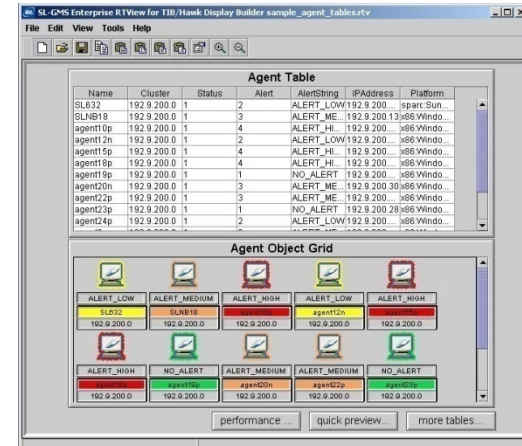


# RTView Datasource - TIBCO Hawk

## TIBCO Hawk

RTView extends TIBCO Hawk functionality by allowing users to

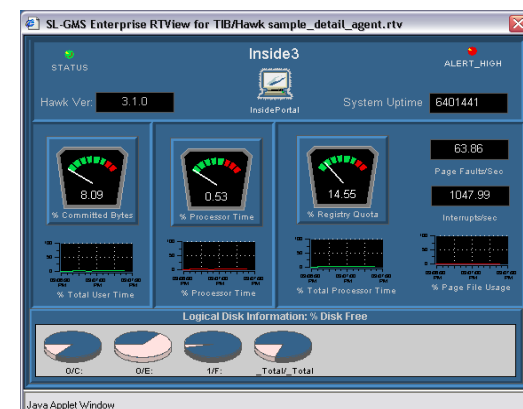
- Drill down to detailed agent information
- View side-by-side comparison of information from multiple agents
- Monitor the health and status of Hawk instrumented applications
- Limit access to sensitive Hawk information/commands based on user's role



The screenshot shows the 'Agent Table' window with the following data:

Name	Cluster	Status	Alert	AlertString	IPAddress	Platform
SLC12	192.9.200.0	1	2	ALERT_LOW	192.9.200...	Smart_Sun...
SLNB10	192.9.200.0	1	3	ALERT_ME	192.9.200.13	x86-Windo...
agent10p	192.9.200.0	1	4	ALERT_HI	192.9.200...	x86-Windo...
agent12n	192.9.200.0	1	2	ALERT_LOW	192.9.200...	x86-Windo...
agent15p	192.9.200.0	1	4	ALERT_HI	192.9.200...	x86-Windo...
agent16p	192.9.200.0	1	4	ALERT_HI	192.9.200...	x86-Windo...
agent19p	192.9.200.0	1	1	NO_ALERT	192.9.200...	x86-Windo...
agent20n	192.9.200.0	1	3	ALERT_ME	192.9.200.30	x86-Windo...
agent22p	192.9.200.0	1	3	ALERT_ME	192.9.200...	x86-Windo...
agent23p	192.9.200.0	1	1	NO_ALERT	192.9.200.28	x86-Windo...
agent24p	192.9.200.0	1	2	ALERT_LOW	192.9.200...	x86-Windo...

Below the table is the 'Agent Object Grid' showing various alert levels (ALERT\_LOW, ALERT\_MEDIUM, ALERT\_HIGH, NO\_ALERT) for different agents (e.g., agent12n, agent15p, agent16p, agent19p, agent20n, agent22p, agent23p, agent24p) with corresponding status icons.



## TIBCO Hawk – Setup and Configuration

Proper setup of RTView for Hawk requires that the following environmental variables are defined:

RV_ROOT:	TIBCO Rendezvous install directory (e.g., C:/TIBCO/TIBRV/8.1)
HAWK_ROOT:	TIBCO Hawk install directory (e.g., C:/TIBCO/Hawk)
TIBJMS_ROOT:	TIBCO EMS install directory (e.g., C:/TIBCO/EMS/5.0) – only if EMS is the transport
PATH:	should include RV_ROOT/bin and HAWK_ROOT/bin
LD_LIBRARY_PATH:	RV_ROOT/lib (UNIX only)

To configure, select Tools>Options>TIBCO Hawk>TIBCO Hawk Communication

- Multiple Hawk transports can be configured.
- Default Hawk settings are for rvd:
  - service: 7474
  - network: ;
  - daemon: tcp:7474

© 2011 Sherrill-Lubinski Corporation. All Rights Reserved.

All Hawk related settings are saved in HAWKOPTIONS.ini

## TIBCO Hawk – Data Attachment (Special Values)

### Agent Name

\* - returns data from all agents on the network. Only useful for tabular objects.

Agent(Connection) – returns data from the agent on the specified connection

\*:groupname – returns data from all agents in the Hawk agent groupname

\*(Connection) – returns data from all agents on specified connection

### Microagent Name

Name – uses the first microagent found on the specified agent

Name:n – uses the nth instance of the microagent (n being the index)

Name:\* - uses all instances of the microagent

### Return Field

\* - returns all columns from the microagent

## TIBCO Hawk – Hawk Agent/Alert Data

RTView provides RTViewDS microagent for retrieving

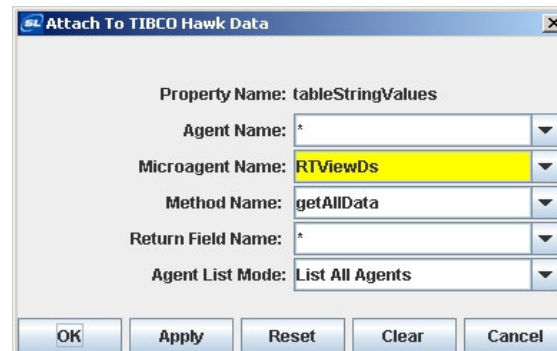
- Hawk Agent information (name, status, ip address, cluster, platform, etc)
- Hawk Alert information (agent, alert id, alert text, timestamp, etc)

To retrieve Hawk agent information

1. Select **RTViewDS** for Microagent Name
2. Select **getAllData** for Method Name
3. Select \* or column(s) for Field Name
4. Select **All or Active Agents** for Agent List Mode

To retrieve Hawk Alert information

1. Select **RTViewDS** for Microagent Name
2. Select **getAlertData** for Method Name
3. Select \* or column(s) for Field Name
4. Select **All or Active Alerts** for Alert List Mode



Attach To TIBCO Hawk Data

Property Name: tableStringValue

Agent Name: \*

Microagent Name: RTViewDs

Method Name: getAllData

Return Field Name: \*

Agent List Mode: List All Agents

OK Apply Reset Clear Cancel



Attach To TIBCO Hawk Data

Property Name: tableStringValue

Agent Name: \*

Microagent Name: RTViewDs

Method Name: getAlertData

Return Field Name: \*

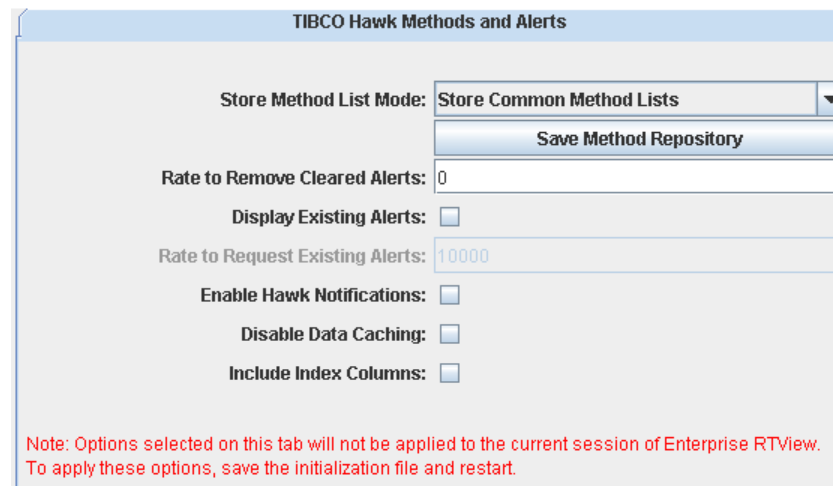
Alert List Mode: List All Alerts

OK Apply Reset Clear Cancel

## TIBCO Hawk – Hawk Alerts Configuration

Tools>Options>TIBCO Hawk>TIBCO Hawk Methods and Alerts

- Rate to Remove Cleared Alerts (ms): If set to zero, cleared alerts are not removed
- Display Existing Alerts: display alerts that have occurred before the invocation of Display Builder or Viewer
- Rate to Request Existing Alerts (ms): Default is every 10 seconds between each hawk agent
- Enable Hawk Notifications: Activates the display of TIBCO Hawk notification events. The AlertString for these notifications will be NO\_ALERT.
- Disable Data Caching: disables internal caching of hawk data. Useful if external caches are used.
- Include Index Columns: Includes AgentName, MicroAgentName, MicroAgentInstance



The screenshot shows the 'TIBCO Hawk Methods and Alerts' configuration dialog box. It contains the following settings:

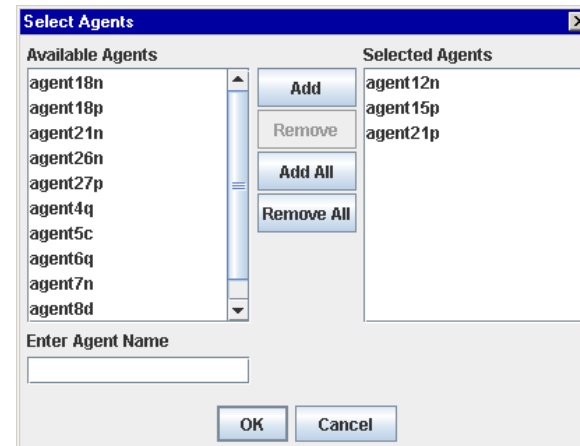
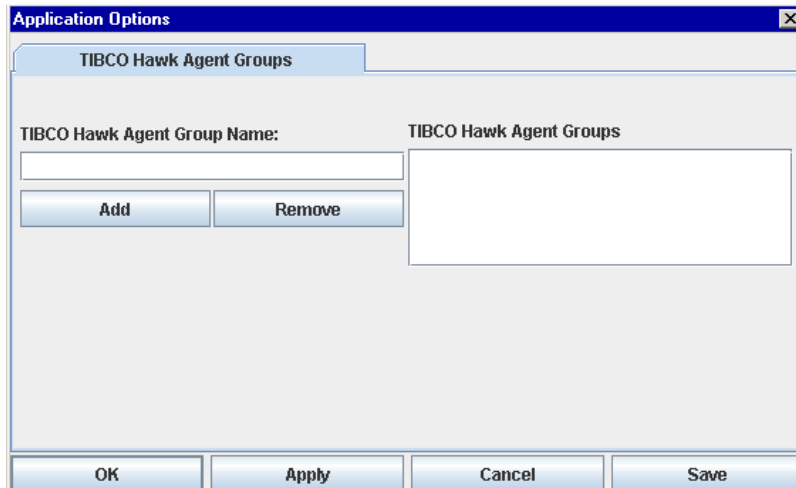
- Store Method List Mode: Store Common Method Lists (dropdown menu)
- Save Method Repository (button)
- Rate to Remove Cleared Alerts: 0
- Display Existing Alerts:
- Rate to Request Existing Alerts: 10000
- Enable Hawk Notifications:
- Disable Data Caching:
- Include Index Columns:

Note: Options selected on this tab will not be applied to the current session of Enterprise RTView. To apply these options, save the initialization file and restart.

## TIBCO Hawk – Agent Groups

RTView allows you to assign multiple agents to a named group

- Select Tools>Options>TIBCO Hawk Agent Groups
- Create a group name, and add to list
- To put agents into a group
  - Double-click on group name
  - Add available agents to the group



## TIBCO Hawk – Hawk Security

If the Hawk agents implement a Hawk security class, e.g.,

`COM.TIBCO.hawk.security.trusted.Trusted`

RTView can be configured to use this class as well. Perform the following steps to configure the first time:

1. Bring up the Display Builder with the following command line:  
`run_builder -hawksecurity:COM.TIBCO.hawk.security.trusted.Trusted`
2. Tools>Options>Save
3. Exit Builder
4. Configure RTV\_USERPATH to point to security jar, e.g.,  
`RTV_USERPATH=RTV_USERPATH=c:\tibco\hawk\lib\security.jar`

The hawksecurity setting will be saved in HAWKOPTIONS.ini after step (2) and will be read by the builder and viewer.



## TIBCO Hawk – Hawk Monitor Demo

This demo is located in RTV\_HOME/demos/hawkmonitor. It allows users to

- View out-of-the-box displays of multiple Hawk Agents in a single display
- Access detailed agent information using powerful drill down capabilities
- Aggregate agent and microagent metrics
- View agent alert data
- Visualize metrics from applications instrumented with AMI

