



# FineReport

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## PRODUCT INTRODUCTION

# What is FineReport?

FineReport is a “professional, simple and flexible” enterprise reporting software developed by FanRuan Software Co., Ltd., architecturally designed based on “No-code development” concept. With FineReport, users can design complex reports and build a Decision-making Platform with drag-and-drop elements. FineReport is a leading reporting software brand in China with the largest domestic market share and widespread clients in various in various industries and departments.

# Why FineReport?

## Why do Software Companies Need FineReport Reporting Software?

### Problems arising from coding from scratch:

- Long project life cycle and frequent delays.
- Project members are under pressure and overtime work.
- Poor demand expansion and the lack of a fast response to new demands.
- Poor software quality and system performance with lots of bugs.
- Difficult and complicated maintenance.
- High turnover risk and significant brain-drain consequences.

### Disadvantages of open source software:

- Limited functionality, cannot meet your own requirements.
- Unguaranteed services, and product bugs.
- High learning costs, requiring the long-term study.

The advent of FineReport provides a complete solution to the above problems and makes it possible for the efficient development of reports. It also helps you advance your project progress and reduce project costs.

## Why do End Users Need FineReport Reporting Software?

### Problems arising in the process of information construction for the enterprise:

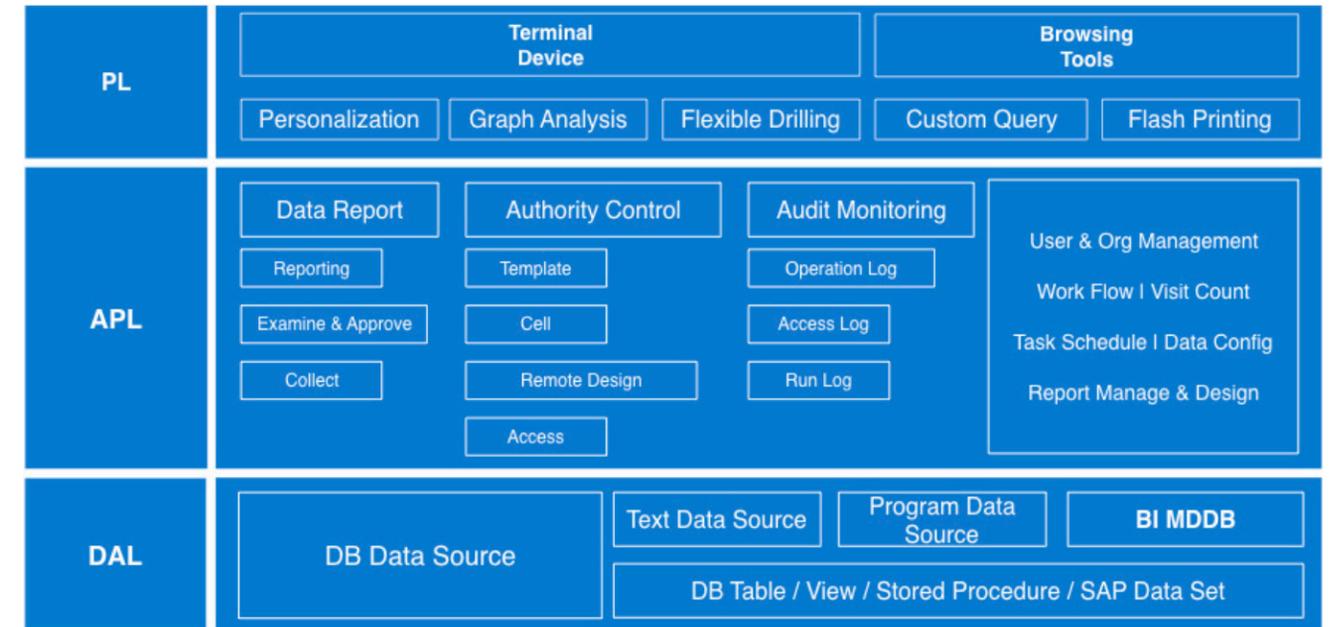
- Business data shot up yet few of them are used for operation analysis and business management.
- Business data is scattered and difficult to utilize.
- Manually data processing results in a heavy workload, low accuracy, and poor security.
- Original reports fail to adjust to a quick business to serve the new business.
- No unified reporting management portal.
- The general and straightforward data display fails to give managers a holistic view of all the information.
- People on business trips cannot view reports conveniently.

### FineReport reporting software provides solutions to tackle all the aforementioned difficulties.

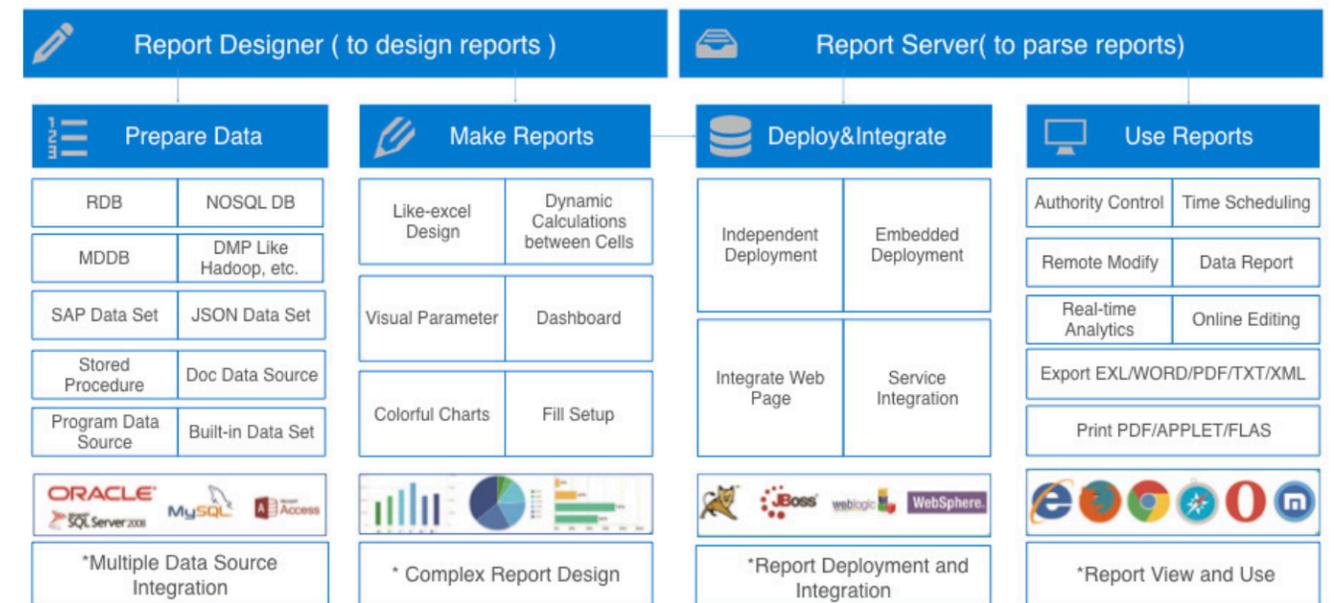
<h4>Data Mashup</h4> <ul style="list-style-type: none"> <li>· Conveniently connect to multiple data sources.</li> <li>· Transfer data sets from multiple sources via a drag-and-drop interface.</li> <li>· Combine related businesses data into one report, providing a comprehensive understanding.</li> </ul>	<h4>Data Collection</h4> <ul style="list-style-type: none"> <li>· Easily realize data-entry from report to database, no matter for personal use or concurrent with several users.</li> <li>· Ensure the correctness of the data format by data validation and intelligent submission control.</li> <li>· Conveniently collect data anytime, anywhere both online and offline.</li> </ul>	<h4>Data Display</h4> <ul style="list-style-type: none"> <li>· Gain deeper insights through various analysis display: chart analysis, drill-down analysis, multi-dimensional analysis, custom analysis, and real-time analysis.</li> <li>· Be accessible in multiple terminals: PC, mobile, large screen.</li> </ul>
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# Product Composition

## Functional Structure



## Application Architecture



# FineReport Functions

## Data Report

### Data Support

#### – Relational databases:

Oracle, SqlServer, MySql, DB2, Sybase, Access, etc.

#### – Text data sources:

Excel files, TXT files, XML files, etc.

#### – Multidimensional databases:

Essbase / ssas / sap / hadoop / FineCube

#### – Nosql data source: MongoDB

#### – Built-in datasets:

Server built-in datasets and report built-in datasets

#### – Others:

Program data source, json, SAP data source

### Export and Print

· Various export types including PDF, WORD, EXCEL, TXT, SVG and image format (PNG, JPG, BMP, etc.).

· Three export styles including page break export, original export, page break&sheet export.

### Remote Design

· Remote design allows users to modify the template by connecting to a working directory on a remote server.

· The template design and data connection permissions ensure the data security when multiple departments jointly develop reports through remote design.

### Excel-like Design Mode

· An Excel-like design mode with bound data column greatly reduces the cost of learning. Anyone who is used to Excel will be a fast learner of FineReport.

· A drag-and-drop interface for non-technical users to quickly create a web report without additional learning or code base.



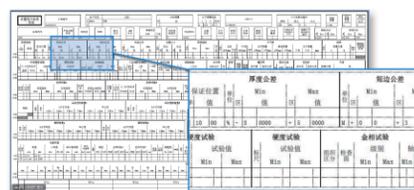
## Complex Report Processing

Finereport can design complex reports with multiple sections using multi-data sources association, group report, dynamic calculations between cells, as well as row and column symmetry, allows efficiently produce various types of statistical reports such as finance, HR, sales, inventory, logistics.



### Aggregation Reports

The aggregation reports designed for large complex reports splits the original report regularly. Each aggregation block is independent, with an organizational relationship between them.



### Interactive Analysis

Quickly build interactive dashboards, chart linkage, data linkage, drill into details to perform advanced analysis

Reports and dashboard feed from real-time data to gain instant insights.

## Data Fill-in

Massive data volume fill-in is supported by rich widgets.

Intelligent data submission control satisfies customized submission requirements.

Comprehensive data validation ensure the correctness of the data format.

Offline data fill-in still provides widgets, data validation, automatic calculation, and other functions.

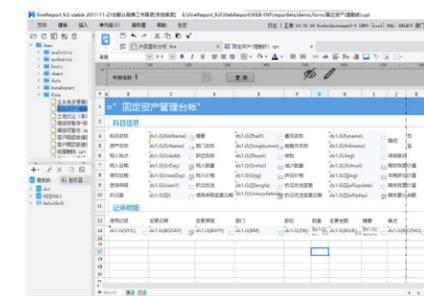
Smart temporary storage avoids data loss

due to accidents.

The multi-sheet fill-in combines multiple independent reports in a tab way for easy editing of various reports at the same time.

Multi-level report fill-in quickly meets the needs of reporting and business approval based on the process and scheduling engine.

Batch excel import help users import the data from excel into the database in batches.



## Decision-Making Platform

The characteristics of the decision platform.

### Unified Access

Through the control of users and permissions, users of different roles can access the report view and report function that meets their needs through a portal system.

### Centralized Management

Provide a unified system management environment for system resources, users, permissions, report templates, logs, and timed scheduling in the data decision system, which is convenient for users' daily management.

### Classification Maintenance

Based on the consolidated and standardized report data, it provides corresponding report development tools for different types of reports, adopts a unified report template customization and release plan, simplifies the maintenance of reports, and reduces the dependency of report maintenance on IT technicians.

### Directory Management

Support multiple directories; administrators can add, delete, or modify the directory structure of the platform.

### Authority Management

Support two-way assignment of permissions according to permission items and permission recipients, with an extremely granularity of permissions.

### User Management

Support for manually adding, importing, or synchronizing user data sets to add users and their roles in bulk.

### System Management

Provide login settings, password settings, print settings, mail server, cache, SMS platform settings, and more.

### Intelligent Operation and Maintenance

Provide functions such as visual memory management, cluster configuration, backup and restore, intelligent detection, cloud operation and maintenance, and platform logs.

### Appearance Configuration

Support customizing the interface, background, information tips, and theme

### Timing Schedule

Arrange a scheduled task; the server automatically generates a report and sends it.

### Safety Management

Provides security, access control, and SQL anti-injection capabilities.

## Data Visualization

### Chart

Multiple chart types

Custom chart style

Coordinate tips

Data tips

Interactive highlighting

Chart zoom

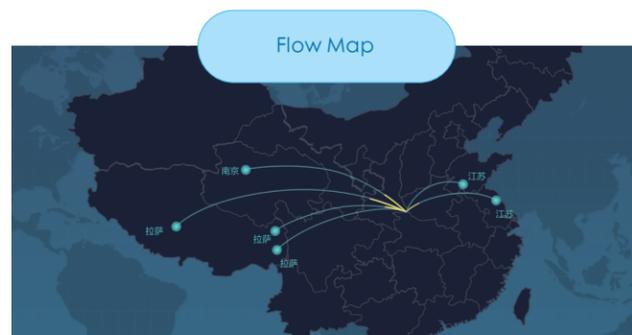
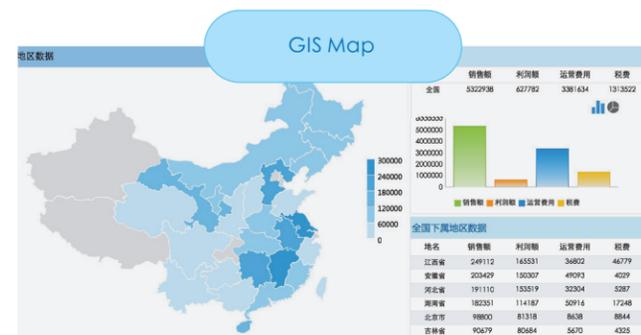
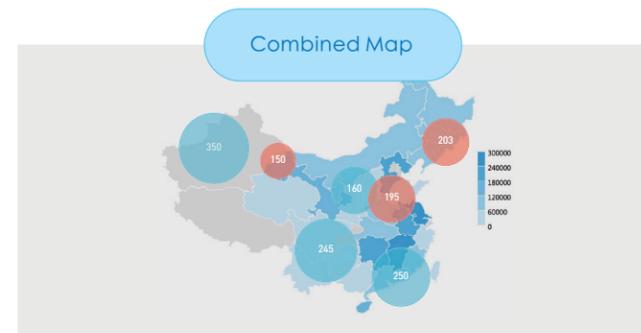
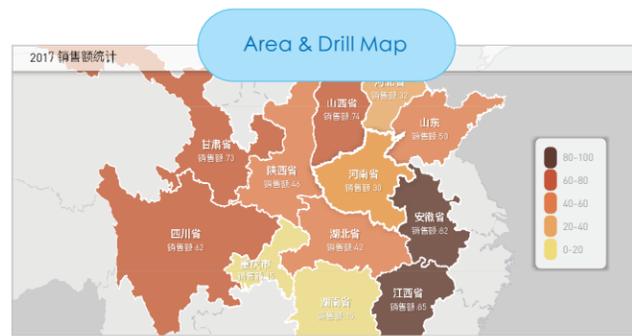
Chart switch online

Series interaction

Multidimensional coordinate



## Data Map



## Dashboard Application

- The Dashboard created for mobile terminals and large screens has many unique properties.
- Provide an excellent report large-screen display function including nearly 10 large screen 3D effects, 15 dynamic loading effects, linkage, and off-screen control.
- A powerful and comprehensive 'management dashboard' can be constructed for an enhanced presentation of various business indexes and the multi-dimensional analysis of data.



## Mobile Application

- Support component design, responsive layout, adaptive scaling of the mobile report (also can be locally operated by gesture), data drilling, chart linkage, data linkage, fill-in. Also provides a good mobile experience, such as page turning, collection, comment sharing, etc.
- Support scanning QR code to add servers, binding mobile devices, and adequately ensuring user information security.
- FineReport has a user-friendly APP (name: data analysis) that supports IOS and Android systems. FineReport supports sharing reports between mobile and PC, as well as the integrating reports into third-party APPs.

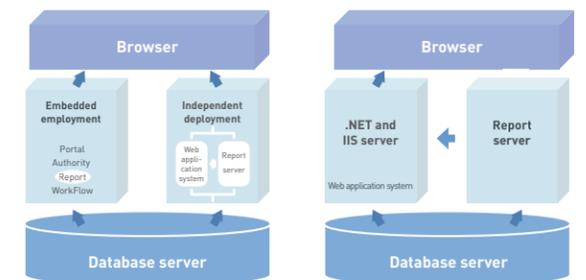


## Others

### Deployment & Integration

FineReport is a pure JAVA software which can be seamlessly integrated with JAVA projects. It supports independent deployment and embedded deployment. Non-JAVA projects can also be perfectly deployed and integrated with the support of an independent web server.

C/S system and page integration are realized through embedded browser controls and iframe.



### Extended Development

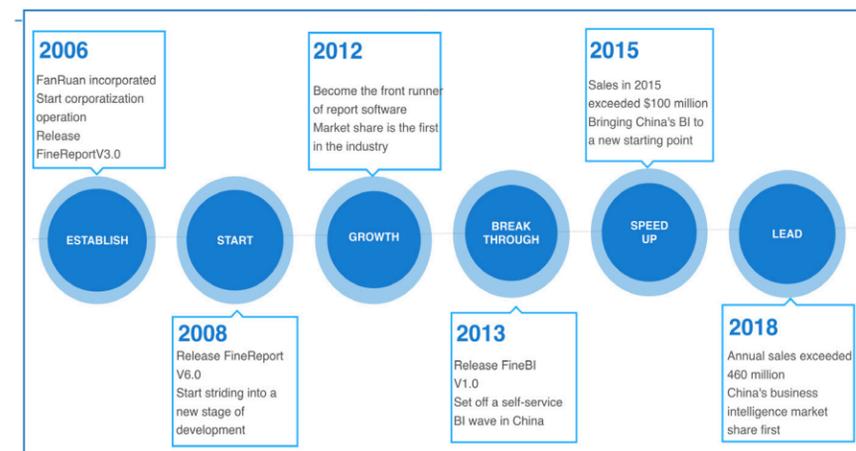
FineReport is not a closed product. It enables application developers to develop and control in depth through the use of web scripts, API interfaces, etc.; it supports plug-in development, installation, use, and management to satisfy their individual needs.

### Security Management

To ensure the security of enterprise applications, FineReport focuses on security and improves application security from both patching and proactive prevention.

- Access Control
- SQL anti-injection

## FanRuan Software Co., Ltd.



The number of customers exceeds 8400.

Countries or regions covered by our business: Mainland China, Taiwan, Japan, Korea, Singapore, Thailand, USA, etc.



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FineReport Reporting Software

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