

Deliverable D2.1 – "Technical requirements for data tools and services"

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Project Profile

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Executive Summary

This document represents a snapshot of the requirements gathering performed for the tools and services being developed in work package 2. The approach adopted has been that of collecting user stories followed by elucidation of technical requirements, with a particular focus on enabling the implementation of the various showcases. To date, we have collected eighty (80) separate user stories and requirements covering the five principal tools and services being developed. In addition, this exercise has helped to identify interactions with other work packages and services (such as the authentication and authorisation service), all of which has been thoroughly documented and used to define clear interfaces to maximise the amount of development that can be performed in parallel, prior to later integration. Overall, this requirements gathering effort has led to the successful implementation of several iterations of DOME 4.0 platform prototypes, achieving increasing levels of functionality which now include user account creation, single sign-on authentication and authorisation, the ability to query three separate data sources from one query (OPTIMADE, CHEMEO, IDS – MARKET4.0), the ability to upload data directly and the ability to view ontologised information about data providers. This represents a significant milestone in the development of such a complex platform, and the requirements documented herein provide the basis for the successful implementation of a fully featured digital open marketplace ecosystem.

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Project partners:

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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
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10	Research	SINTEF	SINTEF AS
11	SME	CNT	Cambridge Nanomaterials Technology LTD
12	University	UCL	University College London



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