# Open Gateway

## Enterprise Messaging



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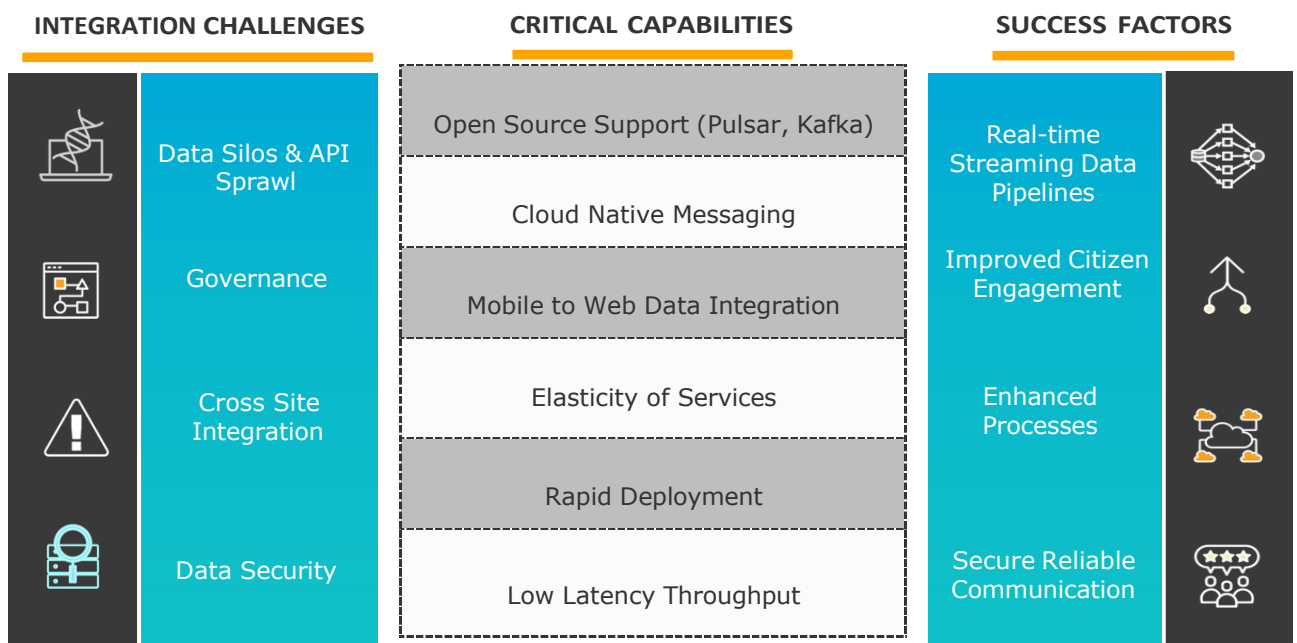carah.io/TIBCOcontracts

# Open Gateway: Enterprise Messaging

## Overview

Government Agencies are continuing to adapt and digitize their services to better connect and empower citizens using digital information. There is a constant need to collaborate and exchange files, data, and information to deliver efficient services. Data is constantly in motion and agencies need technology to easily help govern, manage and protect the ever increasing amount of information as it flows in and out of various locations.

TIBCO Enterprise Messaging is a standards-based enterprise messaging component that helps the Public Sector bring together different IT assets and communications technologies to create a common real-time data exchange backbone. The solution enables real-time data distribution between disparate endpoints wherever they are hosted, while also being a central component of event-driven and streaming data architectures. TIBCO Enterprise Messaging is an efficient solution to address the challenge of API Sprawl – the proliferation of API endpoints and point-to-point connections. TIBCO provides both open source and commercial messaging technology to enable all of the use cases needed to connect complex, large-scale information landscapes including cloud integration, event processing, streaming analytics, business apps, IoT, mobile, and web.

## Current & Desired State

| INTEGRATION CHALLENGES | CRITICAL CAPABILITIES | SUCCESS FACTORS |
|---|---|---|
| Data Silos & API Sprawl | Open Source Support (Pulsar, Kafka) | Real-time Streaming Data Pipelines |
| Governance | Cloud Native Messaging | Improved Citizen Engagement |
| Cross Site Integration | Mobile to Web Data Integration | Enhanced Processes |
| Data Security | Elasticity of Services | Secure Reliable Communication |
| | Rapid Deployment | |
| | Low Latency Throughput | |

Data is the common thread that permeates the success and required technological capabilities necessary for the warfighter's mission to be successful.
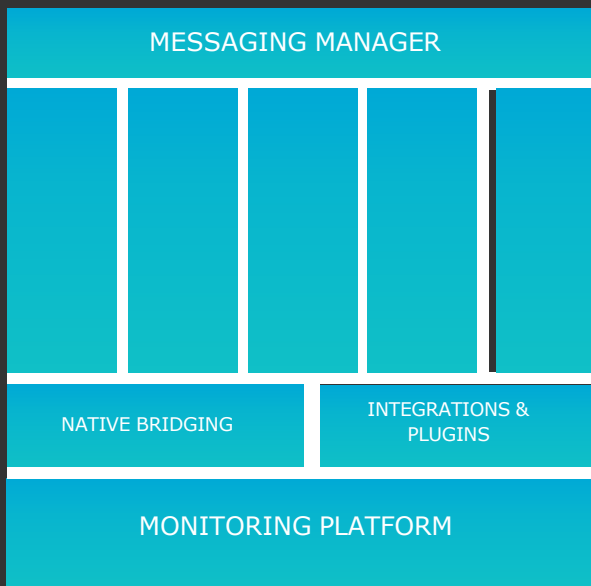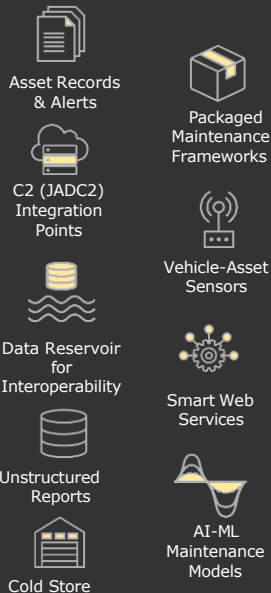
# How TIBCO Does It

With the TIBCO Platform–Messaging capabilities, you can create the infrastructure that facilitates the real-time exchange of data between your systems, applications and components. The solution provides a single product packaging to address all messaging needs and offers customers *flexibility* and *unique choice* between best-of-breed Commercial and Open-Source messaging solutions. Agencies can leverage data from the edge or combine high-throughput streaming and flexible queuing into a unified messaging model. TIBCO Messaging compliments service mesh technology, and performs no matter how you build out your microservices architecture; anywhere in the cloud, on-premise or a hybrid approach.

**EDGE DATA:** TIBCO connects IoT devices using MQTT to any TIBCO Messaging component. It supports a publish and subscribe messaging architecture for large scale, resource constrained environments and provides reliable messaging connectivity over low-bandwidth, high latency networks.

**OPEN SOURCE:** TIBCO is the only vendor that supports the open-source <u>core</u> distribution of Apache Kafka (true open-source) without locking customers into proprietary packages. We are the only vendor supporting Apache Kafka and Apache Pulsar in one packaging, alongside the market-leading JMS (EMS) and high-performance messaging with FTL.

**ELASTICITY.** TIBCO Messaging is optimized to leverage the latest advancements in hardware and networking technologies. It boasts of extreme-low latency as low as 210 nanoseconds of latency with single digit nanosecond variance. With a single instance, you can deliver over 6 million messages per second and distribute fully guaranteed messages at over 850,000 per second. Deploy Smart endpoints and dumb pipes, keeping your applications loosely coupled, yet cohesive and efficient.

Asset Records & Alerts

Packaged Maintenance Frameworks

C2 (JADC2) Integration Points

Vehicle-Asset Sensors

Data Reservoir for Interoperability

Smart Web Services

Unstructured Reports

AI-ML Maintenance Models

Cold Store

## MESSAGING MANAGER

NATIVE BRIDGING

INTEGRATIONS & PLUGINS

## MONITORING PLATFORM

### CLOUD READY
- Flexible Deployment options
- Containerization
- CICD Pipeline

### SECURE COMMUNICATION
- SSL Connectivity
- Fine-grained control
- Pluggable Security Models

### EXCEPTIONAL PERFORMANCE
- Efficient Scaling
- Distributed architecture
- Reliable flow control to maximize throughput

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