



## Eclipse BIRT Engine and Java APIs

The BIRT Engine and Java APIs are a part of the BIRT (Business Intelligence and Reporting Tools) project, an Eclipse Foundation open source project initiated and co-led by Actuate. BIRT is licensed under the Eclipse Public License (EPL). The BIRT technology brings powerful report generation capabilities to applications without having to build the functionality from lower level Java components.

## Additional deployment options

In addition to the Eclipse BIRT Engine and Java APIs, there are three architectural options built on the Eclipse BIRT Engine and Java APIs for report execution and generation on an ongoing basis:

- *BIRT Deployment Kit (OEMs only)* - a lightweight J2EE report repository with a web front-end for users to browse, select, and run BIRT reports on demand. It embeds the Eclipse BIRT Engine and its APIs and can be used either stand alone as an End User Reporting Portal or embedded in an application
- *BIRT iServer* - a report server that deploys, manages, schedules, secures, runs and distributes BIRT reports. It embeds the Eclipse BIRT Engine and Java APIs and can be implemented stand-alone or as a reporting service for other applications

All BIRT deployment options provide the following capabilities:

- *Execution Services*: That read an XML BIRT report design, gather report parameters, access and process report data and create the corresponding report, including tables, charts and graphics.
- *Output Generation Services*: That output a generated BIRT report in HTML, Adobe PDF, Word DOC, Excel XLS, PostScript, and PowerPoint PPT.
- *Sample Viewer*: That leverages the viewing APIs to render an HTML report for viewing online, page-by-page.

	Eclipse BIRT Engine & Java APIs	BIRT Deployment Kit (OEMs only)	BIRT iServer Enterprise
A collection of Java classes and APIs used to execute BIRT reports and generate them in a variety of formats.	√		
A lightweight JAVA EE report repository with a web front-end for users to browse, select, and run BIRT reports on-demand.		√	
A single-purpose report server that deploys, manages, schedules, secures, runs and distributes BIRT reports			
An enterprise class report server that scales to 100,000s of users and supports multiple applications and departments inside and outside the firewall.			√
<b>Web 2.0 Style Reports and Formatting</b>			
Flash-ready BIRT Report Engine extension		√	√
JavaScript API for easy integration of content into applications		√	√
<b>Report Generation</b>			
On-demand transient report generation	√	√	√
On-demand persistent report generation			√
Scheduled background report generation			√
Built-in temporary files/transient store management		√	√
Database connection pooling for RDBMS		√	√
<b>Parameterization</b>			
Data and report structure parameter selection	√	√	√
Cascading parameters	√	√	√
Automatic Parameter Page Generation		√	√
<b>Scheduling &amp; Distribution</b>			
Date and Time scheduling			√
Event, Business Rule Sequenced and Group scheduling			√
Email notification and delivery			√
Conditional notification			√
Subscriptions			√
<b>Document Access and Management</b>			
File system based repository to store and manage reports		√	
Database repository to store and manage reports			√
Report and Design browsing and filtering		√	√
Report searching			√
Shared report folders		1 only	√
Report versioning			√

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Automated report deletion			√
Dynamically created document, names, headlines and descriptions			√
<b>Security</b>			
Security system integration APIs		√	√
Single sign-on support APIs		√	√
User-based security		API	√
Role-based security, both functional and hierarchical			√
User and role-based access to reports			√
User and role-based access to components of reports, data, functionality			Optional
<b>Integration and Customization</b>			
URL-based API for report generation & viewing		√	√
Web services-based API for report generation & viewing			√
Web services API for repository management			√
Archival integration APIs and extension points			√
Usage logging integration APIs and extension points			√
<b>Data Access</b>			
Compatible with Eclipse BIRT Designer data sources	√	√	√
Database connection profiles	API	API	√
Compatible with BIRT Designer data sources		√	√
Metadata layer (Information Objects)			√
Data Integration (EII)			Optional
Information Object caching			Optional
<b>Administration</b>			
Enterprise Repository Console			√
Monitor and cancel jobs			√
Usage logging			√
Online backup and Recovery			√
<b>Localization and i18n</b>			
Eclipse Language Pack Report localization	√	√	√
UI localization		√	√
<b>Scalability and High Availability</b>			

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Configurable caching of report generation & viewing		√	√
Linear Scalability and Performance			√
Multi-threaded			√
Advanced tuning and configuration			√
Resource groups			√
Homogeneous clustering support			√
Heterogeneous clustering support			√
High Availability and Failover			√
Multiple Document Repositories per server			Optional
<b>Platform Support</b>			
Windows / Linux x86 (Red Hat and SUSE)	√	√	√
Solaris / AIX / HP-UX			√

#### About Actuate Corporation

Actuate initiated and co-leads Eclipse BIRT (Business Intelligence and Reporting Tools), an Eclipse Foundation open source project. Actuate delivers support and training for BIRT, a product line that builds on BIRT, and products that support spreadsheets in Java.