

Deliver global real-time experiences you can depend on at scale, without the complexity of distributed infrastructure

Benefits

- Quickly and reliably deliver critical real-time experiences to millions of users.
- The only pub/sub platform you need: we offer a suite of integrated services to deliver complete real-time functionality.
- Global deployment as standard for low latencies, fault tolerance, and high availability.
- Simplify engineering and architecture with our fully-managed infrastructure and APIs
- Minimize DevOps overhead.
- Increase development velocity and get to market faster.

Product overview

Abyl is a dependable, enterprise-grade publish–subscribe (pub/sub) messaging platform. Our suite of integrated services make it easy to deliver and scale real-time experiences directly to end-users in days, not months. Every day we deliver billions of real-time messages to millions of users for thousands of companies from startups to industrial giants.

Product features

Pub/sub messaging over WebSockets, Message Queuing Telemetry Transport (MQTT), or Server-Sent Events (SSE)

Publish messages to millions of connected devices over multi-protocol connections that support multiplexing. We provide guarantees for message ordering and delivery, exactly-once semantics, and bandwidth-efficient messaging.

Device and user presence

Subscribe to events when devices or users enter, leave, or update their state on channels. This is necessary for many real-time use cases including chat, multiplayer games, and collaboration tools.

Stream resume and message history

Maintain connection state and message history so that disconnected clients can properly catch up upon reconnection. If a client is abruptly disconnected, such as when swapping networks, we try to reconnect every 15 seconds for a maximum of two minutes. You can persist messages for up to 72 hours.

Trivially integrate Abyl with AWS

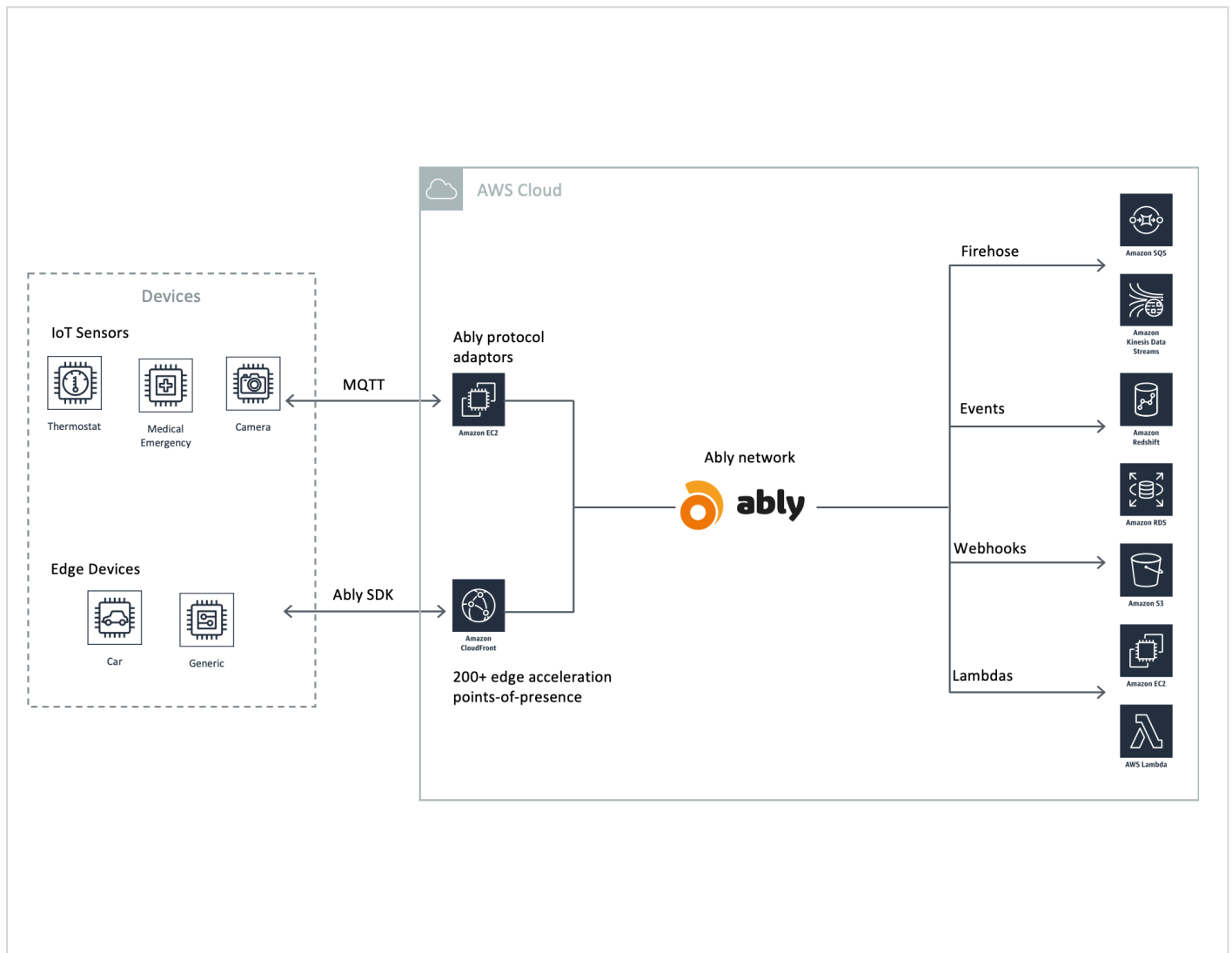
Extend real-time data into AWS and trigger business logic or process data in real-time across services like AWS Lambda and AWS Kinesis.

A global, fault tolerant, highly-available edge network

Guaranteed low latency delivery of all messages to subscribers over our secure, reliable, and highly available global edge network of 15 datacenters and over 200 points of presence (PoPs).

How it works

- **Publish and subscribe:** send messages to millions of global subscribers across multiple platforms
- **Complete suite of services:** build complete real-time functionality like online/offline indicators for multi-occupant online classrooms or instantly showing the most recent location of a delivery driver
- **Integrate and extend:** trigger business logic or process data elsewhere with a library of integrations



Differentiators

- We focus on predictability of latencies to provide certainty in uncertain operating conditions.
- We guarantee ordering and delivery to overcome limitations of pub/sub and simplify architecture.
- Our infrastructure is fault tolerant at regional and global level for reliability of service.
- A transparent, mathematically grounded design for extreme scale, elasticity, and service uptime.

What our customers are saying



*In a high-stakes environment
Abyl exceeds expectations.*
- Joe Antonia, CIO, VITAC

Data Points

<65ms

roundtrip latency in
99% percentile

Billions

of messages
sent everyday

99.999%

uptime SLA

Millions

of connected devices
served by our network
everyday

Additional Resources

- [Abyl's Four Pillars of Dependability](#)
- [Using Abyl's pub/sub platform at scale](#)
- [Companies building on Abyl](#)

Product Specifications

Pub/Sub Messaging	Device and User Presence	Message History and Stream Resume	AWS Integrations	Global edge network
A complete pub/sub platform for all realtime needs	Stream using WebSockets, MQTT, or SSE for any device	25+ SDKs that cover all major platforms	Push Notifications for live updates or native notifications	Library of integrations with the AWS ecosystem
Performant and reliable	Unlimited subscribers for infinite scale	15 datacenters and 200+ PoPs means global subscribers get lowest latencies	Messages always arrive, in the order they were sent	Keep your architecture simple as we handle the hard problems
Fault tolerant and highly-available	Global and regional fault tolerance ensures reliability	Massive elasticity to handle instant surges in demand	Global deployment across multiple regions for reliability	99.999% uptime SLAs

Solution available in [AWS Marketplace](#)