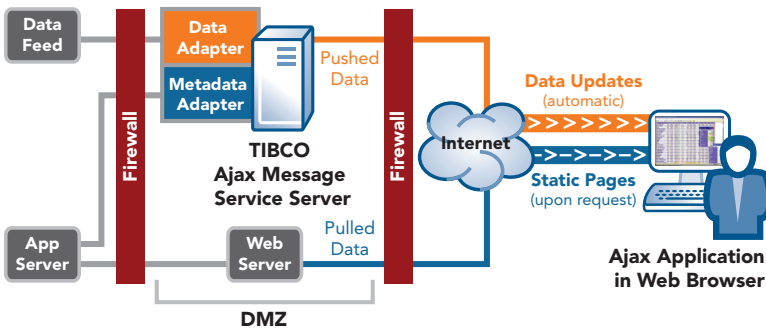


TIBCO Ajax Message Service

The imperative to deliver applications to web browsers has been at odds with the need to get real-time information to users. The inherent user-initiated nature of browsers' HTTP connections inhibits the ability for the server to send information to the user when it needs to. This issue is resolved by establishing a managed, persistent HTTP connection (also called "Ajax Comet") between server and client through which events and messages can flow in real-time.

TIBCO Ajax Message Service™ software provides a mature and scalable approach to pushing or streaming real-time information to browsers and other applications over HTTP networks. Since there are no web browser plug-ins, ActiveX controls, or applets required, the solution is very friendly to end users, proxies, firewalls, and your IT group. It enables organizations to intelligently stream data, events, messages, and notifications to users by leveraging proven adaptive streaming techniques that adjust to data volumes, bandwidth availability, and levels of service assurance.



TIBCO Ajax Message Service works within the context of your existing web infrastructure to provide low latency streaming data to connected users.

AT A GLANCE

TIBCO Ajax Message Service software provides a scalable and reliable way to deliver real-time information to web applications. With Ajax Message Service software, you can deliver low latency publish/subscribe solutions over HTTP in combination with web pages, Ajax applications, and other client technologies.

BENEFITS

- Easy access to live data and services. Subscribe to services exposed through a variety of server-side adapters and send messages and events to client-side listeners – all over HTTP.
- Scalable and manageable. With features such as clustered deployments, adaptive streaming, message multiplexing, automated delta data optimization, and JMX interfaces, Ajax Message Service lets you scale and manage the solution effectively.
- IT friendly. Because there are no web browser plug-ins, ActiveX controls, or applets required, the solution is very friendly to end users, proxies, firewalls, and your IT team.



ATTRIBUTES & CAPABILITIES

Smart Streaming

- **True HTTP streaming:** Data is sent from the server to the client in an asynchronous fashion without requiring redundant, higher latency polling from the client.
- **Adaptive streaming and congestion control:** Ajax Message Service detects situations of congestion on the internet and connected web clients, heuristically slowing down or suspending data until the connection is again fully flowing. When streaming is blocked by the network infrastructure the server gracefully degrades that user's connection to a smart polling process.
- **Frequency control:** Enables organizations to configure the profile of users so as to constrain the number of updates per second for certain subscriptions to data.
- **Bandwidth control:** For each user a maximum bandwidth can be allocated to the streaming channel. For example, if it is required that a certain user cannot exceed a bandwidth of 10 kbps, Ajax Message Service will filter the data in such a way as to ensure that the streaming connection for that user always remains below 10 kbps.

Optimized to Scale

- **Multiplexing:** Messages and events are combined on the server side and sent more efficiently through a single connection and are then unpacked and handled by the client libraries.
- **TCP-Packet optimization:** Ajax Message Service directly controls the composition of TCP packets, and determines on each occasion the optimum composition instead of delegating the aggregation of data in packets to the generic processes of the operating system.
- **Clustering:** Each Ajax Message Service server implements staged event-driven architecture and asynchronous I/O, enabling

more capacity for each CPU in the system. It allows for clustering multiple instances of Ajax Message Service through a web load balancing appliance to guarantee load balancing and failover.

IT Friendly

- **Web page and Ajax application support:** No applets, plug-ins, ActiveX controls, or software installations are required. Leading Ajax frameworks and Rich Internet Application toolkits can be paired with Ajax Message Service. A functional sample of Ajax Message Service working with TIBCO's enterprise Ajax toolkit, TIBCO General Interface™, is provided.
- **Thick client support:** Ajax Message Service implements a different network protocol that is optimized for use with thick applications.
- **Server adapter kits:** The product ships with an SDK to develop adapters so that you can tap into a range of back-ends. The product also ships with a functional sample of extending the JMS implementation in TIBCO Enterprise Message Service™ to the web using Ajax Message Service.
- **Security:** Authenticate connections to the server and set permissions for user actions. Deliver data over firewall and proxy-friendly HTTP or secure HTTPS protocol.
- **JMX manageability:** Use your JMX console to communicate with the JMX agent included in Ajax Message Service to collect status information and manage the server. In addition, get real-time status data through the HTML Monitoring Console or subscribe to the server's monitoring topic to connect external systems.

PLATFORM

Server-Side

- Sun Solaris
- Microsoft Windows
- Linux

Client-Side

- Web Browsers
- Java Clients

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