



REED

Responsive and Reconfigurable value network for the manufacture of bulky parts

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Deliverable 2.3 MaaS Platform Architecture

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Type		
R	Document, report excluding the periodic and final reports	X
DMP	Data Management Plan	
DEM	Demonstrator,pilot, prototype	
OTHER	Software, technical diagram, etc.	
Dissemination level		
PU	PUBLIC Information	
SEN	SENSITIVE, restricted under conditions set out in Model Grant Agreement	X

DOCUMENT HISTORY

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0.3	2025-04-10	Chapter 3	Kourempanas Panagiotis
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1. Executive Summary

Executive Factsheet

Who should read this deliverable? Who are the stakeholders concerned by this deliverable? (distinguish different types of organisations, roles in organisations and interest focus)	Why should s/he read this deliverable? What will s/he learn from this deliverable?	Which part of the content is most relevant for him / her?
Project Managers & Technical Leads in manufacturing organizations	To understand the overall architecture of the REED MaaS platform and how it can transform their manufacturing operations through distributed collaboration and digital services	Executive Summary, Chapter 3 (REED Context & Background), Chapter 5.4 (Physical View), Chapter 8 (Conclusions and Next Steps)
Software Architects & Developers implementing the REED platform	To gain detailed technical understanding of the platform's components, interfaces, and implementation requirements for development	Chapter 4 (Architecture Principles), Chapter 5 (Architectural Views), Chapter 7 (REED Components & Services)
Supply Chain Managers/Operators	To understand how the platform enables dynamic reconfiguration of manufacturing value chains	Chapter 7.9 (Operational Framework Algorithms & Functionalities), Chapter 5.2 (Process View)

Executive Summary

This document defines the architecture and system requirements of the REED MaaS platform, aligning it with European values such as trust, security, interoperability, and data sovereignty. It integrates existing standards and models including GAIA-X, IDSA, and the Digital Product Passport (DPP), while building on the backbone of the Market4.0 platform and leveraging the modular architecture of DIMOFAC platform.