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Specification of high level system architecture

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1) **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

2) **PU** = Public, **PP** = Restricted to other programme participants, **RE** = Restricted to a group specified by the consortium, **CO** = Confidential, only for members of the consortium

Executive summary

This document describes the system architecture of the SOMMACT solution, identifying its specific functional requirements, applicability and standardization issues.

The architecture description here proposed is a formal definition of the system modules, their interfaces and their mutual interactions that is meant to provide a reference for the detailed implementation of the internal logics and data flows, and to provide a reference for sensor(s)/artefact systems development.

This document defines the requirements for creating a conformant implementation of the system.

While the proposed architecture does not specify the details for each single implementation, it does establish guidelines that must be observed in making implementation choices.

Chapter 2 provides a short overview of the high level modules that constitute the system architecture, with a description of their main functional specifications.

Chapter 3 describes and specifies interfaces between modules in terms of data exchange, frequency and reliability constraints.

Chapter 4 specifically addresses the demonstrator hardware architecture with the description and specification for relevant interfaces.

Chapter 5 provides sensors and sensors systems interface specifications and requirements that shall guide relevant research and development work.

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