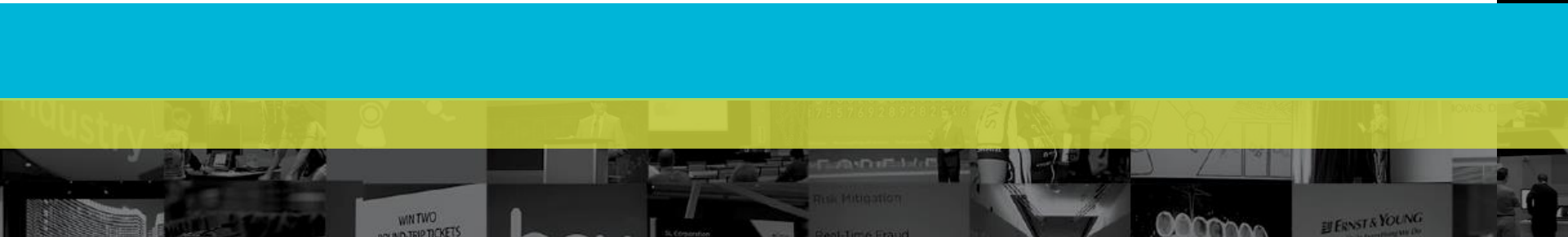# TIBCO

TIBCO FTL®: Built for High Performance
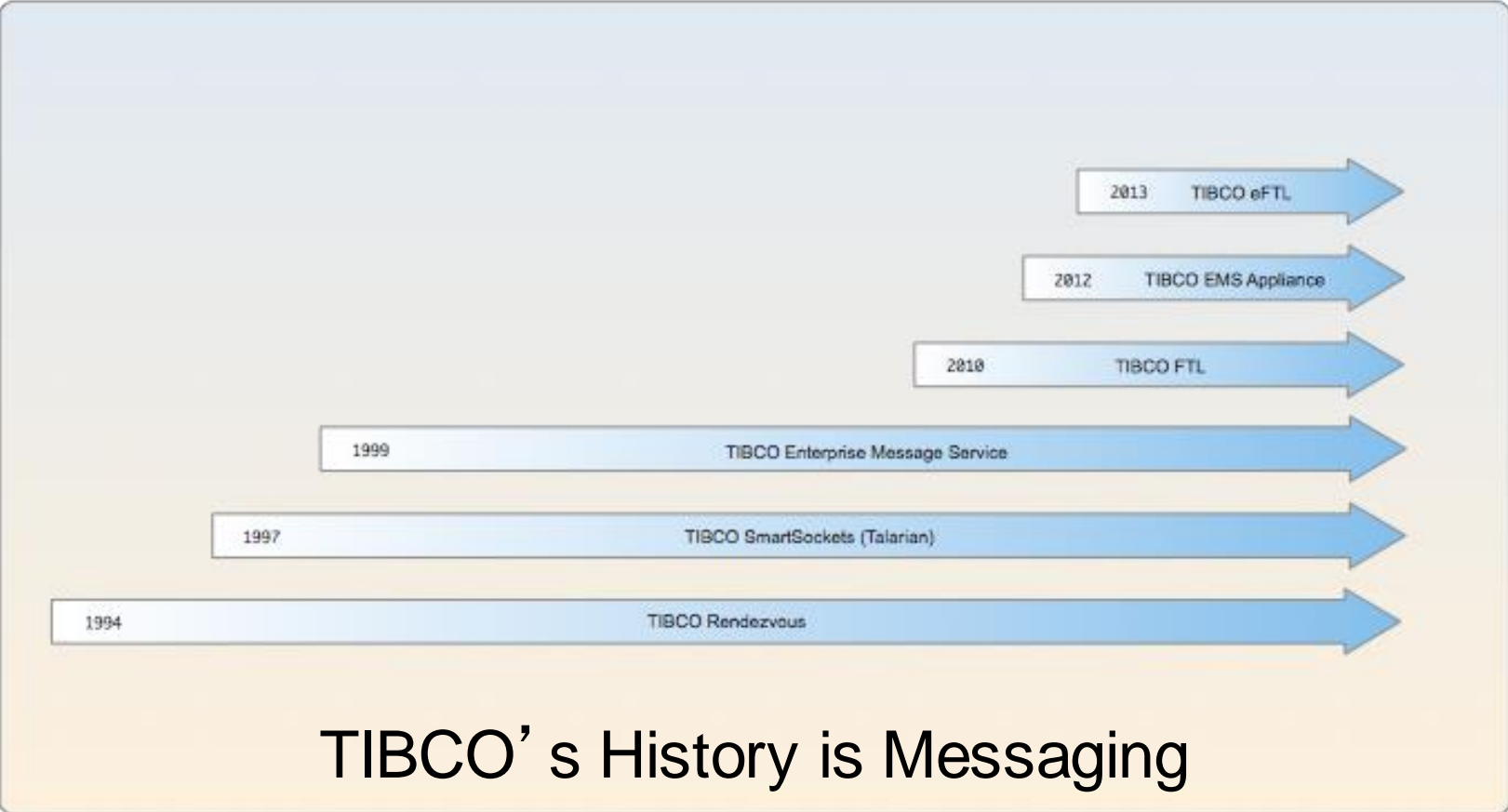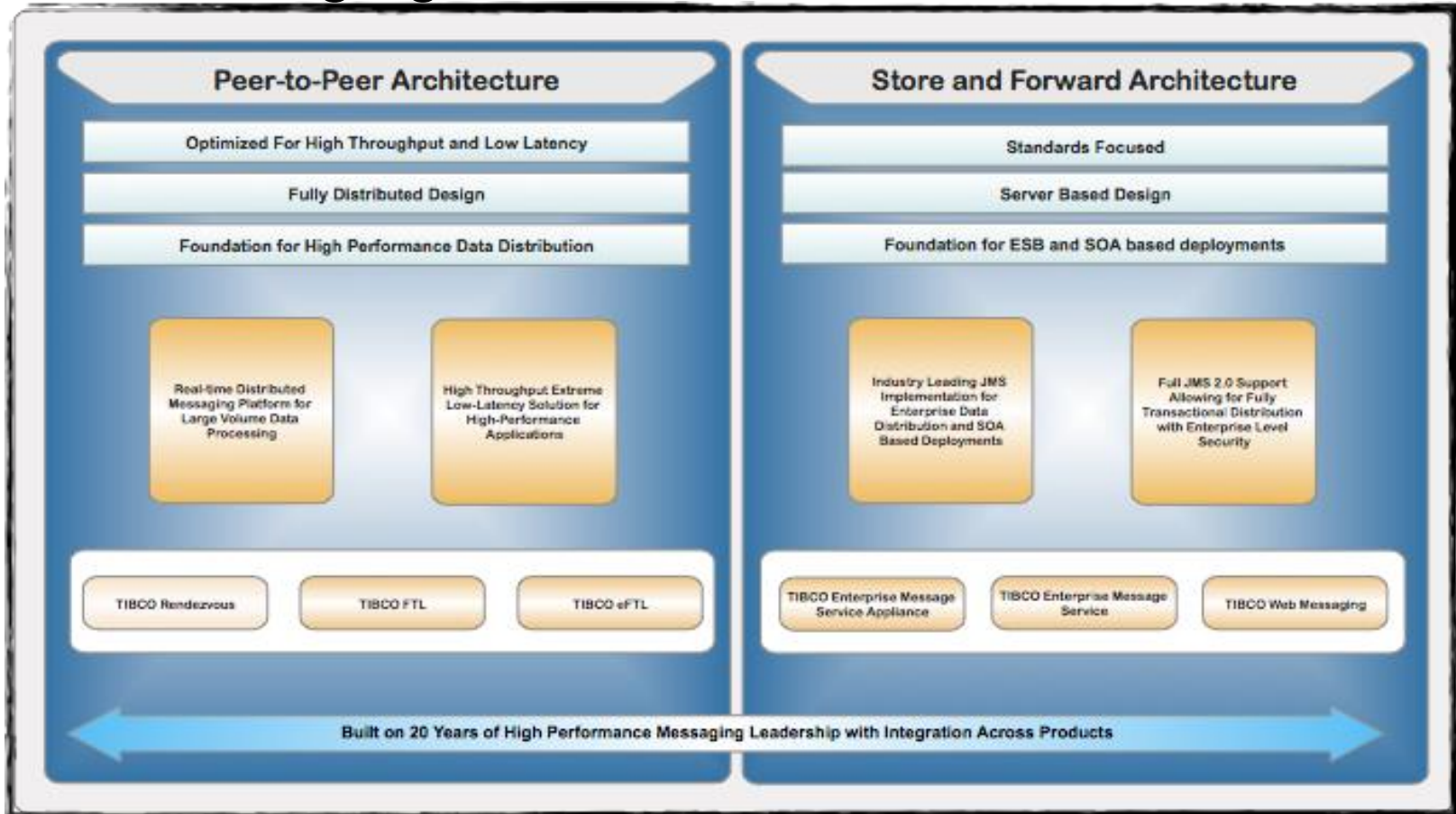## Still the Fastest and now the Broadest

TIBCO's Messaging Business

- TIBCO operates with over 450 years of messaging talent and expertise

- Proven mission critical deployments with over 10,000 customers

- Used across all industries from financial services to medical operations to logistics and manufacturing

- TIBCO runs the world you live in...

TIBCO's Messaging Business

2013	TIBCO eFTL
2012	TIBCO EMS Appliance
2010	TIBCO FTL
1999	TIBCO Enterprise Message Service
1997	TIBCO SmartSockets (Talarian)
1994	TIBCO Rendezvous

TIBCO's History is Messaging

TIBCO Messaging Portfolio

Peer-to-Peer Architecture

- Optimized For High Throughput and Low Latency
- Fully Distributed Design
- Foundation for High Performance Data Distribution

Real-time Distributed Messaging Platform for Large Volume Data Processing

High Throughput Extreme Low-Latency Solution for High-Performance Applications

TIBCO Rendezvous | TIBCO FTL | TIBCO eFTL

Store and Forward Architecture

- Standards Focused
- Server Based Design
- Foundation for ESB and SOA based deployments

Industry Leading JMS Implementation for Enterprise Data Distribution and SOA Based Deployments

Full JMS 2.0 Support Allowing for Fully Transactional Distribution with Enterprise Level Security

TIBCO Enterprise Message Service Appliance | TIBCO Enterprise Message Service | TIBCO Web Messaging

Built on 20 Years of High Performance Messaging Leadership with Integration Across Products

FTL: Designed for the Highest Demands

TIBCO

World's Fastest Performance*

- Over 5 million messages per second per receiver
- Sub 315 nanosecond intra-host latency using Shared Memory
- Sub 2.0 microsecond inter-host latency using RDMA

No Compromise on Features

- Support for both Binary and Self Describing Data
- Dynamically Pluggable Transports
- Centralized Metadata Management and Administration
- Support for High Performance Guaranteed and Reliable Delivery
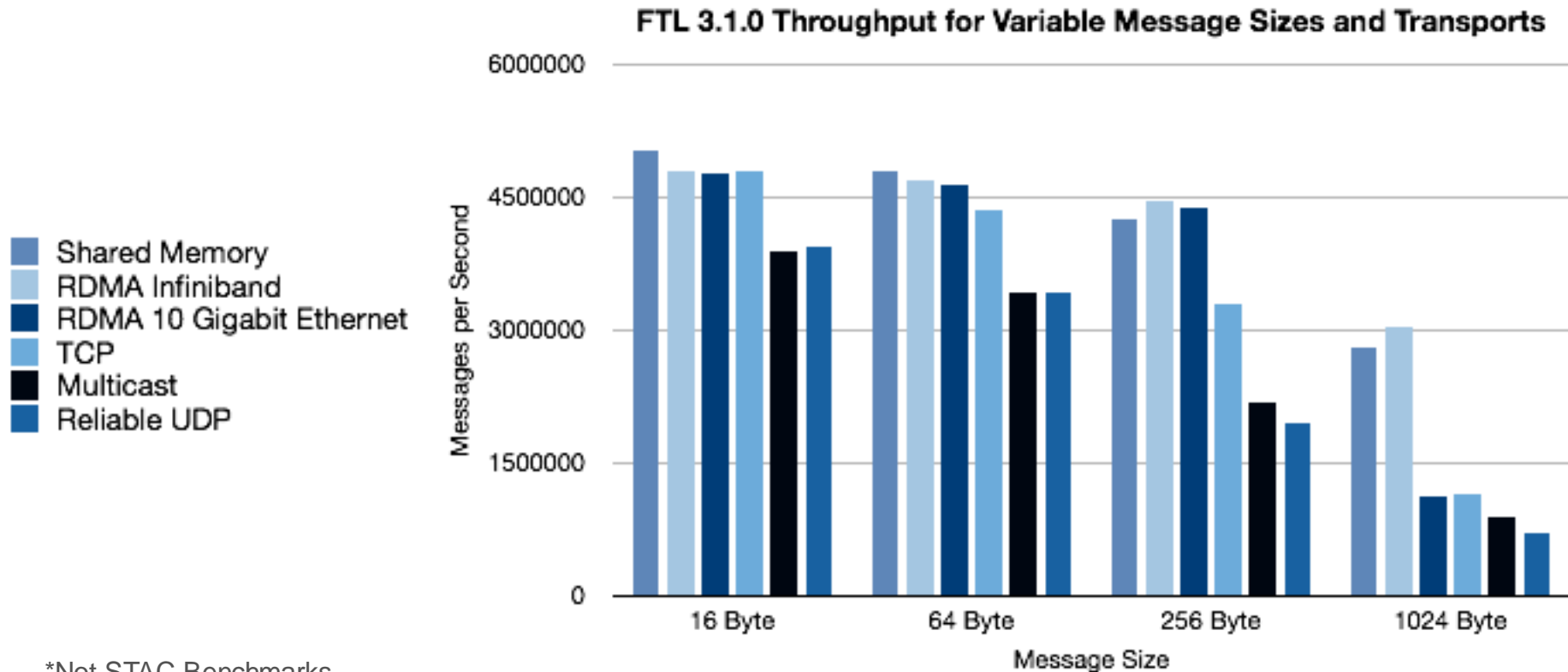- Distributed in Memory Persistence

Enterprise Ready

- Native Integration with TIBCO Rendezvous
- TIBCO DNA: Built with over 450 years of messaging experience

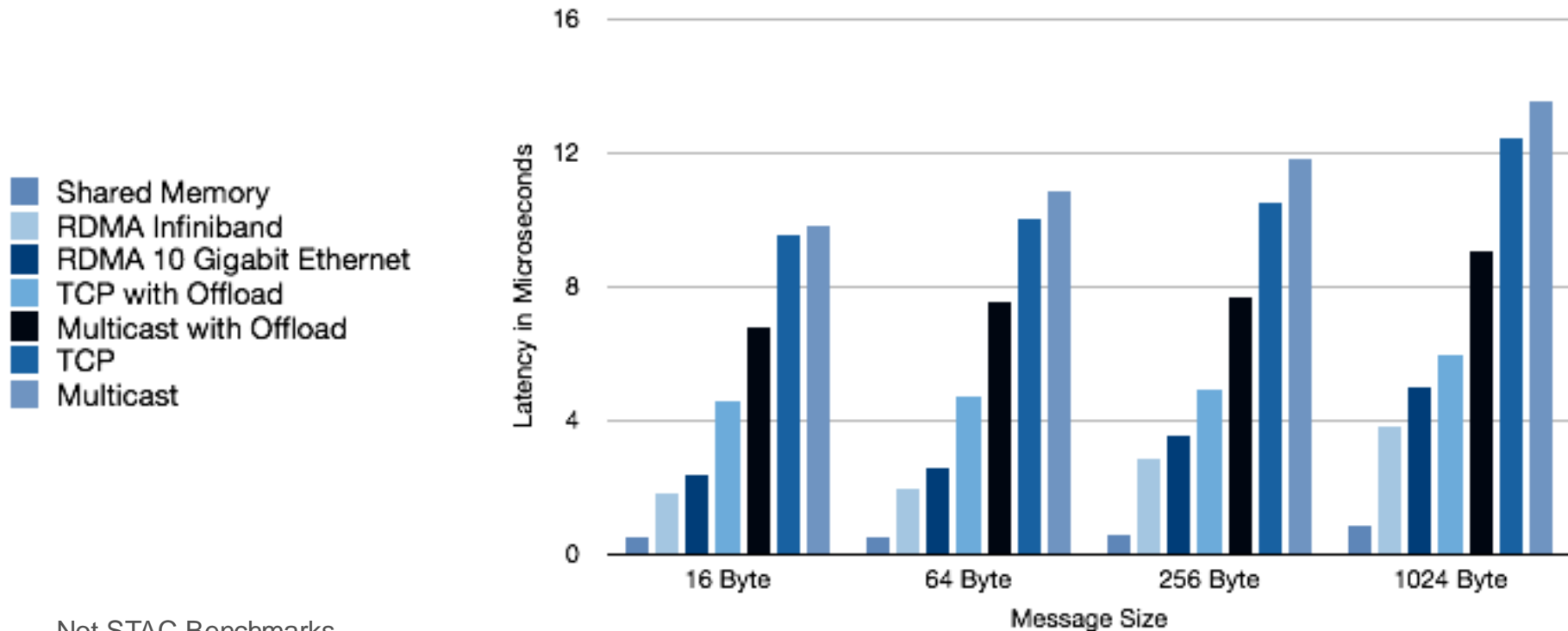*Not STAC Benchmarks

TIBCO FTL ® 3.1 Throughput*

TIBCO

FTL 3.1.0 Throughput for Variable Message Sizes and Transports

Legend:
- Shared Memory
- RDMA Infiniband
- RDMA 10 Gigabit Ethernet
- TCP
- Multicast
- Reliable UDP

Y-axis: Messages per Second (0 to 6000000)

X-axis: Message Size (16 Byte, 64 Byte, 256 Byte, 1024 Byte)

*Not STAC Benchmarks

TIBCO FTL ® 3.1 Latency

FTL 3.1.0 Latency for Variable Message Sizes and Transports

Legend:
- Shared Memory
- RDMA Infiniband
- RDMA 10 Gigabit Ethernet
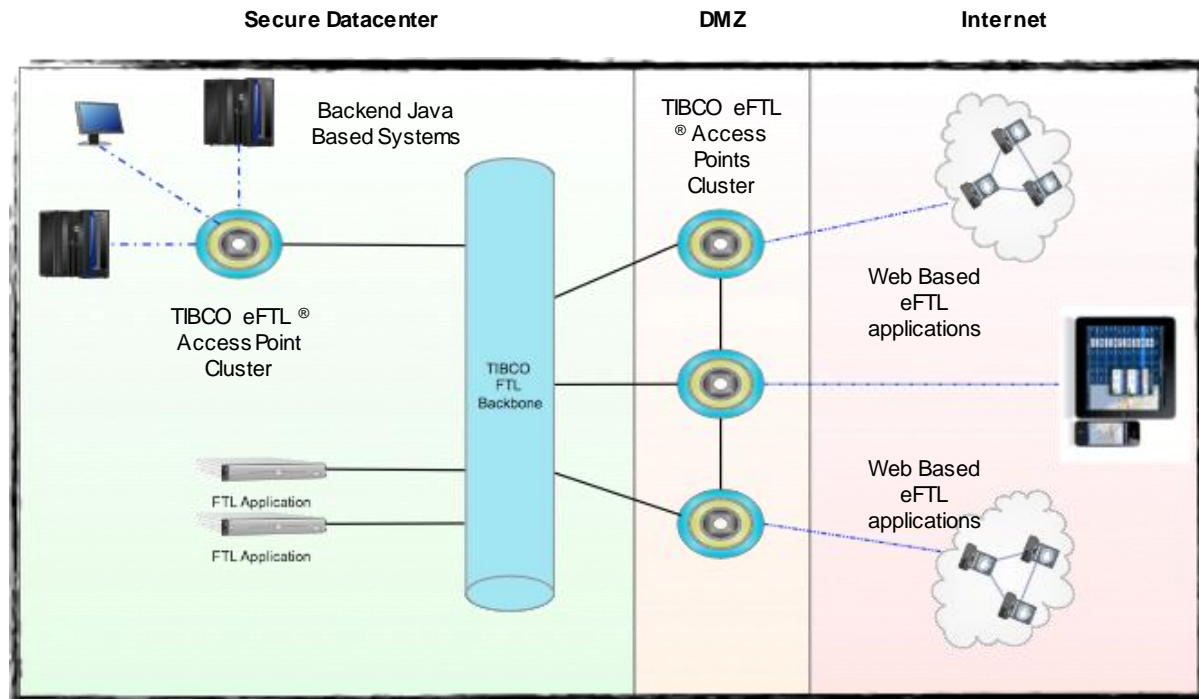- TCP with Offload
- Multicast with Offload
- TCP
- Multicast

Not STAC Benchmarks
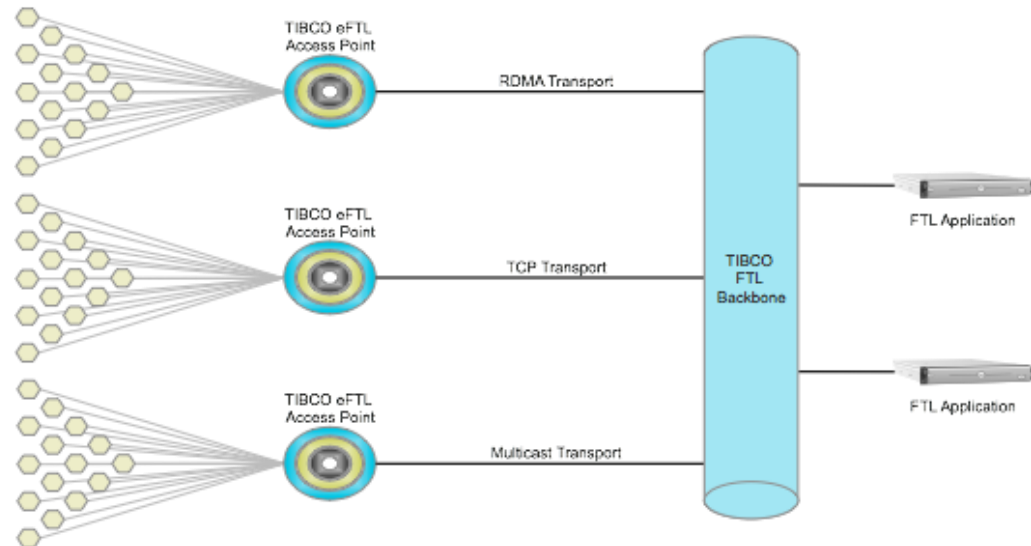
Introducing TIBCO eFTL ™

- TIBCO eFTL extends the power and flexibility of FTL to the web

- Can be used to extend and deploy TIBCO FTL to a wider range of platforms and environments

- Native support for Android Java, Objective C and Javascript

- Leverages the design flexibility of FTL but operates as a stand alone deployment

- Opens TIBCO FTL to a world of possibilities

Highly Scalable Design

- Access Points provide increased scalability for web and mobile based applications

- Mobile clients communicate directly with TIBCO eFTL Access Points over HTML5 Web-sockets

- The communication network can be configured to operate with existing FTL infrastructure or completely standalone

  - Access Points can be configured to leverage FTL transports to communicate with each other.

  - Pure FTL applications can be configured to communicate directly with TIBCO eFTL Access Points

TIBCO eFTL Access Point — RDMA Transport — TIBCO FTL Backbone — FTL Application

TIBCO eFTL Access Point — TCP Transport

TIBCO eFTL Access Point — Multicast Transport — FTL Application

Providing Global Access and Scale

Designed for global scale and deployment

TIBCO eFTL ™ Benefits

- Native Mobile Application Support

  - Objective-C (iOS)

  - Android

  - JavaScript

- Reduced Overhead compared to using HTTP or TCP

- Extends existing high performance FTL applications to mobile and web based applications

- Can be deployed stand-alone (no FTL components needed), facilitating pure web-sockets communications

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