



D42.3:

*Generic Service Development Platform first
prototype – M18*

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1 Executive Summary

This deliverable presents the achievements of WP42 at M18, with the completion of the first prototype of the Generic Service Development Platform IDE and Model Repository. The aim of WP42 is to supply to IT professionals the necessary tools to engage in service development activities, within the service lifecycle model proposed by MSEE. The first prototype of Generic Service Development Platform, described in this document and its appendices, implements a number of key functionalities which foster collaboration, reuse of software assets and fulfil the service development lifecycle by refining higher-level modelling assets and transforming them to executable services and applications.

2 Introduction to the prototype modules and components

This document presents the M18 milestone deliverable of task “T4.2.2: Development of Generic Service Development Platform”. The MSEE Generic Service Development Platform provides:

- a central Model Repository for storage and distributed authoring of any kind of service modelling assets at any level (BSM, TIM, TSM).
- an integrated development environment (IDE), allowing IT users to develop software applications and services for MSEE, taking advantage of tight integration with other MSEE systems.

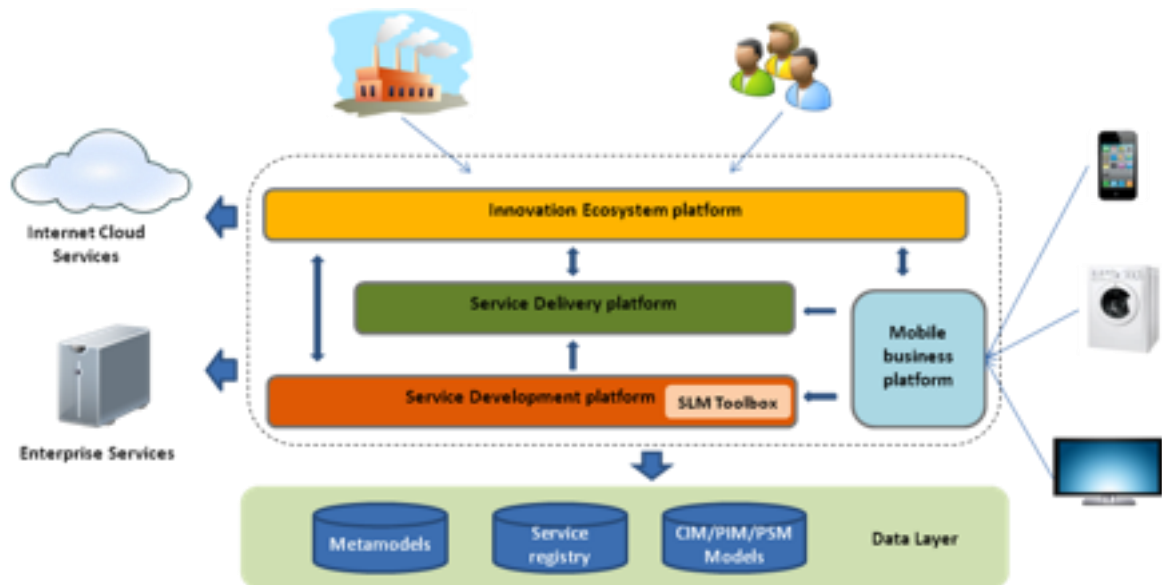


Figure 1 MSEE IT System

As part of the broader MSEE IT System, Generic Service Development platform integrates with the Innovation Ecosystem Platform, Service Delivery Platform, SLM Toolbox as well as the Mobile Business Platform.

3 Prototype modules

The Generic Service Development Platform encompasses two major modules:

- The Model Repository and
- The Generic Service Development Platform IDE

3.1 Model Repository

The Model Repository ([2]) provides infrastructure for distributed authoring and collaboration of service models. It encompasses a Model Repository Server, which is deployed centrally and accessed by all clients for model browsing and retrieval, and two Eclipse plugins which are executed within the context of the Generic Service Development Platform IDE on the software developer's workstation.

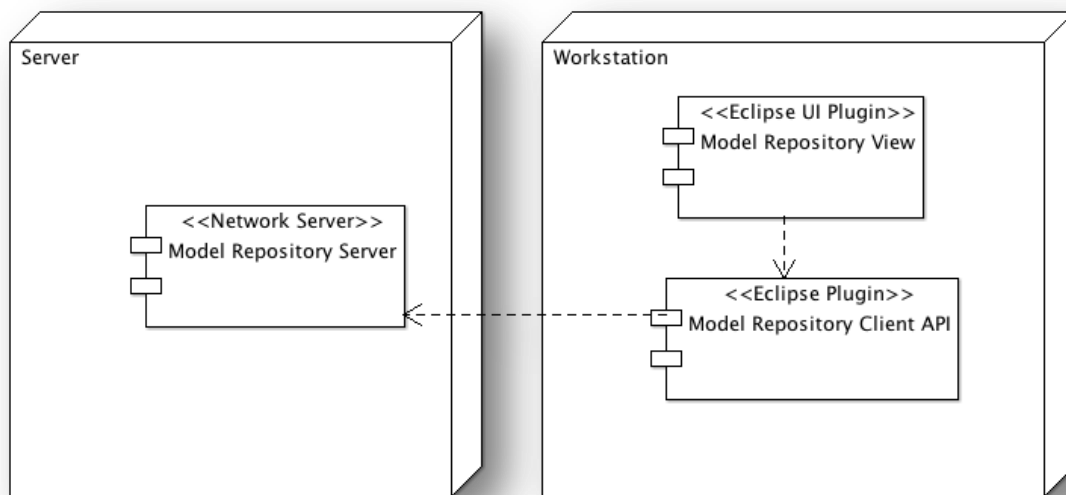


Figure 2 Deployment diagram of Model Repository components

The Model Repository is presented in detail in [2] MSEE Project, D42.3 Generic Service Development Platform first prototype – Factsheet #2.

3.2 Generic Service Development Platform IDE

The Generic Service Development Platform IDE is an Eclipse-based environment, enriched with additional custom plugins, which allow IT users to seamlessly use all tools provided by MSEE Service System from a single IDE to model, develop and compose services. The Generic Service Development Platform IDE, as implemented in the first prototype, supports refinement of TIM models to TSM level, enabling code generation per specific technology (Java is the technology of choice for the first prototype) using M2T (Model to Text) tools. The Generic Service Development Platform IDE is described in detail in [1] MSEE Project, D42.3 Generic Service Development Platform first prototype – Factsheet #1.

4 Summary and conclusions

This deliverable introduced the software prototypes that are the result of task “T4.2.2: Development of Generic Service Development Platform” in their current form at Month 18. The prototypes have been developed according to the requirements set in [3]. An updated version of this deliverable will be published on M30, when the final prototype of the Generic Service Development Platform will be completed, according to the feedback gathered during integration & end-to-end testing.

5 References

- [1] MSEE Project, D42.3 Generic Service Development Platform first prototype – Factsheet #1
- [2] MSEE Project, D42.3 Generic Service Development Platform first prototype – Factsheet #2
- [3] MSEE Project, D42.1: Generic Service Development Platform specifications and architecture – M12 issue