Sharing and Automation for
Privacy Preserving Attack Neutralization

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D7.12 Dissemination Plan and Report (M12)

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Executive Summary

In the initial iteration of this report at Month 3, four different target groups have been identified:

1. Network operators and managers
2. The research and development (R&D) community in academic, governmental and industry organizations
3. Small and midsize businesses (SMEs)
4. The general public

Because there is no deliverable for communication activities, this report will not only focus on dissemination, but also mention some communication activities. These include, for example, communication via social media to gain public attention for the project, without going too deep into scientific or technical details. The dissemination and communication plan of SAPPAN includes the availability of project concepts, results, news, and deliverables on the project website, publication of research results in related journals and conferences, participation in commercial fairs and organization of workshops, as well as spreading information to target audiences via social media channels (such as Twitter, LinkedIn, and YouTube). The current iteration of the deliverable is a report on updates of dissemination plans and progress of dissemination and communication activities during the first year of the project. The dissemination plan and report will have annual updates during the lifetime of SAPPAN project.

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1 Introduction

Dissemination is a key enabler for the success of any project, and the consortium members are fully committed to the dissemination of the project results. The objective of having a periodic dissemination plan and report during the project life cycle is to ensure that the vision, activities, and results of the project become as widely known and understood as possible from a scientific, technical and commercial point of view and among potential end-users. Some of the main objectives of dissemination and communication tasks are presentations at dedicated events like national or international conferences, generation of print and digital marketing materials, establishing communication channels such as social media, implementation of the project website to disseminate and communicate the objectives and results of SAPPAN to increase the project's impact.

This document lists the dissemination and communication plan of SAPPAN and reports on the dissemination tasks done during the first 12 months of the project, for both the general approach of the consortium and each partner, separately. Because there is no individual deliverable for communication activities, this report will not only focus on dissemination, but will also mention some communication activities. Dissemination and communication are horizontal activities of the SAPPAN project, in order to disseminate the concepts, vision, goals, and results of the project. The current document is the first follow-up of the initial dissemination plan from M3, as well as the first yearly report on dissemination and communication activities. During the remaining lifetime of the SAPPAN project, the dissemination plan and report will be revisited and updated at M24 and M36.

The rest of this document is organized as follows: Section 2 describes the general approach of the project regarding dissemination and communication. Section 3 lists changes in the dissemination plan since the initial version of the document at M3. Then, section 4 reports finished and ongoing activities of each partner at their current status.

2 General Dissemination and Communication Activities

In the past 12-month period, several dissemination and communication activities took place to reach the different target groups that have been identified in the first iteration of the dissemination report at M3.

In order to reach the groups 1 and 2 (Network operators and managers and the research and development (R&D) community in academic, governmental and industry organizations), a joint workshop with the SOCCRATES consortium is planned in association with 15th International Conference on Availability, Reliability and Security (ARES 2020). SOCCRATES is another EU H2020 project working on automation of response to attacks and threats. The workshop has been proposed and accepted with the name International Workshop on Next Generation Security Operations Centers (NG-SOC 2020). The workshop is planned to be held from 25th to 28th of August 2020 at the University College Dublin if the schedule will not be affected by the SARS-CoV-2 pandemic.

As our communication approach, the website has been reworked and social media accounts (a Twitter account and a LinkedIn group) have been created to reach the

general public, interested domain experts and potential stakeholders such as small and midsize businesses.

Communication activities, their goals and current progress of them are provided in the following table:

Communication activity	Goal	Progress
Project website		
Project website	The website of the project provides a platform on which all relevant information will be presented, including the goals of the project, public deliverables, promotional material, and links to events related to the project. The website will be available for at least ten years after completion of the project.	• Created and online since M4 • Is currently being reworked • Will be regularly updated with information on project progress, news, events, and results • Public deliverables will be available online after receiving confirmation from the EC
Events and presentations		
At least 5 events	At least 5 events to foster new requirements from stakeholders and to inform them about the results of the project.	**Done:** • SAPPAN presentation at 58th TF-CSIRT Meeting • Brief SAPPAN introduction at the 2019 International Summer School on Machine Learning and Security • Presentation on overview of the SAPPAN project and data sharing in SAPPAN at Fraunhofer FIT Scientific End of the Year Event 2019 • SAPPAN-SOCCRATES networking event **Planned:** • A joint workshop with the consortium of the H2020 project SOCCRATES at ARES in August 2020 is planned (NG-SOC 2020)
Final presentation event	The consortium will prepare a final event to present the results of the project. We will invite representatives from both public and private organizations, as well as EU Commission representatives	-
Publications		
At least 6 publications in specialized scientific publication channels	The publication of articles and newsletters in specialized and general press about the objectives and the results of SAPPAN. We will present the results in relevant business and technological development fairs and produce journal papers in relevant peer reviewed journals, conferences and workshops.	Topics of planned publications: • CESNET: Experimental research in the field of DGA data sets and detection • FIT: Knowledge formalization of response and recovery actions • RWTH and MU: Endpoint profiling and anomalous behavior detection • RWTH: DGA detection classifiers, enhancing their detection capabilities and analyzing their real-world applicability including

		explainability, robustness against adversarial attacks, generalization capability and real-time capability • RWTH: Phishing certificate detection • USTUTT: Prototypical process tree visualization and the visualization for DGA detection models
2 publications in more general press		-
4 technological fairs		-
Social media		
Twitter	500 followers	• Account has been created in January 2020: https://twitter.com/SAPPAN_H2020 • 22 followers
LinkedIn	200 members	• LinkedIn group has been created in January 2020
YouTube	5 videos	• YouTube channel has been created, but no videos have been produced and uploaded yet
GitHub	Source code that can be made public needs to be publicly accessible on GitHub.	-

3   Changes of the Dissemination Plan

In this section, all changes to the dissemination plan since its most recent iteration are listed with a brief justification of why the change has been done.

The following table will be extended in future iterations of the report.

Organization	Change	Reason
Changes for the M12 iteration		
-	-	-

There are no changes regarding the dissemination strategy during the reporting period. However, we anticipate a high chance of changes to the dissemination strategy due to the current SARS-CoV-2 pandemic.

4   Organization-specific Report of Dissemination Activities

4.1   CESNET

Finished dissemination activities:

The following dissemination activities were finished in the current reporting period:

- Promoting SAPPAN activities through CESNET's twitter account
- Joint meeting with the SOCCRATES project in Helsinki

Work done in the current reporting period for future dissemination activities:

The following works were done in the current reporting period for future dissemination activities:

- Proposal to affiliate some SAPPAN activities with the SPARTA project
- Experimental research in the field of DGA data sets and detection which will result in a conference publication

4.2   Dreamlab Technologies

Finished dissemination activities:

No dissemination activities have been carried out within the last period of the project, however, the plan is still to follow the activities as stated in the first iteration of the dissemination plan.

Work done in the current reporting period for future dissemination activities:

Dreamlab shared ideas to contribute with specific talks to the workshop held at the ARES conference in August 2020, with the following topics: Anonymizer Networks and Intelligence Services (sanitized intelligence data as a service from various sources). Dreamlab aims to participate in the joint workshop SAPPAN - SOCCRATES (NG-SOC 2020) in association with the ARES 2020.

4.3   Fraunhofer FIT

Finished dissemination activities:

The following dissemination activities were finished in the current reporting period:

- Project website (as deliverable D7.10) has been designed and is available online at: https://sappan-project.eu/
- Presentation on overview of the SAPPAN project at Fraunhofer FIT Scientific End of the Year Event 2019
- Presentation on data sharing in SAPPAN at Fraunhofer FIT Scientific End of the Year Event 2019
- SAPPAN Twitter account has been created to spread the news and information about the progress of the project.
- LinkedIn group for SAPPAN project has been established.
- Increasing the visibility of the project to domain experts by the availability of SAPPAN info on Cyberwatching Project Hub. Link: https://cyberwatching.eu/projects/1807/sappan
- Joint meeting with SOCCRATES project in Helsinki

Work done in the current reporting period for future dissemination activities:

The following works were done in the current reporting period for future dissemination activities:

- A joint workshop proposal with the consortium of the H2020 project SOCCRATES (International Workshop on Next Generation Security Operations Centers, NG-SOC 2020) has been accepted to be held in conjunction with

ARES 2020. It is currently scheduled for August 2020, if the SARS-CoV-2 pandemic allows for it to take place. Link: https://www.ares-conference.eu/workshops-eu-symposium/ng-soc-2020/

- The deliverables on the knowledge formalization of response and recovery actions and their triggers (D4.1, D4.2, D4.3) might be the basis for future publications.
- A new design for the website proposed by MU will be available soon. The website will be continuously updated with information on the project progress, events, and materials.

4.4 F-Secure

Finished dissemination activities:

- The talk at Slush 2019 by Mikko Hyppönen (21.–22.11.2019). Slush is a very popular annual event for European and Asian tech startups and talent to meet with top-tier international influencers, investors, and media. Mikko talked about an F-Secure's initiative called Blackfin, in the framework of which the SAPPAN activities are carried out at the company, in particular, including methods of distributed learning for detecting attacks and ML methods for supporting response operations.
- A whitepaper on the Blackfin initiative has been published: https://www.f-secure.com/en/about-us/research/project-blackfin
- A blog post in F-Secure's Security Blog: https://blog.f-secure.com/project-blackfin-has-launched-how-did-we-get-here/

Work done in the current reporting period for future dissemination activities:

F-Secure is planning to give a talk at the joint SAPPAN-SOCCRATES workshop at ARES (August 25 – August 28, 2020) on the work done in the project. The speaker and the exact topic will be selected soon.

4.5 Hewlett Packard Enterprise

Finished dissemination activities:

No dissemination activities have been carried out during this reporting period.

Work done in the current reporting period for future dissemination activities:

No work has been carried out during this reporting period.

4.6 Masaryk University

Finished dissemination activities:

The following dissemination activities were finished in the current reporting period:

- 58th TF-CSIRT Meeting (15-18 September 2019, Paphos, Cyprus): Presentation of the SAPPAN project to the CSIRT community
  - Spreading knowledge about SAPPAN and its ideas to the relevant community
  - Collection of feedback from the discussion with the community
  - Detailed information and presentation material are provided in deliverable D7.7.
- Joint meeting with the SOCCRATES project in Helsinki
- Proposal of the new design of the SAPPAN project web presentation

Work done in the current reporting period for future dissemination activities:

The following works were done in the current reporting period for future dissemination activities:

- Several tweets about the events happening in the SAPPAN project
- Proposal for the joint workshop with SOCCRATES held in association with the 15th International Conference on Availability, Reliability and Security (ARES 2020)

4.7 RWTH Aachen University

Finished dissemination activities:

The following dissemination activities were finished in the current reporting period:

- Participation in the Summer School Machine Learning and Security (9-13 September 2019, Padova, Italy): Discussed and presented SAPPAN to others interested in machine learning and security. Detailed information and presentation material are provided in deliverable D7.7.
- Participation in a joint meeting with the SOCCRATES project in Helsinki

Work done in the current reporting period for future dissemination activities:

The following works were done in the current reporting period for future dissemination activities:

- Preparation of talks for a joint workshop with SOCCRATES (NG-SOC 2020) at the ARES 2020 conference
- Performed research on DGA detection classifiers, enhancing their detection capabilities and analyzing their real-world applicability including explainability, robustness against adversarial attacks, generalization capability and real-time capability. Additionally, the class imbalance problem is under analysis for this showcase. This work as well as the work on phishing certificate detection will serve as basis for future publications.
- Preliminary planning was done towards a scientific publication regarding endpoint profiling and anomalous behavior detection (cooperation between RWTH and MU).

4.8 University of Stuttgart

Finished dissemination activities:

Participation in a joint meeting with the SOCCRATES project in Helsinki has been done.

Work done in the current reporting period for future dissemination activities:

The current activities with regard to the prototypical process tree visualization and the visualization for DGA detection models are the basis for future publications.

5 Conclusion

This report is a follow-up iteration of D7.11 at M3 and does include dissemination activities done in the first 12-month period of the project. The dissemination plan and

report also includes communication activities. In this report, the progress of the general dissemination and communication activities is given.

The communication activities based on the plan are categorized into four groups: project website, events and presentations, publications, and social media activities. The SAPPAN-related presentations at the 58th TF-CSIRT Meeting, the 2019 International Summer School on Machine Learning and Security, the Fraunhofer FIT Scientific End of the Year Event 2019, and the SAPPAN-SOCCRATES networking event were the main communication activities done so far. Also, the project website, a Twitter account, and a LinkedIn group have been created due to the dissemination of project concepts, news, and results. Besides, the initial research works that might lead to future publications are listed by organizations.

Furthermore, any changes in the dissemination plan and its reasons would be listed in a section of the dissemination report which will be extended in the future iterations of the document. There are no changes regarding the dissemination strategy so far. However, it is currently considered to be likely that changes to the dissemination strategy will need to be applied in the future, due to the SARS-CoV-2 pandemic. In the last section, dissemination activities from each organization are reported.