Service Provision Facility Design
Definition incl. Test Report

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1 PUBLIC ABSTRACT

This document contains the architectural design for the Service Provision Facility (SPF) as part of the DEMETRA Core Infrastructure.

The SPF Specification is the starting point for the Design phase. The Time Service Provider (TSP) specification establishes the SPF Specification through an applicability Matrix, where the requirements applicable to the SPF are identified.

The first step to produce the SPF Design has been the understanding of the applicable requirements to the SPF. A compliance matrix is provided, to clarify and identify the design drivers that would be the basis on the SPF Architectural design. The SPF design covers the global scope of the SPF, i.e. states the design of the SPF implemented at TSP, although the SPF implementation will be limited to the SPF TSD implementation. Therefore, the SPF design presented in this document could be the start point for the “SPF TSP” implementation as well as the “SPF TSD” implementation.

In order to consolidate the baseline of the SPF with TSD scope, an applicability matrix is provided indicating that issues shall be implemented in the current demonstrator.

Consolidated the SPF Specification, the design has been produced by:

- Understanding of requirements
- Identifying the design drivers (as well constraints and special issues)
- Taking the assumptions and identifying the open points
- Deriving the main functions that cover the SPF specifications
- Defining the physical and logical architecture
- Identifying the use cases

The design coverage is checked through the specification tree.

The Test Specification is provided also in this document, based on the SPF specification and in the definition of a set of Test Cases that would allow validates the SPF against its technical specification.