LOCARD

DELIVERABLE

D1.2 Project Vision

Project Acronym:	LOCARD	
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Revision History

Revision	Date	Author	Organization	Description
0.1	28/06/2019	Constantinos Patsakis	ARC	Initial draft
0.2	10/7/2019	Constantinos Patsakis	ARC	Integration of partner comments
0.3	15/7/2019	Constantinos Patsakis	ARC	Integration of comments after internal review
1.0	31/7/2019	Constantinos Patsakis	ARC	Final version

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

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1 Executive Summary

The goal of this deliverable is to establish the vision on what the consortium considers that LOCARD is, the role that they want it to play in the future. Therefore, this deliverable sets the main goals of the project, both short and long-term and serves as a baseline for its future development.

2 Project Vision

Modern cybercrime has been transformed into a global underground economy. Moreover, due to the wide digitalization of our lives, most forms of crimes involve, in some sense; e.g. communication between two parties, digital means ranging from handheld devices to desktop computers, and from IoT devices to mainframes. As a result, digital forensics has emerged as a need for most forensics labs, and on many occasions, they can derive the only evidence for a case. Nevertheless, digital forensics is not necessarily tied only to law enforcement authorities and their investigations, but they are also linked with security consultants and security firms. The common objective of all the above is that all the aforementioned stakeholders need to have transparency throughout their processes as digital evidence are malleable and depending on the method, they are collected they can even be destroyed or lost.

LOCARD aims to address this challenge by providing a two-dimensional approach. Horizontally, LOCARD wants to provide a platform that offers a transparent and auditable log of the chain of custody of digital evidence. Therefore, it will automate the processes of collecting digital evidence, managing it, creating the proper reports and allowing only the needed roles/personnel to access them. Vertically, LOCARD will integrate the proposed solution in a secure and forensically sound manner.

To achieve these goals, the consortium of LOCARD envisions specific short-term and long-term objectives which are highlighted in the following table.

Short-term vision
• Introduce novel tools and methodologies for the collection of digital evidence from mobile devices, the cloud, and data streams.
• Develop tools to detect deviant online behaviour.
• Facilitate the process of LEAs and security consultants in collecting digital evidence.
• Initiate the in-depth discussion for the exchange of digital evidence between LEAs with EU.
• Discovery of truly malicious online activity with LOCARD.
• Dissemination of the contacted research in highly ranked venues (journals and conferences)

Long-term vision
• Use of LOCARD to collect digital evidence about perpetrators in sensitive and demanding cases
• Become the standard solution for the management of the chain of custody of digital evidence from LEAs and forensics labs.
• Use of LOCARD reports in EU courts.
• Adoption of deviant behaviour mechanisms from major social networks/media.
• Initialization of a serious criminal case from a crowdsourced report using LOCARD.
• Intermediation of LOCARD for the coordinated discovery of a malicious campaign by individual forensic labs.
• Decrease of dependency of EU forensic labs for forensic tools outside EU.