



An experimentally-validated multi-scale materials, process and device modelling & design platform enabling non-expert access to open innovation in the Organic and Large Area Electronics Industry (MUSICODE)

Grand Agreement: 953187

Project Start Date: 01/01/2021

Project Duration: 48 months

Deliverable 4.5

Access and version control to the DMS

Date: 03-01-2023



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Call

DT-NMBP-11-2020 "Open Innovation Platform for Materials Modelling"

Project co-funded by the European Commission within Horizon 2020 Research and Innovation Programme		
Dissemination Level		
PU	Public	
PP	Restricted to other programme participants (including the Commission Service)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (excluding the Commission Services)	x

Deliverable author(s): Davide Di Stefano (Ansys)

Contributors:

Draft Revisions:

- v1.0 prepared by DDS on 07-12-2022
- v2.0 reviewed and approved by coordinator on 03-01-2023

Copyright

@ Copyright 2021-2024 The MUSICODE Consortium

Consisting of Coordinator:	University of Ioannina (Uoi)	Greece
Partners:	Karlsruhe Institute of Technology (KIT)	Germany
	University of Surrey (SURREY)	UK
	Aristotle University of Thessaloniki (AUP)	Greece
	Czech Technical University in Prague (CVUT)	Czechia
	Fluxim AG (FLUXIM)	Switzerland
	TinniT Technologies GmbH (TINNIT)	Germany
	Granta design LTD (GRANTA)	UK
	Esteco SPA (ESTECO)	Italy
	Organic Electronic Technologies (OET)	Greece
	Apeva SE (APEVA)	Germany
	ANSYS UK (ANSYS)	UK
	AIXTRON (AIXTRON)	Germany

This document may not be copied, reproduced, or modified in whole or in part for any purpose without written permission from the MUSICODE Consortium. In addition to such written permission to copy, reproduce, or modify this document in whole or part, an acknowledgment of the authors of the document and all applicable portions of the copyright notice must be clearly referenced.

All rights reserved.



Horizon 2020
European Union funding
for Research & Innovation

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Call DT-NMBP-11-2020 "Open Innovation Platform for Materials Modelling"

"The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein."

Contents

1. Executive summary.....	4
2. Introduction.....	5
2.2. Purpose of the document.....	5
3. Granta MI Version Control and Access Control.....	6
3.1 Version control	6
3.2 User Access and Access Control	6
4.1 Version Control and Access Control in the MUSICODE OIP	8
Integration with other components	10
5. Conclusion	11
6. Outlook.....	11

Executive summary

A key component of the MUSICODE Open Innovation Platform is the material Data Management System (DMS). The DMS allows to store any sort of data with full traceability and according to best practices in data management. In the MUSICODE project the term “data” includes simulation and experimental results, validated modelling workflow, and all associated metadata. The protection and retention of old data is often critical. Not all users should be entitled to see or edit all data in a platform and traceability of results should be maintained even if data are updated. Implementing the DMS using Ansys Granta MI allowed us to configure a state-of-the-art authentication and authorization mechanisms as well as version control strategy. We have demonstrated how these tools can be used to ensure consistency and security of MUSICODE simulation workflows.