

TIBCO Hawk

BENEFITS

- Reduces unscheduled outages and slowdowns by letting developers expose internal application metrics and controls for maximum visibility.
- Enables the definition and execution of sophisticated rules that initiate automatic responses to pre-defined conditions.
- Helps system administrators quickly identify and resolve system problems using color-coded alerts. These alerts help them understand the severity of problems throughout their infrastructure and provide an automatic notification when situations require their attention.
- Minimizes network traffic and reduces latency with distributed agent-based rules. These rules notify administrators on an event-driven basis.

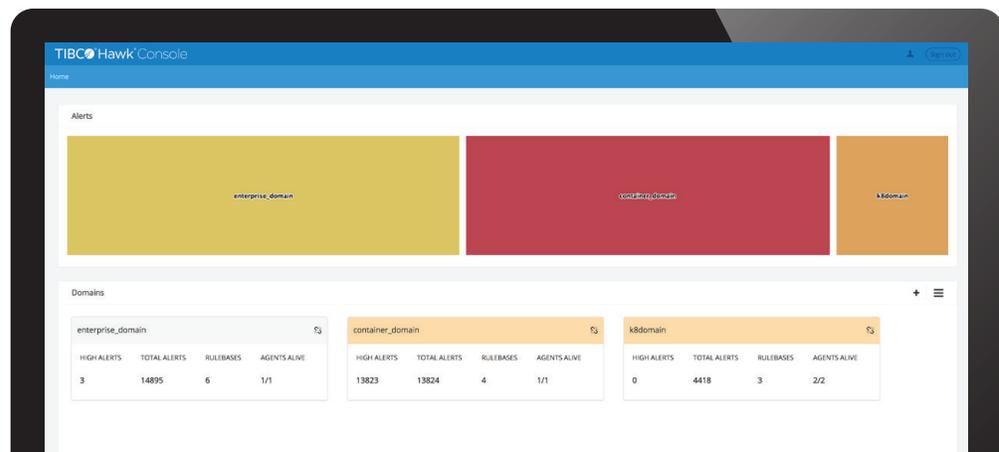
AT A GLANCE

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

Monitoring and managing 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.

By delivering a common framework for instrumenting and controlling TIBCO, legacy, Java EE, and .NET applications, Hawk enables efficient and intelligent monitoring and management of disparate systems distributed across deployment environments including on-premises, containers, private clouds, and AWS.

Hawk can operate as a standalone monitoring and management solution, and forms the management infrastructure for all TIBCO software.



The easy-to-use administrative console provides maximum application performance visibility. The 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.

ATTRIBUTES AND CAPABILITIES

POWERFUL ADMINISTRATION AND MONITORING ABILITIES

- Enables administrators to monitor application parameters, behavior, and loading activities in a local or wide-area network.
- Provides extensive monitoring capabilities of operating systems and applications, including process data, disk utilization, CPU utilization, network statistics, log files, and system files.
- Allows interaction through the TIBCO Hawk Console that can display the health of the entire Hawk ecosystem via a tree map. Multiple Hawk domains can be configured with no additional configuration or overhead. The same Hawk Console can monitor these multiple domains. This console also exposes REST APIs.

PLATFORM, STANDARDS AND SECURITY

- Linux (x86, x86-64)
- Microsoft Windows Server (x86-64)
- Microsoft Windows (x86, x86-64)
- Mac OS X (x86-64)
- Solaris (SPARC and x86, x86-64)
- HP-UX (Itanium)
- IBM AIX (pSeries)

- Includes a fully-exposed Java console and configuration API interfaces so administrators can build their own domain-specific displays and event-aggregation interfaces.
- Responds to common problems by executing sequences of actions defined by rules, 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.
- Integrates with TIBCO LogLogic® Log Management Intelligence for storage of monitoring data captured through alerts and rule-bases.

DISTRIBUTED ARCHITECTURE FOR RELIABILITY AND SCALABILITY

- Provides fault-tolerance because of the independent nature and operation of individual agents. As agents support autonomous network behavior, local management and problem resolution can continue during an outage.
- Utilizes autonomous agents, publish/subscribe, messaging, and subject-based addressing for all communications based on a distributed architecture.
- Scales to multi-thousand node global networks without hierarchical managers.
- Supports 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.
- 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 micro-agents monitor 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 adapters are available for Oracle, move to the end of the sentence IBM DB2, and SQL Server.
- TIBCO Hawk® SNMP Adapter supports interaction with outside management information bases (MIBs) and trap publishing.



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TIBCO enables digital business solutions through smart technologies that interconnect everything and augment intelligence. This combination delivers faster answers, better decisions, and smarter actions. TIBCO provides a connected set of technologies and services, based on 20 years of innovation, to serve the needs of all parts of an organization—from business users to developers to data scientists. Thousands of customers around the globe differentiate themselves by relying on TIBCO to power innovative business designs and compelling customer experiences. Learn how TIBCO makes digital smarter at www.tibco.com.

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10/03/18