

# Design - External Search

Towards the goal of modularizing the VIVO application, the search index has been identified as a component that should be installed separately from VIVO and connected to as a remote component.

The initial target is to support externalized:

- Solr 7 and
- ElasticSearch 6

## Requirements

1. Search index must be deployed separately from VIVO
2. Connection from VIVO to search index must be over HTTP
3. [Failure to connect to search index on start-up must be non-fatal](#)
4. VIVO must not require a restart in order to connect to search index that was not available on VIVO's initial startup
5. VIVO SmokeTest must make it clear to the user that VIVO is in a non-functional state while a search index is not available
6. Externalized search index must provide the same results as the previous, embedded Solr index

## Related tickets

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Unable to locate Jira server for this macro. It may be due to Application Link configuration.

Current work has been merged into the following branches.

- <https://github.com/vivo-project/Vitro/tree/sprint-search>
- <https://github.com/vivo-project/VIVO/tree/sprint-search>

Deployment / Configuration of externalized Solr index:

- <https://github.com/awoods/vivo-solr>