p

Deliverable D1.3 – Architecture Document

Executive Summary

This report is the culmination of 30 months of design of the DOME 4.0 platform. What is included here is the summary of the architecture of the DOME 4.0 platform available at https://dome.the-marketplace.eu. The report discusses the different fundamental aspects of the overall design of the platform. The specific details (such as provenance, brokers, connectors, etc.) about the different components that constitute the platform are described in other deliverables. In addition to the overall architecture of the platform, more general aspects, such as design considerations, are covered. Since the DOME 4.0 ecosystem aims to be a platform of platforms, a discussion on how DOME 4.0 fits with the existing platform models is also included.

Acknowledgement

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

Project partners:

#	Type	Partner	Partner full name
1	SME	CMCL	Computational Modelling Cambridge Limited
2	Research	FHG	Fraunhofer Gesellschaft zur Förderung der Angewandten Forschung E.V.
3	Research	INTRA	Intrasoft International SA
4	University	UNIBO	Alma Mater Studiorum – Universita di Bologna
5	University	EPFL	Ecole Polytechnique Federale de Lausanne
6	Research	UKRI	United Kingdom Research and Innovation
7	Large Industry	SISW	Siemens Industry Software NV
8	Large Industry	BOSCH	Robert Bosch GmbH
9	SME	UNR	Uniresearch B.V.
10	Research	SINTEF	SINTEF AS
11	SME	CNT	Cambridge Nanomaterials Technology LTD
12	University	UCL	University College London