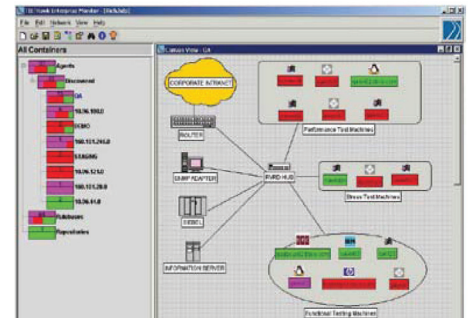# TIBCO HAWK

TIBCO Hawk is distributed monitoring and management software that helps IT staff ensure and improve the performance and liability of the software that supports business processes.

BENEFITS

- Reduces unscheduled outages and slowdowns by letting developers expose internal application metrics and controls for maximum visibility, and enabling the definition and execution of sophisticated rule bases that initiate automatic responses to pre-defined exception conditions.

- Helps system administrators more quickly identify and resolve all kinds of system problems with color-coded alerts that help them understand the severity of problems throughout their infrastructure, and automatic notification when situations require their attention.

- Minimizes network traffic and reduces latency with distributed agent-based rules that handle management at the end points and notify relevant systems and administrators on an event-driven basis.

- Improves visibility into all network management activity through integration with enterprise management systems such as HP OpenView, Tivoli and Unicenter.

Monitoring and managing the physical IT assets is relatively straightforward thanks to protocols such as simple network management protocol (SNMP), but there is no such standard for enterprise applications. To monitor the health and performance of logical assets like applications and databases, administrators need software that treats the network, software infrastructure, applications and services as a single system that can be easily monitored and managed across the board.

TIBCO Hawk® software enables the efficient and intelligent monitoring and management of distributed and disparate systems by delivering a common framework for instrumenting and controlling TIBCO, legacy, Java EE and .NET applications. Hawk can operate as a standalone monitoring and management solution, and forms the management infrastructure for all of TIBCO's software.

TIBCO Hawk's easy-to-use administrative console provides maximum application performance visibility. Hawk's unique distributed architecture approach to monitoring and management treats all network assets as a single system which yields extensive scalability and minimizes downtime when new entities are added

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Powerful Administration and Monitoring bilities

- Enables administrators to monitor application parameters, behavior and loading activities in a local or wide-area network.

- Extensive monitoring capabilities at the operating system and application levels including process data, disk and CPU utilization, network statistics, and log and system files.

- Administrators can interact with Hawk using a variety of interfaces: Hawk's own console display, TIBCO Administrator™, a thin-client XML console servlet, or TIBCO Enterprise RTView dashboards that can display historic metrics collection. Multiple location independent consoles can be added with no additional configuration or overhead.

- Includes fully-exposed Java Console and Configuration API interfaces so administrators can build their own domain-specific displays and event aggregation interfaces.

- Can respond to common problems by executing sequences of actions defined by rule bases, so most common runtime failures or slowdowns can be repaired automatically to keep business processes running smoothly.

- Provides database storage of all events for application uptime and service level agreement (SLA) reports

Distributed Architecture for Reliability and Scalability

- Fault-tolerant thanks to the independent nature and operation of individual agents. Since agents support autonomous network behavior, local management and problem resolution can continue during an outage.

- Based on a distributed architecture that utilizes autonomous agents, publish/subscribe messaging and subject-based addressing for all communications.

- Can scale to multi-thousand node global networks without hierarchical managers.

- Enables the addition and modification of individual managed entities without reconfiguring other parts of the system.

Components

- Consoles are interfaces through which users can introspect agents to invoke and subscribe to micro-agent methods for ad-hoc queries and controls. A console adapter is available for Tivoli and HP OpenView (via TIBCO Enterprise Management Advisor™).

- Agents monitor local conditions and take action or publish alert information that appears in consoles.

- Micro-agents act as an interface to managed applications, and can be invoked through their supported methods automatically by agents or manually by administrators.

- Hawk comes with micro-agents for monitoring TIBCO applications and messaging software, operating systems, log files and overall system behavior.

- Additional micro-agents can be created for custom applications with either the embedded Hawk AMI routines or Java management extensions (JMX).

- Database performance adapters are available for Oracle, Sybase and SQL Server, and an available SNMP adapter supports interaction with outside management information bases (MIBs) and trap publishing.

PLATFORM, STANDARDS AND SECURITY

- AIX (RS-6000)
- HP-UX (HPPA and Itanium)
- Linux (x86, x86-64)
- OS-400 (AS-400)
- Solaris (SPARC and x86, x86-64)
- Mac OS X (Power)
- Tru64 (Alpha)
- Windows 2000/XP/2003 (x86)

Global Headquarters
3303 Hillview Avenue
Palo Alto, CA 94304

Tel: +1 650-846-1000
+1 800-420-8450
Fax: +1 650-846-1005

www.tibco.com

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