

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	Implements (SPI)	Requires (API)	(direct) 3rd party dependencies
Base	Base library of utility classes.	(none)	(none)	(none)
Freemarker Document Rendering Library	Implements the <i>Document</i> module's Renderer interface using Freemarker.	Document subdomain	Freemarker library	(none)
Stringinterpolator Document Rendering Library	Implements the <i>Document</i> module's Renderer interface using StringInterpolator (ognl).	Document subdomain	StringInterpolator library	(none)
Xdocreport Document Rendering Library	Implements the <i>Document</i> module's Renderer interface using Xdocreport (ognl).	Document subdomain	Xdocreport library	(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 .	(none)	(none)	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.	(none)	(none)	Apache POI

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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.	(none)	(none)	java-faker
Fixture Support Library	Provides support for writing fixtures.	(none)	(none)	(none)
FreeMarker Library	Provides a wrapper around the <i>Freemarker</i> templating engine	(none)	(none)	Freemarker
Integration Testing Support Library	Provides a set of testing utilities to support integration testing	(none)	(none)	(none)
PDFBox Library	Provides a wrapper around <i>Apache PDFBox</i> .	(none)	(none)	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.	(none)	(none)	
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)	(none)	(none)

Module	Description	Implements (SPI)	Requires (API)	(direct) 3rd party dependencies
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.	(none)	(none)	OGNL
Unit Testing Support Library	Provides a set of testing utilities to support unit testing.	(none)	(none)	(none)
XDocReport Library	Provides a wrapper around <i>XDocReport</i> , an API to merge XML documents into MS Office (.docx) or OpenOffice (.odt) files, optionally converting into another format (notably PDF).	(none)	(none)	XDocReport