
# TIBCO FTL

"Built for Missions That Matter Most"

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# TIBCO FTL

*"Built for Missions That Matter Most"*

## Overview

In today's mission-critical public sector environments, agencies are under constant pressure to move information faster, operate more efficiently, and respond in real time to rapidly changing conditions. From transportation systems and emergency response to healthcare and benefits administration, government organizations depend on timely data exchange across highly distributed and often aging systems. Yet legacy messaging platforms and batch-oriented processes introduce latency, limit scalability, and increase operational risk—falling short of modern requirements for speed, reliability, and resilience. For modern AI applications, this instantaneous data flow becomes even more critical.

TIBCO FTL addresses these challenges by providing a high-performance, real-time messaging backbone designed for the scale and reliability public sector missions demand. FTL enables agencies to move data instantly across distributed, hybrid environments—bridging legacy systems and modern applications without forcing disruptive rewrites or introducing brittle point-to-point integrations. With deterministic delivery, built-in resilience, and fine-grained security controls, FTL eliminates the latency and operational risk of batch-based processes while supporting real-time decisioning, event-driven workflows, and AI-driven use cases where immediacy and accuracy are essential.

## Current & Desired State

| CHALLENGES | CRITICAL CAPABILITIES | SUCCESS FACTORS |
|---|---|---|
| High Availability | Destination & Content Based Delivery | Real Time Monitoring |
| Integration Silos | Structured / Unstructured Metadata Models Messaging | Clear Mission Alignment |
| Real-Time Response | Secure, Policy-Driven Communications | Incremental Modernization |
| Aging Messaging and Integration | Ultra-Low Latency, High Throughput | Governance & Security |
| Burst Scalability | Bridge Multiple Messaging Technologies | Scalability & Stress Validation |
| | Guaranteed Delivery & Fault Tolerance | |

"Data is a precious thing and will last longer than the systems themselves." – Tim Berners-Lee, inventor of the World Wide Web

# How TIBCO Does It Better

FTL is a high-performance, event-driven messaging platform designed to meet the demands of modern public sector workloads. Built for ultra-low latency, massive scalability, and guaranteed delivery, FTL is designed to support the real-time demands of public sector missions, delivering secure, high-performance data movement across distributed systems. With in-memory performance, persistent storage, fault tolerance, and flexible deployment options, FTL supports always-on operations where data loss or downtime is not an option. By enabling real-time situational awareness, FTL helps agencies modernize architectures, reduce risk, and deliver faster, more reliable services to the citizens they serve.

### ULTRA-LOW LATENCY

FTL has been meticulously engineered and highly optimized to deliver real-time, high performance, data distribution. It can provide extremely high throughput with microsecond-level network latency. IPC latencies are measured in nanoseconds. It supports both broker based and peer to peer architectures.

### LOWER TCO

FTL is a low-TCO messaging solution that, delivers superior performance with dramatically lower operational overhead, predictable scalability, built-in reliability, and unified support. The result is simpler, faster, and more cost-efficient messaging infrastructure that enables organizations to focus their engineering talent on innovation, rather than maintenance.

### DYNAMIC / SCHEMA BASED MESSAGING

Message structures are determined by field names and types (self-describing), enabling schema evolution without compromising client compatibility. Furthermore, FTL messages provide the option to attach a schema or format, preserving the self-describing characteristic while simultaneously minimizing the network payload. This design allows producers and consumers to evolve independently, reducing coordination overhead across distributed teams. As a result, organizations can support long-lived data streams while maintaining backward and forward compatibility at scale.


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