

The Aply API Streamer

Deploy, manage, and distribute streaming APIs to your customers over the Aply network.



Data sheet 2019

The realtime economy is growing exponentially. Organizations that facilitate easy integration with their streaming APIs now will reap the rewards that only first movers can.

The modern internet is built on exposing and consuming data through REST APIs. Some of today's most valuable businesses made their fortunes by being the best at making their APIs readily available.

But digital interactions following the request/response model are rapidly moving towards digital experiences that play out in real time. Each sector has pioneers that recognize this and, driven by customer demand, are either developing streaming APIs to provide realtime data or looking for ways to incorporate more streaming data into their applications and services.

The system architectures and management methods that got us to this point make it prohibitively complex and costly to effectively expose streaming APIs. While countless tools exist to help organizations manage their REST APIs, none have existed - until now - for their streaming equivalents.

The Aply API Streamer fills this gap. It helps organizations effectively deploy, manage, and distribute streaming APIs, and trailblaze live, next generation online experiences.

Serverless deployment

Aply provides fully-managed serverless infrastructure so you can quickly deploy streaming APIs. We support integration with cloud, hybrid, or on-prem environments for seamless integration whatever your architecture.

Native interoperability = reusable API endpoints

To serve different protocols, platforms, or languages developers normally need to deploy a separate data stream for each. This generates extra up-front engineering cost and ongoing maintenance work. It also limits customer integration options which drastically reduces product adoption.



Benefits

- ✓ **Safe and secure**
We keep your APIs and data safe and secure from attack. Denial of Service (DDoS) protection and mitigation is baked into the service to secure your APIs against attack. End-to-end encryption is available in addition to numerous authentication and authorization schemes, including token-based and JWT authentication with granular access controls.
- ✓ **Designed for developers**
Aply offers APIs that developers love - whether for your own engineering team or end-consumers of your streaming APIs. They work across any technology you want, as we offer [client library SDKs](#) in all the popular languages, protocols, and platforms.
- ✓ **Streaming without limits**
Concentrate on creating data while we worry about getting it to your customers and their users. The API Streamer responds dynamically to changes in demand to manage the available global capacity. This also means you only pay for what you actually use.
- ✓ **Quicker to market**
The API Streamer is serverless, negating the need for infrastructure investment. By deploying with the open protocols of your choice, you can focus on your data, not your tech or distribution.
- ✓ **Uniquely end-to-end streaming**
The Aply API Streamer doesn't just facilitate B2B server-to-server communication, it can stream data direct from source - such as an IoT device - right through to its destination, even as far as an end-user's mobile app.

For more info email hello@ably.io.

By providing interoperability between realtime protocols and platforms, the API Streamer eliminates this barrier. Using the API Streamer Developers can deploy a stream once, using whichever protocol they wish, and create reusable API endpoints for unlimited numbers of customers to integrate with.

The API Streamer is able to do this by providing an adapter function that transforms source protocol to client destination protocol. The adapter currently supports over 30 protocols and platforms with more in development.

All the API management tools you'd expect

Much of the overhead from both REST APIs and streaming APIs stems from aspects that require management. While API management tools have abstracted this away from REST APIs, companies exposing streaming APIs are often having to build their own streaming API management tooling.

With the API Streamer management portal, you don't need to build your own in-house solutions. The portal provides a management dashboard with all the options you'd expect: registration, permission management, analytics, rate limiting, security, and more.

End-to-end high-performance distribution

This is where realtime APIs fundamentally differ from REST APIs. The infrastructure required to stream data from source to destination in milliseconds is vastly different from that required for request/response data exchange.

The API Streamer is built on Ably's reliable, high-performance Data Stream Network. We've dedicated substantial resources to overcoming the nuanced complexities and hidden edge cases of operating highly available, serverless realtime infrastructure you can trust at planetary scale.

Thousands of developers rely on our DSN for end-to-end data streaming with absolute integrity of data and mission-critical reliability. No other network supports the complete data supply chain in this way.

Endlessly scalable for fixed engineering effort

The Ably API Streamer frees developers from ongoing engineering investment and operational management associated with streaming APIs. Whether one or one million customers connect and consume data with API Streamer, your engineering work and infrastructure cost remain constant.

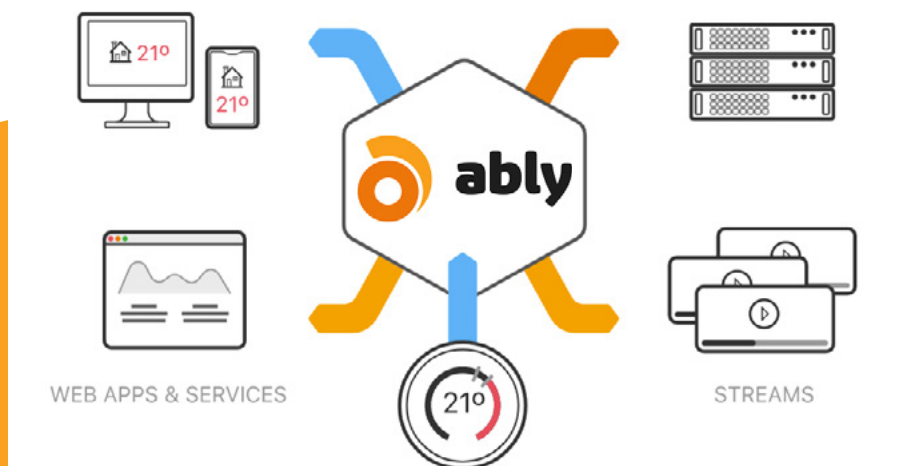
If you're interested in how [API Streamer](#) can work for you, get in touch hello@ably.io.

Features

- ✓ Serverless, truly global infrastructure with infinite scale
- ✓ Reusable API integrations thanks to universal protocol and cloud interoperability
- ✓ API management portal to easily manage all aspects of your streaming APIs
- ✓ End-to-end data streaming from source to destination in milliseconds
- ✓ Simple yet powerful APIs and SDKs that developers love
- ✓ Data deltas for efficient streams

Key numbers

- 100%** uptime SLAs
- 4,000,000+** messages per second capacity
- 2,000,000,000+** messages per day
- Over 30,000,000** monthly end users
- < 1/4 second** latency worldwide



Hospify

"By choosing Ably we were able to simplify our realtime architecture and save money while taking advantage of the unique features such as guaranteed message ordering & delivery and EU-only storage. This has kept us on the cutting edge of realtime tech and allowed us instead to focus on growing our user base."

Neville Dastur
Co-founder and CTO / Hospify