The Open Source Complex Event Processing Platform

Obtain and respond to business intelligence faster.
Easily adapt to changing needs.

The Pion™ platform is a new approach to obtaining intelligence from the processing of event streams.

Definition:
Reactors

Pion uses a unique system of Reactors—configurable plug-ins that process events and create new output streams—to interpret and react to events in real time.

How Pion Reactors Work

Types of Reactors:

01. Collection

Collection Reactors gather events from a variety of data sources such as page tags, server logs and network packets, and deliver them to other Reactors for further processing or storage.

02. Processing

Processing Reactors filter, clean, sessionize, aggregate and correlate events. Data can be processed from a single stream, or multiple streams of different types.

03. Storage

Storage Reactors save events to different types of data stores, including Pion's embedded MySQL database. The data is accessible via web services, ODBC, JDBC, and MySQL's native API.

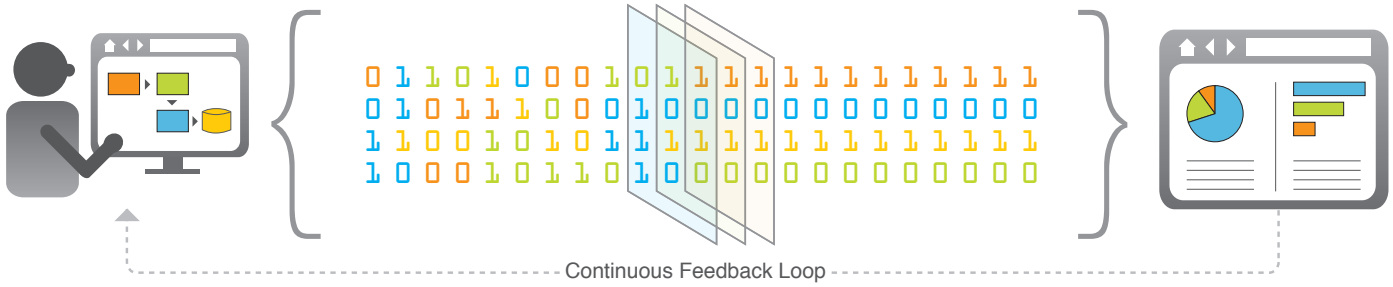
Reactor Configurations:

- Create web services to feed information to other applications and dashboards using open data formats and protocols
- Chain them together to create complex processing pipelines
- Connect them on the same server for performance or distribute them across multiple servers for scalability
- Customize Reactors or build new Reactors with Pion's open API

❶ Configure Rules
The visual interface is used to define collection, processing and storage rules.

❷ Collect & Process Events
Events are collected from tags, logs, network packets and other sources. The processing engine filters, cleans, aggregates and stores the events.

❸ Update Reports
Dashboards give a real-time view of events.



Benefits & Features of Pion

Provides faster and more actionable intelligence	Pion is built from the ground up on a new, real-time architecture. Unlike old batch processing applications, it is designed to understand and react to events as they occur.
Extends to a variety of possible applications	Pion is a flexible, rules-based platform that can solve multiple problems across your enterprise. Pion integrates your data with reusable technology components, rather than tying it into a one-time point solution.
Handles large scale, complex processing	C++ development language, asynchronous I/O, multi-threading capabilities and a distributable architecture make Pion a true enterprise-grade platform.
Keeps your data free to use in any application	Pion uses open source APIs, open data formats and a REST-based web services architecture. Your data won't be locked into a proprietary format. It will remain accessible for integration with other applications.
Decreases your development and management time	A visual web interface for Pion's rules engine makes it fast and easy to define and update rules from your browser. Reusable plugins snap together quickly to create complex processing pipelines.
Uses server resources more efficiently	Pion's extensible architecture allows you to configure the platform in the most efficient way for your own network, and delivers cost-effective scalability over time.

Your Data: Safe & Secure

We take data privacy and security seriously. Pion resides behind your firewall and has the latest in Transport Layer Security (TLS) built-in to prevent tampering, eavesdropping and forgery.

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Pion is an invention of Atomic Labs.
Contact us to learn more about our real-time data intelligence solutions.

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