

TIBCO Hawk™ HTTP Adapter

User's Guide

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Chapter 4

HTTP Servlet MicroAgent Methods

This section describes the methods associated with the TIBCO Hawk HTTP Adapter Servlet.

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getReleaseVersion()

Method

Description This method returns version information about the current release of this microagent.

Parameters None.

Returns

Name	Description
Name	The name of the application, represented as a String, which implements this microagent.
Version	The release version, represented as a String.
Date	The release date, represented as a String.
Major	The release version major number, represented as an integer.
Minor	The release version minor number, represented as an integer.
Update	The release version update number, represented as an integer.

Remarks This method uses synchronous method invocation.

setTraceLevel()

Method

Description This method sets the trace level settings.

Parameters

Name	Description
Information	Information trace setting, represented as a String.
Warning	Warning trace setting, represented as a String.
Error	Error trace setting, represented as a String.
Debug	Debug trace setting, represented as a String.
AMI	Debugs the AMI trace setting, represented as a String.

Each trace level can be set to **On** (enabled), **Off** (disabled), or **Current** (leave current setting as is).

Returns

Name	Description
Information	Information trace setting, represented as a String.
Warning	Warning trace setting, represented as a String.
Error	Error trace setting, represented as a String.
Debug	Debug trace setting, represented as a String.
AMI	Debugs the AMI trace setting, represented as a String.

Remarks Each trace level can be set to **On** (enabled), or **Off** (disabled). This method uses synchronous method invocation.

getTraceLevel()

Method

Description This method returns the current trace level settings.

Parameters None.

Returns

Name	Description
Information	Current information trace setting, represented as a String.
Warning	Current warning trace setting, represented as a String.
Error	Current error trace setting, represented as a String.
Debug	Current debug trace setting, represented as a String.
AMI	Current debug AMI trace setting, represented as a String.

Remarks Each trace level can be set to **On** (enabled), or **Off** (disabled). This method uses synchronous method invocation.

setTraceParameters()

Method

Description This method modifies the current trace configuration.

Parameters

Name	Description
Directory	The trace file directory path where trace log file should be kept, represented as a String.
File Name	The trace file name, represented as a String.
Max File Size	Trace file maximum size before it is rolled over in Kbytes, represented as an integer.
Max Trace File	The maximum number of trace file to keep in the trace directory, represented as an integer.

Use string Current for keeping the current setting for string parameters and use integer value 0 for keeping the current setting for integer parameters.

Returns

Name	Description
Directory	The current trace file directory path where trace log file should be kept, represented as a String.
File Name	The current trace file name, represented as a String.
Max File Size	The current trace file maximum size before it is rolled over in Kbytes, represented as an integer.
Max Trace File	The current maximum number of trace file to keep in the trace directory, represented as an integer.

getTraceParameters()

Method

Description This method modifies the current trace configuration.

Parameters

Name	Description
Directory	The trace file directory path where trace log file should be kept, represented as a String.
File Name	The trace file name, represented as a String.
Max File Size	Trace file maximum size before it is rolled over in Kbytes, represented as an integer.
Max Trace File	The maximum number of trace file to keep in the trace directory, represented as an integer.

Use string Current for keeping the current setting for string parameters and use integer value 0 for keeping the current setting for integer parameters.

Returns

Name	Description
Directory	The current trace file directory path where trace log file should be kept, represented as a String.
File Name	The current trace file name, represented as a String.
Max File Size	The current trace file maximum size before it is rolled over in Kbytes, represented as an integer.
Max Trace File	The current maximum number of trace file to keep in the trace directory, represented as an integer.

_onUnsolicitedMsg()

Method

- Description** This method returns any unsolicited notifications that are sent from this microagent.
- Parameters** None.
- Use string `Current` for keeping the current setting for string parameters and use integer value 0 for keeping the current setting for integer parameters.
- Remarks** Invoking this method returns the last such message that was received (if any). An unsolicited message is an information, warning, or error message that is sent directly to the manager.

Returns

Name	Description
TYPE	Returns a string of either INFO, WARNING, or ERROR.
TEXT	The text of the message.
ID	A number, that is an integer, used by the application to identify the message.
INBOX	An inbox address, represented as a string, used to send the message.

isPublisherRunning()

Method

- Description** Checks if the TIBCO Hawk publisher is currently running.
- Parameters** None.
- Remarks** This method returns a boolean value indicating whether the TIBCO Hawk publisher is currently running or not. A synchronous method.
- Returns**

Name	Description
IsRunning	(Boolean) A return value of TRUE means the publisher is currently running. A value of FALSE means the publisher is not currently running.

startPublisher()

Method

Description	Starts the TIBCO Hawk publisher.
Parameters	None.
Remarks	This method starts the TIBCO Hawk publisher. A synchronous method.
Returns	None.

stopPublisher()

Method

Description	Stops the TIBCO Hawk publisher.
Parameters	None.
Remarks	This method stops the TIBCO Hawk publisher. A synchronous method.
Returns	None.

getActiveAlerts()

Method

Description Returns the active alerts for the specified alert type, agent host name, and agent host DNS name. Select ALL to get alerts for all types, all host names, and/or all host DNS names, respectively.

Parameters

Name	Description
Alert Type	(String) The type of TIBCO Hawk alerts to be retrieved. Only active alerts of the specified type will be returned. Select ALL to retrieve all active alerts regardless of type.
Host Name	(String) The host name of the TIBCO Hawk agent for which active alerts are to be returned. Select ALL to retrieve active alerts for all TIBCO Hawk agents regardless of host name.
Host DNS Name	(String) The host DNS name of the TIBCO Hawk agent(s) for which active alerts are to be returned. Select ALL to retrieve active alerts for all TIBCO Hawk agents regardless of host DNS name.

Remarks This method returns the list of active alerts maintained by the publisher. The publisher must be running when using this method or no data is returned. A synchronous method.

Returns

Name	Description
Host Name	(String) The host name of the TIBCO Hawk agent where this alert originated.
Alert Type	(String) The type of the alert. The alert types are ALERT HIGH, ALERT LOW, and WARNING.
Alert ID	(String) The alert ID assigned by the originating TIBCO Hawk agent. This ID is unique among alerts issued by the same TIBCO Hawk agent.
Alert Text	(String) The text describing the alert.

Name	Description
Rulebase	(String) The name of the rulebase which generated this alert.
Time Created	(String) The time the alert was created.
Host IP	(String) The IP address of the TIBCO Hawk agent where this alert originated.
Host State	(String) The highest alert state currently pending for the TIBCO Hawk agent where this alert originated. The alert states are AGENT DEAD, ALERT HIGH, ALERT LOW, WARNING, and OK.
Host DNS Name	(String) The host DNS name for the TIBCO Hawk agent where this alert originated.
Start Time	(String) The time the TIBCO Hawk agent where this alert originated was started.
Index	(String) An identifier for the alert which is unique across all TIBCO Hawk agents. It is the concatenation of the originating TIBCO Hawk agent's host name and DNS name along with the alert ID. The alert ID alone is not unique across all TIBCO Hawk agents.

getAlertFilters()

Method

Description This method gets the current alert filter settings for the TIBCO Hawk alert publisher. These filters control which alerts are published. Alerts can be filtered according to alert severity or alert source, or both. An alert source can be either a TIBCO Hawk agent or a rulebase, or both.

Parameters None.

Remarks This method stops the TIBCO Hawk publisher. A synchronous method.

Returns

Name	Description
Agent Alive	(String) The value of the current filtering in effect for agent alive alerts. A value of ON indicates that agent alive alerts are being published and that of OFF indicates that agent alive alerts are not being published.
Agent Dead	(String) The value of the current filtering in effect for agent dead alerts. A value of ON indicates that agent dead alerts are being published and that of OFF indicates that agent dead alerts are not being published.
Alert High	(String) The value of the current filtering in effect for high severity alerts. A value of ON indicates that high severity alerts are being published and that of OFF indicates that high severity alerts are not being published.
Alert Medium	(String) This return value specifies the current filtering in effect for medium severity alerts. A value of ON indicates that medium severity alerts are being published. A value of OFF indicates that medium severity alerts are not being published.
Alert Low	(String) The value of the current filtering in effect for low severity alerts. A value of ON indicates that low severity alerts are being published and that of OFF indicates that low severity alerts are not being published.

Name	Description
Information	(String) The value of the current filtering in effect for information alerts. A value of ON indicates that information alerts are being published and that of OFF indicates that information alerts are not being published.
Rulebase	(String) The Perl5 pattern being used to filter alerts by rulebase name. Only alerts generated by rulebases with names that match the specified Perl5 pattern will be published. ALL indicates that alerts for all rulebases should be published. This filter is not applied to agent alive and agent dead alerts.
Host Name	(String) The Perl5 pattern being used to filter alerts by the TIBCO Hawk host name. Only alerts originating from TIBCO Hawk agents with host names that match the specified Perl5 pattern will be published. ALL indicates that alerts for all TIBCO Hawk agent host names should be published.
Host DNS Name	(String) The Perl5 pattern being used to filter alerts by the TIBCO Hawk host DNS name. Only alerts originating from TIBCO Hawk agents with host DNS names that match the specified Perl5 pattern will be published. ALL indicates that alerts for all TIBCO Hawk agent host DNS names should be published.

setAlertFilters()

Method

Description This method sets the current alert filter settings for the TIBCO Hawk alert publisher. These filters control which alerts are published. Alerts can be filtered according to alert severity or alert source, or both. An alert source can be a TIBCO Hawk agent or a rulebase, or both.

Parameters

Name	Description
Agent Alive	(String) Controls the filtering of agent alive alerts. Select ON to enable publishing of agent alive alerts. Select OFF to disable publishing of agent alive alerts. Select CURRENT to retain current filter setting (no change).
Agent Dead	(String) Controls the filtering of agent dead alerts. Select ON to enable publishing of agent dead alerts. Select OFF to disable publishing of agent dead alerts. Select CURRENT to retain current filter setting (no change).
Alert High	(String) Controls the filtering of high severity alerts. Select ON to enable publishing of high severity alerts. Select OFF to disable publishing of high severity alerts. Select CURRENT to retain current filter setting (no change).
Alert Medium	(String) Controls the filtering of medium severity alerts. Select ON to enable publishing of medium severity alerts. Select OFF to disable publishing of medium severity alerts. Select CURRENT to retain current filter setting (no change).
Alert Low	(String) Controls the filtering of low severity alerts. Select ON to enable publishing of low severity alerts. Select OFF to disable publishing of low severity alerts. Select CURRENT to retain current filter setting (no change).
Information	(String) Controls the filtering of information alerts. Select ON to enable publishing of information alerts. Select OFF to disable publishing of information alerts. Select CURRENT to retain current filter setting (no change).

Name	Description
Rulebase	(String) The Perl5 pattern used to filter alerts by rulebase name. Only alerts generated by rulebases with names that match the specified Perl5 pattern will be published. ALL indicates that alerts for all rulebases should be published. This filter is not applied to agent alive and agent dead alerts.
Host Name	(String) The Perl5 pattern used to filter alerts by TIBCO Hawk agent host name. Alerts originating from the TIBCO Hawk agent with host names that match the specified Perl5 pattern will be published. ALL indicates that alerts for all TIBCO Hawk agent host names should be published.
Host DNS Name	(String) The Perl5 pattern used to filter alerts by TIBCO Hawk agent host DNS name. Alerts originating from the TIBCO Hawk agents with host DNS names that match the specified Perl5 pattern will be published. ALL indicates that alerts for all TIBCO Hawk agent host DNS names should be published.

Remarks A synchronous method.

Returns None.