

Libraries

# Table of Contents

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
<a href="#">Base</a>	Base library of utility classes.	(none)	(none)	(none)
<a href="#">Freemarker Document Rendering Library</a>	Implements the <i>Document</i> module's <a href="#">Renderer</a> interface using Freemarker.	<a href="#">Document subdomain</a>	<a href="#">Freemarker library</a>	(none)
<a href="#">Stringinterpolator Document Rendering Library</a>	Implements the <i>Document</i> module's <a href="#">Renderer</a> interface using StringInterpolator (ognl).	<a href="#">Document subdomain</a>	<a href="#">StringInterpolator library</a>	(none)
<a href="#">Xdocreport Document Rendering Library</a>	Implements the <i>Document</i> module's <a href="#">Renderer</a> interface using Xdocreport (ognl).	<a href="#">Document subdomain</a>	<a href="#">Xdocreport library</a>	(none)
<a href="#">Docx (MS Word) Library</a>	Provides a mail-merge capability of input data into an MS Word <a href="#">.docx</a> templates, with the generated output document either Word <a href="#">.docx</a> or Acrobat <a href="#">.pdf</a> .	(none)	(none)	<a href="#">docx4j</a> , <a href="#">jdom2</a>
<a href="#">Excel Library</a>	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)	<a href="#">Apache POI</a>

Module	Description	Implements (SPI)	Requires (API)	(direct) 3rd party dependencies
<a href="#">Fake Data Library</a>	Provides a domain service that generates fake random data. The random values generated can then be used within unit and integration tests.	(none)	(none)	<a href="#">java-faker</a>
<a href="#">Fixture Support Library</a>	Provides support for writing fixtures.	(none)	(none)	(none)
<a href="#">FreeMarker Library</a>	Provides a wrapper around the <i>Freemarker</i> templating engine	(none)	(none)	<a href="#">Freemarker</a>
<a href="#">Integration Testing Support Library</a>	Provides a set of testing utilities to support integration testing	(none)	(none)	(none)
<a href="#">PDFBox Library</a>	Provides a wrapper around <i>Apache PDFBox</i> .	(none)	(none)	<a href="#">Apache PDFBox</a>
<a href="#">Polymorphic Associations Library</a>	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)	
<a href="#">Servlet API Library</a>	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
<a href="#">String Interpolator (OGNL) Library</a>	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)	<a href="#">OGNL</a>
<a href="#">Unit Testing Support Library</a>	Provides a set of testing utilities to support unit testing.	(none)	(none)	(none)
<a href="#">XDocReport Library</a>	Provides a wrapper around <i>XDocReport</i> , an API to merge XML documents into MS Office ( <i>.docx</i> ) or OpenOffice ( <i>.odt</i> ) files, optionally converting into another format (notably PDF).	(none)	(none)	<a href="#">XDocReport</a>