
Total Open Source BI

End-to-End Open Source BI, ETL and DW

Powered by Jaspersoft and Infobright

The ability to deliver powerful BI solutions has traditionally been an option for only the world's largest companies. As little as five years ago, million dollar budgets were required for a business intelligence / data warehouse solution. Now, thanks to the maturity and low cost of open source business intelligence and data warehouse technologies, businesses of every size can implement fully-featured reporting and analytics to compete more effectively and drive revenue.

The components of a Total Open Source BI solution:

- **Business Intelligence:** *The presentation layer and “window” into your data.*

Jaspersoft products provide analysis and reporting for in-depth business intelligence. iReport is the desktop report designer for complex report design. Reports may be deployed to JasperServer, the report server delivering pixel-perfect reports, dashboards, a secure report repository, and report scheduling. JasperAnalysis is the OLAP server, allowing business analysts or executives to slice-and-dice data to discover trends in data, for example sales across regions and time. Both JasperServer and JasperAnalysis are accessible via a web browser and very intuitive for business users. All Jaspersoft business intelligence solutions are powered by JasperReports, the world's leading reporting library.

In addition, business intelligence experts who rely on R, the most popular open source statistical analysis package, can expose R charts inside JasperServer, thanks to an integration project by OpenBI.

- **ETL (Extract Transform Load):** *the data integration middleware to retrieve data from source system and load it into the target data mart or data warehouse, on a timely basis.*

JasperETL, powered by Talend, is a powerful data integration tool to bring data from source systems, transform it, and load it into to your operational data store, data marts, and data warehouse. Data integration is traditionally the most expensive part of building a data warehouse and is particularly difficult to maintain if done with manual scripts. JasperETL provides a graphical environment to design data flows and transformations in an intuitive manner. Plus, connectors, which are typically quite expensive in proprietary solutions, are free and open source. There is a lively ecosystem of connectors growing on a daily basis with contributions from the open source community.

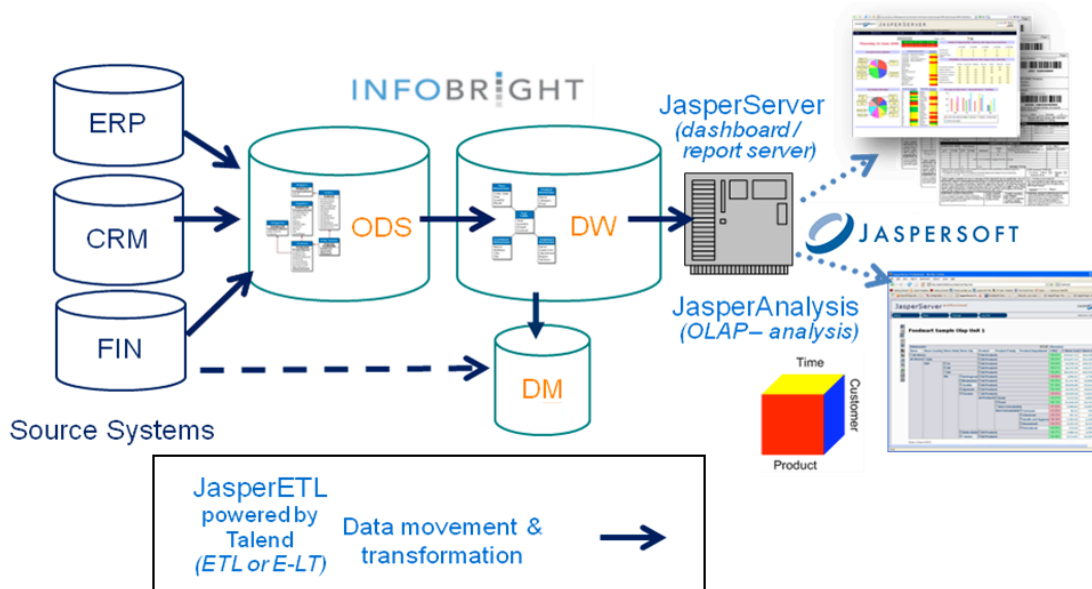
- **Data Warehouse:** *the repository of historical data from one or more source systems, designed for analytics and reporting*

Infobright combines a column-oriented database with our Knowledge Grid architecture to deliver a powerful and scalable solution for large volumes of data. Infobright's Knowledge Grid eliminates the need to create indexes, partition data and build physical data structures,. Instead Infobright's self-managing solution delivers rapid response to complex queries created on-the-fly. While other products require complex, expensive hardware infrastructure to provide high performance and scalability, Infobright scales to

30TB+ using a single server and has industry-leading data compression (10:1 up to 40:1) that significantly reduces storage requirements. Built on MySQL, Infobright is the ideal solution for MySQL users looking for a highly scalable analytic database.

Architecture

The following image gives an overview of the end-to-end architecture for open source BI, ETL, and data warehouse environments powered by Jaspersoft and Infobright.



Features of Open Source versus Commercial Edition

Commercial subscriptions release customers from the GPL restrictions, provide premium features, and a committed level of customer support.

	Open Source (GPL)	Commercial License adds:
Jaspersoft	Community Edition	Professional Edition
Support and Services	Forums and/or support pack	Standard and Premium
iReport (available standalone or embedded within NetBeans)	Desktop report designer for pixel-perfect reports and dashboards	Create ad hoc reporting components which may be deployed to JasperServer for use by business users
JasperServer	<ul style="list-style-type: none"> Report management Secure repository Scheduling Dashboards 	<ul style="list-style-type: none"> Ad hoc reporting Ad hoc dashboards Domain designer In-memory analysis
JasperAnalysis	Analysis (Relational OLAP / "R-OLAP") to "slice-and-dice" data	Performance and security enhancements
JasperETL	Single developer seat	Activity Monitoring Console Multi-developer repository, data profiling, and data cleansing available separately from Talend (www.talend.com)
Infobright	Community Edition	Enterprise Edition
Support and Services	Forums and/or one-time 4-hr support pack	Silver, Gold and Platinum Warranty and indemnification Value-added services
INSERT/UPDATE/DELETE	No	Supported
Infobright Loader	Single-threaded; 40 GB/hr	Multi-threaded; up to 280+ GB/hr
Data Load Types	Text only	Text & Binary (100% faster)
MySQL Loader	No	Supported
Temp Tables, Materialized Views	No	Supported
Platform Support	32 and 64-bit Intel and AMD RHEL 5, CentOS, Debian, Ubuntu, Fedora, MS Windows (32-bit)	64-bit Intel and AMD RHEL 5, CentOS, Debian, Solaris10

Minimum System Configuration Recommendations

	Open Source (GPL)	Commercial
Jaspersoft	Community Edition	Professional Edition
iReport	<ul style="list-style-type: none"> ○ Windows 98/2000/XP/Linux ○ Disk: 30MB 	
JasperServer and JasperAnalysis	<p>Memory</p> <ul style="list-style-type: none"> • Minimum: 512MB • Recommended: 1GB+ <p>Disk</p> <ul style="list-style-type: none"> • Footprint: ~600MB • Minimum: 10 GB free • Recommended: 40 GB + <p>Processor</p> <ul style="list-style-type: none"> • 1 GHz (single Pentium) • 1.5 GHz + (multi-core Pentium) 	
JasperETL	<ul style="list-style-type: none"> • Java-based; Java JDK 1.5 or higher • Runs on the majority of operating systems • Run-time code generated is standalone and does not require an execution engine 	
Infobright	Community Edition	Enterprise Edition
Processor Support	<ul style="list-style-type: none"> • 32 bit - 1.6GHz minimum, 2.0GHz or faster dual or quad core recommended • 64 bit - 1.8GHz minimum, 2.0GHz or faster dual or quad core recommended 	<ul style="list-style-type: none"> • 64 bit only - 2.0 GHz or faster dual or quad core
Memory	<ul style="list-style-type: none"> • 32 bit - 1GB minimum, 2GB or more recommended • 64 bit - 2GB minimum , 4GB or more recommended 	<ul style="list-style-type: none"> • 8GB or more recommended

Contacts

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