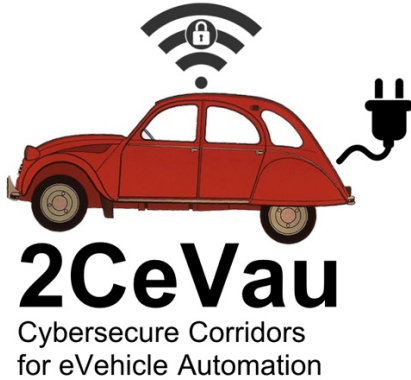


2CeVau - ACTIVITY 5



Cybersecure Corridors for eVehicle Automation

Abstract

2CeVau (Cybersecure Corridors for eVehicle Automation) is a CEF Telecommunication Sector funded project. 2CeVau will develop cybersecurity capabilities for connected vehicles in the context of a complete risk and hazard analysis (threats, vulnerabilities, attacks and countermeasures) focusing on use cases for the "Thessaloniki, Sofia, Belgrade (GR-BG-SRB)" 5G cross-border corridor. It will examine the corridor as a unified set of services, hardware and software components with possible multi-standard, multinational variations exposed to cyber threats. Following this analysis, it will develop a Security Assessment Tool that will increase preparedness for relevant software and hardware components and will facilitate CSIRTs to assess, audit and report security issues for the 5G corridor.

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V0.5	28/07/2021	UPRC	Final draft

Executive Summary

This report, entitled "Report on CCAM-related activities of the 2CeVau project" specifies the activities that were carried out by the project partners in order to participate in the CCAMs events/forums that are organised by the EU every year.

2CeVau: "Cybersecure Corridors for eVehicle Automation" is a CEF Telecommunication Sector funded project. 2CeVau develops cybersecurity capabilities for connected vehicles in the context of a complete risk and hazard analysis (threats, vulnerabilities, attacks and countermeasures) focusing on use cases for the "Thessaloniki, Sofia, Belgrade (GR-BG-SRB)" 5G cross-border corridor. It examines the corridor as a unified set of services, hardware and software components with possible multi-standard, multinational variations exposed to cyber threats. Following this analysis, it will develop a Security Assessment Tool that will increase preparedness for relevant software and hardware components and will facilitate CSIRTs to assess, audit and report security issues for the 5G corridor.

The 2CeVau consortium consists of three eligible partners, involving two prestigious ICT research institutes, i.e. University of Piraeus Research Center – UPRC and Institute of Communication and Computer Systems - ICCS and the Hellenic Ministry of Digital Governance (HMDP). 2CeVau is a 24-month project divided in 5 major Activities.

The description of the work in this report is categorized in Activity 5: "Dissemination and Exploitation Activities".



CCAM-related Activities by the 2CeVau project

In the course of the project, Dr. Konstantinos Maliatsos (the Technical Manager of 2CeVau) has become member of the EU CCAM-Single Platform, as an invited expert for WG5 "Access to and exchange of data & Cyber-security". The EU CCAM-Single Platform groups all relevant public and private stakeholders to coordinate open road testing of CCAM and make the link with pre-deployment activities Joint activity of DG MOVE, DG CNECT, DG GROW and DG RTD Continuous open

The invitation was forwarded by Babis Tsitlakidis (Programme Officer for EU – DG CNECT) to the 2CeVau project manager Prof. A. Kanatas, who subsequently proposed the participation of the 2CeVau technical manager at the work group. (Attachment 1: invitation for participation, Attachment 2: registration as a member at EU CCAM-Single Platform.

It is also noted that Dr. Angelos Amditis, who is Research Director in the ICCS (2CeVau Partner), was already a member of the EU CCAM-Single Platform and also participated in the activities of WG5 among others.

As members of the EU CCAM-Single Platform, Dr. Konstantinos Maliatsos participated as 2CeVau representative at 5 meetings:

- 3 December 2019, Brussels, Belgium (Dr. Maliatsos – UPRC)
- 5 May 2020, online (Dr. Maliatsos – UPRC)
- 24 June 2020, online (Dr. Maliatsos – UPRC)
- 15 October 2020, online (Dr. Maliatsos – UPRC)
- 10 December 2020, online (Dr. Maliatsos – UPRC)

The agendas of the meetings are provided in Attachment 3. All meetings, but the meeting on 3/12/2019 were virtual due to the Covid-19 outbreak. In the course of the meetings, the 2CeVau members did the following contributions:

- Presentation of the 2CeVau project at the physical meeting on 3/12/2019. The presentation was done in the plenary of WG5 with an audience of more than 60 people. (Attachment 4 - 2CeVau_Overview_031219.pptx)
- Contribution with the provision of project information for the "Testing and pre-deployment activities Matrix" compiled by EU CCAM Single Platform in an attempt to



register all EU-level research projects that work on evaluating, validating, and demonstrating CCAM technologies. Information for two projects were provided (2CeVau and SAFERtec).

- Contribution at the writing and editing of the CCAM Scoping Paper from Dr. Angelos Amditis of ICCS – also representing the Hellenic Ministry of Infrastructure and Transport (Attachment 5 – CCAM Scoping Paper WG5_A.Amditis Greek Ministry of Infrastructure and Transport.docx). The compilation of the scoping paper was a central goal for WG5, since it had the aim to present a summary of information relevant for the discussion of the working group, and its work plan and support the definition of objectives and priorities for a future EU agenda for research, testing and pre-deployment of Connected, Cooperative and Automated Mobility (CCAM).

Through 2CeVau participation in WG5 of the CCAM Single Platform, our consortium received useful insights and learnings on how testing and pre-deployment activities can be used to ensure security, to identify how secure exchange of V2X data may be, to find common understanding addressing issues in access, transfer, sharing, use and storage of data from vehicles in the CCAM environment. Through the involvement in WG5, 2CeVau has access to concepts and issues, that evolve CCAM and were not in the initial project plans, like:

- The extended vehicle and the need for reliable and secure cloud services in this context.
- Policy issues regarding data ownership, data access rights, data exchange possibilities etc., and the interesting debates between technology providers, service providers and OEMs.
- The formal taxonomy and definition of connected, cooperative and automated mobility.
- The state of the art in terms of projects, standards, testbeds and platforms for connected, cooperative and automated mobility.
- The future steps in the evolution of CCAM.

The 2CeVau members will continue to follow the progress of WG5 EU CCAM-Single Platform, if it continues (currently and after the completion of the scoping paper, it has been in hiatus).

