

Libraries

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Most libraries mostly act as wrappers around some lower-level technology libraries such as [Freemarker](#) or [PdfBox](#). The three *docrendering* libraries act as a "glue" between the [Document subdomain](#) and these lower-level libraries.

Module	Description	(direct) 3rd party dependencies
Base	Base library of utility classes.	(none)
Docx (MS Word) Library	Provides a mail-merge capability of input data into an MS Word .docx templates, with the generated output document either Word .docx or Acrobat .pdf .	docx4j , jdom2
Excel Library	Provides a domain service so that a collection of (view model) object scan be exported to an Excel spreadsheet, or recreated by importing from Excel.	Apache POI
Fake Data Library	Provides a domain service that generates fake random data. The random values generated can then be used within unit and integration tests.	java-faker
Fixture Support Library	Provides support for writing fixtures.	(none)
FreeMarker Library	Provides a wrapper around the <i>Freemarker</i> templating engine	Freemarker
Integration Testing Support Library	Provides a set of testing utilities to support integration testing	(none)
JAX-RS Client Library	Provides a wrapper around the JAX-RS Client API (as implemented by Apache CXF).	Apache CXF
PDFBox Library	Provides a wrapper around <i>Apache PDFBox</i> .	Apache PDFBox
Polymorphic Associations Library	Provides a set of helpers to support the definition of polymorphic associations; that is: relationships from one persistent entity to another by means of a (Java) interface.	

Module	Description	(direct) 3rd party dependencies
Servlet API Library	Provides access to various elements of the Servlet API, namely the <code>ServletContext</code> , the <code>HttpServletRequest</code> and the <code>HttpServletResponse</code> . Note that this module is only available through the Wicket viewer, not the REST API.	(none)
Slack Library	Provides the ability to post to a Slack channel.	Simple Slack API
String Interpolator (OGNL) Library	Provides a mechanism to interpolate string templates with either Isis system properties or values obtained from a domain object, using <i>OGNL</i> library.	OGNL
Unit Testing Support Library	Provides a set of testing utilities to support unit testing.	(none)
XDocReport Library	Provides a wrapper around <i>XDocReport</i> , an API to merge XML documents into MS Office (<code>.docx</code>) or OpenOffice (<code>.odt</code>) files, optionally converting into another format (notably PDF).	XDocReport
Zip Library	Zips up a collection of files.	(none)