

## Enterprise Platform

A high performance, flexible and scalable technology platform for enterprise portfolio and risk management

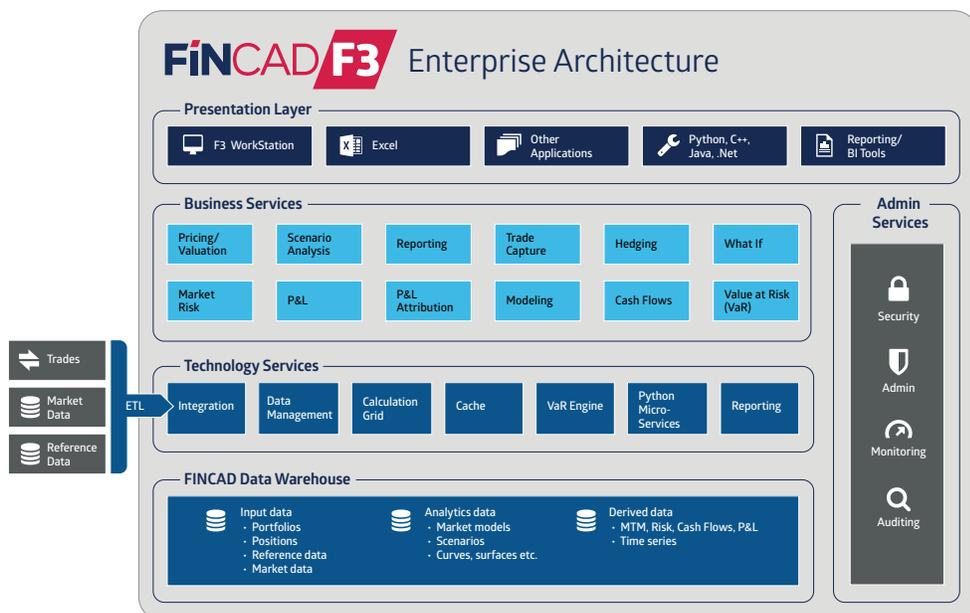
### Industry Challenges

Buy-side organizations face a myriad of market and business challenges that make it difficult to retain a competitive advantage. Such firms need sufficient scalability of their technology, helping them to cope with the complexity and growth of their business.

In order to respond quickly to a fast-moving and highly unpredictable marketplace, they must overcome issues around handling negative rates, OIS discounting and greater regulation. They are also under pressure to ensure timely, precise and transparent financial metrics that are both consistent and accessible across the front and middle office, helping them make better investment decisions and leave a proper audit trail to satisfy clients, regulators and stakeholders. Finally, buy-side firms must find a way to accomplish all of this while keeping costs under control.

### The Solution

F3 Enterprise Platform's high performance, distributed architecture is designed to run efficiently and scale with the complexity of your business. Deployable on-site or via a hosted service in the cloud, the solution offers the fast delivery and ease of use of off-the-shelf software, combined with supreme flexibility for customization.



## How You Benefit

**Ensure accurate and transparent metrics:** Get on-demand and intraday reports on valuations, value-at-risk (VaR) and exposures, highly customizable and transparent analytics that can be drilled down into, and consistent modeling and data for front-office and middle-office valuations and risks.

**Cope with business complexity and growth:** F3 Enterprise Platform technology enables multi-user workflows and improved cross-team collaboration with timely and consistent information across the entire business. Scalability enables you to maintain high performance as your organization expands portfolio size, trade complexity, report complexity and number of users. Additionally, F3 Enterprise Platform allows you to quickly respond to bespoke needs around analytics, reporting and decision-making.

**Respond fast to changing market conditions:** F3 Enterprise Platform enables a quick deployment, keeping IT costs low, and full customization of the solution to fit your specific requirements. Rapid deployment helps you quickly adapt to an evolving and unpredictable marketplace.

**Reduce operational risk and comply with IT governance requirements:** Use F3 Enterprise Platform to automate and standardize business workflows, maintain data integrity and ensure proper access controls and security. In addition to high availability and fault tolerance, the technology also provides a complete and transparent audit trail and change control tools.

## Architecture Highlights

### Scalability

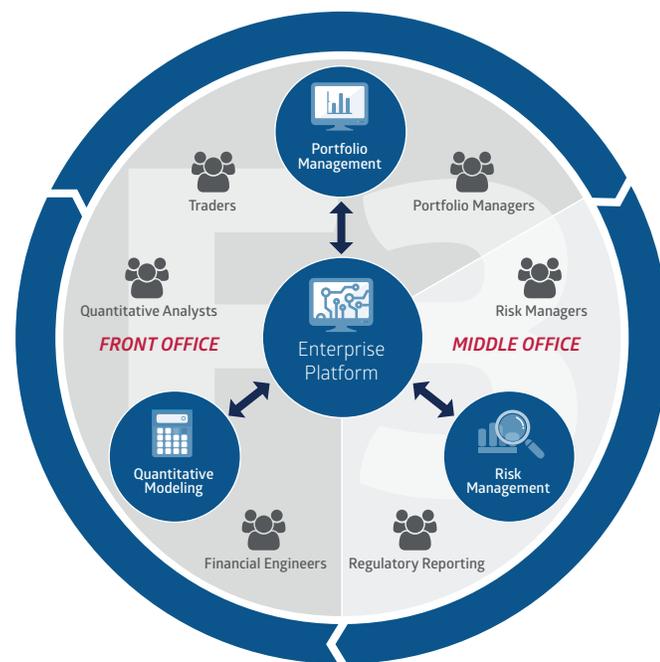
F3 Enterprise Platform is enterprise technology that is quick to install and deploy on a variety of hardware/software platforms. The technology addresses scalability with a built-in calculation grid that enables a pool of worker processes that perform independent calculations in parallel, so you can take full advantage of your hardware, or even send select processes to the cloud to achieve required performance levels. A scalable cache enables efficient retrieval of objects in a distributed environment, and an in-memory risk engine facilitates fast calculations.

### Integration Tools and API's

F3 Enterprise Platform is easily integrated with Microsoft Excel, Matlab or any other in-house application, helping you to price, value and manage trades and portfolios. The technology connects with trade data, security master, standard market data sources including Bloomberg and Thomson Reuters, and other data providers such as Intex and Andrew Davidson & Co. Connect your applications through our next generation Platform API using Python, Java, C++, C#, and other languages.

### Collaboration Tools

F3 Enterprise Platform provides excellent tools and services for collaboration, helping to keep team members informed and focused on their core business function. The technology serves the entire organization, helping to align departments on the same consistent and up to date data. Attribute task ownership to business units and individuals, fostering teamwork and accountability.



## Security, IT Compliance

Data management services, data auditing and access controls all ensure a secure environment. Furthermore, support for disaster recovery and failover gives you greater confidence in your operations. In the event of a calculation server failure, the platform manager reroutes calculations to other available servers as needed.

## Developer Tools

Developers have the option to obtain the financial modelling instructions developed by quants, and upload them to the platform without the need to write analytics code. Using F3 Enterprise Platform, the analytics part of your applications can be made data-driven, so developers can focus on application design and integration, reducing time to deliver applications.

Our next generation API provides a way to easily access the F3 Analytics platform over HTTP. It also offers the flexibility for developers to use programming technology of their choice that is supported by all major programming technologies including: Python, C++, C# and Java.

## Data Management Services

Standard business processes and workflows are built into F3 Enterprise Platform, helping you to deploy the technology faster. Access to resources is controlled by assigning permissions to various user roles. In order to simplify audit of valuation and risk measures, all data changes made in F3 Enterprise Platform are recorded and are easily accessible through the F3 Enterprise Platform API.

## Extensibility

As a F3 Enterprise Platform client, you can customize and configure screens, dashboards and reports to fit individual workflow requirements. Easily link to other processes and systems as necessary. The architecture provides for ease of integration with industry standard database technology, market data feeds, and web servers. Additionally, users have the option to utilize F3's standard out-of-the-box models to speed time to market, or integrate proprietary models with the F3 analytics framework.

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