



Refined project requirements for semi automation

D2.2

Publishable Executive Summary

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1 Publishable Executive Summary

Cyber-Physical-Systems (CPS) provide the potential for vast economic and societal impact in domains such as automotive, health care and home automation. The open and cooperative nature of CPS poses a significant new challenge in assuring dependability. The DEIS project¹ addresses this important and unsolved challenge by developing technologies that enable a science of dependable system integration. A key innovation is the concept of the Digital Dependability Identity (DDI). A DDI contains all the information that uniquely describes the dependability characteristics of a CPS or CPS component. DDIs are used for the integration of components into systems during development as well as for the dynamic integration of systems into systems of systems in the field.

This deliverable includes the second iteration of refined project requirements regarding the semi-automated synthesis of dependability assurance cases and DDIs. These high-level project requirements constitute the basis for the development carried out within the DEIS project. Due to the characteristics of the DEIS project, a third evolution and refinement of the set of requirements is expected during its execution.

The core of this deliverable, the requirements are organized around the following topics:

- Mapping of the requirements of innovation cycle 1 (D2.1) to the use-cases in Section **Error! Reference source not found.**
- Overview of evolution of the requirement from innovation cycle 1 to innovation cycle 2
- Mapping of all requirements to engineering stories (refined use-cases)
- Prioritization of requirements
- Requirements for the general specification of modular DDIs (content of DDI)
- Requirements regarding the exchange of DDIs
- Requirements for the DDI tooling support needed

¹ www.deis-project.eu
