

Monitoring Software AG webMethods Broker

This topic explains how to configure monitoring for events that are transmitted through Software AG webMethods Broker. This monitoring requires admin client group privileges.

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Adding Required Jar Files to the SOAtest Classpath

The following jar files need to be added to the SOAtest classpath:

- wmbrokerclient.jar
- g11nutils.jar

The jar files can be found under [webmethods install dir]/Broker/lib/. For more details, please refer to [webMethods Broker Client Java API Programmer's Guide](#)> Getting Started> Using the webMethods Broker Java API.

To add these jar files to SOAtest's classpath, complete the following:

1. Choose **Parasoft> Preferences**.
2. Open the **Parasoft> System Properties** page.
3. Click the **Add JARS** button and choose and select the necessary JAR files to be added.

Configuring Event Monitor

To configure the Event Monitor tool to monitor webMethods Broker:

1. Double-click the Event Monitor tool to open up the tool configuration panel.
2. In the **Event Source** tab, select **Software AG webMethods Broker** as the platform. The configuration fields will be populated with default values.
3. Adjust the configuration field values as needed. The fields are the same as those used in the webMethods tool, and are described in [webMethods](#).



Using Filters and Wildcards

The Event Monitor uses BrokerAdminClient to monitor events. By default, it subscribes to the "admin" client group. Thus, if you wish to filter events based on their content, you should change the client group value to one that allows for subscription to regular event types (instead of Trace). Why? Because when using `Broker::Trace::*` events, the filter string will be applied to the fields in the trace BrokerEvents—not the original events that they represent.

When completing the Event Type field, remember that wildcards are not allowed for Broker::Trace or Broker::Activity event types according to [WebMethods Broker Client Java API Programmer's Guide](#). If you wish to monitor a set of event types, specify a client group name that allows subscription access to the desired event types (possibly other than the default "admin" client group setting), then provide event types with wildcards. For example, you can use `Sample::*`

You may also use `${data bank column name}` variables in your string. SOAtest will replace that with the data bank value so filter strings can have dynamic values based on the output of other tests.

For more details on filters and using wildcards in event type names, please refer to the [WebMethods Broker Client Java API Programmer's Guide](#).

4. In the **Options** tab, modify settings as needed.
 - **Clear the event viewer before each event monitor run** determines whether SOAtest automatically clears the Event Monitor event view (both text and graphical) whenever Event Monitor starts monitoring.
 - **Include test execution events in the XML event output** specifies whether the Event Viewer tab and XML output display show only the monitored messages and events, or if they also indicate when each test started and completed. Enabling this option is helpful if you have multiple tests in the test suite and you want to better identify the events and correlate them to your test executions.
 - **Wrap monitored messages with CDATA to ensure well-formedness of the XML event output** should be disabled if you expect the monitored events' message content to be well-formed XML. This will make the messages inside the events accessible via XPath, allowing the message contents to be extracted by XML Transformer or validated with XML Asserter tools.
 - If the message contents are not necessarily XML, you should enable this option to ensure that the XML output of the Event Monitor tool (i.e. the XML Event Output for chaining tools to the Event Monitor, not what is shown under the Event Viewer) is well-formed XML by escaping all the message contents. This will make the content of these messages inaccessible by XPath since the message technically becomes just string content for the parent element.
 - Note that the Diff tool's XML mode supports string content that is XML. In other words, no matter which option you select here, the Diff tool will still be able to diff the messages as XML, including the ability to use XPath for ignoring values.
 - **Maximum monitor execution duration** specifies the point at which the test should timeout—in case another test in the test suite hangs, or if no other tests are being run (e.g., if you execute the Event Monitor test apart from the test suite, then use a custom application to send messages to system).
 - **Event polling delay after each test finishes execution (milliseconds)** is not applicable here.

Notes

With admin client group privileges, the Event Monitor tool can subscribe to the following event types:

- Broker::Ping
- Adapter::ack
- Adapter::adapter
- Adapter::error
- Adapter::errorNotify
- Adapter::refresh
- Broker::Trace::Publish
- Broker::Trace::Enqueue
- Broker::Trace::Drop
- Broker::Trace::Receive
- Broker::Trace::PublishRemote
- Broker::Trace::EnqueueRemote
- Broker::Trace::ReceiveRemote
- Broker::Activity::TerritoryChange
- Broker::Activity::ClientChange,
- Broker::Activity::ClientGroupChange
- Broker::Activity::EventTypeChange
- Broker::Trace::Insert
- Broker::Trace::Delete
- Broker::Trace::Peek
- Broker::Trace::DropRemote
- Broker::Trace::Modify
- Broker::Activity::ClientSubscriptionChange
- Broker::Activity::RemoteSubscriptionChange

Note that you can also configure the webMethods tool (described in [webMethods](#)) to subscribe to the desired event type—the only difference is that with the webMethods tool you need to provide the specific event type name.