



TRADExpress Platform

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Introduction

TRADExpress Platform makes up the backbone of all of our product-based offerings. The platform encompasses the infrastructural components needed for true mission critical transaction solutions. You can expect extreme performance in terms of low latency, high throughput and scalability.

All of our offerings have a layered design with the TRADExpress Platform as the base. The business logic of each specific product is added on top of the platform layer.

Further, over and above the business logic functionality, we also offer customizations, as this is often a desirable part of a complete solution. This means that we can support and develop your unique business model and thereby further strengthen your competitive edge.

It also means that you can rapidly introduce new products, adapt to any changes in the market and that demands from your customers can quickly be met.

This architecture reduces delivery time, project costs and the overall risks in the project.

The TRADExpress platform today powers some of the most important marketplaces in the world. This means that every day we are out there, we gain more knowledge, experience and value in its ongoing development.

Some key design aspects are:

Reliability

A fault-tolerant architecture uses servers running in redundant pairs, usually at two different sites. If a primary server fails, the hot standby immediately takes over. This means that no transactions will be lost and the fail over time is virtually zero.

Latency

In order to minimize response times, all active information is kept in memory for fast and efficient processing. The latest technologies are applied. These include true one-to-many broadcasting, deferred writes using state-of-the-art memory cached disks, and multi-threading. Optimized load partitioning means that nothing written to disk is part of the critical path of the transaction processing.

Scalability

To enable rapid adaptation to swiftly growing volumes, TRADExpress has a partitioning scheme that allows a system to grow by reconfiguration. Unique mechanisms support partitioning in several dimensions.

This means that it is possible to add hardware to the system without needing a new release.

Operability

TRADExpress offers a comprehensive system operations package that allows you to keep your marketplace open around the clock, seven days a week. All you need is a service window of less than an hour per week. There is also extensive support built in for monitoring all business processes.

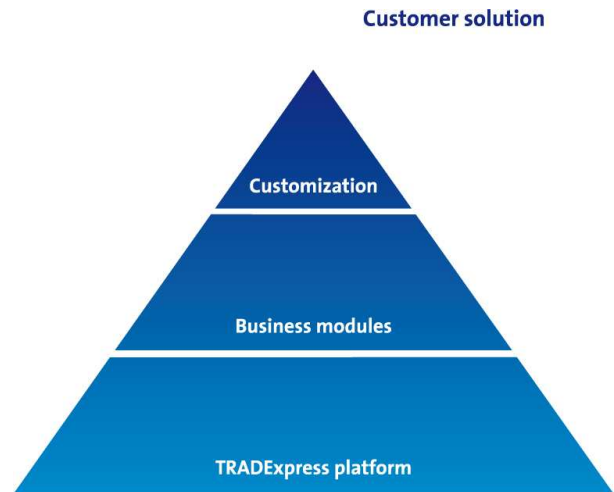
Flexibility

The platform consists of a set of components tied together. The benefit of this is the possibility to replace individual components as technology changes or new techniques become available, without having to rebuild or reorganize the entire platform.

TRADEExpress is implemented in Java and is thus platform independent. It runs on all hardware and software platforms that support Java Virtual Machine (JVM) and supports a wide range of databases (Oracle, MySQL, IBM DB2, Sybase, Microsoft SQL Server databases) and operating systems.

State of the Art Messaging

Messaging technology is one of the core TRADEExpress components. Transactions can be received from a large number of users. The system handles them securely and efficiently and results can be broadcast to a large, spread out community.



Passion for change | Cinnober provides mission-critical solutions to the world's most demanding financial marketplaces.

We are passionate about one thing: applying advanced financial technology to help marketplaces seize new opportunities in times of change.

We build partnerships with our customers based on trust and transparency. We serve banks, exchanges, brokerage firms and other actors that have extreme demands on business functionality, high throughput and low latency.

We currently have product-based offerings for a number of areas, such as marketplaces, post-trade management and binary markets. All solutions use our TRADEExpress™ technology, designed for scalability and flexibility.

Among our customers are Alpha Trading Systems, Turquoise, Markit BOAT, the Chicago Board Options Exchange, Liffe NYSE Euronext, the London Metal Exchange, Deutsche Bank, Borsa Italiana and the American Stock Exchange.

We are an independent provider of marketplace solutions, and do not operate a market of our own, avoiding any conflicts of interest. We are not owned by – nor have any ownership interests in – any market operator.

Our track record says it all. We help our customers turn change into a competitive advantage.



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