

NEXOF-RA

NESSI Open Framework – Reference Architecture

IST- FP7-216446



Deliverable D7.5b RA Specification 1.0 – Executive Summary

ALL

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Change History

Version	Date	Status	Author (Partner)	Description

EXECUTIVE SUMMARY

This document represents the entry point to the set of documents that the deliverable D7.5b is constituted of. In fact, it only presents this executive summary section. The complete D7.5b deliverable is composed of all the following documents:

- RA Specification – Executive Summary (this document);
- RA Specification – Pattern Compass;
- a set of “RA Specification – Pattern” documents.

The overall deliverable presents the final version of the NEXOF-RA Specification, that is the final version of the related set of architectural patterns specifically built to support the design of NEXOF Compliant (SOA) Infrastructures.

In particular, the “RA Specification – Pattern Compass” provides a compass to access all the set of patterns. A part from providing the complete list of patterns that are into the specification, it shows the main relationships among them. This is very helpful to guide a software architect to access, find and usage patterns of the specification in a consistent and effective manner. The compass also provides a short abstract description of each pattern, and some other few information concerning the authors, its category type and level, and a reference to the document where the complete description is presented.

Actually the deliverable, as well as the compass, includes also patterns that are still during the development phase or that have been simply identified to be developed. This state of each pattern, of course, is clearly reported into the compass document.

The rest of the documents, i.e. the set of “RA Specification – Pattern”, constitutes the real content of the NEXOF-RA Specification. Each document provides the complete and self-contained description of an architectural pattern that NEXOF has evaluated as fundamental for the design of SOA Infrastructures and has approbated to be part of the final specification.

Actually each document also introduces concepts that a pattern needed in order to be clearly described, it qualifies the standards that the pattern is compliant with and finally it describes the concrete components (implemented solutions) that are already available to implement some of its parts. These information will be useful to refine the NEXOF-RA Model and to develop the standard and component catalogues of the NEXOF Reference Architecture.

The target audience of this deliverable is the same of the overall NEXOF Reference Architecture, and this is clearly qualified into the project deliverable D13.5. Anyway the architectural solutions provided by the different patterns that constitute the specification are particularly targeted to software system architects. In fact each pattern claims the added-value, in terms of architectural choices, it offers when applied to design an SOA Infrastructure. These important claims are helpful and are expected to drive a software system

architect to properly select and effectively exploit pattern solutions into their SOA-based system designing.

Finally the “RA Specification – Pattern Compass” is organized into three main sections:

- first section concerns with the **Internet of Service** domain;
- second section concerns with the **Cloud** domain;
- third section concerns with the **Enterprise-SOA** domain, and it is mainly an updated version of the content of previous version of the deliverable D7.5.

Document Information

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