



D23.2 – Software Development Guidelines

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Lead Participant	IFAG	Lead Author	Detlef Houdeau
Contributors	Moritz Müller, Sebastian Kurowski, Benjamin Heuer (FHG), Matthias Junk, Detlef Houdeau (IFAG)	Reviewers	Insert Reviewers

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1. Abstract

The software development guideline describes all phases along the software development, testing and quality control in FutureID. The development phases include both open source and proprietary software development. The guideline is needed along the running project of FutureID, because R&D-persons from different companies placed in different R&D-Center work on source code lines or part of source codes in a parallel mode. The guideline captures the code development, the documentation of code lines, the storage of code line documents and the policy for getting access to the source documents, the use and storage of test suites, the change request management and the qualification procedure.

The software development in FutureID underlies two partially contrary boundary conditions. Certification policies may be required, in order to prove the security of the infrastructure. On the other hand work in a community of multiple distributed partners, and partial Open Source development of the client software, create further requirements to the development in FutureID, involving a larger amount of flexibility, contradicting the possibly required certification.

In these software development guidelines, this contradiction has been addressed by involving a toolbox of different software development methods, including current state-of-the-art of organising open source software development in large communities, secure software development, and current principles and methods. We chose the W-Model as an adequate mean for integrating testing throughout the development process, and defined roles and required institutions, such as a change control board, in order to deal with the versioning throughout the different work packages.

This guideline is very important, because FutureID works with real existing eID cards. In FutureID person related data of card holders is handled.

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