

"Event Streaming" || How event streaming works in EDA

Event streaming in Event-Driven Architecture involves event generation, publication by publishers, routing and delivery by Solace's messaging platform, consumption by subscribers, real-time event processing, scalability, and security.

Event Generation: Events are generated by various components or sources within a system. These events could be user actions, system events, sensor data, application updates, or any other type of relevant information.,

Event Publisher, Producer, : Publishers are responsible for sending events to the Solace messaging platform. Solace provides various APIs and protocols, such as MQTT, AMQP, and REST, that allow publishers to format and publish events to specific topics or queues.,

Messaging Platform: The core of messaging platform, which includes Event Brokers. These brokers are distributed across the infrastructure and manage the flow of events. They store and route events efficiently, ensuring reliable delivery to consumers.,

Event Topics and Queues: Solace uses topics and queues as channels for event distribution. Topics are used for publish-subscribe scenarios, allowing multiple consumers to receive events published to a topic. Queues, on the other hand, are used for point-to-point communication, where an event is delivered to a single consumer.,

Event Consumer, Subscriber, : Consumers subscribe to topics or queues to receive the events they are interested in. Solace provides different ways for consumers to connect and consume events, including APIs, protocols, and client libraries in various programming languages.,

Event Processing: As events are published to topics, Solace's brokers ensure that the events are efficiently delivered to all interested consumers. Consumers can process these events in real-time, performing actions, analytics, or updates based on the incoming data.,

Event Routing and Filtering: Solace provides powerful event routing and filtering capabilities. Consumers can specify filtering criteria to receive only the events that match their requirements, reducing unnecessary processing.,

Event-Driven Applications: With Solace, organizations can build event-driven applications that respond to real-time events, enabling use cases like IoT data streaming, financial trading, supply chain monitoring, and more.