GreenVulcano S.r.l.

GreenVulcano ESB Support

Reference manual

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Author: **GreenVulcano S.r.l.**

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GreenVulcano ESB Support - Reference manual

Chapter contents:

Introduction

Introduction

The document describes all configuration parameters of **GreenVulcano ESB Support**.

The configuration parameters are splitted in chapters:

- **GreenVulcano ESB Support**

Chapter 2

GreenVulcano ESB Support - Configuration

Chapter contents:

Document type

To be correclty handled by the configuration tool (VulCon and/or GVConsole), the **GreenVulcano ESB Support** configuration file must have the following DOCTYPE:

- Root element: **GVSupport**
- System id: **http://www.greenvulcano.com/gvesb/dtds/GVSupport.dtd**
- Public id:

```
<!DOCTYPE GVSupport SYSTEM "http://www.greenvulcano.com/gvesb/dtds/
GVSupport.dtd">
```

Elements

The following paragraphs, one for Element, describes the elements and their attributes.

Advanced

```
(Description?)
```

The **Advanced** Element is used by: *JNDIHelper*.

The following table show the element's attributes **Advanced**:

Attribute	Tyte	Description
object-factories	optional	The attribute's value can't be null.

state-factories	optional	The attribute's value can't be null.
url-pkg-prefixes	optional	The attribute's value can't be null.
dns-url	optional	The attribute's value can't be null.
authoritative	optional	The attribute's value can't be null.
batchsize	optional	The attribute's value can't be null.
referral	optional	The attribute's value can't be null.
security-protocol	optional	The attribute's value can't be null.
security-authentication	optional	The attribute's value can't be null.
language	optional	The attribute's value can't be null.

appender

```
(errorHandler?, param*, layout?, filter*, appender-ref*)
```

==
Appenders must have a name and a class.
Appenders may contain an error handler, a layout, optional parameters and filters. They may also reference (or include) other appenders.
==

#Icon: Appender.gif #ErrorIcon: AppenderError.png

The **appender** Element is used by: *log4j:configuration*.

The following table show the element's attributes **appender**:

Attribute	Tyte	Description
name	required	The attribute's value can't be null.
class	required	

appender-ref

```
EMPTY
```

==
==

The **appender-ref** Element is used by: *appender*, *category*, *errorHandler*, *logger*, *root*.

The following table show the element's attributes **appender-ref**:

Attribute	Tyte	Description
ref	required	

BasicJSInit

`(Description?, Script?)`

Basic Initializer.

The **BasicJSInit** Element is used by: *JavaScriptInitializers*.

The following table show the element's attributes **BasicJSInit**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **jsinit**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.js.initializer.BasicJSInit**.
name	required	Initializer name. The attribute's value can't be null.
script-file	optional	This attribute is the file name cointaining the script to execute to initialize the scope. This script is executed before the one contained in the element Script. The attribute's value can't be null.

category

`(param*, (priority | level)?, appender-ref*)`

===
If no level element is specified, then the configurator MUST not touch the level of the named category.
===

#Icon: Logger.gif #ErrorIcon: LoggerError.png

The **category** Element is used by: *log4j:configuration*.

The following table show the element's attributes **category**:

Attribute	Tyte	Description
name	required	The attribute's value can't be null.
class	optional	
additivity	optional	The attribute's default value is: **true**. The attribute's admitted values are: • **true** • **false**

categoryFactory

`(param*)`

==
==

The **categoryFactory** Element is used by: *log4j:configuration.*

The following table show the element's attributes **categoryFactory**:

Attribute	Tyte	Description
class	required	

constructor-args

`(Description?, constructor-param+)`

You can specify constructor arguments here, if your protocol socket factory class does not have a default constructor.

The **constructor-args** Element is used by: *CustomProtocol.*

constructor-param

`(Description?)`

A constructor parameter.

The **constructor-param** Element is used by: *constructor-args.*

The following table show the element's attributes **constructor-param**:

Attribute	Tyte	Description
type	required	Parameter type. Only simple java types are supported. The attribute's admitted values are: • **byte** • **boolean** • **char** • **double** • **float** • **int** • **long** • **short** • **String**
value	optional	Parameter value. Do not specify the value of this parameter if null should be passed. #Encrypted

The attribute's admitted values are:
- **true**
- **false**

CustomProtocol

`(Description?, constructor-args?)`

The custom protocol handler configuration.

Referes to HttpClient documentation for further info: http://hc.apache.org/httpclient-3.x/sslguide.html

The **CustomProtocol** Element is used by: *GVHTTPClientProtocolConfig*.

The following table show the element's attributes **CustomProtocol**:

Attribute	Tyte	Description
name	required	Name identifier for this protocol. The attribute's value can't be null.
protocol-scheme	required	The URI protocol scheme (http, https, etc.). The attribute's value can't be null.
protocol-socket-factory	required	The custom socket factory class, implementation of class 'org.apache.commons.httpclient.protocol.ProtocolSocketFactory'. If this class do not have a default constructor, you can specify constructor arguments using 'constructor-args' element. The attribute's value can't be null.
protocol-default-port	required	The default port number for this custom protocol. The attribute's value can't be null.
protocol-virtual-scheme	optional	You can specify this parameter to use your own custom protocol designator as well as the default protocol implementation, specified by 'protocol-scheme' attribute. The attribute's value can't be null.

Data

`(Description?)`

This attribute defines the routing. If not valued defaults to "0"

The **Data** Element is used by: *GVBuffer*.

The following table show the element's attributes **Data**:

Attribute	Tyte	Description
encoding	optional	This attribute defines the data encoding

The attribute's default value is: **UTF-8**.

The attribute's admitted values are:
- **Binary**
- **US-ASCII**
- **ISO-8859-1**
- **UTF-8**
- **UTF-16BE**
- **UTF-16LE**
- **UTF-16**

value	optional	This attribute defines the value of the input data

DayLightSaving
`(Description?)`

The **DayLightSaving** Element is used by: *Locale*.

The following table show the element's attributes **DayLightSaving**:

Attribute	Tyte	Description
startMonth	required	The attribute's value can't be null.
startDay	required	The attribute's value can't be null.
startDayOfWeek	required	The attribute's value can't be null.
startTime	required	The attribute's value can't be null.
endMonth	required	The attribute's value can't be null.
endDay	required	The attribute's value can't be null.
endDayOfWeek	required	The attribute's value can't be null.
endTime	required	The attribute's value can't be null.

defaultInternalField
`(Description?)`

This element defines the internal fields that by default are assigned to the Input GVBuffer.

The **defaultInternalField** Element is used by: *EJBTest*.

The following table show the element's attributes **defaultInternalField**:

Attribute	Tyte	Description
fieldName	required	Internal field definition.
fieldValue	required	Internal field value.

Description

`(#PCDATA)`

Each element of the configuration provides a field 'Description' optional that can contain free text available to the user.
This field can be used for notes and information that help users in configuration management.

This information can be used by the application GVConsole to enrich the reports relating to the configuration.

The description is always optional, but if used can not be empty.

#Icon: description.png

The element value can't be null.

The **Description** Element is used by: *Advanced*, *BasicJSInit*, *constructor-args*, *constructor-param*, *CustomProtocol*, *Data*, *DayLightSaving*, *defaultInternalField*, *DUMMYStatisticsWriter*, *EJBTest*, *Extended*, *ExtendedData*, *ExtendedDataMappings*, *GVBuffer*, *GVBufferProperty*, *GVDateUtils*, *GVHeartBeatConfig*, *GVHTTPClientProtocolConfig*, *GVJavaScriptConfig*, *GVJNDIBuildersConfig*, *GVMonitoringConfig*, *GVStatisticsConfig*, *GVTaskManagerFactory*, *Holiday*, *Holidays*, *Input*, *JavaScriptInitializers*, *JDBCHeartBeat*, *JDBCStatisticsWriter*, *JMSStatisticsWriter*, *JNDIHelper*, *Locale*, *LogConsole*, *Loop*, *Metadata*, *MonitoredProcess*, *MonitoredProcesses*, *Rebind*, *SimpleHeartBeat*, *TaskManager*, *Test*, *TestFlow*, *TestProperties*, *Writers*.

DUMMYStatisticsWriter

`(Description?)`

DUMMY Writer plug-in parameters.

Default plug-in for statistics.
It's can be used when are problem on other statistics writers.
It DON'T makes historicization of data.

The **DUMMYStatisticsWriter** Element is used by: *Writers*.

The following table show the element's attributes **DUMMYStatisticsWriter**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **stat-writer**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.gvesb.statistics.plugin.DUMMYStatisticsWriter**.
id	fixed	Unmodifiable. This attribute *must* assume the value **DUMMY_STORE**.

EJBTest

`(Description?, defaultInternalField*, JNDIHelper?, Loop?)`

This elements defines the Test details. Every test uses a specific element for initialization.

The **EJBTest** Element is used by: *GVWorkbenchConfig*.

The following table show the element's attributes **EJBTest**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **test**.
id	required	Test unique id. The attribute's value can't be null.
class	required	Plug-in class invoking the EJB. The attribute's value can't be null.
jndiName	required	JNDI name of the EJB to invoke. The attribute's value can't be null.
fileNameOutput	optional	This attribute defines the absolute path of the file where Test program writes the test results
fileNameInput	optional	This attribute defines the absolute path of the file where Test program writes the test input data

errorHandler

`(param*, root-ref?, logger-ref*, appender-ref?)`

==
ErrorHandlers can be of any class. They can admit any number of parameters.
==

The **errorHandler** Element is used by: *appender*.

The following table show the element's attributes **errorHandler**:

Attribute	Tyte	Description
class	required	

Extended

`(Description?)`

The **Extended** Element is used by: *JNDIHelper*.

The following table show the element's attributes **Extended**:

Attribute	Tyte	Description
name	required	The attribute's value can't be null.
value	required	The attribute's value can't be null.

ExtendedData

`(Description?, ((GVBufferProperty | GVBuffer | Metadata))*)`

This element defines for each couple System / Service further data typologies to use for statistics, as:

- properties of GVBuffer
- part of a buffer of GVBuffer
- the value of a property of the JVM
- current date

#CompositeLabel: ||@system|::|@service

The **ExtendedData** Element is used by: *ExtendedDataMappings*.

The following table show the element's attributes **ExtendedData**:

Attribute	Tyte	Description
system	required	GreenVulcano ESB system.
		The attribute's value can't be null.
service	required	GreenVulcano ESB system's service.
		The attribute's value can't be null.

ExtendedDataMappings

`(Description?, ExtendedData*)`

The **ExtendedDataMappings** Element is used by: *GVStatisticsConfig*.

filter

`(param*)`

==
See the filter class documentation to understand its parameters.
==

The **filter** Element is used by: *appender*.

The following table show the element's attributes **filter**:

Attribute	Tyte	Description
class	required	

GVBuffer

(Description?, Data, TestProperties?, TestFlow)

This element represents the input object GVBuffer

The **GVBuffer** Element is used by: *ExtendedData*, *Input*.

The following table show the element's attributes **GVBuffer**:

Attribute	Tyte	Description
system	required	This attribute defines the name of the System
service	required	This attribute defines the name of the Service
id	optional	This attribute defines the l'ID. If not valued it's automatically generated.

GVBufferProperty

(Description?)

Defines a GVBuffer property to save in the statistics storage.

The **GVBufferProperty** Element is used by: *ExtendedData*.

The following table show the element's attributes **GVBufferProperty**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **data-mapping**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.gvesb.statistics.datawrapper.GVBufferPropertyWrapper**.
storeField	required	Defines the store object name. In case of JDBC Store the field mapa table column. The attribute's value can't be null.
property	required	The property name. The attribute's value can't be null.

GVDateUtils

`(Description?, Locale, Holidays)`

Defines standard Locale, TimeZone and holydays for it.greenvulcano.util.txt.DateUtils utility class.

The **GVDateUtils** Element is used by: *GVSupport*.

The following table show the element's attributes **GVDateUtils**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module ID always set to 'DATE_UTILS'.
		This attribute *must* assume the value **DATE_UTILS**.

GVHeartBeatConfig

`(Description?, (SimpleHeartBeat | JDBCHeartBeat))`

Defines the configuration of the GreenVulcanoESB heartbeat framework.

The **GVHeartBeatConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVHeartBeatConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module ID always set to 'HEART_BEAT'.
		This attribute *must* assume the value **HEART_BEAT**.

GVHTTPClientProtocolConfig

`(Description?, CustomProtocol*)`

Defines the configuration of HttpClient custom protocols handler, globally defined for the GV Server.

The **GVHTTPClientProtocolConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVHTTPClientProtocolConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.

name	fixed	Module ID always set to 'JNDI_BUILDER'.
		This attribute *must* assume the value **HTTP_CLIENT_PROTOCOLS**.

GVJavaScriptConfig

`(Description?, JavaScriptInitializers)`

The **GVJavaScriptConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVJavaScriptConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module id always set to 'JAVASCRIPT'.
		This attribute *must* assume the value **JAVASCRIPT**.

GVJNDIBuildersConfig

`(Description?, (Rebind)*)`

Defines the configuration of helper objects to manage JNDI tree.

The **GVJNDIBuildersConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVJNDIBuildersConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module ID always set to 'JNDI_BUILDER'.
		This attribute *must* assume the value **JNDI_BUILDER**.

GVLog4JConfiguration

`(log4j:configuration)`

The **GVLog4JConfiguration** Element is used by: *GVSupport*.

The following table show the element's attributes **GVLog4JConfiguration**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.

		This attribute *must* assume the value **module**.
name	fixed	Module Id always set to 'LOG4J'.
		This attribute *must* assume the value **LOG4J**.

GVMonitoringConfig

`(Description?, MonitoredProcesses)`

The **GVMonitoringConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVMonitoringConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module id always set to 'MONITORING'.
		This attribute *must* assume the value **MONITORING**.

GVStatisticsConfig

`(Description?, Writers, ExtendedDataMappings?)`

Root element for GreenVulcano ESB Statistics.

The **GVStatisticsConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVStatisticsConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module ID always set to 'STATISTICS'.
		This attribute *must* assume the value **STATISTICS**.

GVSupport

`(GVLog4JConfiguration?, GVJavaScriptConfig?, GVDateUtils?, GVJNDIBuildersConfig?, GVStatisticsConfig?, GVMonitoringConfig?, GVWorkbenchConfig?, GVHTTPClientProtocolConfig?, GVHeartBeatConfig?, GVTaskManagerFactory?)`

GreenVulcano ESB Support Configuration File.

The following table show the element's attributes **GVSupport**:

Attribute	Tyte	Description
version	fixed	Current GreenVulcano ESB version.
		This attribute *must* assume the value **1.0**.

GVTaskManagerFactory

`(Description?, TaskManager)`

Defines the configuration of the GreenVulcanoESB Timer task framework.

The **GVTaskManagerFactory** Element is used by: *GVSupport*.

The following table show the element's attributes **GVTaskManagerFactory**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module ID always set to 'TASK_MANAGER_FACTORY'.
		This attribute *must* assume the value **TASK_MANAGER_FACTORY**.

GVWorkbenchConfig

`(EJBTest*, LogConsole?)`

The **GVWorkbenchConfig** Element is used by: *GVSupport*.

The following table show the element's attributes **GVWorkbenchConfig**:

Attribute	Tyte	Description
type	fixed	Element type 'module'.
		This attribute *must* assume the value **module**.
name	fixed	Module ID always set to 'WORKBENCH'.
		This attribute *must* assume the value **WORKBENCH**.

Holiday

`(Description?)`

The **Holiday** Element is used by: *Holidays*.

The following table show the element's attributes **Holiday**:

Attribute	Tyte	Description
month	required	The attribute's value can't be null.
day	required	The attribute's value can't be null.

Holidays

`(Description?, Holiday*)`

The **Holidays** Element is used by: *GVDateUtils*.

The following table show the element's attributes **Holidays**:

Attribute	Tyte	Description
have-easter-day	required	The attribute's admitted values are: • **true** • **false** The attribute's value can't be null.

Input

`(Description?, (GVBuffer))`

This element is the input type of the test to be performed

The **Input** Element is used by: *Test*.

The following table show the element's attributes **Input**:

Attribute	Tyte	Description
jndiName	required	EJB JNDI name The attribute's value can't be null.

JavaScriptInitializers

`(Description?, (BasicJSInit)*)`

Defines the scope initializers.

The **JavaScriptInitializers** Element is used by: *GVJavaScriptConfig*.

JDBCHeartBeat

`(Description?)`

JDBC HeartBeat implementation, logs event in DB table.

The **JDBCHeartBeat** Element is used by: *GVHeartBeatConfig*.

The following table show the element's attributes **JDBCHeartBeat**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **heartbeat**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.util.heartbeat.impl.JDBCHeartBeat**.
jdbc-connection-name	optional	The connection name to use. Default to using the 'HeartBeat' The attribute's value can't be null.

JDBCStatisticsWriter

(Description?, JNDIHelper?)

JDBC Writer plug-in connection parameters.

It's can be used for writing statistics information on DB.

The **JDBCStatisticsWriter** Element is used by: *Writers*.

The following table show the element's attributes **JDBCStatisticsWriter**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **stat-writer**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.gvesb.statistics.plugin.JDBCStatisticsWriter**.
id	required	Writer id. The attribute's value can't be null.
dataSource	required	JDBC DataSorce JNDI name. The attribute's value can't be null.

JMSStatisticsWriter

(Description?, JNDIHelper?)

JMS Writer plug-in connection parameters.

It's can be used for writing statistics information on a JMS Queue.

The **JMSStatisticsWriter** Element is used by: *Writers*.

The following table show the element's attributes **JMSStatisticsWriter**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **stat-writer**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.gvesb.statistics.plugin.JMSStatisticsWriter**.
id	required	Writer id. The attribute's value can't be null.
connectionFactory	required	JMS QueueConnectionFactory JNDI name. The attribute's value can't be null.
queue	required	JMS Queue JNDI name. The attribute's value can't be null.

JNDIHelper

(Description?, Advanced?, Extended*)

The **JNDIHelper** Element is used by: *EJBTest*, *JDBCStatisticsWriter*, *JMSStatisticsWriter*, *Rebind*, *Test*.

The following table show the element's attributes **JNDIHelper**:

Attribute	Tyte	Description
initial-context-factory	optional	Initial context factory for the JNDI tree containing connection-factory and the destination-name. Refer to your application server documentation for further information. Where GreenVulcano ESB and the server to contact are installed on the application server of the same type, you may leave this parameter unspecified. Where the application servers are rather different, as well as configure the initial context factory, make sure also that are present in the classpath the classes necessary to connect remote application server. #Icon: default.png

		The attribute's value can't be null.
provider-url	optional	Application server connection URL. Refer to your application server documentation for the configuration of this parameter If the JNDI Context to be created refers to the current application server you can leave this parameter unspecified. #Icon: default.png The attribute's value can't be null.
security-principal	optional	Username used to connect the application server. If security is not enabled, you can leave unspecified this parameter. #Icon: default.png The attribute's value can't be null.
security-credentials	optional	Password to connect the application server. If security is not enabled, you can leave unspecified this parameter. #Icon: default.png The attribute's value can't be null.

layout

`(param*)`

===

See the layout class documentation to understand its parameters.

===

The **layout** Element is used by: *appender*.

The following table show the element's attributes **layout**:

Attribute	Tyte	Description
class	required	

level

`(param*)`

===

The level class is org.apache.log4j.Level by default.

===

The **level** Element is used by: *category*, *logger*, *root*.

The following table show the element's attributes **level**:

Attribute	Tyte	Description
class	optional	
value	required	

Locale

`(Description?, DayLightSaving?)`

The **Locale** Element is used by: *GVDateUtils*.

The following table show the element's attributes **Locale**:

Attribute	Tyte	Description
lang	required	The attribute's value can't be null.
country	required	The attribute's value can't be null.
timezone	required	The attribute's value can't be null.

log4j:configuration

`(renderer*, appender*, (category | logger)*, root?, categoryFactory?)`

Authors: Chris Taylor, Ceki Gulcu.
Version: 1.2
==
A configuration element consists of optional renderer elements,appender elements, categories and an optional root element.
==

The **log4j:configuration** Element is used by: *GVLog4JConfiguration*.

The following table show the element's attributes **log4j:configuration**:

Attribute	Tyte	Description
xmlns:log4j	fixed	This attribute *must* assume the value **http:// jakarta.apache.org/log4j/**.
threshold	optional	The "threshold" attribute takes a level value such that all logging statements with a level equal or below this value are disabled. The attribute's default value is: **null**. The attribute's admitted values are: • **all** • **debug** • **info** • **warn** • **error** • **fatal**

| | | • | **off** |
| | | • | **null** |

debug	optional	By default, debug attribute is "null", meaning that we not touch internal log4j logging settings. Setting the "debug" attributes enable the printing of internal log4j logging statements. The attribute's default value is: **null**. The attribute's admitted values are: • **true** • **false** • **null**

LogConsole
`(Description?, LogFilter, Message)`

The **LogConsole** Element is used by: *GVWorkbenchConfig*.

The following table show the element's attributes **LogConsole**:

Attribute	Tyte	Description
jdbc-connection-name	required	DataSource JNDI name. The attribute's value can't be null.

LogFilter
`(#PCDATA)`

The element value can't be null.

The **LogFilter** Element is used by: *LogConsole*.

logger
`(level?, appender-ref*)`
==
If no level element is specified, then the configurator MUST not touch the level of the named category.
==

#Icon: Logger.gif #ErrorIcon: LoggerError.png

The **logger** Element is used by: *log4j:configuration*.

The following table show the element's attributes **logger**:

Attribute	Tyte	Description
name	required	The attribute's value can't be null.
additivity	optional	The attribute's default value is: **true**. The attribute's admitted values are: • **true** • **false**

logger-ref

`EMPTY`

```
================================================================================
================================================================================
```

The **logger-ref** Element is used by: *errorHandler*.

The following table show the element's attributes **logger-ref**:

Attribute	Tyte	Description
ref	required	The attribute's value can't be null.

Loop

`(Description?, Test+)`

Element for multiple tests on GreenVulcano ESB.

The **Loop** Element is used by: *EJBTest*.

The following table show the element's attributes **Loop**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **loop**.
id	required	This attribute must correspond to the id of the relative EJBTest. The attribute's value can't be null.
className	required	Class name that contains the test object identified. The attribute's value can't be null.
fileName	required	Complete file path of the output file for the multiple test A fully qualified name is mandatory. The attribute's value can't be null.

Message

`(#PCDATA)`

The element value can't be null.

The **Message** Element is used by: *LogConsole*.

Metadata

`(Description?)`

Defines rule to eprocess a metadata and store it in the statistics storage.

The **Metadata** Element is used by: *ExtendedData*.

The following table show the element's attributes **Metadata**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **data-mapping**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.gvesb.statistics.datawrapper.MetadataWrapper**.
storeField	required	Defines the store object name. In case of JDBC Store the field mapa table column. The attribute's value can't be null.
expression	required	The expression can be a combination of: 1 - fixed : a text string; 2 - %{{class}} : the obj class name; 3 - %{{fqclass}} : the obj fully qualified class name; 4 - %{{package}} : the obj package name; 5 - ${{propname}} : a System property name; 6 - sp{{propname}} : a System property name; 7 - @{{propname}} : a inProperties property name; 8 - timestamp{{pattern}} : return the current timestamp formatted as 'pattern' 9 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-pattern' to 'dest-pattern' 10 - decode{{field[::cond1::val1][::cond2::val2] [cond...n::val...n]::default}} : evaluate as if-then-else; if 'field' is equal to cond1...n, return the value of val1...n, otherwise 'default' 11 - decodeL{{sep::field[::cond1::val1] [::cond2::val2][cond...n::val...n]::default}} : is equivalent to 'decode', with the difference that 'condX' can be a list of values separated by 'sep' 12 - js{{scope::script}} : evaluate a JavaScript script, using the scope 'scope', the object is added to the scope as 'object' 13 - sql{{conn::statement}} : execute a select sql statement sql and return the value of the first field of the first selected record.

The 'conn' parameter is the JNDI name of a DataSource 14
- sqllist{{conn::statement}} : execute a select sql statement
sql and return the value of the first field of all selected
records as a comma separated list.
The 'conn' parameter is the JNDI name of a DataSource 15 -
sqltable{{conn::statement}} : executes a select sql statement
and returns all values of returned cursor as an XML.
The 'conn' parameter is the JNDI name of a DataSource 16 -
ognl{{script}} : evaluate a OGNL script, the object is added
to the context as 'object' (and is also the object on which
execute the script)

The attribute's value can't be null.

MonitoredProcess

`(Description?)`

The **MonitoredProcess** Element is used by: *MonitoredProcesses*.

The following table show the element's attributes **MonitoredProcess**:

Attribute	Tyte	Description
name	required	The attribute's value can't be null.
url	optional	The attribute's value can't be null.
user	optional	The attribute's value can't be null.
password	optional	The attribute's value can't be null.

MonitoredProcesses

`(Description?, MonitoredProcess+)`

The **MonitoredProcesses** Element is used by: *GVMonitoringConfig*.

param

`EMPTY`

===
===

The **param** Element is used by: *appender*, *category*, *categoryFactory*, *errorHandler*, *filter*, *layout*, *level*, *priority*, *root*.

The following table show the element's attributes **param**:

Attribute	Tyte	Description
name	required	_#_Unique: ../param/@name

The attribute's value can't be null.

value	required	

priority

`(param*)`

==

The priority class is org.apache.log4j.Level by default.

==

The **priority** Element is used by: *category*, *root*.

The following table show the element's attributes **priority**:

Attribute	Tyte	Description
class	optional	
value	required	

Rebind

`(Description?, JNDIHelper?)`

The **Rebind** Element is used by: *GVJNDIBuildersConfig*.

The following table show the element's attributes **Rebind**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **jndi-builder**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.gvesb.j2ee.jndi.impl.Rebind**.
name	required	The attribute's value can't be null.
oldJndiName	required	The attribute's value can't be null.
newJndiName	required	The attribute's value can't be null.

renderer

`EMPTY`

==

renderer elements allow the user to customize the conversion of message objects to String.

===

The **renderer** Element is used by: *log4j:configuration*.

The following table show the element's attributes **renderer**:

Attribute	Tyte	Description
renderedClass	required	
renderingClass	required	

root
`(param*, (priority | level)?, appender-ref*)`

===
If no priority element is specified, then the configurator MUST not touch the priority of root.
The root category always exists and cannot be subclassed.
===

The **root** Element is used by: *log4j:configuration*.

root-ref
`EMPTY`

===
===

The **root-ref** Element is used by: *errorHandler*.

Script
`(#PCDATA)`

The content defines a JavaScript script.

#Icon: default.png

The element value can't be null.

The **Script** Element is used by: *BasicJSInit*.

SimpleHeartBeat
`(Description?)`

Simple HeartBeat implementation, logs event in Log4J it.greenvulcano.util.heartbeat logger.

The **SimpleHeartBeat** Element is used by: *GVHeartBeatConfig*.

The following table show the element's attributes **SimpleHeartBeat**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **heartbeat**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.util.heartbeat.impl.SimpleHeartBeat**.

TaskManager

`(Description?)`

Standard TaskManager implementation.

#CompositeLabel: || @name | : | @config-file

The **TaskManager** Element is used by: *GVTaskManagerFactory*.

The following table show the element's attributes **TaskManager**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **task-manager**.
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute *must* assume the value **it.greenvulcano.scheduler.TaskManager**.
name	fixed	The TaskManager name. This attribute *must* assume the value **GVTaskManager**. The attribute's value can't be null.
config-file	fixed	The configuration file name. This attribute *must* assume the value **GVTaskManager-Configuration.xml**. The attribute's value can't be null.

Test

`(Description?, JNDIHelper?, Input)`

Test to be executed within the loop.

The **Test** Element is used by: *Loop*.

The following table show the element's attributes **Test**:

Attribute	Tyte	Description
enabled	required	Flag to enable the test in the loop. If set to 'No' the test will not be executed. The attribute's admitted values are: • **yes** • **no**
transaction	optional	This attribute specifies whether to insert the test in a transaction and how. The attribute's default value is: **NoTransaction**. The attribute's admitted values are: • **NoTransaction** • **Commit** • **Rollback**

TestFlow

`(Description?)`

This element represents the flow of methods to be run to execute the services in the list of multiple testing

The **TestFlow** Element is used by: *GVBuffer*.

The following table show the element's attributes **TestFlow**:

Attribute	Tyte	Description
forwardName	optional	This attribute defines the Forward name
method	required	This attribute defines the method to call

TestProperties

`(Description?)`

This attribute defines the properties of GVBuffer

The **TestProperties** Element is used by: *GVBuffer*.

The following table show the element's attributes **TestProperties**:

Attribute	Tyte	Description
name	required	This attribute defines the name of the property.
value	required	This attribute defines the value of the property.

Writers

```
(Description?, (JDBCStatisticsWriter | JMSStatisticsWriter |
DUMMYStatisticsWriter)*)
```

The **Writers** Element is used by: *GVStatisticsConfig*.

The following table show the element's attributes **Writers**:

Attribute	Tyte	Description
default	required	Default Statistics writer.

Chapter 3

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