



# Architecture

The Java™ 2 Platform, Enterprise Edition (J2EE) drives the SEG Software architecture. J2EE is the standard for developing multi-tier enterprise applications in the 21<sup>st</sup> century. By adhering to this standard, SEG Software delivers an industry proven, component-based, vendor neutral design.



Components are at the core of the J2EE application model and SEG Software architecture. Each business component is designed to achieve the ideal architectural properties of both high cohesiveness and loose coupling. High cohesiveness allows each component to master the delivery of a specific business service, while loose coupling minimizes the impact one component can have on another. Deploying the components in a standard J2EE server environment enables users to utilize the database, application server or operating system of your choice.

The innovative architecture of SEG Software extends beyond its J2EE foundation with its use of:

- Architectural patterns for design elegance and consistency. As enterprise applications become increasingly complex, the need for using established enterprise architecture patterns becomes critical. SEG Software uses industry proven patterns throughout its application layers for ease of maintenance.
- XML centric data representation and transport for truly universal data exchange. SEG Software's components can communicate with each other via standardized XML technologies. Any application can join SEG Software's federation of components by adopting these ubiquitous industry standards.
- Multithreading and sophisticated caching for high throughput processing. An application's database is often the sore point of performance tuning, as multiple financial processes must be queued, waiting their turn for data storage or retrieval. SEG Software minimizes this reality by threading financial processes to run independently of each other with independent database access. Queuing is minimized while throughput is maximized. Additionally, SEG Software's uses intelligent caching to minimize databases hits.

SEG Software's federation of business services, built upon proven industry standards, delivers mission critical stability, performance, and integration capabilities.

