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EVIDENCE2E-CODEX

**Linking EVIDENCE into e-CODEX for EIO
and MLA procedures in Europe**

**Interim workshop with digital forensic and legal
experts on the formal language for the evidence
exchange representation**

Deliverable D3.1

The contents of this deliverable are the sole responsibility of the authors and can in no way be taken to reflect the views of the European Commission.



Executive Summary

This Deliverable, D3.1 “Interim workshop with digital forensic and legal experts on the formal language for the evidence exchange representation” (hereinafter “Deliverable D3.1”) reports on the Interim workshop, held in The Hague on 20-21 of November 2018.

The organization of the workshop is part of the activities of the Task 3.1 “*Refining standard EVIDENCE proposal for the representation of the evidence data in the Exchange process*”, within the Work Package WP3 “*Matching EVIDENCE into e-CODEX and linking to other EU Member States*” whose main goal consists in integrating the formal language UCO/CASE, for representing and supporting the Electronic Evidence Exchange process in an electronic evidence platform based on e-CODEX architecture.

During the event, digital forensic and legal experts discussed on the following topics:

- the adoption of the formal language UCO/CASE, an open community developed specification language, to represent the meta data of an evidence; and
- the evidence exchange scenario including solutions to address the exchange of large file of evidence;

on the basis of what have been developed so far within the activities of the project.

The meeting took place during two days, in the first day and part of the second day, it put the focus on the subject of the present Deliverable, the second day was dedicated to the subject of the Deliverable D3.2 ‘*Interim workshop on Electronic Evidence Standard Proposal application with digital forensic and legal experts*’. The two workshops have been merged because the subjects are strictly interconnected. The content of the second day will be described in detail in the Deliverable D3.2.

The content of this Deliverable D3.1 is the following:

- Section 1 explains the Workshops’ aims and shows the Workshops’ agenda;
- Section 2 contains a description of the items foreseen in the Workshops’ agenda:
 - Sub-sections 2.1 - 2.6 contain what has been presented in the session ‘The formal language (UCO/CASE) for the Evidence Exchange



- (Evidence Package)'. These sub-sections also contain a detailed description of the concepts involved: overview of the Evidence Exchange Scenario (2.1), Evidence Exchange Questions (2.2), Evidence Exchange Real Scenario (2.3), standard for the Evidence Exchange (2.4), introduction to UCO/CASE language (2.5), and use cases and UCO/CASE representation (2.6);
- Sub-section 2.7 briefly describes the item 'e-CODEX method for semantic interoperability' by the Ministry of Justice of The Netherlands;
 - Sub-section 2.8 illustrates the item 'Hansken: vision statement' by the Netherlands Forensic Institute;
 - Sub-section 2.9 reports on the item 'UCO/CASE language standard: why?', portraying tools, caseGenerator and caseConverter, developed for internal use for the sake of the project;
 - Sub-section 2.10 explains the item 'e-Evidence Exchange System project and Reference Implementation' by the European Commission;
 - Sub-section 2.11 depicts the item 'UCO/CASE: Overview of the status and the future of the standard'
 - Sub-section 2.12 outlines the item 'The SIRIUS project' by EUROPOL;
 - Sub-section 2.13 delineates the item 'Judicial cooperation overview' by EUROJUST;
 - Sub-section 2.14 describes the item 'Debate on UCO/CASE: doubts, issues, improvements the way forward';
 - Sub-section 2.15 describes the item 'How the Exchange may take place within the EIO: handling of large file of evidence';
 - Sub-section 2.16 explains the item 'How the Exchange may take place within the EIO: overview and role of the e-Codex components';
- Section 3 summarizes the conclusion of the work;
 - Section 4 contains the following Appendixes:
 - Use Case A (4.1) expressed in UCO/CASE in JSON-LD format;
 - Use Case B (4.2) expressed in UCO/CASE in JSON-LD format;
 - Use Case C (4.3) expressed in UCO/CASE in JSON-LD format;
 - Use Case D (4.4) expressed in UCO/CASE in JSON-LD format;

- Use Case produce by the caseConverter application in UCO/CASE in JSON-LD format.
- Section 5 shows the list of participants; while
- Section 6 shows the questionnaire hand-delivered to the participants along with a summary of their answers.

Participants of this workshop represented various stakeholders and experts from digital forensics and legal domains and software companies developing forensics tools, such as Cellebrite¹ that is also part of the Expert Advisory Group of the project and Magnet Forensics². Both of them had already showed interest in adopting this standard to produce the output of their tools fully complied with the UCO/CASE language formalism.

¹ <https://www.cellebrite.com>

² <https://www.magnetforensics.com>

