



GOODMAN

AGENT ORIENTED ZERO DEFECT
MULTI-STAGE MANUFACTURING

Deliverable 4.1

ZDM Data and Management Environment Specification

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0.1	04/05/2017	BOC	Initial, commented table of content
0.2	09/05/2017	BOC, NISSA, LOC	Review and internal alignment of table of content
0.3	16/05/2017	BOC NISSA	Integration of content for section 2, 3 and 4
0.4	18/05/2017	BOC	Update of section 4, rewriting and diagrams
0.5	19/05/2017	NISSA	Updated contribution section 3
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0.7	20/05/2017	BOC	Inclusion of feedback from NISSA; renaming of components, writing of executive summary and conclusion section
0.8	22/05/2017	LOC	Review of document and feedback on content/structure
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1.0	26/05/2017	BOC	Inclusion and re-writing of document according to feedback
1.1	31/05/2017	BOC, NISSA, LOC	Review and refinement, finalisation

List of Contributors:

Wilfrid Utz (BOC), Robert Woitsch (BOC), Nesat Efendioglu (BOC), Nenad Stojanovic (NISSA), Giulia Lo Duca (LOC), Cristina Cristalli (LOC), Paulo Leitao (IPB), José Barbosa (IPB)

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Executive Summary

The objective of this deliverable is to understand, identify, and describe expectations from the industrial partners, enrich those with innovative techniques from literature and the experience of the involved partners to establish a common technical understanding and reference point of the work performed in WP4 on the ZDM Knowledge and Data Management Environment.

The ZDM Knowledge and Data Management Environment is realized as:

- a) a concept and framework to handle quality data streams, enrich them with the required semantics and provide visualization and interaction capabilities for strategic decision makers and
- b) an implementation of prototypes, integrated with each other following a loose-coupling of components. The resulting toolset supports integrated management of data and knowledge in the domain.

Task 4.1 picks up from the work performed in WP1, mainly the specification and requirements documented in D1.1 “Industrial ZDM Requirements” [3] and the discussion results from Task 1.2 and Task 1.3, collecting the required inputs for data and knowledge management and defining the system from an user and technical perspective. The output as defined in this document is a blueprint of the environment’s architecture in the form of two main components. Interfaces among the relevant sub-components and to external (other WPs and others) systems are detailed.

This specification is available as a) use case definitions and diagrams to define scenarios, b) interaction views as a refinement of the use cases and complemented with c) the development and d) logical view of the system under study.

In the course of running Task 4.1, an agile approach supported by rapid-prototyping was followed to define the specification. This means that the expectations and requirements defined have been tested against current system capabilities and further refined using interactive mock-ups and demonstrations.

