

EsperTech's Event Stream and Complex Event Processing software turns large volume of disparate real-time event streams into actionable intelligence.

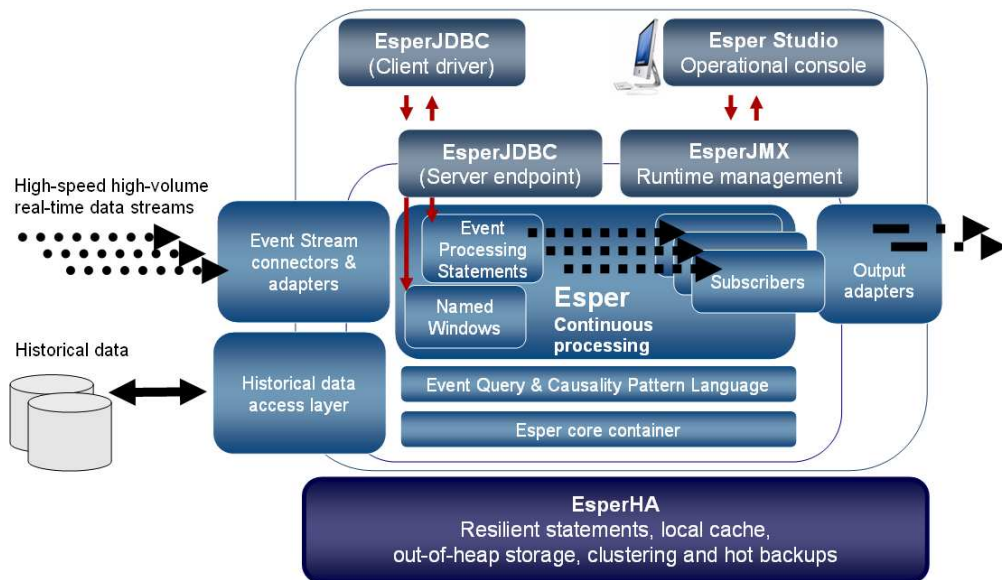
More than ever, projects can turn to real-time Event Processing, from SOA to Edge and eXtreme Transaction Processing deployments. A new middleware era can provide the simplicity, scalability and level of abstraction required to turn real-time disparate event streams into a sustainable competitive advantage.

Esper, NEsper - Event Processing for Java & .Net

Event Stream and Complex Event Processing - Design continuous queries and complex causality relationships between disparate event streams with an expressive Event Processing Language (EPL). EPL statements are registered into (N)Esper and continuously executed as live data streams are pushed through.

Rapid development and deployments - EPL has a "SQL look alike" and statement matches trigger plain Java or .Net/C# objects for real-time customized actionable intelligence. (N)Esper is pure Java/.Net and can run standalone or embedded into existing middleware systems (application servers, services bus, in-house systems). This ensures optimal end to end latency and flexible architecture.

Enterprise grade - Esper Enterprise Edition bundles the core Esper CEP engine with **Esper Studio**, an operational console for runtime management, real-time event stream views and ad-hoc queries; **EsperJMX** for runtime management and monitoring over standard interfaces; and **EsperJDBC** for JDBC client and server endpoints for third party tools interoperability.



EsperHA - High-Availability for Event Processing

Scalability and resiliency - Add rock solid scalability to your Esper deployments with out of heap storage, complete resiliency, clustering and hot backup capabilities for event and streams state.

Drop-in - EsperHA turns any Esper application into a zero-downtime event processor with just declarative configuration and limited operational requirements suitable for both standalone and embedded deployments.

Optimized and extensible - EsperHA includes highly optimized and scalable market proven data storage technology and also features a plug-in SDK to leverage third party event stores and distributed caches.

Features at a glance

Efficient Event Processing

- Continuous queries, filtering and computations (min, max, avg, stddev, vwap, ...)
- Continuous joins
- "Followed by" logic and detection of missing events
- ESP and CEP federated processing
- Time and length based sliding window
- Output flow control
- Continuous joins of streams and historical data stored in relational databases, with local caching
- High performance, low latency

Extensible Middleware

- Java, .Net, Map or XML events
- Runtime statement management
- API or configuration driven
- Plug-in SDK for functions, aggregations, views and pattern detection extensions
- Agile development and testing, integrates with Eclipse
- Adapters: CSV, JMS in/out, API
- Runtime management, operational visibility, interoperability

Scalable and HA enabled (EsperHA)

- Per statement configuration
- Transient, out of heap storage, or fully resilient behaviour
- Configurable checkpointing
- Hot standby API
- Hot backup utilities
- Highly optimized and scalable data storage technology
- Plug-in SDK for third party event stores and distributed caches