



EMIF Deliverable 14.1: First report on the EMIF-Platform design and architecture, including specifications for privacy protection tools and services

Executive summary

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Over the last few years, several solutions to link the increasing amount of clinical and disease-specific data throughout Europe have been developed. In the context of the EMIF platform project, we have analysed some of the currently available solutions, developed an understanding of their main features and considered possible future application in the EMIF Catalogue, which is to be developed.

From a project perspective, the analysed large-scale projects already deal with multiple issues that are being considered within EMIF's scope. As such, we should strive to learn from these projects' strategies and best practices. Likewise, miscellaneous software architectures are in place to deal with problems related to what we are trying to accomplish in the EMIF Platform.

Combining this initial state-of-the-art analysis with the EMIF project's requirements, this document reinforces the general architecture guidelines for future developments. Consequently, work is already underway in new components, including:

- The Data Catalogue (DC), where partners' databases will be integrated;
- The Primary Data Extraction (PDE) module, which will extract summary metadata from individual databases;
- The Private Remote Research Environments (PRREs), where users will be able to maintain a closed individual- or project-wide research environment;
- The Security layer, which must encompass all components;

This report discusses, not only the current status of already implemented components, but also points out some features to be taken into account in the following years.

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