

EXECUTIVE SUMMARY

This document provides the IT2Rail specifications, through an overall and a consolidated view integrating each elementary technical concept (WP1 to 6 in the project) and providing additional transversal end-to-end specification elements (WP7).

These specifications are made of three parts:

- Glossary: compiles all the IT2Rail key terms used by all the contributors and through all the produced IT2Rail documents. It is listing and describing the common principles pursued to address the traveller's perspective,
- Requirements: defines the IT2Rail key concepts and system requirements, shared between WP1 to 6 as the foundation for the IT2Rail pilot. It is describing the high-level functional components required to deliver the solution,
- Concepts and services interfaces: defines the external IT2Rail interfaces and associated services, shared between WP1 to 6 as the foundation for the IT2Rail pilot. It is describing the common architecture based on the requirements of individual work packages and the common interfaces between the work packages.

This document has been produced by consolidating specifications elements coming from WP1 to 6 and by reviewing, organizing and integrating interfaces and services architecture elements proposed by WP1 to 6 components.

This document is targeting the following audience:

- WP1- 6 leaders;
- WP8 and WP9 leaders;
- Shift2Rail Joint Undertaking;
- European Commission;
- Other IT2Rail participants, to give them a view of the specifications pursued in IT2Rail.

Beside the main objective of this document which is to provide a complete view of the project specifications, the second objective is also to be in position after this first overall consolidation to define and distribute templates for specification to be applied for the next versions. As a consequence and by nature, the current iteration of this document is the result of consolidating specifications coming with heterogeneous formats. This heterogeneity is going to be addressed through further iterations. As a consequence, in the present iteration, keywords WP1 WP2 WP3 WP4 WP5 WP6 are used all over the specifications, including various diagrams to refer to the functional packages. This will be reformulated in the next iteration and for this one, the reader shall interpret the following:

- WP1 : stands for "Interoperability framework";
- WP2 : stands for "Travel shopping";

- WP3 : stands for “Booking and ticketing”;
- WP4 : stands for “Trip tracker”;
- WP5 : stands for “Travel companion”;
- WP6 : stands for “Business analytics”.

Since these specifications are subject to further definitions and adjustments throughout the entire project life-cycle, the present iteration is the first consolidated version of the IT2Rail overall specifications. . This is the foundation for the IT2Rail pilot which shall be demonstrated in the project. Further iterations shall be shared and maintained under the COOPERATION TOOL by applying the engineering guidelines defined for the project in the document [1].

Each evolution of this document will be translated into a new iteration which must be verified and approved. This document can be found under the IT2Rail Cooperation Tool, which guaranties the document management, keeping the history of each version of the document.