

Reactive Stream in JDK 9



Reactive Stream

The purpose of Reactive Streams is to provide a standard for asynchronous stream processing with non-blocking backpressure.

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Flow API in JDK 9

In JDK 9, the Flow APIs correspond to the Reactive Streams specification

`java.util.concurrent.Flow`

Flow API

- The processing of enormous numbers of elements
- The processing of the elements sequentially
- Passing of the elements between the elements asynchronously
- Mandatory non-blocking back-pressure

API components

- Publisher<T>

This publishes a sequence of elements according to the demand coming in from the consumer.

API components

- Subscriber<T>

Every Subscriber demands for elements to consume from the Publisher.

API components

- Subscription

Subscription is the communication between the Publisher and the Subscriber.

API components

- Processor

The Processor is a processing stage that is obeyed by both the Publisher and the Subscriber