

The Smart Choice in a Demanding World™

The Diffusion Intelligent Data Platform™ synchronizes, manages, and distributes data among applications, devices, and systems - via web, mobile, and satellite networks. Diffusion solves the challenges of real-time data streaming and messaging, simplifies application development, and extends the functionality of in-place messaging products.

Businesses and application developers require on-premise and in-the-cloud, back-end servers and systems to exchange data with always-on mobile devices. And, there are the hundreds of combinations of devices and operating systems upon which applications are loaded.

Applications must provide real-time, access to everywhere-connected users while running efficiently, at scale, and cost effectively on networks that are full of unknowns.

Diffusion tackles these challenges – the limitations of business systems, the unknowns of the networks, and device complexity and proliferation – to reliably stream data and deliver messages at extreme scale and speed, to and from millions of concurrent connections in milliseconds.

The Benefits of Diffusion are Undeniable

Deliver Application Performance

The vital ingredient for delivering network-based application performance is an effective data distribution platform. Applications built on the Enterprise-hardened Diffusion platform, run fast, scale easily, deliver consistent performance, and assure operational excellence.

Reduce Infrastructure & Bandwidth Costs

Size matters when handling data. Diffusion's data-aware, small payload, delta-data streaming, intelligently tracks content updates, reducing application infrastructure requirements and bandwidth expense.

Manage Unreliable Networks

Diffusion monitors how clients and connections are performing and gracefully manages users and data under adverse network conditions and reconnects and updates data if there is a loss of connectivity.

Simplify and Reduce Development

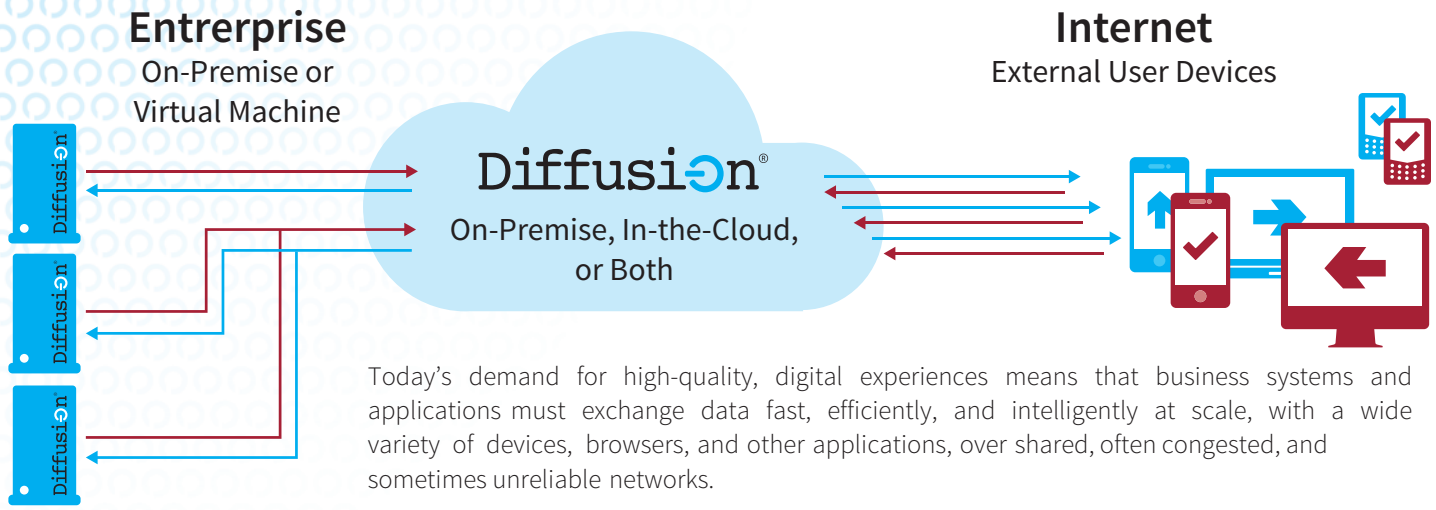
Diffusion is purpose-built to optimize streaming data and messaging delivery. With Diffusion, developers do not have to worry about the intricacies of data management.

Drive Revenue

Business is about profits. Reducing application infrastructure and bandwidth costs while increasing data delivery speed, assures optimal application performance and maximizes revenue and profitability. Diffusion's unique technology provides additional in-application, in-the-moment business opportunities.



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Today's demand for high-quality, digital experiences means that business systems and applications must exchange data fast, efficiently, and intelligently at scale, with a wide variety of devices, browsers, and other applications, over shared, often congested, and sometimes unreliable networks.

Diffusion is a smart data broker and cache. The delta-data streaming intelligently analyzes the data for updates and only streams changes to the connected applications, substantially reducing the size and amount of data transmitted for efficient, real-time distribution of fast-changing data to a large number of simultaneously connected users.

The Unique Features of Diffusion

Pub-Sub with Delta-Data Streaming

Optimized to stream high volume information in real-time, to hundreds of thousands simultaneously connected users and devices. Intelligently tracks content updates, automatically removing redundant data - sending only the changes. Delta-data streaming provides fast delivery, even on slow or congested networks, and reduces bandwidth costs.

Point-to-Point Messaging

Handles complex application interactions securely with point-to-point messaging. Reliably send messages to one or more recipients, with guaranteed delivery and receipt acknowledgements.

Network Management

Queues messages for each client, allowing graceful management of clients under adverse networks conditions. Automatically continues to track messages, if clients experience a loss of connectivity, and will resend any missed messages upon reconnection - ensuring an uninterrupted experience for all users.

Historic Time-Series Data Handling

Allows dynamic querying of a topic's update history to perform data analysis or event playback as well as providing selective editing or deletion of historic events.

Scale & Resilience

Handles variable data loads and traffic spikes with minimal infrastructure requirements and maintaining high Quality-of-Service. Provides out-of-the-box cluster support and persistence to disk for high availability. Supports multi-tiered fan-out architecture for efficient broadcast of data across disparate locations.

Extend In-Place Systems

Extends your back-end data pipeline over the internet with MQ adaptors and other integration points. Extend the reliability, scalability, and functionality of in-place messaging products.

Multiple Data Type Support

Native support for multiple data types including: binary, JSON, text, file etc. across client SDKs to simplify development and reduce system complexity.

