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## Iris Technology

We leverage an innovative set of technical and business components designed specifically for financial services. Using this component-driven approach, we bring complex, high-volume solutions to market at a pace unmatched in our industry.

Our technology reusable nature of the Iris Financial CSA technology to build applications that are at once comprehensive and completely flexible to match exactly how our clients do business – with an unbeatable time-to-market, so our clients see a demonstrable return on investment in a matter of months.

Our technology is organized around two primary areas:

### Technology Components

Our platform includes core technology components that provide the supporting infrastructure upon which business- and asset-specific components and functionality are based. The core componentry gives Iris applications their inherent performance power, stability, scalability, and ease of integration.

### Business Components

The business components of our technology deliver those features and functions that are common across all asset types, including position keeping, P&L and the unique characteristics of the asset classes we address, including equities, fixed income, and foreign exchange. This enables us to deploy our products as an institution's single solution.

### Technological Capabilities

We employ several techniques to ensure the high-performance nature of our components:

- **Decoupling:** independent features are decoupled from one another, allowing them to run in parallel
- **Multi-threading:** components to take advantage of additional processors on multi-processor machines
- **Thread Pooling:** the number of threads available to a component can be controlled to provide maximum efficiency
- **Serialization Optimizations:** Components employ a number of techniques to reduce the amount of serialization when passing data between components
- **Data Caching:** all data stores can be configured to cache data
- **Parallel Execution:** data is delivered to components in parallel whenever possible
- **Adaptive Event Delivery:** to better cope with peak loads, events can be delivered in batches to smooth processing requirements.

### Scalability

Our solutions include the inherent ability to scale vertically and horizontally.

- **J2EE Clustering:** our solutions leverage clustering to run across multiple systems
- **Application Partitioning:** solutions can be broken up into sub-systems and run on different systems
- **Data Partitioning:** transactions and requests can be routed across a number of systems based on a set of criteria.

### Integration

We use a Data Model Independent, Transformer/Adapter pattern to make integration easy and non-invasive, both with ancillary systems and existing databases.