

# **Apache UIMA Solrcas documentation**

**Written and maintained by the Apache UIMA Development Community**

**Version 2.3.1**

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# Introduction

The Solr CAS Consumer (Solrcas) is responsible to write UIMA CAS objects to an Apache Solr instance.

It uses SolrJ client classes to execute local or remote updates to the specified Solr instance.



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# Chapter 1. Configuration

To use Solrcas the following parameters have to be specified:

- `mappingFile` : identifies where is the file which holds information about which (and how) UIMA objects must be sent to which Solr fields.
- `solrInstanceType` : this has to be `http`.
- `solrPath` : If the `solrInstance` value is `'http'` this represents the URL to the remote Solr instance.





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## Chapter 2. The mapping file

The mapping file holds information about mapping between CAS properties, types and features and Solr fields.

Here is a solrMapping.xml sample:

```
<solrMapping>
  <documentText>text</documentText>
  <documentLanguage>language</documentLanguage>
  <fsMapping>
    <type name="uima.jcas.tcas.Annotation">
      <map feature="coveredText" field="annotation"/>
    </type>
  </fsMapping>
</solrMapping>
```

The *documentText* element holds the field name in which the `Cas.getDocumentText()` value will be indexed.

The *documentLanguage* element holds the field name in which the `Cas.getDocumentLanguage()` value will be indexed.

The *fsMapping* element will hold a list of *types*. For each *type* specified a *map* between a *feature* and a *field* will be defined. As the `getCoveredText()` of Annotation objects is not a Feature the `coveredText` feature name will be automatically associated with the `Annotation.getCoveredText()` value (just like a common feature).

In the sample above the `Cas.getDocumentText()` will be written inside the `text` field, the `Cas.getDocumentLanguage()` will be written inside the `language` field and the `Annotation.getCoveredText()` of each `uima.jcas.tcas.Annotation` object will be written inside an `annotation` field in Solr.

Note that `documentText` and `documentLanguage` are all optional.

