



DIFFUSION DATA

Rethink Real Time

**20
23**

DIFFUSION DATA
BETFAIR

CASE STUDY

Betfair Ups Performance & Gets Huge Operational Cost Savings with Diffusion®

Quick Facts

Successful betting exchange customers require access to information in real time. Betfair's polling implementation was not up to delivering live data at a high scale. The company chose the Diffusion Intelligent Data Platform to deliver live score and pricing information, in real time, to their customers.

Industry

eGaming

Challenges

- Polling model hindered speed, scale, and performance.
- Deliver real-time data on any device.
- Improve Customer experience

Solution

The Diffusion Intelligent Data Platform.

Benefits

- Pre-packaged APIs integrated easily into back-end servers
- Simple to implement with very limited infrastructure change.
- Enhanced customer experience with real-time data delivery

Overview

Betfair is one of the world's largest international online betting providers. Founded in 1999, the Company pioneered the world's first successful betting exchange, allowing customers to bet on odds set by themselves or other customers. Today Betfair provides a full range of sports betting and gaming products to over four million customers in over 100 countries. Committed to innovation and value.

Betfair's success is founded on delivering an exceptionally fast and reliable online experience to ensure customers return again and again. Each day, Betfair's betting exchange processes over seven million transactions – more than all the European stock exchanges combined – completing 99.9% of all transactions in under a second.

In a bid to improve its online customer experience and to extend its competitive advantage, Betfair decided to move from polling to streaming technology to deliver real-time score and pricing data to customers.

Betfair evaluated five potential solutions and selected DiffusionData's Diffusion platform to quickly, robustly, and securely achieve its vision with minimal changes to its existing infrastructure.

The Challenge

Operating in the highly competitive gaming market, populated by increasingly savvy customers with high service expectations, Betfair handles a massive volume of fast-changing data daily, and they must present it to customers quickly and efficiently to prompt betting activity. A traditional polling model does not offer the scalability, speed, and performance that Betfair requires to manage rapidly fluctuating real-time data delivery.

No matter how unpredictable the demand, Betfair had to be able to present frequently changing data at very low latency so, customers could leverage betting opportunities. At peak times – such as a major football game on a Saturday afternoon – Betfair's pricing service received tens of thousands of data requests from customers every second.

As Daniel Alheiros, Delivery Manager at Betfair, explains, "Our systems handle very high volumes of changing data, and we needed a way to present this data to our customers at very low latency and to prompt betting activity."

"Diffusion is part of the Betfair success story."

Daniel Alheiros,
Delivery Manager, Betfair

"In distributing football scores alone, we realized a **tenfold reduction in traffic with Diffusion**; and in terms of **bandwidth**, on a busy Saturday, **we saved 80-90 GB in bandwidth utilization.**"

The Requirements

Betfair needed a real-time streaming solution to improve the overall performance and scalability of its in-place service response model, reducing network traffic and load on its servers for a faster and more engaging user experience. It also needed the flexibility to support any mobile or internet device its customers choose to use without major development requirements. With many customers accessing the company's interactive services using a smartphone or tablet device, Betfair also had to address the fact that mobile users were experiencing poor performance due to network and device responsiveness issues.

"When we looked at mobile, we realized that the request-response model in place was affecting our customers' device performance, leading to a poor user experience," said Alheiros. "We needed web browsers on mobile devices to receive and process information more efficiently, and also, in the case of mobile, handle the challenges of loss of connectivity. Solving these issues would reduce the load on our servers and increase responsiveness, ultimately giving our customers the quality of experience they should expect from our brand."

The Solution

Following an extensive evaluation, Betfair selected Diffusion as the best solution to meet its needs. Easy to implement and requiring limited infrastructure remodelling, Diffusion supports all current and future devices and resolves Betfair's mission-critical latency issues.

"Diffusion allows us to provide services using various native network transport protocols such as Web sockets, Flash sockets and Silverlight. This makes it easy for us to support all mobile devices and web browsers. It also contains APIs that make it easy to implement new applications, significantly reducing our time to market with new services," explains Alheiros.

Integrating Diffusion into Betfair's systems was fast and efficient. Diffusion's pre-packaged APIs integrated easily into Betfair's existing back-end servers. Following a performance testing program, Betfair went into live production just three months after the start of the project.

The Outcome

Today, Betfair is can stream information directly to user browsers, notifying and updating customers with scores and pricing information within milliseconds of a change taking place. Implementation of the Diffusion Intelligent Event-Data Platform means that customers are immediately notified of any change instead of having to refresh score information continually. As a result of reducing the volume of requests that the Company's servers have to manage, Betfair's website and web services are far more responsive.