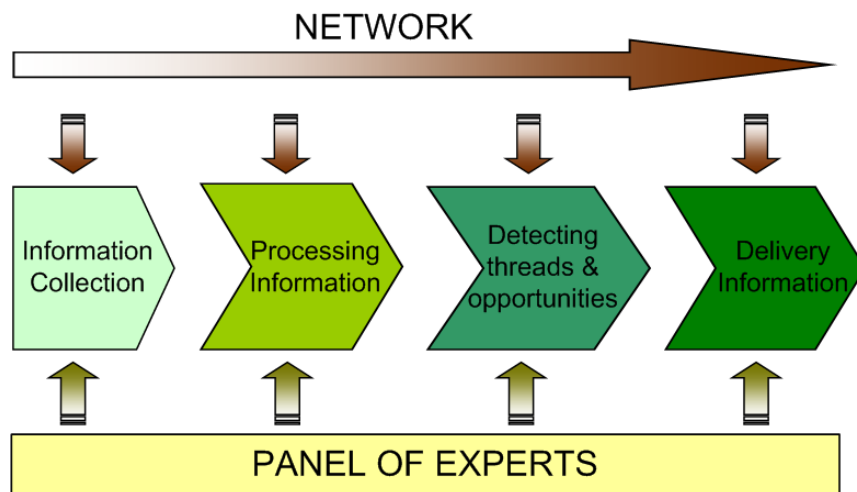


Figure 1 – STRAW methodology

WP1	Information Collection		
WP leader	FR	Participants	ATOS, ASD, THALES, SINTEF, FHG, INTA, ED, AETIC, EOS
Type of activity	SUPP		
Description	<p>The Information Collection task represented the starting point for the development of STRAW. This began with an initial exploration for the security area aiming at preparing the works for the later tasks; this is the thematic extension of the project. This exploration undertook a common definition and scope of the “security” and how the associated elements (players, technologies and terms) were structured according to different approaches.</p> <p>In a subsequent step, the project defined an overall approach to retrieve data on Security technologies from the different entry points and to manage the quality, relevance, reliability, sensitiveness and innovativeness of the data provided. This definition applied a hybrid approach, combining a top-down strategy (from needs to security missions to technologies) with a bottom-up approach (from technologies to security missions). It also allowed for the dual use of technologies and the maturity of technological solutions and developments.</p> <p>The WP1 activity also included the implementation of a permanent online interface to automatically manage the information collection activity within the STRAW project. In particular, the project was developed as a proof-of-concept, which contributed to release tangible and intangible assets (i.e. front- and back-end tools, network and methodology) for active Technology Watch purposes.</p> <p>Finally, two information collection campaigns and an academic literature review on new and emerging ICT Security technologies were carried out.</p>		
WP2	Processing		
WP leader	THALES	Participants	ATOS, ED
Type of activity	SUPP		
Description	<p>As a back-office activity, the main WP2 objective was to prepare the global STRAW system architecture and to set-up the global information process. The STRAW proof-of-concept is able to format the collected information, analyze and arrange it in an indexation database.</p> <p>For that purpose, WP2 followed a “taxonomy mix” approach, combining previous STACCATO taxonomy, the structure of the WP1 questionnaires, and the definition of use cases for the three categories of stakeholders (academia, technology providers and end-users). The result was the definition of a concept map (composed of classes, sub-classes and name relations) that served for the core of the semantic processing tool of the Security Technology Watch.</p> <p>A subsequent step dealt with the ontology settlement, based on inputs from WP1 information, by using an Integrated Development Environment (IDE) editor editor to fill its thesaurus.</p> <p>The final step achieved the integration of the processing tool into the project website in order to offer a search engine enabling the user to perform faceted search.</p>		

WP3	Packaging		
WP leader	FHG	Participants	ATOS, THALES, INTA, ED
Type of activity	SUPP		
Description	<p>WP3 was concerned with the processing of information and preparing it for the delivery to the project’s target group and stakeholders. For this an information repository for internal and a separate one for the external use was created. While the first half of the project was marked by preparatory actions to establish the information repository(-ies), the second half of STRAW was more concerned with its actual implementation and integration with the project’s other public online deliverables.</p> <p>The main outcome of the project is the STRAWiki, a tool based on wiki software that will allow users constant updating of information also beyond the project duration. For structuring information in the repository, the work package had to analyze the different types of sources of information dealing with Security, how information had to be customized and categorized, and how the access to this information was going to be granted according to the participation in the community.</p> <p>This WP was also responsible for the production of the project sustainability plan.</p>		
WP4	Delivery		
WP leader	INTA	Participants	ATOS, ASD, SINTEF, FHG, INTA, ED, AETIC, FR, EOS
Type of activity	SUPP		
Description	<p>WP4 - Delivery was a threefold activity. It served:</p> <ul style="list-style-type: none"> - To raise awareness about the technology watch technology within the Security community and try to maximize the participation; - to support the information collection activity by retrieving relevant information; - and to create networking opportunities that helps strengthening the Security network. <p>Two events can be highlighted: the two STRAW workshops</p> <ul style="list-style-type: none"> - Italian Workshop. Held on 23rd June 2009 in Rome (Italy). - Spanish Workshop. Held on 9th March 2010 in Madrid (Spain). <p>The description of this activity is extended in Section 0</p>		

WP5	Panel Constitution & Operation		
WP leader	ATOS	Participants	ASD, THALES, FHG, INTA, ED, EOS
Type of activity	SUPP		
Description	<p>At the beginning of the project a panel of experts was established. WP5 mainly activity was to actively involve its members in tasks carried out by the consortium in relation to deliverables and activities done by WP1, WP2 and WP4:</p> <ul style="list-style-type: none"> - WP1: advice about the definition of the information collection activity and questionnaires, participation in both information campaigns and contribution to the activity with State of the Art on certain technologies. - WP4: dissemination of the project objectives and concepts, as well as participation in the two STRAW workshops. <p>This WP was also responsible for the production of the report on STRAW main results from the ETW activity and on recommendations for future priorities.</p>		
WP6	Project Management		
WP leader	ATOS		
Type of activity	MGT		
Description	<p>This WP contributed to the project at different levels (contractual, financial, administrative, organizational, communication and risk and quality assessment) in order to ensure the smooth and efficient running of the activities and achievement of project objectives.</p>		

Table 2: Brief description of activities

RESULTS OF THE PROJECT

The result of the previous activity is a proof of concept of an active technology tool to monitor what is relevant in the Security domain in terms of knowledge, experience and stakeholders, and to deliver this information to the right audience at the right time.

This is supported by the mentioned technology watch portal, search engine and own wiki (STRAWiki) that are available online at the project webpage (<http://www.straw-project.eu/>). This tool not only eases the information exchange, but also promotes the involvement of the different Security communities. In fact it is the Security community (or communities) who can make this solution active by taking up the STRAW results.

The following list shows all deliverables produced within the project. They contain wider descriptions of the specific results. All public deliverables are available at the project website: <http://www.straw-project.eu/?q=content/repository>

WP	Del no.	Title	Nature	Diss.Level
1	D1.1	Technology watch list	R	PU
	D1.2	Information gathering report	R	PU
	D1.3	Information gathering report Update	R	PU
2	D2.1	Taxonomy mix update and sustainability report	R	PU
	D2.2	Taxonomy validation and assessment report	R	PU
3	D3.1	STRAW Information repository	R	PU
	D3.2	Information customisation report	R	PU
	D3.3	STRAW Sustainability plan	R	PU
4	D4.1	STRAW Website	O	PU
	D4.2	STRAW Brochures	O	PU
	D4.3	STRAW Presentation	O	PU
	D4.4	Italian Workshop	R	PU
	D4.5	Spanish Workshop	R	PU
5	D5.1	Initial Security Experts list	R	PU
	D5.2	Panel of experts' terms of reference	R	PU
	D5.3	Report and recommendation for future priorities	R	PU
6	D6.1	Risk Identification and Management & Quality plan	R	CO
	D6.2	Midterm technical report	R	CO
	D6.3	Public final activity report	R	PU
	D6.4	Final management report	R	CO

Table 3: List of STRAW deliverables

2. Use and Dissemination of Foreground

Dissemination has been a crucial activity to achieve STRAW's objectives. All partners have actively collaborated to achieve an important presence of STRAW in events of different sectors and orientation. The presence of STRAW in those events have been diverse, including dedicated presentations, brochures and posters, discussions in working groups, paper submission, etc.

All dissemination material can be found at the project webpage: <http://www.straw-project.eu/?q=content/wp4-delivery>

2.1. Publications and papers

A paper was submitted and accepted in the conference “Security in Futures, Security in Change” organized by the Research Centre (FFRC) and the Finland Futures Academy (FFA) at the Turku School of Economics (see Section 2.2.2.)

- Title of the paper: “*STRAW Project: A European Technology Active Watch on Security technologies*”.
- Main authors: Pasic, Aljosa (ATOS); Iemma, Raimondo (FR); Blobner, Christian(FHG); Prieto, Elsa (ATOS)
- Year of publication: 2010
- Publisher: Research Centre (FFRC) and the Finland Futures Academy (FFA).

The paper was presented by ATOS during the mentioned conference on June 3rd 2010 at the parallel session “Technology and ICT”.

The paper will be published electronically in autumn 2010.

The book of abstracts can be found electronically at:

<http://www.futuresconference.fi/2010/Security-in-Futures-Abstracts.pdf>, retrieved 23-07-2010

An electronic copy of this paper can be found at the project website:

<http://www.straw-project.eu/sites/default/files/STRAW%20Project%20paper%20-%20A%20European%20Technology%20Active%20Watch%20on%20Security%20technologies.pdf>

2.2. Conferences, workshops and other events

2.2.1. STRAW Workshops

The STRAW consortium carried out two public workshops on relevant topics in security research. Both workshops produced valuable insights on the current state of and emerging issues in European security research and contributed to the reinforcement of the security network by means of their networking opportunities.

2.2.1.1. Italian Workshop

This first Workshop was held in the Centre for Higher Defence Studies (CASD, Centro Alti Studi per la Difesa), in Rome (Italy) on the 23rd of June 2009.

The Workshop's purpose was to introduce STRAW to the European Security Community and to provide the chance to major Security stakeholders to interact and share their vision on key emerging Security topics, such as Crisis Management and Ensuring Law and Order. It also represented an important occasion for STRAW to promote the involvement of Security players in support of the network that the project intends to generate.

2.2.1.2. Spanish Workshop

This second Workshop was held in the (INTA, Instituto Nacional de Técnica Aeroespacial), in Madrid (Spain) on the 9th of March 2010.

The Workshop was organized not only with the purpose of presenting the STRAW results and tools to the European Security Community, but also to provide the chance to major Security stakeholders to interact and share their vision on Integrated Border Management and Critical Infrastructures Protection.

All presentations, as well as the workshop reports, can be found at STRAW webpage: <http://www.straw-project.eu/?q=content/wp4-delivery>

All presentations at the STRAW Spanish workshop were uploaded at a dedicated Youtube channel, so that they are available for future watching. <http://www.youtube.com/user/euSTRAW>

2.2.2. *STRAW presentation at conferences*

This is the list of events with STRAW presence:

- “4th General Assembly – Plataforma Tecnológica Española de Tecnologías para la Seguridad y la Confianza” León (Spain). October. 21st 2008
<http://www.cdti.es/recursos/eventosCDTI/1335.pdf> retrieved 23-07-2010
- International Workshop on Security and Communication Networks (IWSCN'09), Trondheim (Norway). May 20-22th, 2009.
<http://www.q2s.ntnu.no/iwscn2009> retrieved 23-07-2010
- “5th National Meeting ESRIF” Madrid (Spain). May 22nd 2009.
- 2nd Conference of the Italian National Security Observatory (OSN) on “National Security: Operational Synergy” Roma (Italy), June 24th 2009
http://www.difesa.it/NR/rdonlyres/01C5E93C-EF10-4A07-A5AD-F1EE175FE75B/18228/INVITO_programma24giugno.pdf retrieved 27-10-2009
- The Fourth International Conference on Internet Monitoring and Protection(ICIMP09) Trondheim (Norway) May 20th 2009,
<http://www.iaria.org/conferences2009/CfPICIMP09.html> retrieved 23-07-2010
- Workshop “Wide Area Surveillance”. Organized by Project CRESCENDO at Borschette Building. Brussels (Belgium). March 12th 2010.
<http://www.crescendo-project.org/scripts/home/publigen/content/templates/show.asp?P=129&L=EN&SYNC=Y> retrieved 20-06-2010.
- Conference “Security in Futures, Security in Change”. Organized by Finland Futures Research Centre (FFRC) and Finland Futures Academy (FFA) at the Turku School of Economics (Turku, Finland). June 3rd-4th 2010.

<http://conference2010.wordpress.com/programme/workshop-presentations/> retrieved 30-06-2010

2.3. External Collaborations

STRAW established contacts with several projects or initiatives. STRAW partners did a considerable work exploring their network of contacts to find the potential collaborations to maximise the project's impact. The project website and dissemination material have been very useful tools to support these activities. However our main success relies on face-to-face communications and the effort invested in the Spanish ESRIF group (hosted by INTA).

Due to the potential synergy, there was a major effort to cooperate with Project CRESCENDO (*Coordination action on Risks, Evolution of threatS and Context assessment by an Enlarged Network for an r&D rOadmap*): <http://www.crescendo-project.org>. In spite of STRAW proposal of joint activities, unfortunately this cooperation was finally reflected in the mentioned presentation of STRAW at the WAS workshop.

The following list summarizes the collaboration with other European R&D projects:

- Participation as speakers in STRAW workshops:
 - Project DEMASST (Demo for mass transportation security: roadmapping study): http://www.foi.se/FOI/Templates/ProjectPage___7574.aspx
 - Project eCID (enlightened Critical Infrastructures Defense): <http://ecid.es/>
 - Project GLOBE (Global Border Environment): <http://globe.ti-projects.com/>
 - Project INTEGRA (investigación en tecnologías para la gestión de la migración): <http://www.s21sec.com/integra/integra.html>
 - Project ODYSSEY (Strategic Pan-European Ballistic Intelligence Platform for Combating Organised Crime & Terrorism): <http://odyssey-project.eu/>
 - Project SICMA (Simulation of Crisis Management Activities): <http://www.sicmaproject.eu/SicmaProjectSite2008/>
 - Project VIKING (Vital Infrastructure, Networks, Information and Control Systems Management): <http://www.vikingproject.eu/>
 - Project WIMA2S (Wide Maritime Area Airbone Surveillance): <http://www.wimaas.eu/>
- Participation in the posters session at STRAW Spanish Workshop
 - Project BESECU (Behaviour Security and Culture): <http://www.besecu.de/>
 - Project CENIT SEGUR@ (Seguridad y Confianza en la Sociedad de la Información): <https://www.cenitsegura.com/cenit/>
 - Project COCAE (Cooperation Across Europe for CdZn Based Security Instruments): <http://www.cocae.eu/>
 - Project DETECTER (Detection Technologies, Counter-Terrorism Ethics, and Human Rights): <http://www.detecter.bham.ac.uk/>
 - Project DITSEF (Digital & Innovative Technologies for Security & Efficiency of First responder operations): <http://www.ditsef.eu/>

- Project ESCORTS (Security of Control and Real Time Systems): <http://www.escortsproject.eu/>
- Project ESS (Emergency Support System): <http://www.ess-project.eu/>
- Project ISTIMES (Integrated System for Transport Infrastructures surveillance and Monitoring Electromagnetic Sensing) : <http://www.istimes.eu/>
- Project LIMES (Land and Sea Monitoring for Environment and Security): <http://www.fp6-limes.eu/>
- Project NMFRRDISASTER (Identifying the Needs of Medical First Responders in Disasters): <http://www.ambulancezorg.nl/EN/beleid/Pages/default.aspx>
- Project ODYSSEY (Strategic Pan-European Ballistic Intelligence Platform for Combating Organised Crime & Terrorism): <http://odyssey-project.eu/>
- Project OPTIX (Optical Technologies for the Identification of explosives): <http://www.fp7-optix.eu/>
- Project PARSIFAL(Protection and Trust in Financial Infrastructures): <http://www.parsifal-project.eu/>
- Project SAFE-COMMS (Counter Terrorism Crisis Communication): <http://faculty.biu.ac.il/~sshpiro/index.html>
- Project SERON (Security of road transport networks): http://portal.tugraz.at/portal/page/portal/TU_Graz/Einrichtungen/Institute/i2020/Forschung/Aktuelle%20Forschungsprojekte/Seron
- Project SICMA (Simulation of Crisis Management Activities): <http://www.sicmaproject.eu/SicmaProjectSite2008/>
- Project SUBITO (Surveillance of Unattended Baggage and the Identification and Tracking of the Owner.): <http://www.subito-project.eu/>
- Project TALOS (Transportable Adaptable Patrol for Land Border Surveillance): <http://www.talos-border.eu/>
- Project WIMA2S (Wide Maritime Area Airborne Surveillance): <http://www.wimaas.eu/>

2.4. Future plans

Though the consortium activity ends with the project conclusion, the sustainability plan presented in D3.3 lays the foundations for further activities, including a possible follow-up by any interested Security community.

As specific sustainability achievement, Atos Origin and the company ESD Partners signed an agreement on the exploitation of STRAW portal.

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