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# Event Mesh for Airlines

## Move events and other real-time data within and across your distributed airline systems

The needs of a digital traveler, your airline and your partners are evolving rapidly: NDC Exchange certification, SWIM Cloud Distribution System on-ramp and scoping out workloads for cloud migration are just a few of the digital transformation initiatives you are expected to deliver.

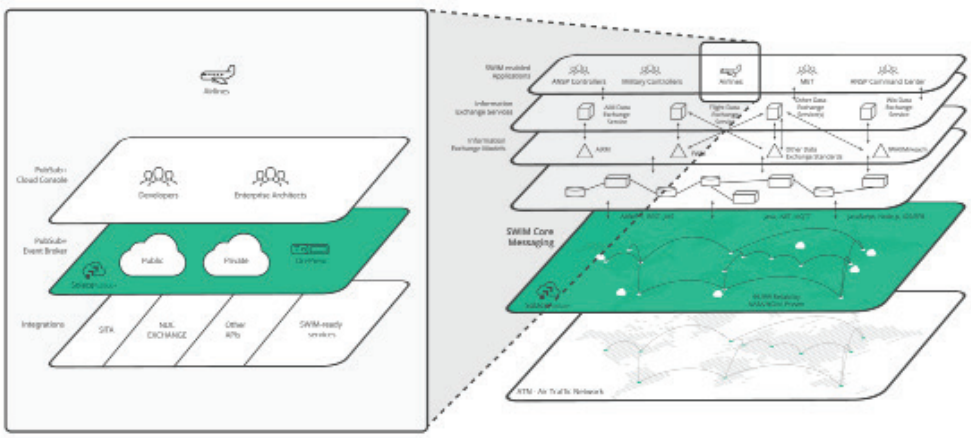
The airline ecosystem is heavily siloed and fragmented across geographies, so it's critical to establish a unified platform that delivers your data across your enteprise and ecosystem – including third parties like ANSPs and OTAs.

PubSub+ Platform meets that need.

- Delivers scale and flexibility in cloud-native and hybrid deployments
- Non-disruptive migration to the cloud
- Run-anywhere technology that's deployable from core to edge
- Integrates with open APIs, iPaaS solutions and legacy technologies
- The core technology for some of the world's largest ANSPs

## Accelerate Your Digital Transformation with an Event Mesh Powered by PubSub+

An event mesh is an architecture layer that efficiently moves events between distributed apps and systems. It is more efficient, flexible and agile than alternative solutions because of its unique dynamic message routing capability, because it can run anywhere, and because it supports a variety of open protocols and APIs that enable modern polyglot application development without lock-in. Your domain-driven design efforts can now rapidly manifest through decoupled services and solutions that improve customer experience, enhance safety and optimize ground operations.




## What an Event Mesh can do for your Airline

- **Integrate services like NDC exchange, SCDS, etc.** with support for APIs and protocols including MQTT, JMS, AMQP, HTTP/REST and WebSocket.
- **Devise strategic and sophisticated workflows** like the addition of AI/ML helpers to existing customer interaction work flows for increased personalisation and response speeds.
- **Collect and distribute data from multiple, geographically dispersed digital customer touchpoints** to craft a personalized and responsive customer experience.
- **Stream events and other data from edge devices and apps** to core systems and cloud services for real-time and predictive decision making.
- **Optimize operations with real-time decision making** on fuelling, crew roster, integration with suppliers/partners and predictive technologies for better command and control.
- **Improve performance and security** through low latency, high availability, disaster recovery, guaranteed delivery, WAN optimization, burst handling, throttling, system monitoring, and end to end security including authentication, authorization and encryption.

# Key Features

## "Aviation strength" reliability and performance

PubSub+ comes with low latency, high availability, disaster recovery, guaranteed delivery, WAN optimization, burst handling, throttling, system monitoring, and end-to-end security (authentication, authorization, encryption).

You can work across environments, across regions, and be best prepared to work through fluctuating system behaviors and unpredictable connections in emerging markets.

## Dynamic: self-routing, self-learning and self-healing

PubSub+ comes with automated and efficient transmission of events between producer and consumer applications, wherever they run. It supports a variety of message exchange capabilities and patterns (publish-subscribe, queuing, streaming, request-reply).

You can build lean and efficient integrations with services like NDC Exchange and save integration time, duplicate data feed charges, and ITSM hours.

## Real-time command and control across protocols and languages

PubSub+ will help you connect with internal systems, airports and specialized services like SITA day-of-travel APIs to manage, e.g., baggage belt allocation, staffing at boarding gates, ground crew movement, etc.

You are not restricted by the variety of platforms in your ever-evolving ecosystem because PubSub+ support APIs for Java, C, .NET, Node.js and embedded C. You can exchange information using a range of protocols like MQTT, JMS, AMQP, HTTP/REST and WebSocket.

## Full visibility of events and intuitive modeling of application domains

Discover and unlock the value of common – and latent – events in your ecosystem. PubSub+ platform gives your architecture and system design teams the ability to intuitively and visually work with events and generate transformational designs.

# Advanced Broker Features and industry-leading scale to deliver consistent performance across your ecosystem.

- Support for publish-subscribe, queuing, streaming, request/ reply
- Reliable, guaranteed delivery, ordered event streams
- Built-in high availability (HA) and disaster recovery (DR): active-active or active-standby redundancy
- Message replay
- Event and message prioritization, dead message queues
- Wildcards, filtering for Topics

### PubSub+ Appliance:

- Non-persistent throughput: 28M messages/sec
- Persistent throughput: 5.5M messsages/sec

### PubSub+ Software:

- Non-persistent throughput: 1.9M messages/sec
  Persistent throughput: 288K messages/sec
- 200K concurrently connected devices per broker instance
- Vertical and horizontal scalability of connections and messages to support virtually any number of connections and message rates

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Solace's smart data movement technologies use open APIs and protocols to rapidly and reliably route information between applications, devices and people across clouds. Elite enterprises and high-growth startups around the world use Solace to modernize legacy applications and successfully pursue analytics, hybrid cloud and IoT strategies.
Learn more or contact us at https://solace.com.