



TIBCO SmartSockets

Implementing a high performance, scalable messaging infrastructure system can be a complex and formidable endeavor, requiring a great deal of specialized knowledge and more time than many businesses can afford.

TIBCO SmartSockets® real-time messaging software addresses these challenges by masking your distributed applications from the underlying complexities of your network structure – whether network servers are local or remote, for example, or whether the network is multicast- or only unicast-enabled. In this way, SmartSockets frees your development team to focus on their core competencies. In addition, SmartSockets automatically provides an extra layer of reliability to your distributed applications at the messaging level, complementing and extending any reliability capabilities that may reside at the deeper network level.

In the increasingly complex and heterogeneous environment in which your business must exchange and distribute revenue-critical information, SmartSockets provides the technology your organization needs to stay ahead: exceptional performance, very high scalability, optimum bandwidth efficiency, robust fault tolerance, reliable real-time messaging using industry-standard protocols – and much more.

A Comprehensive, Flexible Offering

From data delivery to connectivity, security to monitoring and management, SmartSockets is a flexible messaging solution tailored to meet your critical real-time data delivery needs. Complementing the core SmartSockets solution, TIBCO offers an extensive range of add-on products that allow you to extend the power of SmartSockets. All SmartSockets products deliver advanced functionality without sacrificing performance.

Key Features

- Publish-subscribe for one-to-many communications.
- Multithreaded, multiprocessor architecture for full system exploitation.
- Online security safeguards vital communications.
- Real-time monitoring of network applications.
- Performance optimization for maximum throughput.
- Robust, enterprise-quality fault tolerant GMD for reliable message delivery.

AT A GLANCE

TIBCO SmartSockets provides reliable real-time messaging using industry-standard protocols with exceptional performance, scalability, bandwidth efficiency, and fault tolerance. Using the rich TIBCO SmartSockets application programming interfaces (APIs) and class libraries, your organization can ensure that applications distribute and exchange information quickly, reliably and securely across any platform and any network – LAN, WAN, Internet or satellite.

BENEFITS

- Significantly increase message volume.
- Transparently adapt messaging systems to changing requirements.
- Scale applications across the enterprise or the Internet.
- More efficiently utilize network bandwidth.



ATTRIBUTES & CAPABILITIES

Speed and Flexibility

SmartSockets increases development productivity and reduces development cycles by allowing your development teams to work in their preferred platform and language environments, and by embracing industry standards. SmartSockets offers:

- Support for multiple programming languages.
- Consistent, intuitive interfaces across all supported platforms.
- Easy-to-use callbacks to respond to asynchronous event notifications.
- Support for eXtensible Mark-up Language (XML).
- Isolation from network programming complexities.

SmartSockets is based on industry standards and protocols, including JMS, PGM (Pragmatic General Multicast), TCP/IP and SSL, ensuring that companies maximize investment by eliminating barriers to communication and interaction.

SmartSockets Multicast

SmartSockets Multicast provides more advanced, scalable and efficient one-to-many communications via LAN, WAN, Internet and satellite connections. SmartSockets Multicast uses the Pragmatic General Multicast (PGM) protocol – the de facto reliable multicast standard backed by Cisco Systems and Nortel Networks – to enable the deployment of reliable multicast.

SmartSockets LiveWeb

SmartSockets LiveWeb provides a seamless and secure pathway from your enterprise to and from the Internet, enabling end-users to access SmartSockets applications via the Web without configuration by network administrators.

SmartSockets SSL

SmartSockets SSL ensures that message senders and receivers are who they claim to be with server and client authentication. Message confidentiality is ensured with an encrypted SSL connection that

requires the sender to encrypt all information and the receiver to decrypt it – with support for a broad range of encryption algorithms.

SmartMQ

SmartMQ offers added protection against message loss through persistent message queuing, store-and-forward, transactional messaging and more. It also gives you the flexibility to easily interoperate as needed with third party queue managers, using a single interface for queuing.

SmartSockets Cache

SmartSockets Cache adds short-term, high performance message persistence. When applications are disconnected for short periods of time, they need a way to quickly 'catch up' to the latest available data when they come back online. SmartSockets Cache stores messages in memory or on disk and re-publishes them to subscribers as soon as they reconnect to the system.

SmartSockets Gateway

SmartSockets Gateway allows you to rapidly scale your messaging system as requirements grow. It also enables the connection of diverse message sources and systems through intelligent message switching, the routing and filtering of messages based on message type or contents, and the ability to function in either publish-subscribe or request-reply mode for greater message routing flexibility.

Monitoring and Management

SmartSockets system monitoring and management solutions ensure your IT infrastructure runs at peak efficiency at all times by enabling the remote monitoring and management of distributed applications and information sources. The monitoring interface provides a real-time view of over 300 different system attributes.

PLATFORM, STANDARDS AND SECURITY

• Supported Platforms:

Windows, VMS, Real-time OS, Unix, MVS

• Language Support:

C API, C++ Class Libraries, COM and ActiveX Components, JMS and Java Class Libraries, Microsoft .NET

*The **American Stock Exchange** is taking advantage of TIBCO SmartSockets' unique multicast capability to efficiently transmit market data to multiple subscribers in a single operation – greatly improving network utilization and speed.*

Southwest Airlines relies on TIBCO SmartSockets Guaranteed Message Delivery (GMD) and dynamic load balancing to manage the approximately 17,000 FAA weather messages it receives every day.



www.tibco.com

Global Headquarters
3303 Hillview Avenue
Palo Alto, CA 94304

Tel: +1 650-846-1000
+1 800-420-8450

Fax: +1 650-846-1005

TIBCO Software Inc. (NASDAQ: TIBX) is a leading independent business integration software company and a leading enabler of real-time business, helping companies become more cost-effective, more agile and more efficient. TIBCO has delivered the value of real-time business, what TIBCO calls The Power of Now®, to thousands of customers around the world and in a wide variety of industries.

©2006, TIBCO Software Inc. All rights reserved. TIBCO, the TIBCO logo, The Power of Now, TIBCO Software and TIBCO SmartSockets are trademarks or registered trademarks of TIBCO Software Inc. in the United States and/or other countries. All other product and company names and marks mentioned in this document are the property of their respective owners and are mentioned for identification purposes only. 02/06