

# Diffusion<sup>®</sup>

## Intelligent Data Mesh

Turbocharge your real-time applications

*The race for digital transformation is on, and every business worldwide is building real-time applications -- from financial services, transportation, and energy, to retail, healthcare, and eGaming companies.*

*The Diffusion Intelligent Data Mesh enables organizations to accelerate innovation and deliver game-changing, real-time applications to market faster while significantly reducing the cost of software development and operations. Diffusion is used to build new innovative applications and also to extend legacy systems.*

*Diffusion provides efficient data movement, enhanced security, dynamic access control, easy to use secure APIs and flexible deployment models to meet each organization's specific business requirements – in-the-cloud, on-premise and in hybrid environments.*

### **The Benefits of Diffusion<sup>®</sup> are Undeniable**

#### **Drive Revenue**

Business is all about seizing opportunities for revenue growth and operational efficiency to increase profits. With Diffusion, companies can innovate faster and bring differentiated products to market quicker to open new market opportunities that drive revenues.

#### **Simplify Delivery**

Diffusion is purpose-built to manage and optimize streaming data and messaging delivery. Diffusion provides easy to integrate secure APIs so that developers do not have to worry about the details of Diffusion architecture. Diffusion customers have reduced time-to-market of applications by over 55%.

#### **Deliver Performance**

Applications built on the Enterprise-hardened Diffusion platform scale easily and cost-effectively to millions of topics and concurrent users. Diffusion guarantees Quality of Service under adverse network conditions through adaptive flow control and automatic conflation of messages.

#### **Enhanced Security**

Diffusion's dynamic access control simplifies and tightens data security management by consolidating authentication and authorization access to disperse and disparate applications and system data.

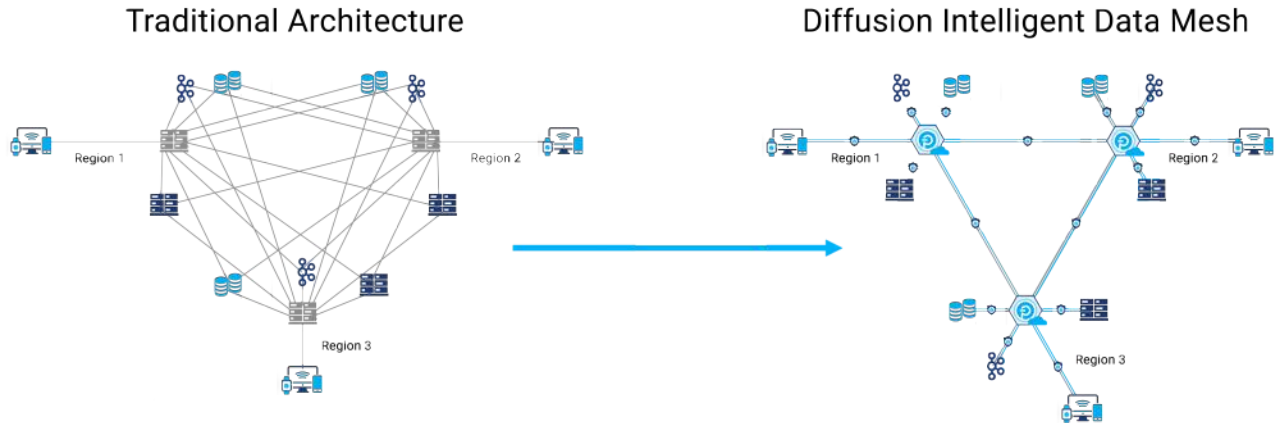
#### **Reduce Cost**

Diffusion's data-aware, delta-data streaming and compression technology reduces payload size by up to 90%, which reduces application infrastructure costs and bandwidth expenses. Diffusion is available in-the-cloud, on-premise or hybrid operation, to meet each company's infrastructure and compliance requirements.

**“Using Diffusion has enabled us to improve customer engagement, reduce costs, and exceed our growth targets.”**

**Keith Laidlaw CIO, GVC**

# The Decision is Simple



## The Unique Features of Diffusion® Intelligent Data Mesh

### **Live Data Model**

Stream changes to data in real-time, or use asynchronous direct messaging for sophisticated application-level interactions. Maintain a single, unified view over your application's entire data model that can be easily extended across the internet to hundreds of thousands of simultaneously connected users and devices.

### **Scale & Resilience**

Handle variable data loads and traffic spikes with minimal infrastructure requirements while maintaining Quality-of-Service. Out-of-the-box cluster support and persistence enable high availability, while Diffusion's multi-tiered fan-out architecture allows efficient, real-time cross-region streaming.

### **Secure Data Management**

Diffusion's flexible "hook-in" authentication mechanisms and role-based permission system meet organizations' security requirements. Granular access controls determine who can see specific subsets of the live data model, while application-level controls over data & session lifecycles enable total management of system events.

### **Reliable Session Management**

With intelligent queuing, conflation, compression and delta-optimization of messages for each client, Diffusion provides graceful management of client connections even under adverse networks conditions. If clients experience a loss of connectivity, Diffusion performs automatic recovery of session state and in-flight messages – ensuring an uninterrupted experience for end-users.

### **Request/Response, Pub/Sub, & Time-Series Data Streaming**

Combine the power of real-time Request/Response, Pub/Sub, and Time Series data, for live updates and dynamic querying of historical data to perform analysis or event playback. Non-destructive editing enables data control while preserving full auditing capabilities.

### **Extend Back-End & Legacy Systems**

Extend back-end data pipelines over the internet with Diffusion Adapters for Kafka, MQ, DB, REST and more. Increase the reliability, scalability, and functionality of in-place systems – unlocking new technical and business opportunities.

*Learn How To Get Started with Diffusion Today!*

[www.pushtechology.com](http://www.pushtechology.com)



Rethink Real-Time

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