

1 Overview

This document is a Technical Design document for the **Search and Browse component** (SB) component of the eSciDoc infrastructure.

For the first release, the **Search and Browse component** (SB) offers services in the following areas.

1.1 Searching

The Search is triggered by giving a lucene-search-query in UTF-8 encoding to the Search and Browsing component.

In order to be able to match the search terms with the normalized words in the index, the search terms have to go through exactly the same filter chain that has been used when building the index. Therefore, a search-language has to be specified.

Search returns a searchhit-List. If a search yields in many hits, the system splits the hit lists in manageable parts (the size of these parts has a default value that can be overwritten by giving the size of the part as a request parameter to the search). For navigation in the hit list it is also possible to give the start-hit as a request parameter. The hit list will be ordered by relevance. This comes as a service of lucene.