

# Event Streaming

The exponential growth of event streaming and its pivotal role in event-based platforms is undeniable. The sheer volume of data being handled by these platforms is expanding rapidly. Event streams, also known as data streams, often undergo modifications through event stream processing applications. However, as these platforms expand, concerns arise regarding data volume and veracity. There is a lack of certainty regarding the data being distributed or received, and there is also uncertainty about the overall functionality of the environment.

## The Ask

Conduct a Proof of Concept (PoC) in collaboration with an industry leading event streaming organisation to demonstrate the capabilities of dataSense. The primary objective of this PoC to showcase that dataSense can verify both the published and subscribed data, as well as determine the frequency at which this data appears across different event topics (describes what is happening with the event) within the streaming platform.

The event streaming platform currently provides meta information such as the timing of events without revealing the content itself, dataSense aims to fill this gap by providing insights into the actual value and specifics of the data being transmitted. By leveraging dataSense, the organisation will gain a comprehensive understanding of the data movement within the event streaming environment.

Furthermore, the platform will enable the organisation to receive alerts whenever new data is detected over the streams. This functionality empowers the organisation to effectively manage their event data landscape by staying informed about the influx of data and taking necessary actions in response.

Through this PoC, we aimed to showcase how dataSense can enhance data verification, provide valuable insights into event data, and offer real-time alerts for new data streams. Ultimately, this collaboration enable the organisation to streamline their event streaming processes and optimise their data management strategies.

## dataSense x Solace

As systems and applications become increasingly sophisticated and distributed, the real-time transmission of data from one system to another becomes more prevalent. The Solace event mesh serves as the central nervous system for facilitating this data movement as real-time events.

However, in this dynamic landscape, ensuring the integrity and accuracy of the transmitted data becomes a critical concern. It becomes essential to verify if the data has been accurately delivered to the intended systems or users. Additionally, determining the freshness of real-time data feeds becomes crucial to avoid relying on outdated or stale information.

Enter dataSense, a solution designed to address these challenges. By seamlessly integrating with the Solace event mesh, dataSense acts as a consumer of all event streams, providing real-time and retrospective alerts and insights on the data. Its capabilities enable organisations to make sense of the data by ensuring its freshness, secure access and completeness.

With dataSense, organisations can monitor and verify the integrity of the data throughout its journey within the event mesh. It offers a comprehensive understanding of the data flow, enabling the identification of discrepancies, inconsistencies or potential security risks. Real-time monitoring of data feeds ensures that the information received is up-to-date and reliable.

dataSense's integration with the Solace event mesh revolutionises data management by ensuring integrity, security and freshness. It offers real-time alerts, retrospective insights, and the ability to trace data assets, enabling organisations to make informed decisions and fully leverage the potential of their data. It plays a vital role in ensuring that the data remains trustworthy.





# dataSense x Solace

## dataSense empowers data insights

dataSense seamlessly integrates with the Solace event mesh as a consumer of all event streams, allowing it to provide real-time & retrospective alerts and insights on the data. This integration unlocks the true power of the data, enabling organisations to leverage its full potential.

Now, let's envision the distributed data and system landscape empowered by dataSense. With the platform, we gain the ability to determine the location of the data, precisely identifying where it arrived or left a specific system or event stream. Furthermore, dataSense allows us to track when the data underwent changes, providing a comprehensive understanding of data transformations throughout its journey.

dataSense introduces the concept of "dataSense dataMaps™" within the Solace mesh. Similar to Google Maps, it allows users to track the location, arrival, departure, changes, and trace the journey of data assets across the Solace event mesh. This visualisation capability enhances data management, optimisation and compliance, providing organisations with valuable insights into their distributed data and system landscape - touchpoints, and interactions with various systems and event streams.

By leveraging dataSense's concept of dataSense dataMaps™, organisations can gain valuable insights into the movement and utilisation of their data. They can pinpoint bottlenecks, identify potential areas for optimisation, and ensure data compliance and governance. This comprehensive understanding of data flow empowers organisations to make informed decisions, enhance operational efficiency and unlock the full potential of their data assets.

dataSense's seamless integration with the Solace event mesh, coupled with its dataSense dataMaps™ feature, revolutionises the way organisations navigate and understand their distributed data and system landscape. It provides real-time alerts, retrospective insights, and the ability to trace data assets, enabling organisations to harness the power of their data effectively and make data-driven decisions with confidence.

