

złomekFS is a distributed file system that supports disconnected operation using local cache. During synchronization of local changes it offers easy-to-use conflict resolution mechanism. Further improved it became a file system with no specific kernel code. It has therefore a good potential in future public use. As the content of this file system can be updated by many users, keeping history of the changes can be a useful feature. This thesis implements file versioning in złomekFS, answering the questions such as how to store and access the history. On top of the versioning, the possibility of consistent backup is introduced into

the file system. New functionality is derived from the analysis of other file systems with similar features and selection of the most suitable approach for złomekFS.