

Third Party Tools

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1. Third Party Tools

This page lists key third-party tools used in Streek development. A few items are listed in multiple categories.

Some of the technologies and tools listed are components of the [J2EE](#) (Java 2 Enterprise Edition) software platform.

1.1. Development Tools

- [Eclipse](#) (IDE; cf. [local HowTo docs](#))
- [Ant](#) (Apache's does-it-all tool for project builds, testing, deployment; cf. local [Managing Software Lifecycle](#) doc)
- [MyEclipse Enterprise Workbench](#) (tools collection for Java/J2EE development in Eclipse)
- [jakarta-commons](#) (Apache-Jakarta Java utilities; included in `ist-jxde/lib`)
- [OxygenXML](#) (XML editor)
- [PMD](#) (configurable Java code analysis)
- [Checkstyle](#) (configurable Java code analysis)

1.2. Code Management

- [Jalopy](#) (Java source-code formatter)
- [Metrics](#) (code metrics generation for Eclipse IDE)

1.3. Source Version Control

- [CVS](#) (cf. local [Source Code Management](#) doc)

1.4. Source-Code Analysis

(cf. [Development Tools](#))

1.5. J2EE Application Development

- [Struts](#) (Apache-Jakarta Java application control layer; included in [ist-jxde/lib](#))
- [Struts-Console](#) (Struts-based application management)
- [Xdoclet](#) (code generation; e.g., to generate EJB classes)
- [JSP](#) (Java Server Pages)
- [JSF](#) (Java Server Faces)
- [Faces-Console](#) (JSF-based application management)

- [Sitemesh](#) (page layout & decoration framework; included in [ist-jxde/lib](#))

1.6. Miscellaneous Java Tools

A set of Java tools are collected in the IST-JXDE project tree, which Streek developers check out from CVS. These tools, as JAR files, are located in the `ist-jxde/lib` directory. Some of the tools included in this directory are listed elsewhere on this page; but not all tools in the directory are individually listed.

1.7. Database/Persistence

- [EJBs](#) (Enterprise Java Beans)
- [JDBC](#) (Java Data Base Connectivity; included in [ist-jxde/lib](#))
- [Hibernate](#) (object/relational persistence service; included in [ist-jxde/lib](#))

1.8. Web Services

- [Axis](#) (Apache implementation of SOAP)

1.9. XML Tools

- [Castor](#) (data binding framework; included in [ist-jxde/lib](#))
- [OxygenXML](#) (XML editor)
- [Xalan-J](#) (XSLT processing; included in [ist-jxde/lib](#))
- [Xerces2-J](#) (XML parser; included in [ist-jxde/lib](#))

1.10. Deployment

- [httpd](#) (Apache's HTTP Web Server)
- [JBoss](#) (Application Server & EJB container)
- [Tomcat](#) (Java servlet container, deployable inside JBoss)
- Apache [Ant](#) (scripted deployment; cf. local [Managing Software Lifecycle](#) doc)

1.11. Testing

- [JUnit](#) (unit testing; included in [ist-jxde/lib](#) and as core Eclipse plug-in)
- [JMeter](#) (web application testing)

1.12. Issue/Bug Tracking

See [Project Issue Tracking](#) document.

- [Ozibug](#) (currently in use)
- [JIRA](#) (under consideration as successor to Ozibug)

1.13. Project Management/Documentation

- [CruiseControl](#) (continuous build process framework)
- [Maven](#) (project management)
- Apache [Forrest](#) (project site / documentation; cf. local [Project Documentation Site](#) doc)

1.14. Network Tools

- SSH (e.g., [OpenSSH](#); or [SSH Secure Shell](#) for Windows, site-licensed for campus users.