

# **GreenVulcano ESB Adapters**

## **Reference manual**

Version 3.2.0 of Sun May 06 10:40:07 CEST 2012

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

# Table of contents

---

## **Chapter 1 - GreenVulcano ESB Adapters - Reference manual, 3**

Introduction, 3

## **Chapter 2 - GreenVulcano ESB Adapters - Configuration, 4**

Document type, 4

Elements, 4

## **Chapter 3 - Index, 246**

# Chapter 1

## GreenVulcano ESB Adapters - Reference manual

---

### Chapter contents:

Introduction

---

### Introduction

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

The configuration parameters are splitted in chapters:

- **GreenVulcano ESB Adapters**

# Chapter 2

## GreenVulcano ESB Adapters - Configuration

---

### Chapter contents:

Document type

Elements

---

### Document type

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

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

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

### Elements

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

### Advanced

(Description?)

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

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

Attribute	Type	Description
<b>object-factories</b>	optional	The attribute's value can't be null.

---

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

## AliasMapping

(Description?)

#Icon: default.png

The **AliasMapping** Element is used by: *ServiceAlias*.

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

Attribute	Type	Description
<b>real-name</b>	required	The attribute's value can't be null.
<b>alias</b>	required	The attribute's value can't be null.

## application-managed-security

EMPTY

Indicates that app supplied parameters (such as from getConnection(user, pw)) are used to distinguish connections in the pool.

The **application-managed-security** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## arg

EMPTY

The arg element specify the constructor arguments in the order of the ctor signature. Each arg has a type and value attribute.

The **arg** Element is used by: *constructor*.

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

Attribute	Type	Description
<b>type</b>	optional	The type attribute gives the type of the argument as defined in the ctor signature. If not defined java.lang.String is assumed.  The attribute's value can't be null.
<b>value</b>	required	The value attribute provides the string representation of the ctor argument. It is converted from a string to type using Java PropertyEditor or a ctor taking a single string as its argument.  The attribute's value can't be null.

## ArrayDataProvider

(Field+)

The **ArrayDataProvider** Element is used by: *DataProviders*.

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

Attribute	Type	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.ArrayDataProvider</b> .

## attachments

(file-attachment\*, gvBuffer?, Description?)

Defines the list of attachments of the email.

Is overwritten by the value of the GVBuffer property GV\_SMTP\_ATTACHMENTS.

The **attachments** Element is used by: *mail-message*.

## attribute

ANY

The attribute element specifies the initial value for a management attribute of the enclosing mbean.

Typically the value of the attribute element is the string representation of the attribute, but it can be an arbitrary xml fragment that is parsed by the mbean.

The **attribute** Element is used by: *mbean*.

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

Attribute	Type	Description
<b>name</b>	required	<p>The required name attribute gives the name of the attribute. This is the name exposed by the mbean to the MBeanServer for the attribute.</p> <p>The attribute's value can't be null.</p>
<b>replace</b>	optional	<p>The optional replace attribute indicates whether references of the form <code>\${x}</code> in the attribute element content should be replaced with the corresponding <code>System.getProperty(x)</code> value.</p> <p>The attribute's default value is: <b>true</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>trim</b>	optional	<p>The optional trim attribute specifies whether the attribute element content should be trimmed of whitespace.</p> <p>The attribute's default value is: <b>true</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>attributeClass</b>	optional	<p>The attributeClass attribute specifies that type of object that should be created. This is needed for non-concrete attribute types like interfaces and abstract classes.</p> <p>The attribute's value can't be null.</p>
<b>serialDataType</b>	optional	<p>The serialDataType defines the how the content of the attribute element is interpreted by the ServiceConfigurator. The possible values are:</p> <ul style="list-style-type: none"> <li>• <b>text</b>: the content is treated as the string representation of the attribute value. It will be mapped to the attribute using the PropertyEditor registered for the attribute type.</li> <li>• <b>javaBean</b>: the content is a collection of property elements.</li> </ul> <p>The attribute's default value is: <b>text</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>text</b></li> </ul>

- **javaBean**

The attribute's value can't be null.

## Axis2MessageContextDataProvider

(Field+)

The **Axis2MessageContextDataProvider** Element is used by: *DataProviders*.

The following table show the element's attributes **Axis2MessageContextDataProvider**:

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.Axis2MessageContextDataProvider</b> .

## Axis2SAAJSOAPMessageDataProvider

(Field+)

The **Axis2SAAJSOAPMessageDataProvider** Element is used by: *DataProviders*.

The following table show the element's attributes **Axis2SAAJSOAPMessageDataProvider**:

Attribute	Tyte	Description
<b>name</b>	required	Uses SAAJ to create the SOAPMessage to send. The basic object on which they are applying the expressions will be an object of type javax.xml.soap.SOAPMessage.  The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.Axis2SAAJSOAPMessageDataProvider</b> .



## AxisExtra

(Description?, PasswordCallback?)

The **AxisExtra** Element is used by: *GVWebServices*.

## AxisWebServiceInvoker

(Description?, XPathNamespace\*, WSDLInfo, EngageModule\*)

The **AxisWebServiceInvoker** Element is used by: *ws-call*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>invoker</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.ws.GVWebServiceInvoker</b> .
<b>service</b>	optional	Service name.
<b>serviceNS</b>	optional	Service NameSpace.
<b>operation</b>	required	Operation name.  The attribute's value can't be null.
<b>portName</b>	optional	Port Name
<b>timeout</b>	optional	Timeout in seconds.
<b>ref-dp</b>	optional	Name of Data Provider to use to prepare the request.
<b>throwsFault</b>	optional	If true throws Exception "Error invoking operation". If false returns the Fault response. Default to false.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>
<b>use-saaj</b>	optional	Defines whether to use SAAJ to invoke the WebService mode instead of the default Axis2 mode.  NOTE: If you choose to use SAAJ as a way of calling the WebService, Axis2 modules are not enabled.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>
<b>returnType</b>	optional	Defines how to set the response data in the object field of output GVBuffer: - context : the MessageContext - envelope : the envelope as XML serialized as string - body :

the body as XML serialized as string - body-element : the first child of body as XML serialized as string - header : the header as XML serialized as string - envelope-om : the envelope as OMMessage - body-om : the body as OMMessage - body-element-om : the first child of body as OMMessage - header-om : the header as OMMessage

Default: context

The attribute's admitted values are:

- **context**
- **envelope**
- **body**
- **body-element**
- **header**
- **envelope-om**
- **body-om**
- **body-element-om**
- **header-om**

The attribute's value can't be null.

---

## bcc

(mail-address+, Description?)

Contains the list of recipients in hidden knowledge of the mail.

Is overwritten by the value of the GVBuffer property GV\_SMTP\_BCC.

The **bcc** Element is used by: *destinations*.

## Binding

(Description?)

#CompositeLabel: || @gv-system || @gv-service || @gv-operation

The **Binding** Element is used by: *WSOperation*.

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

Attribute	Tyte	Description
<b>gv-service</b>	required	ID service with which to perform the invocation of GreenVulcano ESB.
<b>gv-system</b>	optional	ID system with which to perform the invocation of GreenVulcano ESB.
<b>gv-operation</b>	required	GreenVulcano ESB operation to invoke.
<b>transaction-timeout-secs</b>	optional	Transaction timeout in seconds.
<b>inputType</b>	optional	Defines how to set the response data in the object field of output GVBuffer: - context : the MessageContext -

envelope : the envelope as XML serialized as string - body :  
 the body as XML serialized as string - body-element : the  
 first child of body as XML serialized as string - header :  
 the header as XML serialized as string - envelope-om :  
 the envelope as OMMessage - body-om : the body as  
 OMMessage - body-element-om : the first child of body as  
 OMMessage - header-om : the header as OMMessage

Default: context

The attribute's admitted values are:

- **context**
- **envelope**
- **body**
- **body-element**
- **header**
- **envelope-om**
- **body-om**
- **body-element-om**
- **header-om**

The attribute's value can't be null.

<b>transaction</b>	optional	<p>Indicates whether the invocation to be performed in GreenVulcano is transactional or not.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> <li>• <b>none</b> The invocation is performed in non transactional mode.</li> <li>• <b>commit-before-reply</b> The invocation is performed in transactional mode and the commit is carried out immediately before returning the response to clients.</li> <li>• <b>commit-after-reply</b> The invocation is performed in transactional mode and the commit is carried out immediately after returning the response to clients.</li> </ul> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>commit-before-reply</b></li> <li>• <b>commit-after-reply</b></li> </ul>
--------------------	----------	--

## birt-report-call

(Description?)

Defines the information needed to generate BIRT reports.

#Icon: GVBirtReportCall.png #Category: Utils

The **birt-report-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **birt-report-call**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.birt.report.BIRTReportCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>groupName</b>	required	Reference to group name.  The attribute's value can't be null.
<b>reportName</b>	required	Reference to report name.  The attribute's value can't be null.
<b>reportType</b>	optional	Report format, default to 'pdf'.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>pdf</b></li> <li>• <b>excel</b></li> <li>• <b>html</b></li> </ul> The attribute's value can't be null.

## blocking-timeout-millis

(#PCDATA)

The blocking-timeout-millis element indicates the maximum time in milliseconds to block while waiting for a connection before throwing an exception.

Note that this blocks only while waiting for a permit for a connection, and will never throw an exception if creating a new connection takes an inordinately long time.

The default is 30000 (30 seconds).

The element value can't be null.

The **blocking-timeout-millis** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## BusinessWebServices

(Description?, WebService\*)

Business web services definition on Axis2.

#SortChild

The **BusinessWebServices** Element is used by: *GVWebServices*.

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

Attribute	Tyte	Description
<b>wsdl-directory</b>	required	Directory containing the generated WSDL for the services exposed through Axis2.  The attribute's value can't be null.
<b>services-directory</b>	required	Directory containing the services generated from a WSDL using Axis2.  The attribute's value can't be null.
<b>authenticated-http-soap-address</b>	optional	This is the default URL that is used in the build the soap: address for web services that require authentication exposed with http protocol. This URL can be overridden on different services. If not specified will be required to define it on the services. The final URL will be formed by concatenating the name of the service: default-soap-address/service  The attribute's value can't be null.
<b>authenticated-https-soap-address</b>	optional	This is the default URL that is used in the build the soap:address for web services that require authentication exposed with https protocol. This URL can be overridden on different services. If not specified will be required to define it on the services. The final URL will be formed by concatenating the name of the service: default-soap-address/service  The attribute's value can't be null.
<b>http-soap-address</b>	optional	This is the default URL that is used in the build the soap:address for web services that not require authentication exposed with http protocol. This URL can be overridden on different services. If not specified will be required to define it on the services. The final URL will be formed by concatenating the name of the service: default-soap-address/service  The attribute's value can't be null.
<b>https-soap-address</b>	optional	This is the default URL that is used in the build the soap:address for web services that not require authentication exposed with https protocol. This URL can be overridden on different services. If not specified will be required to define it on the services. The final URL will be formed by concatenating the name of the service: default-soap-address/service  The attribute's value can't be null.

## Call

(Description?)

Call configuration details.

The **Call** Element is used by: *ConnectorServices*.

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

Attribute	Type	Description
<b>id-service</b>	required	Service identifier.  The attribute's value can't be null.
<b>id-system</b>	optional	System identifier. If defined, you apply the parameters to the couple system / service, otherwise the parameters apply to service, independently from the value of the field System.
<b>target-service</b>	optional	If defined it is the real service to be invoked on GreenVulcano ESB. In this way you can configure multiple "Call" with different names and behaviors (use or not of the transaction and primitive to be invoked) to the same GreenVulcano ESB service. As Output you will still have the id-service given in input.
<b>id-operation</b>	required	Id of the primitive to invoke  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>Request</b></li><li>• <b>RequestReply</b></li><li>• <b>GetReply</b></li><li>• <b>GetRequest</b></li><li>• <b>SendReply</b></li><li>• <b>ReceiveMessage</b></li><li>• <b>SendMessage</b></li><li>• <b>Request-GetReply</b></li><li>• <b>SendMessage-ReceiveMessage</b></li></ul> The attribute's value can't be null.
<b>use-transaction</b>	required	Specifies whether the Call is to be made in transaction.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>FALSE</b></li><li>• <b>TRUE</b></li></ul> The attribute's value can't be null.
<b>id-transaction</b>	optional	Transaction id. If the attribute 'use-transaction' is 'TRUE' and is not valued the transaction-id, it will use the default transaction.  The attribute's value can't be null.

## CallDescriptor

(Description?, statement, SPOutputParameters?)

The **CallDescriptor** Element is used by: *DBOCallSP*.

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

Attribute	Tytle	Description
<b>id</b>	optional	The attribute's value can't be null.
<b>named-parameter-mode</b>	optional	Default is false. The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.

## call-parameter

(Description?)

Parameter for the items 'generic-call'.

The **call-parameter** Element is used by: *generic-call*.

The following table show the element's attributes **call-parameter**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>param</b> .
<b>name</b>	required	Parameter name. The attribute's value can't be null.
<b>value</b>	required	Parameter value.

## CallSPFormatter

(Description?, SPOutputParams?, GVBufferMapping?)

This element is the Formatter for calling a store procedure.

The **CallSPFormatter** Element is used by: *ResultSet*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>formatter</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.

		This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.formatter.CallSPFormatter</b> .
<b>success</b>	optional	The attribute defines the return value from SQL query if the execution ended with success.  The attribute's value can't be null.

## CallSPSimpleBaseFormatter

(Description?)

This formatter reads the value of the output parameter from a call to store procedures.

The **CallSPSimpleBaseFormatter** Element is used by: *GVBufferFieldOutput*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>base_formatter</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.formatter.base.CallSPSimpleBaseFormatter</b> .
<b>stylesheet</b>	optional	
<b>structure</b>	optional	This element defines the structure of the XML document that wraps the query result. <ul style="list-style-type: none"> <li>ONLY_DATA Inserts the XML document only the output of the query.</li> <li>METADATA_AND_DATA Inserts the XML document the query output, plus some information about DB objects (table, fields)</li> </ul> The attribute's default value is: <b>METADATA_AND_DATA</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>ONLY_DATA</b></li> <li><b>METADATA_AND_DATA</b></li> </ul>
<b>outputParamIndex</b>	required	This attribute defines the position parameter has in the statement.  The attribute's value can't be null.

## CatalogMapping



(SQLErrorCode\*)

#SortChild

The **CatalogMapping** Element is used by: *CustomMapping*, *DefaultMapping*.

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

Attribute	Tyte	Description
<b>code</b>	required	The attribute's value can't be null.
<b>module</b>	optional	The attribute's value can't be null.

## cc

(mail-address+, Description?)

Contains the list of recipients in knowledge of the mail.

Is overwritten by the value of the GVBuffer property GV\_SMTP\_CC.

The **cc** Element is used by: *destinations*.

## ChangeGVBuffer

(Description?, (SimpleGVBufferBodyBuilder)?, Script?, OGNLScript?, PropertyDef\*)

This element specifies a modification of a data buffer.

A change to a data buffer is to set one or more fields of the buffer with configurable values, or perform some transformation on the body.

You can also completely remove the body field. This option is useful to return an acknowledgment to the client without overhead to transfer the response data.

#Icon: default.png

The **ChangeGVBuffer** Element is used by: *test-service-call*.

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

Attribute	Tyte	Description
<b>clear-data</b>	required	<p>This attribute can be set to:</p> <ul style="list-style-type: none"><li>• <b>true</b>: reset the body field of the buffer</li><li>• <b>false</b>: do not alter the body field of the buffer</li></ul> <p>This option is useful to return an acknowledgment to the client without overhead to transfer the response data.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul>
<b>system</b>	optional	This attribute sets the value of system field of the buffer.

		The attribute's value can't be null.
<b>service</b>	optional	This attribute sets the value of service field of the buffer.  The attribute's value can't be null.
<b>ret-code</b>	optional	This attribute sets the value of return code field of the buffer.  The attribute's value can't be null.
<b>crypto-op</b>	optional	This attribute defines whether or not to use encryption and if you encrypt or decrypt the body field. Can not be defined with 'compress-op', 'scope-name', 'base64-op' and 'clear-data'.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>encrypt</b></li> <li>• <b>decrypt</b></li> </ul> The attribute's value can't be null.
<b>key-id</b>	optional	This attribute sets the key to use for the encryption/decryption.  The attribute's value can't be null.
<b>compress-op</b>	optional	This attribute defines whether to use compression and if you compress or decompress the body field. Can not be defined with 'crypto-op', 'scope-name', 'base64-op' and 'clear-data'.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>compress</b></li> <li>• <b>uncompress</b></li> </ul> The attribute's value can't be null.
<b>compress-level</b>	optional	This attribute sets the compression ratio to use.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>best-compression</b></li> <li>• <b>best-speed</b></li> <li>• <b>default-compression</b></li> <li>• <b>no-compression</b></li> </ul> The attribute's value can't be null.
<b>base64-op</b>	optional	This attribute defines whether to use Base64 encoding and if you encode or decode the body field. Can not be defined with 'compress-op', 'crypto-op', 'scope-name' and 'clear-data'.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>encode</b></li> <li>• <b>decode</b></li> </ul> The attribute's value can't be null.
<b>scope-name</b>	optional	This attribute defines whether to use a JavaScript.

		<p>If it is defined, represent the 'scope' to be used for script execution.</p> <p>The execution environment map is added to the scope as 'environment', the current input object is added to the scope as 'data'.</p> <p>Can not be defined with 'compress-op', 'crypto-op', 'base64-op' and 'clear-data'.</p> <p>The attribute's value can't be null.</p>
<b>script-file</b>	optional	<p>This attribute is the name of the file containing the script to run.</p> <p>The attribute's value can't be null.</p>

## Channels

(Description?, (VCLChannel | GreenVulcanoCoreChannel)\*)

Communication channels.

Typically you define a single channel for all services and set this channel as the default. However, you can define more than one channel for special needs.

#SortChild

The **Channels** Element is used by: *GVCConnectorConfiguration*.

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

Attribute	Type	Description
<b>default-channel-id</b>	optional	If not defined, sets to "default"

## check-valid-connection-sql

(#PCDATA)

Specify an SQL statement to check validity of a pool connection.

This may be called when managed connection is taken from pool for use.

The element value can't be null.

The **check-valid-connection-sql** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## cmd

(#PCDATA)

Command to run.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${proprname} : a System property name; 3 - sp{{proprname}} : a System property name; 4 -

@{{propname}} : a inProperties property name; 5 - timestamp{{pattern}} : return the current timestamp formatted as 'pattern' 6 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{{scope::script}} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{{conn::sep::statement}} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{{script}} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The element value can't be null.

The **cmd** Element is used by: *rsh-call*, *shell-call*.

## cmd-array-elem

(#PCDATA)

List of parameters that make up the command to run.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${{propname}} : a System property name; 3 - sp{{propname}} : a System property name; 4 - @{{propname}} : a inProperties property name; 5 - timestamp{{pattern}} : return the current timestamp formatted as 'pattern' 6 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{{scope::script}} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{{conn::sep::statement}} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{{script}} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The element value can't be null.

The **cmd-array-elem** Element is used by: *rsh-call*, *shell-call*.

## CollectionDataProvider

(Field+)

The **CollectionDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.CollectionDataProvider</b> .
<b>source-selector</b>	optional	OGNL expression to provide the root object to be passed to the expression stated in the 'Field' items.

## ComplexExtension

(Description?, Extension\*)

Allows you to combine with several extensions.

Moreover for any extention you can define when it has to be applied (IN, OUT or INOUT).

The output extensions are applied inversely to the declaration order.

#SortChild

The **ComplexExtension** Element is used by: *Extensions*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>extension</b> .
<b>class</b>	fixed	This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.extensions.ComplexExtension</b> .
<b>id-ext</b>	required	The attribute's value can't be null.

## CompressExtension

(Description?)

Extension for the "GVBuffer object" data compression

The **CompressExtension** Element is used by: *Extensions*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>extension</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.extensions.CompressExtension</b> .
<b>id-ext</b>	required	Unique identifier of the extension.  The attribute's value can't be null.
<b>when</b>	optional	Defines when you must apply the extension. Only input, only output or both input and output.  The attribute's default value is: <b>inout</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>in</b></li><li>• <b>out</b></li><li>• <b>inout</b></li></ul>
<b>compress-level</b>	required	Defines the compression level to be applied : best-compression, best-speed (fastest compression), default-compression (default), no-compression.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>best-compression</b></li><li>• <b>best-speed</b></li><li>• <b>default-compression</b></li><li>• <b>no-compression</b></li></ul> The attribute's value can't be null.

## Configuration

(ServletMappings, GVConnection, HTTPTransactions)

The **Configuration** Element is used by: *GVHTTPAdapter*.

## Connection

(Description?)

This element defines the necessary parameters to define the Driver to be used for JDBC connection.

The **Connection** Element is used by: *Connections*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>connection</b> .
<b>id</b>	required	Defines the connection identifier. Used to find the connection in the pool.  The attribute's value can't be null.
<b>enabled</b>	optional	If true the connection is enabled.  The attribute's default value is: <b>No</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>Yes</b></li><li>• <b>No</b></li></ul>
<b>connectionString</b>	required	Defines the connection string to the database. Refer to your database documentation for syntax.  The attribute's value can't be null.
<b>user</b>	optional	Defines user access to the database. Giving a value to the user is not required if you enter it in the connection String.
<b>password</b>	optional	Defines the password to the database. The value of the password is not required if you enter it in the connection string.  #Encrypted
<b>connectionMin</b>	required	Defines the minimum number of connections to be built at initialization.  The attribute's value can't be null.
<b>connectionMax</b>	required	Defines the maximum number of connections that can be built.  The attribute's value can't be null.
<b>autoCommit</b>	optional	Defines how to commit the SQL operations. If AutoCommit is 'true' all SQL statements are carried out and commit such unique transactions. If AutoCommit is 'false', but the statement is grouped into transactions that end with the call to a method to commit or rollback.  By default, new connections are in autocommit mode.  The attribute's default value is: <b>true</b> .

The attribute's admitted values are:

- **false**
- **true**

---

<b>txIsolation</b>	optional	<p>Defines the level of transaction isolation of the given connection.</p> <p>Just remember the following concepts:</p> <ul style="list-style-type: none"><li>• <b>'dirty reads'</b> : a dirty read occurs when a transaction reads data from a row that has been modified by another transaction, but not yet committed.</li><li>• <b>'non-repeatable'</b> : non-repeatable reads may occur in a lock-based concurrency control method when read locks are not acquired when performing a SELECT.</li><li>• <b>'phantom'</b> : a phantom read occurs when, in the course of a transaction, two identical queries are executed, and the collection of rows returned by the second query is different from the first.</li></ul> <p>Therefore we list the meanings of the isolation levels of a transaction :</p> <ul style="list-style-type: none"><li>• <b>TRANSACTION_NONE</b> : Uses DataBase defaults</li><li>• <b>TRANSACTION_READ_UNCOMMITTED</b> : Dirty reads, non-repeatable and phantom reads are possible.</li><li>• <b>TRANSACTION_READ_COMMITTED</b> : Dirty reads not possible, non-repeatable and phantom are possible.</li><li>• <b>TRANSACTION_REPEATABLE_READ</b> : Dirty reads and non-repeatable are not possible, phantom is possible.</li><li>• <b>TRANSACTION_SERIALIZABLE</b> : Dirty reads, non-repeatable and phantom are not possible.</li></ul> <p>The attribute's default value is: <b>TRANSACTION_NONE</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>TRANSACTION_NONE</b></li><li>• <b>TRANSACTION_READ_UNCOMMITTED</b></li><li>• <b>TRANSACTION_READ_COMMITTED</b></li><li>• <b>TRANSACTION_REPEATABLE_READ</b></li><li>• <b>TRANSACTION_SERIALIZABLE</b></li></ul>
--------------------	----------	---

---

## connectionFactory

(Description?)

Connection Factory.

The **connectionFactory** Element is used by: *Properties*.



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

Attribute	Tyte	Description
value	required	Full qualified name of the connection factory. The attribute's value can't be null.

## connectionProperty

(Description?)

Defines a property to access the UDDI server.

The **connectionProperty** Element is used by: *Properties*.

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

Attribute	Tyte	Description
type	required	Property type. The attribute's value can't be null.
name	required	Fully qualified interface name. The attribute's value can't be null.
value	required	Fully qualified name of te implementation. The attribute's value can't be null.

## connection-property

(#PCDATA)

The connection-property element allows you to pass in arbitrary connection properties to the `Driver.connect(url, props)` method.

Each connection-property specifies a string name/value pair with the property name coming from the name attribute and the value coming from the element content.

<

The element value can't be null.

The **connection-property** Element is used by: *local-tx-datasource*, *no-tx-datasource*.

The following table show the element's attributes **connection-property**:

Attribute	Tyte	Description
name	required	The connection-property name attribute gives the name of the connection property. The attribute's value can't be null.

## Connections

(Description?, Connection+)

This element defines the necessary parameters to define the Driver to be used for JDBC connection.

#SortChild

The **Connections** Element is used by: *GVJdbc*.

## connection-url

(#PCDATA)

The JDBC driver connection URL string.

The element value can't be null.

The **connection-url** Element is used by: *local-tx-datasource*, *no-tx-datasource*.

## ConnectorService

(Description?, OperationDetails\*)

Service configuration details.

#CompositeLabel: ! ConnectorService: ! @id-service !, System: ! @id-system

#SortChild

The **ConnectorService** Element is used by: *ConnectorServices*.

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

Attribute	Tyte	Description
<b>id-service</b>	required	Service identifier. The attribute's value can't be null.
<b>id-channel</b>	optional	Channel for this service. If not defined a default channel is used.
<b>id-system</b>	optional	System identifier. If defined, you apply the parameters to the couple system / service, otherwise the parameters apply to service, independently from the value of the field System.

## ConnectorServices

(Description?, ConnectorService\*, Call\*)

Configuration details for services and calls.

#SortChild

The **ConnectorServices** Element is used by: *GVConnectorConfiguration*.

## constructor

(arg\*)

The constructor element defines a non-default constructor to use when instantiating the mbean.

The **constructor** Element is used by: *mbean*.

## 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	Type	Description
<b>type</b>	required	Parameter type.  Only simple java types are supported.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>byte</b></li><li>• <b>boolean</b></li><li>• <b>char</b></li><li>• <b>double</b></li><li>• <b>float</b></li><li>• <b>int</b></li><li>• <b>long</b></li><li>• <b>short</b></li><li>• <b>String</b></li></ul>
<b>value</b>	optional	Parameter value. Do not specify the value of this parameter if null should be passed.  #Encrypted  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>

## CustomMapping

(CatalogMapping)

The **CustomMapping** Element is used by: *GVSQLErrorMapping*.

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

Attribute	Tytle	Description
<b>code</b>	required	The attribute's value can't be null.
<b>caller</b>	required	The attribute's value can't be null.

## CustomProtocol

(Description?, constructor-args?)

The custom protocol handler configuration.

Refers to HttpClient documentation for further info: <http://hc.apache.org/httpclient-3.x/sslguid.html>

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

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

Attribute	Tytle	Description
<b>name</b>	required	Name identifier for this protocol. The attribute's value can't be null.
<b>protocol-scheme</b>	required	The URI protocol scheme (http, https, etc.). The attribute's value can't be null.
<b>protocol-socket-factory</b>	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.
<b>protocol-default-port</b>	required	The default port number for this custom protocol. The attribute's value can't be null.
<b>protocol-virtual-scheme</b>	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.

## DataProviders

```
(ObjectDataProvider | StringDataProvider | MapDataProvider |
ArrayDataProvider | CollectionDataProvider | XMLEventCollectionDataProvider |
InputStreamDataProvider | JMSBytesMessageDataProvider | JMSMapMessageDataProvider
| JMSObjectMessageDataProvider | JMSStreamMessageDataProvider
| JMSTextMessageDataProvider | Axis2MessageContextDataProvider
| Axis2SAASOAPMessageDataProvider | HttpMethodDataProvider |
GVBufferChangeDataProvider)*
```

List of configured Data Providers.

#SortChild

The **DataProviders** Element is used by: *GVDDataProviderManager*.

## DataRetriever

(#PCDATA)

Defines a helper function.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script

The **DataRetriever** Element is used by: *GenericRetriever*, *JavaScriptRetriever*, *TableRetriever*.

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

Attribute	Type	Description
<b>method</b>	required	Helper function name. The attribute's value can't be null.
<b>signature</b>	optional	Comma-separated list of parameters name to be substituted in the function. The attribute's value can't be null.

<b>cacheable</b>	optional	<p>If true the calculated function value, for the given parameters set, is cached for future access during the service processing. The cache is canceled at service end. Default false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
------------------	----------	---

---

## DataSourceConnection

(Description?, JNDIHelper?)

This element retrieve a DataSource connection.

#Icon: default.png

The **DataSourceConnection** Element is used by: *DBOperations*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>db-connection</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.connections.DataSourceConnection</b>.</p>
<b>jndi-name</b>	required	<p>This attribute defines the DataSource JNDI name.</p> <p>The attribute's value can't be null.</p>

---

## DataSourceConnectionBuilder

(Description?, JNDIHelper?)

Create a JDBC connection using a DataSource.

The **DataSourceConnectionBuilder** Element is used by: *GVJDBCConnectionBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p>

		This attribute <i>must</i> assume the value <b>jdbc-connection-builder</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.
		This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.connections.impl.DataSourceConnectionBuilder</b> .
<b>name</b>	required	Builder name.  The attribute's value can't be null.
<b>data-source-jndi</b>	required	DataSource JNDI name.  The attribute's value can't be null.

## DateColumn

(Format)

Defines the configuration of the columns of type date in a sheet.

The **DateColumn** Element is used by: *SheetConfig*.

## db-call

(Description?, DBOperations)

Defines the parameters to perform an operation on DB.

#Icon: GVDBCall.png #Category: DataBase

The **db-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **db-call**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.db.DBCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## DBOBuilder

```
(Description?, DHAliasList?, DHVariables?, (DBOSelect | DBOThreadSelect | DBOUpdate  
| DBOInsert | DBOInsertOrUpdate | DBOUpdateOrInsert | DBOCallSP | DBOFlatSelect |  
DBOMultiFlatSelect)+)
```

DataHandler service.

#Icon: GVDataHandler\_DBOBuilder.png

The **DBOBuilder** Element is used by: *dh-call*, *GVDataHandlerConfiguration*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dbobuilder</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbobuilder.DBOBuilder</b> .
<b>name</b>	required	Service name.  The attribute's value can't be null.
<b>jdbc-connection-name</b>	required	DataSource JNDI name.  The attribute's value can't be null.
<b>transacted</b>	optional	Defines if the services must be executed in transaction. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"><li><b>false</b></li><li><b>true</b></li></ul> The attribute's value can't be null.
<b>isXA</b>	optional	If the service is transacted, this attributes indicates if participate in a distributed transaction or not. If 'false' the DataHandler handle a local transaction. Default false.  The attribute's admitted values are: <ul style="list-style-type: none"><li><b>true</b></li><li><b>false</b></li></ul> The attribute's value can't be null.
<b>output-data</b>	optional	The default is the value of @output-data of the last DBOxxx.  The attribute's value can't be null.
<b>make-dump</b>	optional	If set to 'none' not perform the input/output data dump. If set to 'text' or 'hex' then the dump is performed as text or hexadecimal string. Default to 'text'.



The attribute's admitted values are:

- **none**
- **text**
- **hex**

The attribute's value can't be null.

## DBOCallSP

(Description?, DHVariables?, CallDescriptor\*)

DBO optimized for operations on store procedures.

#Icon: GVDBOCallSP.png

The **DBOCallSP** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dbo</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOCallSP</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>force-mode</b>	optional	Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller call - call procedure mode  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>caller</b></li><li>• <b>call</b></li></ul> The attribute's value can't be null.
<b>execute-query</b>	optional	This parameter specifies is the callable statements must be executed with API CallableStatement#executeQuery(). Default is false.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>jdbc-connection-name</b>	optional	DataSource JNDI name. Override connection defined in DBOBuilder.

		The attribute's value can't be null.
<b>ignore-input</b>	optional	Tell the engine do not use the input data.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
		The attribute's value can't be null.
<b>input-data</b>	optional	The default is the value of @name-Input. Can be set as the @output-data of a preceeding DBO to use its output as input.
		The attribute's value can't be null.
<b>output-data</b>	optional	The default is the value of @name-Output.
		The attribute's value can't be null.

## DBOFlatSelect

(Description?, DHVariables?, FieldFormatters?, statement)

DBO optimized for select operations and conversion in CSV rows.

The **DBOFlatSelect** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dbo</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOFlatSelect</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>force-mode</b>	optional	Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller db2xml - data extraction mode  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>caller</b></li> <li>• <b>db2xml</b></li> </ul>
		The attribute's value can't be null.
<b>ignore-input</b>	optional	Tell the engine do not use the input data.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

		The attribute's value can't be null.
<b>jdbc-connection-name</b>	optional	DataSource JNDI name. Override connection defined in DBOBuilder.
		The attribute's value can't be null.
<b>output-data</b>	optional	The default is the value of @name-Output.
		The attribute's value can't be null.

## DBOInsert

(Description?, DHVariables?, statement+)

DBO optimized for insert operations.

#Icon: GVDBOInsert.png

The **DBOInsert** Element is used by: *DBOBuilder*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dbo</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOInsert</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>force-mode</b>	optional	Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller xml2db - data entry mode  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>caller</b></li> <li>• <b>xml2db</b></li> </ul> The attribute's value can't be null.
<b>jdbc-connection-name</b>	optional	DataSource JNDI name. Override connection defined in DBOBuilder.  The attribute's value can't be null.
<b>ignore-input</b>	optional	Tell the engine do not use the input data.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

		The attribute's value can't be null.
<b>input-data</b>	optional	The default is the value of @name-Input. Can be set as the @output-data of a preceeding DBO to use its output as input.
		The attribute's value can't be null.
<b>output-data</b>	optional	The default is the value of @name-Output.
		The attribute's value can't be null.

## DBOInsertOrUpdate

(Description?, DHVariables?, statement+)

DBO running the insert, and in case of collision, the corresponding update.

#Icon: GVDBOInsertUpdate.png

The **DBOInsertOrUpdate** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dbo</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOInsertOrUpdate</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>duplicate-insert-code</b>	optional	Specifies the error code when inserting with duplicate key.  The attribute's value can't be null.
<b>force-mode</b>	optional	Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller xml2db - data entry mode  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>caller</b></li> <li><b>xml2db</b></li> </ul> The attribute's value can't be null.
<b>jdbc-connection-name</b>	optional	DataSource JNDI name. Override connection defined in DBOBuilder.  The attribute's value can't be null.
<b>ignore-input</b>	optional	Tell the engine do not use the input data.

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>input-data</b>	optional	<p>The default is the value of @name-Input. Can be set as the @output-data of a preceeding DBO to use its output as input.</p> <p>The attribute's value can't be null.</p>
<b>output-data</b>	optional	<p>The default is the value of @name-Output.</p> <p>The attribute's value can't be null.</p>

## DBOMultiFlatSelect

(Description?, DHVariables?, FieldFormatters?, statement+)

DBO optimized for select operations and conversion in CSV rows.

The **DBOMultiFlatSelect** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>dbo</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOMultiFlatSelect</b>.</p>
<b>name</b>	required	The attribute's value can't be null.
<b>force-mode</b>	optional	<p>Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller db2xml - data extraction mode</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>caller</b></li> <li>• <b>db2xml</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>ignore-input</b>	optional	<p>Tell the engine do not use the input data.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>jdbc-connection-name</b>	optional	DataSource JNDI name.

		Override connection defined in DBOBuilder.
		The attribute's value can't be null.
<b>output-data</b>	optional	The default is the value of @name-Output.
		The attribute's value can't be null.

## DBOperations

(Description?, (DataSourceConnection | JdbcConnection), Statement, ResultSet)

This element configures an interaction with a database.

#Icon: default.png

The **DBOperations** Element is used by: *db-call*.

## DBOSelect

(Description?, DHVariables?, FieldFormatters?, statement+)

DBO optimized for select operations.

#Icon: GVDBOSelect.png

The **DBOSelect** Element is used by: *DBOBuilder*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dbo</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOSelect</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>force-mode</b>	optional	Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller db2xml - data extraction mode  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>caller</b></li> <li><b>db2xml</b></li> </ul> The attribute's value can't be null.
<b>ignore-input</b>	optional	Tell the engine do not use the input data.

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>jdbc-connection-name</b>	optional	<p>DataSource JNDI name. Override connection defined in DBOBuilder.</p> <p>The attribute's value can't be null.</p>
<b>output-data</b>	optional	<p>The default is the value of @name-Output.</p> <p>The attribute's value can't be null.</p>

## DBOThreadSelect

(Description?, DHVariables?, FieldFormatters?, statement+)

DBO optimized for select operations.

Every statement is execute in a separate thread, then the results are merged before making the transformation.

#Icon: GVDBOThreadSelect.png

The **DBOThreadSelect** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>dbo</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOThreadSelect</b>.</p>
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>force-mode</b>	optional	<p>Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller db2xml - data extraction mode</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>caller</b></li> <li>• <b>db2xml</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>ignore-input</b>	optional	<p>Tell the engine do not use the input data.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> </ul>

		<ul style="list-style-type: none"> <li><b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>jdbc-connection-name</b>	optional	<p>DataSource JNDI name. Override connection defined in DBOBuilder.</p> <p>The attribute's value can't be null.</p>
<b>output-data</b>	optional	<p>The default is the value of @name-Output.</p> <p>The attribute's value can't be null.</p>

## DBOUpdate

(Description?, DHVariables?, statement+)

DBO optimized for update operations.

#Icon: GVDBOUpdate.png

The **DBOUpdate** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>dbo</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOUpdate</b>.</p>
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>force-mode</b>	optional	<p>Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller xml2db - data entry mode</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li><b>caller</b></li> <li><b>xml2db</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>jdbc-connection-name</b>	optional	<p>DataSource JNDI name. Override connection defined in DBOBuilder.</p> <p>The attribute's value can't be null.</p>
<b>ignore-input</b>	optional	<p>Tell the engine do not use the input data.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li><b>true</b></li> </ul>



		<ul style="list-style-type: none"> <li><b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>input-data</b>	optional	<p>The default is the value of @name-Input. Can be set as the @output-data of a preceeding DBO to use its output as input.</p> <p>The attribute's value can't be null.</p>
<b>output-data</b>	optional	<p>The default is the value of @name-Output.</p> <p>The attribute's value can't be null.</p>

## DBOUpdateOrInsert

(Description?, DHVariables?, statement+)

DBO running the update, and if no record updated, the corresponding insert.

#Icon: GVDBOUpdateInsert.png

The **DBOUpdateOrInsert** Element is used by: *DBOBuilder*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>dbo</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.dbo.DBOUpdateOrInsert</b>.</p>
<b>name</b>	required	The attribute's value can't be null.
<b>transformation</b>	optional	
<b>force-mode</b>	optional	<p>Force mode of the DBO, can be used in DBOBuilder whit more heterogeneous DBO. Mode: caller - inherit the mode of the caller xml2db - data entry mode</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li><b>caller</b></li> <li><b>xml2db</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>jdbc-connection-name</b>	optional	<p>DataSource JNDI name. Override connection defined in DBOBuilder.</p> <p>The attribute's value can't be null.</p>
<b>ignore-input</b>	optional	<p>Tell the engine do not use the input data.</p> <p>The attribute's admitted values are:</p>

		<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>input-data</b>	optional	<p>The default is the value of @name-Input. Can be set as the @output-data of a preceeding DBO to use its output as input.</p> <p>The attribute's value can't be null.</p>
<b>output-data</b>	optional	<p>The default is the value of @name-Output.</p> <p>The attribute's value can't be null.</p>

## DecompressExtension

(Description?)

Extension decompressing data in GVBuffer object

The **DecompressExtension** Element is used by: *Extensions*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>extension</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.extensions.DecompressExtension</b>.</p>
<b>id-ext</b>	required	<p>Unique identifier of the extension.</p> <p>The attribute's value can't be null.</p>
<b>when</b>	optional	<p>Defines when you must apply the extension. Only input, only output or both input and output.</p> <p>The attribute's default value is: <b>inout</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>in</b></li> <li>• <b>out</b></li> <li>• <b>inout</b></li> </ul>

## DecryptExtension

(Description?)

Extension that carries out the decryption of data in GVBuffer object

The **DecryptExtension** Element is used by: *Extensions*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>extension</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.extensions.DecryptExtension</b> .
<b>id-ext</b>	required	Unique identifier of the extension.  The attribute's value can't be null.
<b>when</b>	optional	Defines when you must apply the extension. Only input, only output or both input and output.  The attribute's default value is: <b>inout</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>in</b></li><li>• <b>out</b></li><li>• <b>inout</b></li></ul>
<b>key-id</b>	optional	Sets the key to use for decryption.

## DefaultMapping

(CatalogMapping)

The **DefaultMapping** Element is used by: *GVSQLErrorMapping*.

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

Attribute	Type	Description
<b>code</b>	required	The attribute's value can't be null.

## depends

(#PCDATA | mbean)\*

The **depends** element specifies the JMX ObjectName string of a service that the connection manager services depend on or a JMX ObjectName string for a mbean on which the enclosing mbean depends.

The **depends** Element is used by: *local-tx-datasource*, *mbean*, *no-tx-datasource*, *xa-datasource*.

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

Attribute	Tyte	Description
<b>optional-attribute-name</b>	optional	The optional-attribute-name attribute specifies the attribute name which should be populated with the JMX ObjectName of the depends element. This allows an mbean to have access to the name of the mbean on which it depends.  The attribute's value can't be null.
<b>proxy-type</b>	optional	The proxy-type attribute specifies the interface name that should be exposed on an MBeanProxy pointing at the dependent MBean specified by the JMX ObjectName. The special value proxy-type="attribute" will use the class declared in the MBeanAttributeInfo as the interface for MBeanProxy.  The attribute's value can't be null.

## depends-list

(depends-list-element)+

The depends-list element specifies a series of JMX ObjectName strings for a mbeans on which the enclosing mbean depends. This is done using

The **depends-list** Element is used by: *mbean*.

The following table show the element's attributes **depends-list**:

Attribute	Tyte	Description
<b>optional-attribute-name</b>	optional	The optional-attribute-name attribute specifies the attribute name which should be populated with the JMX ObjectName[] array of the depends-list elements. This allows an mbean to have access to the names of the mbean on which it depends.  The attribute's value can't be null.

## depends-list-element

(#PCDATA | mbean)\*

The depends-list-element element specifies a JMX ObjectName string for a mbean on which the enclosing mbean depends.

The **depends-list-element** Element is used by: *depends-list*.

## 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, AliasMapping, attachments, AxisExtra, AxisWebServiceInvoker, bcc, Binding, birt-report-call, BusinessWebServices, Call, CallDescriptor, call-parameter, CallSPFormatter, CallSPSimpleBaseFormatter, cc, ChangeGVBuffer, Channels, ComplexExtension, CompressExtension, Connection, connectionFactory, connectionProperty, Connections, ConnectorService, ConnectorServices, constructor-args, constructor-param, CustomProtocol, DataSourceConnection, DataSourceConnectionBuilder, db-call, DBOBuilder, DBOCallSP, DBOFlatSelect, DBOInsert, DBOInsertOrUpdate, DBOMultiFlatSelect, DBOperations, DBOSelect, DBOThreadSelect, DBOUpdate, DBOUpdateOrInsert, DecompressExtension, DecryptExtension, destinations, DHAlias, DHAliasList, dh-call, DHVariable, DMLWriteFormatter, Driver, DriverConnectionBuilder, DriverPoolConnectionBuilder, Drivers, DTEExtension, EncryptExtension, endpoint, EngageModule, Engine, env-property, excel-call, excelreader-call, ExcelReportRender, Extended, Extension, Extensions, External-Component, ExternalComponents, External-Params, extract-data, extract-data-call, FieldFormatter, FieldFormatters, file-attachment, FileCopyCommand, FileDeleteCommand, FileFilter, filemanager-call, FileMonitorStatus, FileMoveCommand, filereader-call, FileSearchCommand, FileUnZipCommand, filewriter-call, FileZipCommand, Font, Format, fsmonitor-call, FTPManager, generic-call, GenericRetriever, GenericTransaction, GreenVulcanoCoreChannel, GreenVulcanoWebService, GreenVulcanoWebServices, groupJbpm, GroupsJbpm, GVAdapterOpenSpCoop, GVBIRTReportConfiguration, gvBuffer, GVBufferCondition, GVBufferFieldOutput, GVBufferMapping, GVBufferParam, GVBufferParamResolver, GVConnectorConfiguration, GVCoreApplication, GVDataHandlerConfiguration, GVDataProviderManager, GVExcelCreatorConfiguration, GVExcelReport, GVExcelWorkbook, GVExcelWorkbookConfiguration, GVHL7ListenerManager, GVJBPMConfiguration, GVJbpmListener, GVJbpmTaskListenerManager, GVJdbc, GVJDBCCConnectionBuilder, GVKnowledgeBaseConfig, GVMailServices, GVRulesConfigManager, GVSQLExceptionMapping, GVWebServices, HL7Activation, hl7-call, HL7Listener, HTMLReportRender, http-call, imap, InMemoryMonitorStatus, invoke-parameter, j2ee-ejb-call, j2ee-jca-call, JavaScriptRetriever, JAXMLRegistry, jbpm-call, jbpm-task-call, jca-connection-spec, jca-interaction-spec, JdbcConnection, jms, jms-dequeue, jms-enqueue, jmx-call, JNDIHelper, LDAPContext, ldap-search-call, ldap-update-call, LocalFileSystemMonitor, mail-address, mail-message, mail-service, message-body, mime, mm7-decode-call, mm7-submit-call, ModuleProperty, openspcoop-call, OperationDetails, Option, Options, Param, parameter, Parameter, Parameters, param-gvbuffer, ParamJbpm, ParamResolver, ParamsJbpm, ParamsTask, PasswordCallback, PDFReportRender, PoolParameters, pop3, pop-call, Properties, property, Property, PropertyCompare, PropertyDef, PropertyField, Proxy, PwCbBasicHandler, QueryFormatter, QueryXMLBaseFormatter,*

*RangeDef, RemoteDeleteCommand, RemoteDownloadCommand, RemoteFileSystemMonitor, remotemanager-call, RemoteMoveCommand, RemoteSearchCommand, RemoteUploadCommand, Renders, Report, ReportGroup, ReportGroups, rest, ResultSet, RetCodeField, RetrieverConfig, routed-call, routed-dequeue, routed-enqueue, rsh-call, rsh-filereader-call, rsh-filewriter-call, RSHServiceClientConfiguration, RSHServiceClientLocal, RSHServiceClientRMI, RuleResource, rules-call, ServiceAlias, ServletMapping, SFTPManager, Sheet, SheetConfig, shell-call, Simpleformatter, smtp, smtp-call, soap, soap12, SOARegistry, spec-constructor, spec-property, SPOutputParam, SPOutputParams, string-to-xml, TableRetriever, TestExtension, test-service-call, to, Transaction, Transactions, Transport, UDDI, UserDef, userJbpm, UsersJbpm, UserTransaction, VCLChannel, VCLOperation, VCLRouting, WebService, WLSSubjectBuilder, ws-call, WSDLInfo, WSOOperation, XAHelper, xml-data, xml-processor, XPathNamespace, XPathParamResolver.*

## destinations

(to?, cc?, bcc?, Description?)

It contains the list of mail recipients.

#Icon: default.png

The **destinations** Element is used by: *mail-message*.

## DHAlias

(Description?)

Alias for a DataHandler service.

The **DHAlias** Element is used by: *DHAliasList*.

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

Attribute	Tyte	Description
alias	required	Nome univoco dell'alias.
The attribute's value can't be null.		

## DHAliasList

(Description?, DHAlias+)

List of aliases for a given DataHandler service.

#SortChild

The **DHAliasList** Element is used by: *DBOBuilder*.

## dh-call

(Description?, RetrieverConfig?, DBOBuilder+)

Defines the parameters to make a call to DataHandler.

#Icon: GVDHCall.png #Category: DataBase #SortChild

The **dh-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **dh-call**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.datahandler.DataHandlerCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## DHSource

(DHVariable\*)

The **DHSource** Element is used by: *Parameter*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>source</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.birt.report.internal.field.DHSource</b> .
<b>service</b>	required	The attribute's value can't be null.
<b>use-string-map</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>sort</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>

The attribute's value can't be null.

## DHVariable

(Description?)

Default value for DataHandler service's variable.

The **DHVariable** Element is used by: *DHSource*, *DHVariables*.

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

Attribute	Tyte	Description
name	required	Variable name.  The attribute's value can't be null.
value	required	Variable value. Can contains the following placeholders: 1 - fixed : a text string; 2 - <code>\${{propname}}</code> : a System property name; 3 - <code>sp{{propname}}</code> : a System property name; 4 - <code>@{{propname}}</code> : a inProperties property name; 5 - <code>timestamp{{pattern}}</code> : return the current timestamp formatted as 'pattern' 6 - <code>dateformat{{date::source-pattern::dest-pattern}}</code> : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - <code>decode{{field[:cond1::val1][:cond2::val2][cond...n::val...n]:default}}</code> : evaluate as if-then-else; if 'field' is equal to cond1...n, return the value of val1...n, otherwise 'default' 8 - <code>decodeL{{sep::field[:cond1::val1][:cond2::val2][cond...n::val...n]:default}}</code> : is equivalent to 'decode', with the difference that 'condX' can be a list of values separated by 'sep' 9 - <code>js{{scope::script}}</code> : evaluate a JavaScript script, using the scope 'scope' 10 - <code>sql{{[conn::]statement}}</code> : 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, if not defined is used the current connection 11 - <code>sqllist{{[conn::]statement}}</code> : 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, if not defined is used the current connection 12 - <code>sqltable{{conn::statement}}</code> : 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 13 - <code>ognl{{script}}</code> : evaluate a OGNL script  The attribute's value can't be null.

## DHVariables

(DHVariable\*)



List of default values for DataHandler service's variables.

#SortChild

The **DHVariables** Element is used by: *DBOBuilder*, *DBOCallSP*, *DBOFlatSelect*, *DBOInsert*, *DBOInsertOrUpdate*, *DBOMultiFlatSelect*, *DBOSelect*, *DBOThreadSelect*, *DBOUpdate*, *DBOUpdateOrInsert*.

## DMLWriteFormatter

(Description?)

This element represents the Formatter to use if statements required is an update, an insert or delete.

The **DMLWriteFormatter** Element is used by: *ResultSet*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>formatter</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.formatter.DMLWriteFormatter</b> .
<b>success</b>	required	This attribute defines the return value from SQL query execution if successfully completed.  The attribute's value can't be null.

## Driver

(Description?)

This element defines the necessary parameters to define the Driver to be used for JDBC connections.

The **Driver** Element is used by: *Drivers*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>driver</b> .
<b>enabled</b>	optional	Defines whether this driver is active or not.  The attribute's default value is: <b>No</b> .

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>Yes</b></li> <li>• <b>No</b></li> </ul>
<b>class</b>	required	<p>Defines the class driver. Ex : oracle.jdbc.driver.OracleDriver</p> <p>The attribute's value can't be null.</p>
<b>initType</b>	optional	<p>Some drivers basing on the specifications do not need to be instantiated to be initialized, in this case then the initType would be: 'static'. (The Oracle driver is static.) Ex : oracle.jdbc.driver.OracleDriver</p> <p>The attribute's default value is: <b>static</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>static</b></li> <li>• <b>instance</b></li> </ul> <p>The attribute's value can't be null.</p>

## driver-class

(#PCDATA)

The fully qualified name of the JDBC driver class.

The element value can't be null.

The **driver-class** Element is used by: *local-tx-datasource*, *no-tx-datasource*.

## DriverConnectionBuilder

(Description?)

Create a JDBC connection using the DriverManager.

The **DriverConnectionBuilder** Element is used by: *GVJDBCConnectionBuilder*.

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

Attribute	Type	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>jdbc-connection-builder</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.connections.impl.DriverConnectionBuilder</b>.</p>
<b>name</b>	required	Builder name.

		The attribute's value can't be null.
<b>driver-class</b>	required	JDBC driver class.
		The attribute's value can't be null.
<b>url</b>	required	JDBC connection URL.
		The attribute's value can't be null.
<b>user</b>	optional	JDBC connection user name.
		The attribute's value can't be null.
<b>password</b>	optional	JDBC connection password.
		#Encrypted
		The attribute's value can't be null.

## DriverPoolConnectionBuilder

(Description?, PoolParameters?)

Create a JDBC connection (pool) using Apache DBCP.

The **DriverPoolConnectionBuilder** Element is used by: *GVJDBCCConnectionBuilder*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>jdbc-connection-builder</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.connections.impl.DriverPoolConnectionBuilder</b> .
<b>name</b>	required	Builder name.  The attribute's value can't be null.
<b>driver-class</b>	required	JDBC driver class.  The attribute's value can't be null.
<b>url</b>	required	JDBC connection URL.  The attribute's value can't be null.
<b>user</b>	optional	JDBC connection user name.  The attribute's value can't be null.
<b>password</b>	optional	JDBC connection password.  #Encrypted

The attribute's value can't be null.

## Drivers

(Description?, Driver\*)

This element defines the drivers relevant to JDBC calls.

#SortChild

The **Drivers** Element is used by: *GVJdbc*.

## DTEExtension

(Description?, Property-Field\*)

Extension that performs the data transformation through the DTE.

The **DTEExtension** Element is used by: *Extensions*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>extension</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.extensions.gvdtte.DTEExtension</b> .
<b>id-ext</b>	required	Unique identifier of the extension.  The attribute's value can't be null.
<b>when</b>	optional	Defines when you must apply the extension. Only input, only output or both input and output.  The attribute's default value is: <b>inout</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>in</b></li><li>• <b>out</b></li><li>• <b>inout</b></li></ul>
<b>trasformationName</b>	optional	Name of the transformation to be invoked. If this parameter is not valued, the following algorithm is used to create the name of the transformation: SISTEM:SERVICE::Input or :Output

## EncryptExtension

(Description?)

Extension that makes the encryption of data in GVBuffer object

The **EncryptExtension** Element is used by: *Extensions*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>extension</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.extensions.EncryptExtension</b> .
<b>id-ext</b>	required	Unique identifier of the extension.  The attribute's value can't be null.
<b>when</b>	optional	Defines when you must apply the extension. Only input, only output or both input and output.  The attribute's default value is: <b>inout</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>in</b></li><li>• <b>out</b></li><li>• <b>inout</b></li></ul>
<b>key-id</b>	optional	Sets the key to use for encryption.

## endpoint

(Description?, CustomProtocol?, Proxy?)

Endpoint configuration to connect to the server.

The **endpoint** Element is used by: *http-call*.

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

Attribute	Tyte	Description
<b>host</b>	required	Host to connect to.  The attribute's value can't be null.
<b>port</b>	optional	Port where the service is exposed. Default port is '80'.  The attribute's value can't be null.
<b>secure</b>	optional	Defines if the endpoint connection is secure or not. If secure is 'true', the default connection protocol will be 'http'; otherwise, the default connection protocol will be 'https'. The default value is 'false'.

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul>
<b>custom-protocol</b>	optional	Can be one of those defined locally for this 'http-call', or globally in GreenVulcanoESB on GVSupport configuration.

## EngageModule

(Description?, PolicyData?, ModuleProperty\*)

The **EngageModule** Element is used by: *AxisWebServiceInvoker*, *WebService*.

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

Attribute	Tyte	Description
<b>name</b>	required	<p>Defines the name of a module to hire to handle WS-*. If set, takes precedence over the attribute 'specifications'.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>rampart</b></li> <li>• <b>sandesha2</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>type</b>	optional	<p>Defines the class that implements the handler for the module to engage.</p> <p>The attribute's default value is: <b>it.greenvulcano.gvesb.virtual.ws.module.DefaultModuleHandler</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>it.greenvulcano.gvesb.virtual.ws.module.rampart.RampartModuleHandler</b></li> <li>• <b>it.greenvulcano.gvesb.virtual.ws.module.sandesha2.Sandesha2ModuleHandler</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>specification</b>	optional	<p>The specification to implement, mandatory and other than 'NO-SPEC' if the name attribute is not declared.</p> <p>The attribute's default value is: <b>NO-SPEC</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>NO-SPEC</b></li> <li>• <b>WS-Security</b></li> <li>• <b>WS-ReliableMessaging</b></li> </ul>

## Engine

(Description?, Renders)

The **Engine** Element is used by: *GVBIRTReportConfiguration*.

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

Attribute	Type	Description
<b>reportEngineHome</b>	optional	Home directory of the BIRT report engine, default to <code>\${{gv.app.home}}/BIRTReportEngine</code>  The attribute's value can't be null.
<b>logLevel</b>	optional	BIRT report engine log level, default to <code>FINEST</code>  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>SEVERE</b></li> <li>• <b>WARNING</b></li> <li>• <b>INFO</b></li> <li>• <b>CONFIG</b></li> <li>• <b>FINE</b></li> <li>• <b>FINER</b></li> <li>• <b>FINEST</b></li> </ul> The attribute's value can't be null.

## env-property

(Description?)

Defines the property for the environment, in the form of name-value pairs, to set before running the command.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${{propname}}` : a System property name; 3 - `sp{{propname}}` : a System property name; 4 - `@{{propname}}` : a inProperties property name; 5 - `timestamp{{pattern}}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{{date::source-pattern::dest-pattern}}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{{scope::script}}` : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - `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 11 - `sqllist{{conn::sep::statement}}` : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - `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 13 - `ognl{{script}}` : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **env-property** Element is used by: *rsh-call*, *shell-call*.

The following table show the element's attributes **env-property**:

Attribute	Tyte	Description
<b>name</b>	required	Environment property name. The attribute's value can't be null.
<b>value</b>	required	Environment property value. Can contains placeholders. The attribute's value can't be null.

## excel-call

(Description?, GVExcelReport?)

Defines the information needed to generate Excel reports from a select on the DB.

#Icon: GVExcelCall.png #Category: Utils

The **excel-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **excel-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.excel.GVExcelCallOperation</b> .
<b>name</b>	optional	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations. The attribute's value can't be null.
<b>group</b>	optional	Reports group name. The attribute's value can't be null.
<b>report</b>	optional	Report name. The attribute's value can't be null.

## excelreader-call

(Description?)

Defines the information needed to convert a Excel file, in GVBuffer.object field, in a XML document.

#Icon: GVExcelReaderCall.png #Category: Utils



The **excelreader-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **excelreader-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.excel.reader.GVExcelReaderCallOperation</b> .
<b>name</b>	optional	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>onlyData</b>	optional	If true, insert in the XML document also the cell formatting informations. Default to true.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> The attribute's value can't be null.

## ExcelReportRender

(Description?, Options?)

The **ExcelReportRender** Element is used by: *Renderers*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>report-render</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.birt.report.internal.ExcelReportRenderOptions</b> .

## exception-sorter-class-name

(#PCDATA)

An `org.jboss.resource.adapter.jdbc.ExceptionSorter` that provides a boolean `isExceptionFatal(SQLException e)` method to validate is an exception should be broadcast to all `javax.resource.spi.ConnectionEventListener` as a `connectionErrorOccurred` message.

The element value can't be null.

The **exception-sorter-class-name** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## Expression

(#PCDATA)

The **Expression** Element is used by: *Field*.

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

Attribute	Tyte	Description
<b>type</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>ognl</b></li><li>• <b>xpath</b></li><li>• <b>regex</b></li></ul>

## Extended

(Description?)

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

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>value</b>	required	The attribute's value can't be null.

## Extension

(Description?)

Extension to apply.

#CompositeLabel: !! @id-ext ! - ! @apply

The **Extension** Element is used by: *ComplexExtension*.

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

Attribute	Tyte	Description
<b>id-ext</b>	required	Extension to apply.

<b>apply</b>	required	<p>Indicates when an extension has to be applied.</p> <ul style="list-style-type: none"> <li>• <b>IN</b> The extension is applied before invoking GreenVulcano ESB</li> <li>• <b>OUT</b> The extension is applied before returning the result to the caller</li> <li>• <b>INOUT</b> The extension is applied before invoking GreenVulcano ESB and before returning the result to the caller.</li> </ul> <p>The output extensions are applied inversely to the declaration order.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>INOUT</b></li> <li>• <b>IN</b></li> <li>• <b>OUT</b></li> </ul>
--------------	----------	--

---

## Extensions

(Description?, (ComplexExtension | TestExtension | CompressExtension | DecompressExtension | DecryptExtension | EncryptExtension | DTEExtension)\*)

Definition of Extensions.

Extensions are pre / post processing of data that can be made automatically from the connector before invoking GreenVulcanoESB and / or before returning the result to the caller.

#SortChild

The **Extensions** Element is used by: *GVConnectorConfiguration*.

## External-Component

(Description?, External-Params\*)

#SortChild

The **External-Component** Element is used by: *ExternalComponents*.

The following table show the element's attributes **External-Component**:

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>externalcomponent</b>.</p>
<b>id-extcomponent</b>	required	<p>Unique identifier of the external component.</p> <p>The attribute's value can't be null.</p>

---

## ExternalComponents

(Description?, External-Component\*)

This section contains information relating to components outside of the Connector.

#SortChild

The **ExternalComponents** Element is used by: *GVConnectorConfiguration*.

## External-Params

(Description?)

Additional parameters.

The **External-Params** Element is used by: *External-Component*.

The following table show the element's attributes **External-Params**:

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>value</b>	required	

## extract-data

(Description?)

#Icon: default.png

The **extract-data** Element is used by: *extract-data-call*.

The following table show the element's attributes **extract-data**:

Attribute	Tyte	Description
<b>field</b>	required	Name of property that will contain the data extracted. The attribute's value can't be null.
<b>expression</b>	required	XPath or regular expression used to extract the data to be included in the property. The expression is interpreted according to the type of message (ASCII or XML). The attribute's value can't be null.
<b>matching-group</b>	optional	Matching group to be extracted. Valid only if the type of message is ASCII.

## extract-data-call

(Description?, extract-data\*, ServiceAlias?)

The operation `extract-data-call` allows you to extract data from the message body and write them into `GVBuffer` property.

The data can be extracted from XML messages and ASCII messages.  
To extract data from XML message using XPath expressions, and to extract data from-ASCII messages using regular expressions.

You can also define a portion of the buffer to be interpreted as XML or ASCII.

#Icon: GVextractData.png #Category: Utils

The **extract-data-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **extract-data-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.internal.ExtractMessageData</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>message-type</b>	required	Indicates if the message is ASCII or XML.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>XML</b></li> <li><b>ASCII</b></li> </ul>
<b>encoding</b>	optional	Encoding for the interpretation of ASCII messages.  The attribute's value can't be null.
<b>begin-index</b>	optional	Initial index in data buffer. If not specified index starts at byte 0.
<b>length</b>	optional	Length of data. If not specified reaches the end of the buffer data.

## Field

(Expression)

The **Field** Element is used by: *ArrayDataProvider*, *Axis2MessageContextDataProvider*, *Axis2SAAJSOAPMessageDataProvider*, *CollectionDataProvider*, *GVBufferChangeDataProvider*, *HttpMethodDataProvider*, *InputStreamDataProvider*, *JMSBytesMessageDataProvider*, *JMSMapMessageDataProvider*,

*JMSObjectMessageDataProvider*, *JMSStreamMessageDataProvider*,  
*JMSTextMessageDataProvider*, *MapDataProvider*, *ObjectDataProvider*,  
*StringDataProvider*, *XMLEventCollectionDataProvider*.

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

Attribute	Tyte	Description
<b>key</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>field</b> .
<b>direction</b>	optional	Field direction. INOUT: The expression is evaluated on the object set (usually the current GVBuffer, unless otherwise specified by the attribute 'source-selector') the value returned by the expression, is added to the context with the prefix 'key_' + @ key, and set the data provider to be returned in the output. IN : The expression is evaluated on the object set (usually the current GVBuffer, unless otherwise specified by the attribute 'source-selector') the value returned by the expression is added to the context with the prefix 'key_' + @ key. OUT : The expression is evaluated directly on the object that is returned by the DataProvider.  In all cases, two variables are added to the context: # Input: object set, usually the current GVBuffer, which will not be overwritten from attribute 'source-selector'; # Output: the object that is returned by the DataProvider.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>INOUT</b></li> <li>• <b>IN</b></li> <li>• <b>OUT</b></li> </ul>

## FieldFormatter

(Description?)

Used to force DB table field formatting.

#CompositeLabel: || @field-id | / | @field-name

The **FieldFormatter** Element is used by: *FieldFormatters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>field-formatter</b> .

<b>field-id</b>	optional	Comma-separated list of 0-based positions of fields on which apply the formatter. The attribute's value can't be null.
<b>field-name</b>	optional	Comma-separated list of names of fields on which apply the formatter. The attribute's value can't be null.
<b>number-format</b>	optional	Default to "#,##0.###" The attribute's value can't be null.
<b>decimal-separator</b>	optional	Default to "," The attribute's value can't be null.
<b>grouping-separator</b>	optional	Default to "." The attribute's value can't be null.
<b>date-format</b>	optional	Default to "yyyyMMdd HH:mm:ss" The attribute's value can't be null.
<b>field-length</b>	optional	Default to "64" The attribute's value can't be null.
<b>filler-char</b>	optional	Default to " " The attribute's value can't be null.
<b>terminator-char</b>	optional	Default to "" The attribute's value can't be null.
<b>trim</b>	optional	Default to "none" The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>both</b></li> <li>• <b>right</b></li> <li>• <b>left</b></li> </ul> The attribute's value can't be null.
<b>padding</b>	optional	Default to "none" The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>none</b></li> <li>• <b>right</b></li> <li>• <b>left</b></li> </ul> The attribute's value can't be null.

## FieldFormatters

(Description?, FieldFormatter\*)

The **FieldFormatters** Element is used by: *DBOFlatSelect*, *DBOMultiFlatSelect*, *DBOSelect*, *DBOThreadSelect*.

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

Attribute	Tyte	Description
<b>id</b>	required	Must match the @id of the statement on wich output apply the formatters.  The attribute's value can't be null.

## file-attachment

(Description?)

Defines the file to attach to the email.

The **file-attachment** Element is used by: *attachments*.

The following table show the element's attributes **file-attachment**:

Attribute	Tyte	Description
<b>path</b>	required	Defines the path of the file to attach.  The attribute's value can't be null.

## FileCommands

(FileSearchCommand | FileMoveCommand | FileDeleteCommand | FileCopyCommand | FileZipCommand | FileUnZipCommand)+

The sequence of file operations to be performed.

The operations are carried out in the order they are configured.

An error in one of the critical operations will terminate the execution of the entire sequence of operations.

The **FileCommands** Element is used by: *filemanager-call*.

## FileCopyCommand

(Description?)

Copy a file/directory.

The file name, the source and destination directory names can be static or contain placeholders that are replaced at runtime.

After the replacement of the placeholder, the value of the 'filename' may contain a regular expression, in which case, all files of the source directory, whose name is in accordance with the corresponding pattern will be copied to the destination directory.

If the destination directory already contains files with the same name, they will be overwritten.



Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{{scope::script}} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{{conn::sep::statement}} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{{script}} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **FileCopyCommand** Element is used by: *FileCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>file-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.command.GVCopy</b> .
<b>sourcePath</b>	required	Absolute path of the file/directory to copy.  The attribute's value can't be null.
<b>targetPath</b>	required	Absolute path of the destination file/directory.  The attribute's value can't be null.
<b>filePattern</b>	optional	File name to copy. Can be a regular espression. Is used only if sourcePath is a directory, and if empty the filter is ignored.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> <li><b>false</b></li> </ul> The attribute's value can't be null.

## FileDeleteCommand

(Description?)

Deleting a file/directory.

Both the file name and the directory can be static or contain placeholders that are replaced at runtime.

After the replacement of the placeholder, the value of the 'filename' may contain a regular expression, in which case, will erase all files in the specified directory whose name is consistent with the corresponding pattern.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${{propname}}` : a System property name; 3 - `sp{{propname}}` : a System property name; 4 - `@{{propname}}` : a inProperties property name; 5 - `timestamp{{pattern}}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{{date::source-pattern::dest-pattern}}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{{scope::script}}` : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - `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 11 - `sqllist{{conn::sep::statement}}` : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - `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 13 - `ognl{{script}}` : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **FileDeleteCommand** Element is used by: *FileCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>file-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.command.GVDelete</b> .
<b>targetPath</b>	required	Absolute path of the file/directory to remove.  The attribute's value can't be null.
<b>filePattern</b>	optional	File name to remove. Can be a regular espression. Is used only if targetPath is a directory, and if empty the filter is ignored.

<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> The attribute's value can't be null.
-------------------	----------	---

---

## FileFilter

(Description?)

Define a file filter configuration.

The **FileFilter** Element is used by: *LocalFileSystemMonitor*, *RemoteFileSystemMonitor*.

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

Attribute	Type	Description
<b>file-mask</b>	optional	Regular expression for file name matching. Default to all files.  The attribute's value can't be null.
<b>file-type</b>	optional	Filter for file type. Default to 'files-only'.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>files-only</b></li> <li>• <b>directories-only</b></li> <li>• <b>all</b></li> </ul>

---

## filemanager-call

(Description?, FileCommands)

This plug-in allows you to perform a sequence of file operations on the local filesystem.

The operations allowed are: - Deletion of one or more file whose name corresponds to a regular expression; - Rename a file; - Moving of one or more files, whose name corresponds to a regular expression, from a directory source to a destination directory; - Copy of one or more files, whose name corresponds to a regular expression, from source directory to a destination directory; - ZIP compress of one or more files, whose name corresponds to a regular expression, from a source directory to a ZIP file in a destination directory; - Decompression of ZIP file from a directory source to a target directory; - Check existence of one or more files whose name corresponds to a given regular expression;

#Icon: GVFileManager.png #Category: File

The **filemanager-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **filemanager-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.FileManagerCall</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## FileMonitorStatus

(Description?)

Configure a FileMonitorStatus to be used to hold a FileSystemMonitor status in a local file.

The **FileMonitorStatus** Element is used by: *LocalFileSystemMonitor*, *RemoteFileSystemMonitor*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>fs-monitor-status</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.util.file.monitor.status.FileMonitorStatus</b> .
<b>statusFilePath</b>	required	The absolute path of the monitor status file. Can contains placeholder to be replaced at runtime.  The attribute's value can't be null.
<b>errorOnInvalidFile</b>	optional	If 'true' (default) an error is raised for invalid status file.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> <li><b>false</b></li> </ul> The attribute's value can't be null.

## FileMoveCommand

(Description?)

Move/rename a file/directory.

The file name, the source and destination directory names can be static or contain placeholders that are replaced at runtime.

After the replacement of the placeholder, the value of the 'filename' may contain a regular expression, in which case, all files of the source directory, whose name is in accordance with the corresponding pattern will be moved to the destination directory.

If the destination directory already contains files with the same name, they will be overwritten.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **FileMoveCommand** Element is used by: *FileCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>file-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.command.GVMove</b> .
<b>sourcePath</b>	required	Absolute path of the file/directory to move.  The attribute's value can't be null.
<b>targetPath</b>	required	Absolute path of the destination file/directory.  The attribute's value can't be null.
<b>filePattern</b>	optional	File name to move. Can be a regular espression.

		Is used only if sourcePath is a directory, and if empty the filter is ignored.
<b>isCritical</b>	optional	<p>If true an internal error interrupt the command sequence. Default true.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>

## filereader-call

(Description?, xml-processor?)

This plug-in reads the local filesystem file's content, and saves it in output GVBuffer 'object' field.

Complete file path is the concatenation of 'srcPath' attribute, with the 'fileName' attribute.

Both of them can contain placeholders, that are expanded at plugin call time.

Attributes 'srcPath' and 'fileName' are subject to these constraints: - attribute 'srcPath' is overridden by 'GVFR\_DIRECTORY' property, if present in current GVBuffer. If property is not defined in GVBuffer, the 'srcPath' attribute in the configuration is used.

In both cases, the value of this attribute can be a placeholder, resolved at plugin call time, and the result of the expansion, must result in an absolute pathname, otherwise an exception is thrown.

An exception is also thrown if neither the property nor the attribute in configuration are set.

- attribute 'fileName' is overridden by 'GVFR\_FILE\_NAME' property, if present in current GVBuffer. If property is not defined in GVBuffer, the 'fileName' attribute in the configuration is used.

In both cases, the value of this attribute can be a placeholder, resolved at plugin call time, and the result of the expansion, combined with the previous attribute, must result in an existent resource in the local filesystem, otherwise an exception is thrown. An exception is also thrown if neither the property nor the attribute in configuration are set.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{ {script} } : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVFileReader.png #Category: File

The **filereader-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **filereader-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.reader.FileReader</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>srcPath</b>	required	This value can be static or dynamic, containing placeholders that could be replaced at plugin call time. This is a default value, and is used if the property 'GVFR_DIRECTORY' is not defined in the current GVBuffer.  The attribute's value can't be null.
<b>fileName</b>	required	This value can be static or dynamic, containing placeholders that could be replaced at plugin call time. This is a default value, and is used if the property 'GVFR_FILE_NAME' is not defined in the current GVBuffer.  The attribute's value can't be null.

## FileSearchCommand

(Description?)

Check if one or more files, whose name conforms to a given regular expression, exists within the specified directory.

On completion of and in the absence of errors are set the following properties of output GVBuffer:

- 1) GVFM\_FOUND\_FILES\_NUM Number of files found ( $\geq 0$ )
- 2) GVFM\_FOUND\_FILES\_LIST List of names of found files, separated by ';'.  
Set only if the value of field 'GVFM\_FOUND\_FILES\_NUM' is greater than 0.

Both the pattern of the file and that the directory can be static or contain placeholders that are replaced at runtime.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${propname}` : a System property name; 3 - `sp{propname}` : a System property name; 4 - `@{propname}` : a inProperties property name; 5 - `timestamp{pattern}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{date::source-pattern::dest-pattern}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{scope::script}` : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - `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 11 - `sqllist{conn::sep::statement}` : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - `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 13 - `ognl{script}` : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **FileSearchCommand** Element is used by: *FileCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>file-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.command.GVSearch</b> .
<b>sourcePath</b>	required	Absolute path of the directory to search in.  The attribute's value can't be null.
<b>filePattern</b>	required	File name to search for. Can be a regular espression.  The attribute's value can't be null.
<b>returnFullPath</b>	optional	If true the found files are inserted in list with full path. Default false.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> <li><b>false</b></li> </ul> The attribute's value can't be null.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence.



Default true.

The attribute's admitted values are:

- **true**
- **false**

The attribute's value can't be null.

---

## FileUnZipCommand

(Description?)

Unpacking the contents of a Zip file in a directory source to a target directory.

The file name, the source and destination directory names can be static or contain placeholders that are replaced at runtime.

The **FileUnZipCommand** Element is used by: *FileCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>file-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.command.GVUnZip</b> .
<b>sourcePath</b>	required	Absolute path of the source directory.  The attribute's value can't be null.
<b>zipFileName</b>	required	Name of the zip file.  The attribute's value can't be null.
<b>targetPath</b>	required	Absolute path of the destination directory.  The attribute's value can't be null.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.

---

## filewriter-call

(Description?)

This plug-in writes the content in the GVBuffer 'object' field into the local filesystem file, overwriting the target file if already present.

Complete file path is the concatenation of 'targetPath' attribute, with the 'fileName' attribute.

Both of them can contain placeholders, that are expanded at plugin call time.

Attributes 'targetPath' and 'fileName' are subject to these constraints: - attribute 'targetPath' is overridden by 'GVFW\_DIRECTORY' property, if present in current GVBuffer. If property is not defined in GVBuffer, the 'targetPath' attribute in the configuration is used.

In both cases, the value of this attribute can be a placeholder, resolved at plugin call time, and the result of the expansion, must result in an absolute pathname, otherwise an exception is thrown. An exception is also thrown if neither the property nor the attribute in configuration are set.

- attribute 'fileName' is overridden by 'GVFW\_FILE\_NAME' property, if present in current GVBuffer. If property is not defined in GVBuffer, the 'fileName' attribute in the configuration is used.

In both cases, the value of this attribute can be a placeholder, resolved at plugin call time, and the result of the expansion, combined with the previous attribute, must result in an existent resource in the local filesystem, otherwise an exception is thrown. An exception is also thrown if neither the property nor the attribute in configuration are set.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqlist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVFileWriter.png #Category: File

The **filewriter-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **filewriter-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.

		This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.writer.FileWriter</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>targetPath</b>	required	This value can be static or dynamic, containing placeholders that could be replaced at plugin call time. This is a default value, and is used if the property 'GVFW_DIRECTORY' is not defined in the current GVBuffer.  The attribute's value can't be null.
<b>fileName</b>	required	This value can be static or dynamic, containing placeholders that could be replaced at plugin call time. This is a default value, and is used if the property 'GVFW_FILE_NAME' is not defined in the current GVBuffer.  The attribute's value can't be null.

## FileZipCommand

(Description?)

Compression of one or more files/directories in a directory source to a ZIP file into a target directory.

The file name, the source and destination directory names can be static or contain placeholders that are replaced at runtime.

If the destination directory already has a ZIP file with the same name, it will be overwritten.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${{propname}}` : a System property name; 3 - `sp{{propname}}` : a System property name; 4 - `@{{propname}}` : a inProperties property name; 5 - `timestamp{{pattern}}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{{date::source-pattern::dest-pattern}}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{{scope::script}}` : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - `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 11 - `sqllist{{conn::sep::statement}}` : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - `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 13 - `ognl{{script}}` : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **FileZipCommand** Element is used by: *FileCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>file-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.command.GVZip</b> .
<b>sourcePath</b>	required	Absolute path of the source directory.  The attribute's value can't be null.
<b>filePattern</b>	optional	File name to zip. Can be a regular espression. Is used only if sourcePath is a directory, and if empty the filter is ignored.
<b>targetPath</b>	required	Absolute path of the destination directory.  The attribute's value can't be null.
<b>zipFileName</b>	required	Name of the zip file.  The attribute's value can't be null.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.

## FixedSource

(ListItem\*)

The **FixedSource** Element is used by: *Parameter*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>source</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.

This attribute <i>must</i> assume the value <b>it.greenvulcano.birt.report.internal.field.FixedSource</b> .		
<b>sort</b>	optional	<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>

## Font

(Description?)

Defines the configuration of a font in a report.

The **Font** Element is used by: *Format*.

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

Attribute	Type	Description
<b>type</b>	optional	<p>Type Default "ARIAL".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>ARIAL</b></li> <li>• <b>COURIER</b></li> <li>• <b>TAHOMA</b></li> <li>• <b>TIMES</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>size</b>	optional	<p>Dimension. Default "10".</p> <p>The attribute's value can't be null.</p>
<b>isBold</b>	optional	<p>Bold style. Default "0".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>isItalic</b>	optional	<p>Italic Style. Default "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>isUnderlined</b>	optional	<p>Underlined style. Default "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

The attribute's value can't be null.

## Format

(Description?, Font)

Defines the configuration of the cell in a Report.

The **Format** Element is used by: *DateColumn*, *NumberColumn*, *TableHeader*, *TextColumn*, *Title*.

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

Attribute	Tyte	Description
<b>minWidth</b>	optional	Minimum width of the cell. Default 1.  The attribute's value can't be null.
<b>maxWidth</b>	optional	Maximum width of the cell. Default 30.  The attribute's value can't be null.
<b>alignment</b>	optional	Alignment of cell text. Default "LEFT".  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>LEFT</b></li><li>• <b>CENTRE</b></li><li>• <b>RIGHT</b></li></ul> The attribute's value can't be null.
<b>hasBorder</b>	optional	Border of the cell Default "0".  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>scaleFactor</b>	optional	Cell zoom. Default "1".  The attribute's value can't be null.
<b>backgroundColour</b>	optional	Background color of the cell. Default "white".  The attribute's value can't be null.
<b>pattern</b>	optional	Format of the cell Number and Date. Default: Number: @ Date : dd/MM/yyyy hh:mm:ss  The attribute's value can't be null.

## fsmonitor-call

(Description?, (LocalFileSystemMonitor | RemoteFileSystemMonitor))

This plug-in, when invoked, performs a scan of the directory specified in configuration, and returns a report in XML format (following the schema AnalysisReport.xsd) that can be configured to display any combination of the information listed below:

- files CREATED in the directory since the last scan performed;
- files MODIFIED in the directory since the last scan performed;
- files DELETED from the directory since the last scan performed;
- files EXISTENT in the directory;

You can restrict the scan to only files whose names conform to a regular expression defined in configuration.

If the invocation of the plug ends with the generation of a report, this report is included in the object field of output GVBuffer.

In the output GVBuffer are also set the following properties:

'GVFSM\_REPORT\_CREATED' set to 'true' if a report XML and was created.

'GVFSM\_EXISTING\_FILES' set if the filter 'existing' was configured and in target directory exist files whose name conforms to the pattern specified in configuration.

Contains the number of such files.

'GVFSM\_CREATED\_FILES' set if the filter 'created' was configured and the in target directory, after the last scan performed, were created file whose name is consistent with the pattern specified in the configuration.

Contains the number of such files.

'GVFSM\_MODIFIED\_FILES' set if the filter 'modified' was configured and the in target directory, after the last scan performed, were modified file whose name is consistent with the pattern specified in the configuration.

Contains the number of such files.

'GVFSM\_DELETED\_FILES' set if the filter 'deleted' was configured and the in target directory, after the last scan performed, were deleted file whose name is consistent with the pattern specified in the configuration.

Contains the number of such files.

#Icon: GVFsMonitor2.png #Category: File

The **fsmonitor-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **fsmonitor-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.reader.AnalyzeDirCall</b> .

<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
-------------	----------	--

---

## FTPManager

(Description?)

If the target directory is on a remote file system accessible via FTP, this element encapsulates the parameters required to connect.

The parameters hostname, username, password can contains the following placeholders:  
 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope' 10 - 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, if not defined is used the current connection 11 - sqlist{[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, if not defined is used the current connection 12 - 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 13 - ognl{script} : evaluate a OGNL scripts

The **FTPManager** Element is used by: *RemoteFileSystemMonitor*, *remotemanager-call*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>remote-manager</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.util.remotefs.ftp.FTPManager</b> .
<b>hostType</b>	required	The host type. Information used by the FTP client for the proper parsing of the responses of the server.  The attribute's admitted values are:



- **UNIX**
- **NT**
- **OS2**
- **OS400**
- **VMS**
- **MVS**

The attribute's value can't be null.

<b>hostname</b>	required	Server host name. The attribute's value can't be null.
<b>port</b>	optional	Server FTP port. The attribute's default value is: <b>21</b> . The attribute's value can't be null.
<b>username</b>	required	User name. The attribute's value can't be null.
<b>password</b>	required	User password. #Encrypted The attribute's value can't be null.
<b>connectTimeout</b>	optional	Connect timeout (in milliseconds). Default: infinite. The attribute's value can't be null.
<b>dataTimeout</b>	optional	Data transfer timeout (in milliseconds) Default: infinite. The attribute's value can't be null.
<b>autoConnect</b>	optional	If true the instance use autoconnect/disconnect at each method invocation. Default: false. The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> The attribute's value can't be null.

## generic-call

(Description?, call-parameter\*, ServiceAlias?)

Allows a generic invocation.

GreenVulcanoESB use special plug-ins to make invocations to external systems.

Plug-ins are made from Java classes that implement the interface: `it.greenvulcano.gvesb.virtual.CallOperation`.

At the plug-in you can pass a set of parameters as pairs name-value (sub-items 'call-parameter').

#Icon: GVGenericCall.png

The **generic-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **generic-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>class</b>	required	Class that makes the plug-in. This class must implement the interface: <code>it.greenvulcano.gvesb.virtual.CallOperation</code> .  The attribute's value can't be null.

## GenericRetriever

(Description?, DataRetriever\*)

Allows you to define helper running SQL select and return the first field of the first selected record as string.

#SortChild

The **GenericRetriever** Element is used by: *RetrieverConfig*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>retriever</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b><code>it.greenvulcano.gvesb.datahandling.utils.GenericRetriever</code></b> .

## GenericTransaction

(Description?, NameValueParam\*)

The **GenericTransaction** Element is used by: *Transactions*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>transaction</b> .
<b>class</b>	required	The Java class that implements the UserTransaction.  The attribute's value can't be null.
<b>id-transaction</b>	required	The attribute's value can't be null.

## get-attribute

EMPTY

Gets a MBean's attribute value.

The **get-attribute** Element is used by: *jmx-call*.

The following table show the element's attributes **get-attribute**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>method</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jmx.methods.JMXGetOperation</b> .
<b>attribute</b>	required	Attribute of the MBean to get the value.  The attribute's value can't be null.

## GreenVulcanoCoreChannel

(Description?)

Communication Channel based on the GreenVulcano ESB Core.

The **GreenVulcanoCoreChannel** Element is used by: *Channels*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>channel</b> .
<b>class</b>	fixed	

		This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.channels.gycore.GreenVulcanoCoreChan</b>
<b>id-channel</b>	required	Channel unique identifier.  The attribute's value can't be null.
<b>connection-policy</b>	required	Defines the connection policy of the channel: <ul style="list-style-type: none"> <li>• <b>Lazy</b> The channel is created and connected the first time that it needs.</li> <li>• <b>Startup</b> The channel is created and connected at startup of the connector.</li> <li>• <b>Everytime</b> The channel is connected every time you use it, and disconnected immediately after use.</li> </ul> The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>lazy</b></li> <li>• <b>startup</b></li> <li>• <b>everytime</b></li> </ul>

## GreenVulcanoWebService

(Description?)

The key that identifies the service is given either by the field id-key, or by the triple system / service / operation - If this key is not satisfied - we will use the default inputObjectDataProviders and outputObjectDataProviders - If the defaults are not defined exception is thrown.

The **GreenVulcanoWebService** Element is used by: *GreenVulcanoWebServices*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>greenvulcanoweb-service</b> .
<b>id-key</b>	optional	The attribute's value can't be null.
<b>id-service</b>	optional	Service  The attribute's value can't be null.
<b>id-system</b>	optional	System  The attribute's value can't be null.
<b>id-primitive</b>	required	Primitive to invoke  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>Request</b></li> <li>• <b>RequestReply</b></li> <li>• <b>GetReply</b></li> </ul>

- **GetRequest**
- **SendReply**

The attribute's value can't be null.

## GreenVulcanoWebServices

(Description?, GreenVulcanoWebService\*)

GreenVulcano Web Services definition

#SortChild

The **GreenVulcanoWebServices** Element is used by: *GVWebServices*.

## groupJbpm

(Description?)

The **groupJbpm** Element is used by: *GroupsJbpm*.

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

Attribute	Tyte	Description
<b>group</b>	required	

## GroupsJbpm

(Description?, groupJbpm\*)

The **GroupsJbpm** Element is used by: *GVJbpmListener*.

## GVAdapterOpenSpCoop

(Description?, openspcoop:openspcoop)

The **GVAdapterOpenSpCoop** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	This attribute <i>must</i> assume the value <b>GVADAPTER_OPENSPCOOP</b> .
<b>type_configuration</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>file</b></li> </ul>

- **database**

<b>conn</b>	optional
<b>userId</b>	optional
<b>password</b>	optional

## GVAdapters

(GVConnectorConfiguration?, GVSQLExceptionMapping?, GVWebServices?, GVMailServices?, GVDataSources?, GVHTTPAdapter?, GVJdbc?, GVJDBCConnectionBuilder?, GVDataProviderManager?, GVDataHandlerConfiguration?, GVExcelWorkbookConfiguration?, GVExcelCreatorConfiguration?, GVHL7ListenerManager?, GVBIRTReportConfiguration?, GVJBPMConfiguration?, GVJbpmTaskListenerManager?, GVAdapterOpenSpCoop?, RSHServiceClientConfiguration?, GVRulesConfigManager?)

GreenVulcanoESB adapters configuration file.

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

Attribute	Type	Description
<b>version</b>	fixed	Current GreenVulcano ESB version.  This attribute <i>must</i> assume the value <b>1.0</b> .

## GVBIRTReportConfiguration

(Description?, Engine, ReportGroups)

The **GVBIRTReportConfiguration** Element is used by: *GVAdapters*.

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

Attribute	Type	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'.  This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'BIRT_REPO'.  This attribute <i>must</i> assume the value <b>BIRT_REPO</b> .

## gvBuffer

(Description?)

Used to attach at the email the GVBuffer contents.

The **gvBuffer** Element is used by: *attachments*.

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

Attribute	Tyte	Description
<b>name</b>	required	Defines a name of the attachment containing the GVBuffer contents.  The attribute's value can't be null.

## GVBufferChangeDataProvider

(Field+)

This DataProvider works on a GVBuffer context object created by the caller of this DataProvider.

The GVBuffer instance is to be enriched processing the #input generic object.

The **GVBufferChangeDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.GVBufferChangeDataProvider</b> .

## GVBufferCondition

(Description?, RetCodeField?, (Property | PropertyCompare)\*)

This element allows you to specify the conditions that the fields buffer GVBuffer must meet.

A GVBufferCondition lets you specify multiple conditions on individual fields.

The conditions are evaluated in AND.

The **GVBufferCondition** Element is used by: *routed-call, routed-dequeue, routed-enqueue*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>condition</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.

		This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.internal.condition.GVBufferCondition</b> .
<b>condition</b>	required	<p>This attribute defines the name of the condition. Unique inside the 'Conditions' element.</p> <p>The attribute's value can't be null.</p>
<b>throw-exception</b>	optional	<p>If true an error during execution cause an Exception to be thrown. If false an error during execution cause the condition to return "false". Default to "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>system</b>	optional	<p>The attribute verify that the system field contains the configured value.</p> <p>The attribute's value can't be null.</p>
<b>service</b>	optional	<p>The attribute verify that the service field contains the configured value.</p> <p>The attribute's value can't be null.</p>

## GVBufferFieldOutput

(Description?, (CallSPSimpleBaseFormatter))

Defines the GVBuffer field be mapped with the output parameters from the store procedure.

The **GVBufferFieldOutput** Element is used by: *GVBufferMapping*.

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

Attribute	Type	Description
<b>name</b>	optional	<p>This attribute defines the name of the field to map.</p> <p>The attribute's value can't be null.</p>
<b>setterMethod</b>	required	<p>This attribute defines the method that populates the GVBuffer field with the output parameter from store procedure.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>setSystem</b></li> <li>• <b>setService</b></li> <li>• <b>setRetCode</b></li> <li>• <b>setObject</b></li> <li>• <b>setProperty</b></li> </ul>
<b>property</b>	optional	<p>This attribute defines the value of the GVBuffer property if the method is setProperty().</p>



		The attribute's value can't be null.
<b>type</b>	required	<p>This attribute defines the Java type of the GVBuffer field.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>string</b></li> <li>• <b>int</b></li> <li>• <b>long</b></li> <li>• <b>byte_array</b></li> </ul>

## GVBufferMapping

(Description?, GVBufferFieldOutput+)

Specify how to map GVBuffer fields with output parameters by store procedure.

The **GVBufferMapping** Element is used by: *CallSPFormatter*.

## GVBufferParam

(Description?)

This element represents the field of GVBuffer which is inserted in the statement.

The **GVBufferParam** Element is used by: *GVBufferParamResolver*.

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

Attribute	Tyte	Description
<b>type</b>	required	<p>This attribute defines the type of the parameter.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>string</b></li> <li>• <b>int</b></li> <li>• <b>long</b></li> <li>• <b>float</b></li> <li>• <b>date</b></li> <li>• <b>binary</b></li> <li>• <b>blob</b></li> <li>• <b>clob</b></li> </ul>
<b>position</b>	required	<p>This attribute defines the position parameter has in the statement.</p> <p>The attribute's value can't be null.</p>
<b>format</b>	optional	<p>This attribute lets you configure the date format in the event that has been defined type = 'date'.</p> <p>The attribute's value can't be null.</p>
<b>GVBufferMethod</b>	required	<p>The attribute defines the GVBuffer method that solves the parameter.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>getSystem</b></li> <li>• <b>getService</b></li> </ul>

- **getId**
- **getRetCode**
- **getObject**
- **getProperty**

<b>propertyName</b>	optional	This attribute defines the name of the property if the method is getProperty().  The attribute's value can't be null.
---------------------	----------	---

## GVBufferParamResolver

(Description?, GVBufferParam+)

This element defines the Resolver based GVBuffer fields.

The **GVBufferParamResolver** Element is used by: *ParamResolver*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>resolver</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.resolver.GVBufferResolver</b> .

## GVConnection

EMPTY

This element contains configuration informations related to connection to GreenVulcano ESB via GVConnector client class.

The **GVConnection** Element is used by: *Configuration*.

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

Attribute	Tytle	Description
<b>ConfigFilename</b>	required	GVC configuration filename.  The attribute's value can't be null.

## GVConnectorConfiguration

(Description?, ConnectorServices?, Extensions?, Channels, Transactions, ExternalComponents?)

GreenVulcanoESB client API configuration.

Configuration is made up of three sections:

- **ConnectorServices**  
Contains information to identify the communication channel, according to the couple service / system or only to the service.  
Moreover, for each primitive (request, request / reply, etc.), this section declares also the extensions to invoke.  
For services not covered by the parameters defined in this section is used the default channel, without applying any extension.
- **Extensions**  
Extensions are pre / post processing data that can be made by the connector immediately before invoking GreenVulcano ESB and / or immediately before returning the result to the caller.
- **Channels**  
This section defines the connection parameters to GreenVulcano ESB.  
Typically there is a single channel of communication to all GreenVulcano ESB services required by the client.  
However, for special needs, you can define several channels for different services.

This section defines the classes to use from the connector side to handle the transactions.

The **GVConnectorConfiguration** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	'module' element type.  This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module identifier always 'GV_CONNECTOR_J'.  This attribute <i>must</i> assume the value <b>GV_CONNECTOR_J</b> .

## GVCoreApplication

(Description?, HL7Activations)

#SortChild

The **GVCoreApplication** Element is used by: *HL7Applications*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>hl7application</b> .
<b>class</b>	fixed	Unmodifiable.

Used by GreenVulcanoESB factory framework.

This attribute *must* assume the value **it.greenvulcano.gvesb.gvhl7.listener.handler.GVCoreApplication**.

<b>name</b>	required	The attribute's value can't be null.
<b>gv-service</b>	required	ID service with which to perform the invocation of GreenVulcano ESB.
<b>gv-system</b>	optional	ID system with which to perform the invocation of GreenVulcano ESB.
<b>gv-operation</b>	required	GreenVulcano ESB operation to invoke.

## GVDataHandlerConfiguration

(Description?, RetrieverConfig?, DBOBuilder\*)

#SortChild

The **GVDataHandlerConfiguration** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'DH_ENGINE'. This attribute <i>must</i> assume the value <b>DH_ENGINE</b> .

## GVDataProviderManager

(Description?, DataProviders)

Data Providers configuration.

The **GVDataProviderManager** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module Id always set to 'GVDP'. This attribute <i>must</i> assume the value <b>GVDP</b> .

## GVDataSources

(mbean | local-tx-datasource | xa-datasource | no-tx-datasource)\*

The datasources element is the root of the jdbc datasource configuration.

#SortChild

The **GVDataSources** Element is used by: *GVAdapters*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'DATASOURCES'. This attribute <i>must</i> assume the value <b>DATASOURCES</b> .

## GVExcelCreatorConfiguration

(Description?, GVExcelReport\*)

#SortChild

The **GVExcelCreatorConfiguration** Element is used by: *GVAdapters*.

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

Attribute	Tytle	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'EXCEL_REPO'. This attribute <i>must</i> assume the value <b>EXCEL_REPO</b> .

## GVExcelReport

(Description?, Sheet+)

Defines the configuration elements of an Excel report.

#SortChild

The **GVExcelReport** Element is used by: *excel-call*, *GVExcelCreatorConfiguration*.

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

Attribute	Tytle	Description
<b>name</b>	required	Report name

		The attribute's value can't be null.
<b>group</b>	optional	Report group. Default Generic.
		The attribute's value can't be null.
<b>jdbc-connection</b>	required	JNDI name of a DataSource.
		The attribute's value can't be null.
<b>format</b>	optional	Name of the style of the report. Default 'default'.

## GVExcelWorkbook

(Description?, SheetConfig)

Defines the configuration elements of a Report.

The **GVExcelWorkbook** Element is used by: *GVExcelWorkbookConfiguration*.

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

Attribute	Tyte	Description
<b>configName</b>	required	Format name. There must be one with the value 'default'.
		The attribute's value can't be null.
<b>maxNumberOfSheets</b>	optional	Max number of sheets in the report. Default 30.
		The attribute's value can't be null.
<b>sheetDefaultName</b>	optional	Default name for sheets. Default Sheet.
		The attribute's value can't be null.

## GVExcelWorkbookConfiguration

(Description?, GVExcelWorkbook+)

#SortChild

The **GVExcelWorkbookConfiguration** Element is used by: *GVAapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'.
		This attribute <i>must</i> assume the value <b>module</b> .

<b>name</b>	fixed	Module Id always set to 'EXCEL_FORMAT'. This attribute <i>must</i> assume the value <b>EXCEL_WORK</b> .
-------------	-------	--

## GVHL7ListenerManager

(Description?, HL7Listeners)

The **GVHL7ListenerManager** Element is used by: *GVAdapters*.

The following table show the element's attributes **GVHL7ListenerManager**:

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'EXCEL_REPO'. This attribute <i>must</i> assume the value <b>HL7_LISTENERS</b> .

## GVHTTPAdapter

(Configuration)

The **GVHTTPAdapter** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module Id always set to 'HTTP_INBOUND'. This attribute <i>must</i> assume the value <b>HTTP_ADAPTER</b> .

## GVJBPMConfiguration

(Description?)

The **GVJBPMConfiguration** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .

<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'JBPM_REPO'. This attribute <i>must</i> assume the value <b>JBPM_REPO</b> .
<b>repository-bpmn</b>	optional	Repository BPMN schemas.
<b>hostHumanTaskHandler</b>	optional	Host listner HumanTask to connect to. The attribute's value can't be null.
<b>portHumanTaskHandler</b>	optional	Port where the service is exposed. The attribute's value can't be null.

## GVJbpmListener

(Description?, UsersJbpm, GroupsJbpm)

The **GVJbpmListener** Element is used by: *GVJbpmListeners*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>gvjbpmlistener</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.jbpmhumantask.listener.JbpmListnerTask</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>port</b>	required	The attribute's value can't be null.

## GVJbpmListeners

(GVJbpmListener\*)

The **GVJbpmListeners** Element is used by: *GVJbpmTaskListenerManager*.

## GVJbpmTaskListenerManager

(Description?, GVJbpmListeners)

The **GVJbpmTaskListenerManager** Element is used by: *GVAdapters*.



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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	This attribute <i>must</i> assume the value <b>GVJBPMTASK_LISTENERS</b> .

## GVJdbc

(Description?, Drivers, Connections)

This element defines the parameters necessary to build a JDBC connection.

The **GVJdbc** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'JDBC'. This attribute <i>must</i> assume the value <b>JDBC</b> .

## GVJDBCConnectionBuilder

(Description?, (DriverConnectionBuilder | DriverPoolConnectionBuilder | DataSourceConnectionBuilder)\*)

This element defines the helpers necessary to create JDBC connection.

Used by DataHandler, Excel Report, sql\*{ {...}} Metadata.

#SortChild

The **GVJDBCConnectionBuilder** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'JDBC'. This attribute <i>must</i> assume the value <b>GVJDBC</b> .

## GVKnowledgeBaseConfig

(Description?, RuleResource+)

Defines the resources needed to configure the KnowledgeBase.

The **GVKnowledgeBaseConfig** Element is used by: *GVRulesConfigManager*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>knwl-config</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvrules.drools.config.impl.GVKnowledgeBaseConfig</b> .
<b>name</b>	required	Rule set identifier.  The attribute's value can't be null.

## GVMailServices

(mail-service\*, Description?)

Specifies the Email services configuration.

#SortChild

The **GVMailServices** Element is used by: *GVAdapters*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Element type 'module'.  This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'MAIL_SERVICES'.  This attribute <i>must</i> assume the value <b>MAIL_SERVICES</b> .

## GVRulesConfigManager

(Description?, GVKnowledgeBaseConfig\*)

Drools Rules set definition.

#SortChild

The **GVRulesConfigManager** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	This attribute <i>must</i> assume the value <b>RULES_CFG</b> .

## GVSQLExceptionMapping

(Description?, DefaultMapping\*, CustomMapping\*)

SQL Error Mapping

#SortChild

The **GVSQLExceptionMapping** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'SQL_ERROR_MAPPING'. This attribute <i>must</i> assume the value <b>SQL_ERROR_MAPPING</b> .

## GVWebServices

(Description?, GreenVulcanoWebServices, BusinessWebServices, UDDI?, AxisExtra?)

The **GVWebServices** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	Element type 'module'. This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	Module id always set to 'WEB_SERVICES'. This attribute <i>must</i> assume the value <b>WEB_SERVICES</b> .

## HL7Activation

(Description?)

#CompositeLabel: ! messageType: ! @messageType !, triggerEvent: ! @triggerEvent

The **HL7Activation** Element is used by: *HL7Activations*.

The following table show the element's attributes **HL7Activation**:

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

## HL7Activations

(HL7Activation+)

The **HL7Activations** Element is used by: *GVCoreApplication*.

## HL7Applications

(GVCoreApplication+)

#SortChild

The **HL7Applications** Element is used by: *HL7Listener*.

## hl7-call

(Description?)

HL7 VCL plugin to send HL7 message on remote HL7 servers.

#Icon: GVHl7Call.png #Category: Custom

The **hl7-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **hl7-call**:

Attribute	Tyte	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
class	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.hl7.HL7CallOperation</b> .
name	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.

		The attribute's value can't be null.
<b>host</b>	required	Host to connect to.
		The attribute's value can't be null.
<b>port</b>	required	Port where the service is exposed.
		The attribute's value can't be null.
<b>timeout</b>	optional	Timeout in seconds for a given interaction. Default to 10 seconds.

## HL7Listener

(Description?, HL7Applications)

The **HL7Listener** Element is used by: *HL7Listeners*.

The following table show the element's attributes **HL7Listener**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>hl7listener</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvhl7.listener.HL7Listener</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>port</b>	required	The attribute's value can't be null.

## HL7Listeners

(HL7Listener\*)

#SortChild

The **HL7Listeners** Element is used by: *GVHL7ListenerManager*.

## HTMLReportRender

(Description?, Options?)

The **HTMLReportRender** Element is used by: *Renders*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>report-render</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.birt.report.internal.HTMLReportRenderOptions</b> .

## http-call

(Description?, endpoint, method)

HTTP VCL plugin to call HTTP methods on remote servers.

#Icon: GVHttpCall.png #Category: Web/Mail

The **http-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **http-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.http.HTTPCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## HttpMethodDataProvider

(Field+)

This DataProvider works on 'org.apache.commons.httpclient.HttpMethod' implementation, created by the caller of this DataProvider.

Refers to 'org.apache.commons.httpclient.HttpMethod' HttpClient documentation to set headers, or to send MultiPart messages.

The **HttpMethodDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvhttp.impl.HttpMethodDataProvider</b> .

## HTTPTransactions

(Transaction\*)

This element contains the transaction definitions for the managed services.

The **HTTPTransactions** Element is used by: *Configuration*.

## IdentityInfo

EMPTY

Retrieve information for public and private keys to connect with SSH, with authentication method 'publicKey'.

The **IdentityInfo** Element is used by: *SFTPManager*.

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

Attribute	Tyte	Description
<b>privateKey</b>	required	Path of file containing the private key.  The attribute's value can't be null.
<b>passphrase</b>	required	Passphrase to access the private key.  #Encrypted  The attribute's value can't be null.
<b>publicKey</b>	required	Path of file containing the public key.  The attribute's value can't be null.

## idle-timeout-minutes

(#PCDATA)

The idle-timeout-minutes elements indicates the maximum time in minutes a connection may be idle before being closed.

The actual maximum time depends also on the IdleRemover scan time, which is 1/2 the smallest idle-timeout-minutes of any pool.

The element value can't be null.

The **idle-timeout-minutes** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## imap

(Description?)

IMAP configuration parameters.

The **imap** Element is used by: *mail-service*.

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

Attribute	Type	Description
<b>host</b>	optional	The IMAP server to connect to.  The attribute's value can't be null.
<b>port</b>	optional	The IMAP server port to connect to, if the connect() method doesn't explicitly specify one. Default is 143.  The attribute's value can't be null.
<b>partialfetch</b>	optional	Controls whether the IMAP partial-fetch capability should be used. Default is "true".  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> The attribute's value can't be null.
<b>fetchsize</b>	optional	Partial fetch size in bytes. Default is 16Kb.  The attribute's value can't be null.
<b>connectiontimeout</b>	optional	Socket connection timeout value in milliseconds. The Default is an infinite timeout.  The attribute's value can't be null.
<b>timeout</b>	optional	Socket I/O timeout value in milliseconds. The Default is an infinite timeout.  The attribute's value can't be null.
<b>statuscachetimeout</b>	optional	Timeout value in milliseconds for cache of STATUS command response. Default is 1000 (1 second). Zero disables cache.  The attribute's value can't be null.



<b>appendbuffersize</b>	optional	<p>Maximum size of a message to buffer in memory when appending to an IMAP folder.</p> <p>If not set, or set to "-1", there is no maximum and all messages are buffered.</p> <p>If set to "0", no message is buffered.</p> <p>If set to (for example) "8192", messages of 8Kb or less are buffered, larger messages are not buffered.</p> <p>Buffering saves cpu time at the expense of short term memory usage.</p> <p>If you commonly append very large messages to IMAP mailboxes you might want to set this to a moderate value (1Mb or less).</p> <p>The attribute's value can't be null.</p>
<b>connectionpoolsize</b>	optional	<p>Maximum number of available connections in the connection pool.</p> <p>The Default is "1".</p> <p>The attribute's value can't be null.</p>
<b>connectionpooltimeout</b>	optional	<p>Timeout value in milliseconds for connection pool connections.</p> <p>Default is set to "45000" (45 seconds).</p> <p>The attribute's value can't be null.</p>
<b>separatstoreconnection</b>	optional	<p>Flag to indicate whether to use a dedicated store connection for store commands.</p> <p>Default is "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>allowreadonlyselect</b>	optional	<p>If "false", when opening a folder read / write will get an error if the SELECT command succeeds but indicates that the folder is READ-ONLY.</p> <p>This sometimes indicates that the folder contents can NOT be changed, but the flags are per-user and can be changed, such as might be the case for public shared folders.</p> <p>If set to "true", such open attempts will succeed, allowing the flags to be changed.</p> <p>The getMode method on the Folder object will return Folder.READ_ONLY in this case even though the open method specified Folder.READ_WRITE.</p> <p>The Default is "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>auth-login-disable</b>	optional	<p>If "true", prevents the use of the non-standard AUTHENTICATE LOGIN command, instead using the plain LOGIN command.</p> <p>The Default is "false".</p>

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>auth-plain-disable</b>	optional	<p>If "true", prevents use of the AUTHENTICATE PLAIN command. Default is "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>starttls-enable</b>	optional	<p>If "true", enables the use of the STARTTLS command (if supported by the server) to switch the connection to a TLS-protected connection before issuing any login commands. Note that an appropriate trust store must be configured so that the client will trust the server's certificate. This feature only works on J2SE 1.4 and newer systems. Default is "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>localaddress</b>	optional	<p>Local address (host name) to bind to when creating the IMAP socket. Defaults to the address picked by the Socket class. Should not normally need to be set, but useful with multi-homed hosts where it's important to pick a particular local address to bind to.</p> <p>The attribute's value can't be null.</p>
<b>localport</b>	optional	<p>Local port number to bind to when creating the IMAP socket. Defaults to the port number picked by the Socket class.</p> <p>The attribute's value can't be null.</p>
<b>sasl-enable</b>	optional	<p>If set to "true", attempt to use the javax.security.sasl package to choose an authentication mechanism for login. Defaults to "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>sasl-mechanisms</b>	optional	<p>A space or comma separated list of SASL mechanism names to try to use.</p> <p>The attribute's value can't be null.</p>
<b>sasl-authorizationid</b>	optional	<p>The authorization ID to use in the SASL authentication. If not set, the authentication ID (user name) is used.</p>

		The attribute's value can't be null.
<b>socketFactory-class</b>	optional	<p>If set, specifies the name of a class that implements the javax.net.SocketFactory interface. This class will be used to create IMAP sockets.</p> <p>The attribute's value can't be null.</p>
<b>socketFactory-fallback</b>	optional	<p>If set to "true", failure to create a socket using the specified socket factory class will cause the socket to be created using the java.net.Socket class. Defaults to "true".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>socketFactory-port</b>	optional	<p>Specifies the port to connect to when using the specified socket factory. If not set, the default port will be used.</p> <p>The attribute's value can't be null.</p>

## InMemoryMonitorStatus

(Description?)

Configure a InMemoryMonitorStatus to be used to hold a FileSystemMonitor status in memory.

The **InMemoryMonitorStatus** Element is used by: *LocalFileSystemMonitor*, *RemoteFileSystemMonitor*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>fs-monitor-status</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.util.file.monitor.status.InMemoryMonitorStatus</b>.</p>
<b>dumpStatus</b>	optional	<p>If 'true' (default) the status is dumped on log on every update.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>

## InputStreamDataProvider

(Field)

This data provider must return an object of class `java.io.InputStream` or subclass.

The field must contain the expression to obtain an `InputStream` or a byte [].

The **InputStreamDataProvider** Element is used by: *DataProviders*.

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

Attribute	Type	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.InputStreamDataProvider</b> .

## invoke-method

(invoke-parameter\*)

Invokes a method to the MBean.

The **invoke-method** Element is used by: *jmx-call*.

The following table show the element's attributes **invoke-method**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>method</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jmx.methods.JMXInvokeOperation</b> .
<b>method</b>	required	MBean's method to invoke.  The attribute's value can't be null.

## invoke-parameter

(Description?)

Specify an invoker method parameter.

The **invoke-parameter** Element is used by: *invoke-method*.

The following table show the element's attributes **invoke-parameter**:

Attribute	Type	Description
<b>type</b>	required	<p>Parameter type. Only used for invoke method.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>byte</b></li> <li>• <b>boolean</b></li> <li>• <b>char</b></li> <li>• <b>double</b></li> <li>• <b>float</b></li> <li>• <b>int</b></li> <li>• <b>long</b></li> <li>• <b>short</b></li> <li>• <b>String</b></li> </ul>
<b>value</b>	required	<p>Parameter value.</p> <p>Can contains the following placeholders: 1 - fixed : a text string; 2 - <code>\${{propname}}</code> : a System property name; 3 - <code>sp{{propname}}</code> : a System property name; 4 - <code>@{{propname}}</code> : a inProperties property name; 5 - <code>timestamp{{pattern}}</code> : return the current timestamp formatted as 'pattern' 6 - <code>dateformat{{date::source-pattern::dest-pattern}}</code> : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - <code>decode{{field[::cond1::val1][::cond2::val2][cond...n::val...n]::default}}</code> : evaluate as if-then-else; if 'field' is equal to cond1...n, return the value of val1...n, otherwise 'default' 8 - <code>decodeL{{sep::field[::cond1::val1][::cond2::val2][cond...n::val...n]::default}}</code> : is equivalent to 'decode', with the difference that 'condX' can be a list of values separated by 'sep' 9 - <code>js{{scope::script}}</code> : evaluate a JavaScript script, using the scope 'scope' 10 - <code>sql{{conn::statement}}</code> : 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 11 - <code>sqllist{{conn[::sep]::statement}}</code> : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list. The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - <code>sqltable{{conn::statement}}</code> : 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 13 - <code>ognl{{script}}</code> : evaluate a OGNL script</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

## isSameRM-override-value

(#PCDATA)

The isSameRM-override-value element allows one to unconditionally set whether the javax.transaction.xa.XAResource.isSameRM(XAResource) returns "true" or "false".

Admitted values:

- **true**
- **false**

The element value can't be null.

The **isSameRM-override-value** Element is used by: *xa-datasource*.

## j2ee-ejb-call

(Description?, JNDIHelper?, WLSSubjectBuilder?, ServiceAlias?)

Service to invoke an Enterprise Java Bean.

#Icon: GVEjbCall.png #Category: J2EE

The **j2ee-ejb-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **j2ee-ejb-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.j2ee.J2EECallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>jndi-name</b>	required	EJB JNDI name.  The attribute's value can't be null.
<b>method</b>	required	Method name to invoke.  The attribute's value can't be null.
<b>parameterTypes</b>	required	Method parameter types list. Comma separated class names or data types: - it.greenvulcano.gvesb.buffer.GVBuffer - java.lang.String,int,int - java.lang.String[]  The attribute's value can't be null.

<b>input-ref-dp</b>	optional	Name of Data Provider to be used to prepare the EJB method actual parameters. This Data Provider will receive in input a GVBuffer and must return an array of object compatible with the parameterTypes list. If not defined is assumed that the method signature is: <code>it.greenvulcano.gvesb.buffer.GVBuffer method(it.greenvulcano.gvesb.buffer.GVBuffer gvbuffer)</code>
<b>output-ref-dp</b>	optional	Name of Data Provider to use for output manipulation. This Data Provider will receive as context a GVBuffer and as input the EJB method output object and must return an enriched GVBuffer object. Ex. a GVBufferChangeDataProvider instance.
<b>home-interface</b>	required	Java class that defines the EJB home interface. Note that if the EJB is installed on the same application server of GreenVulcanoESB, then you can also specify the local home interface.  The attribute's value can't be null.
<b>remote-or-local-interface</b>	required	Java class that defines the EJB home remote. Note that if the EJB is installed on the same application server of GreenVulcanoESB, then you can also specify the local interface.  The attribute's value can't be null.

## j2ee-jca-call

(Description?, JNDIHelper?, jca-interaction-spec, jca-connection-spec?, xml-data?, param-gvbuffer?, ServiceAlias?)

This feature allows you to define an invocation to a JCA adapter that exposes the CCI interface.

Are no limitations on the structure of records that the JCA adapter can use.

The body of GVBuffer must contain an XML structure that describes the JCA record, and in response the output record is converted in the same XML format.

#Icon: GVJcaCall.png #Category: J2EE

The **j2ee-jca-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **j2ee-jca-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.

<p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jca.JCACallOperation</b>.</p>		
<b>name</b>	required	<p>Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.</p> <p>The attribute's value can't be null.</p>
<b>jndi-name-eis</b>	required	<p>JNDI name under which the resource adapter is installed. Is the JNDI name of connection factory.</p> <p>The attribute's value can't be null.</p>
<b>exec-type</b>	required	<p>Invocation description:</p> <ul style="list-style-type: none"> <li>• <b>exec_in_out</b> GreenVulcanoESB uses the Interaction.execute() with the input and output records. If the method returns false, GreenVulcanoESB throws an exception.</li> <li>• <b>out_exec_in</b> GreenVulcanoESB uses the method Interaction.execute() with the only input record, receiving the output record as a result of invocation.</li> <li>• <b>exec_in</b> GreenVulcanoESB uses the method Interaction.execute() with the only input record, without expecting results. GreenVulcanoESB returns the input record.</li> </ul> <p>Refer to the documentation of particular JCA adapter to see which are the accepted methods.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>out_exec_in</b></li> <li>• <b>exec_in_out</b></li> <li>• <b>exec_in</b></li> </ul>
<b>output-name</b>	optional	<p>If you specify 'exec_in_out' to attribute 'exec-type', you must specify the name of the output record.</p> <p>Refer to the documentation of particular JCA adapter to see which is the name to be used.</p> <p>The attribute's value can't be null.</p>
<b>output-type</b>	optional	<p>If you specify 'exec_in_out' to attribute 'exec-type', specify the type of output record.</p> <p>Refer to the documentation of particular JCA adapter to see what kind of records is returned by invoked function.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>mapped</b></li> <li>• <b>indexed</b></li> </ul>
<b>byteArray-handling</b>	optional	<p>Defines how to deal with returns of type byte[].</p> <ul style="list-style-type: none"> <li>• <b>base64</b> The byte arrays are encoded in base64 strings.</li> </ul>



- **string**  
The byte arrays are interpreted as strings.  
In the case of string you can define the encoding to be used with the attribute 'byteArray-encoding'.  
If you do not specify the encoding will be used the platform default.
- **xml**  
The byte arrays are interpreted as serialized XML.

The attribute's admitted values are:

- **base64**
- **string**
- **xml**

<b>byteArray-encoding</b>	optional	Defines the encoding to be used in case byteArray-handling is set to 'string'.
<b>namespace-prefix</b>	optional	<p>The XML used to describe JCA records provides a particular namespace (<a href="http://www.eaisoftware.it/jca/xml">http://www.eaisoftware.it/jca/xml</a>).</p> <p>The default prefix used for namespace is 'jca'.</p> <p>Warning: Changing this value will force a change of xpath used in sub-elements 'xml-data' and 'param-gvdata'.</p>

## JavaScriptRetriever

(Description?, DataRetriever\*)

Allows you to define helper running JavaScript code and return a string.

#SortChild

The **JavaScriptRetriever** Element is used by: *RetrieverConfig*.

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

Attribute	Type	Description
<b>type</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>retriever</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable. Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.utils.JavaScriptRetriever</b>.</p>

## JAXMLRegistry

(Description?, Properties?)

Implementation for the UDDI Server JUDDI.

The **JAXMLRegistry** Element is used by: *UDDI*.

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

Attribute	Type	Description
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.xmlRegistry.impl.RegistryImpl</b> .
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>xmlregistry</b> .
<b>id-registry</b>	required	Unique identifier of XMLRegistry  The attribute's value can't be null.
<b>query-url</b>	required	URL definition to perform the query  The attribute's value can't be null.
<b>publish-url</b>	required	Definition of the URL to make the publication  The attribute's value can't be null.
<b>user-name</b>	optional	Defining the user name for authentication on the Registry  The attribute's value can't be null.
<b>password</b>	optional	Defining the password for authentication on the Registry  #Encrypted  The attribute's value can't be null.
<b>organization-name</b>	optional	Defining the desired organization's name on the Registry  The attribute's value can't be null.

## jbpm-call

(ParamsJbpm, Description?)

JBPM plugin.

#Icon: GVJbpmCall.png #Category: Custom

The **jbpm-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **jbpm-call**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .

<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jbpm.JbpmCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>operation</b>	required	operation call invoke.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>startProcess</b></li> <li>• <b>getProcesses</b></li> <li>• <b>getProcess</b></li> <li>• <b>getProcessByName</b></li> <li>• <b>removeProcess</b></li> <li>• <b>abortProcessInstance</b></li> <li>• <b>getProcessInstanceVariables</b></li> <li>• <b>setProcessInstanceVariables</b></li> <li>• <b>signalExecution</b></li> </ul>

## jbpm-task-call

(ParamsTask, Description?)

JBPM TASK plugin.

#Category: Custom

The **jbpm-task-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **jbpm-task-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jbpm.JbpmTaskCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>hostHumanTaskHandler</b>	optional	Ip Address listner Human Task.
<b>portHumanTaskHandler</b>	optional	Port where the service is exposed.

		The attribute's value can't be null.
<b>operation</b>	required	operation call invoke.
		The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>completeTask</b></li> <li>• <b>assignTask</b></li> <li>• <b>getAssignedTasks</b></li> <li>• <b>getUnassignedTasks</b></li> <li>• <b>getTaskById</b></li> </ul>

## jca-connection-spec

(Description?, spec-constructor?, spec-property\*)

The element 'jca-connection-spec' is used to specify the properties for the object javax.resource.cci.ConnectionSpec.

The ConnectionSpec object must be a JavaBeans.

The ConnectionSpec object properties are used to provide initial parameters to JCA connector in order to establish a connection with the EIS.

Refer to the documentation of particular JCA adapter for a list of properties supported by ConnectionSpec.

The **jca-connection-spec** Element is used by: *j2ee-jca-call*.

The following table show the element's attributes **jca-connection-spec**:

Attribute	Type	Description
<b>class</b>	required	Class that implements the ConnectionSpec.  Consult the documentation of particular JCA adapter for the value of this parameter.  The attribute's value can't be null.

## jca-interaction-spec

(Description?, spec-constructor?, spec-property\*)

The element 'jca-interaction-spec' is used to specify the properties for the object javax.resource.cci.InteractionSpec.

The InteractionSpec object must be a JavaBeans.

The InteractionSpec object properties are used to provide the necessary parameters for JCA connector to complete the interaction with the EIS.

Refer to the documentation of particular JCA adapter for a list of properties supported by InteractionSpec.

The **jca-interaction-spec** Element is used by: *j2ee-jca-call*.

The following table show the element's attributes **jca-interaction-spec**:

Attribute	Tyte	Description
<b>class</b>	required	<p>Class that implements the InteractionSpec.</p> <p>Consult the documentation of particular JCA adapter for the value of this parameter.</p> <p>The attribute's value can't be null.</p>
<b>function-name</b>	optional	<p>MAny EIS provides different functions. This property allows you to specify the function to invoke.</p> <p>JCA specifications require implementation of this standard property only if applicable to the particular EIS.</p> <p>Refer to the documentation of the particular EIS for a list of available functions.</p> <p>The attribute's value can't be null.</p>
<b>interaction-verb</b>	optional	<p>The functions exposed by an EIS can be invoked in a standard way:</p> <ul style="list-style-type: none"> <li>• <b>SYNC_SEND_RECEIVE</b> Send data to the EIS, with synchronous waiting for a reply.</li> <li>• <b>SYNC_SEND</b> Send data to the EIS, without reply.</li> <li>• <b>SYNC_RECEIVE</b> Request of data to the EIS.</li> </ul> <p>JCA specifications require implementation of this standard property only if applicable to the particular EIS.</p> <p>Refer to the documentation of the particular EIS to check the verb for the various supported functions.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>SYNC_SEND_RECEIVE</b></li> <li>• <b>SYNC_SEND</b></li> <li>• <b>SYNC_RECEIVE</b></li> </ul>
<b>execution-timeout</b>	optional	<p>Timeout in milliseconds for a given interaction.</p> <p>Not all EIS support this parameter.</p> <p>JCA specifications require implementation of this standard property only if applicable to the particular EIS.</p>

## JdbcConnection

(Description?)

This element retrieve a JDBC connection.

The **JdbcConnection** Element is used by: *DBOperations*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>db-connection</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.connections.JdbcDataBaseConnection</b> .
<b>connectionName</b>	required	This attribute defines the name of the connection to be used, must be one of the connections configured on the file GVAdapters.xml  The attribute's value can't be null.

## jms

(Description?)

The **jms** Element is used by: *Transport*.

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

Attribute	Tyte	Description
<b>connectionFactory</b>	optional	
<b>initialContextFactory</b>	optional	
<b>jndiURL</b>	optional	
<b>destination</b>	optional	
<b>replyDestination</b>	optional	
<b>destinationType</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>queue</b></li><li>• <b>topic</b></li></ul>
<b>contentType</b>	optional	
<b>bytesMessage</b>	optional	
<b>textMessage</b>	optional	

## JMSBytesMessageDataProvider

(Field+)

The **JMSBytesMessageDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.JMSBytesMessageDataProvider</b> .

## jms-dequeue

(Description?, JNDIHelper?, message-selector?, ServiceAlias?, XAHelper?)

Allows you to perform a dequeue from a JMS destination.

JMS message properties are mapped to GVBuffer fields:

Field JMS \_\_\_\_\_ system SYSTEM service SERVICE id ID retCode RET\_CODE properties p\$<property name> (only GVBuffer properties with names that are valid Java identifier are managed)

If isn't defined a Data Provider the GVBuffer object field contains the received message.

Can be defined a JMS message selector to filter messages.

#Icon: dequeue32.png #Category: JMS

The **jms-dequeue** Element is used by: *routed-dequeue*, *VCLOperation*.

The following table show the element's attributes **jms-dequeue**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dequeue</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.j2ee.JMSDequeueOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>connection-factory</b>	required	JMS connection factory JNDI name.  The attribute's value can't be null.

<b>destination-name</b>	required	<p>Destination JNDI name.</p> <p>Set appropriately the 'destination-type' parameter.</p> <p>The attribute's value can't be null.</p>
<b>destination-type</b>	optional	<p>Destination type.</p> <p>Default: queue</p> <p>The attribute's default value is: <b>queue</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>queue</b></li> <li>• <b>topic</b></li> </ul>
<b>transacted</b>	optional	<p>Specifies whether the dequeue has to open his own transaction or fall in a global transaction.</p> <ul style="list-style-type: none"> <li>• 'true' open his own transaction and do not fall in the global transaction.</li> <li>• 'false' fall in the active global transaction. Must be used a XA connection factory.</li> </ul> <p>This parameter is not relevant if the connection factory isn't XA.</p> <p>Default: false.</p> <p>The attribute's default value is: <b>false</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul>
<b>acknowledge-type</b>	optional	<p>In transactional dequeue acknowledgment is managed by the application server.</p> <p>This parameter is meaningful only for non-transactional dequeue and can take the following values:</p> <ul style="list-style-type: none"> <li>• '<b>auto-acknowledge</b>': the acknowledgment from application server is automatically given upon delivery of the message.</li> <li>• '<b>client-acknowledge</b>': the client must explicitly acknowledgment the message.</li> <li>• '<b>dups-ok-acknowledge</b>': allows the JMS server to perform optimizations on the logic of acknowledgment messages, but can cause the redelivery of messages. Should only be used with systems that are tolerant to duplicated message.</li> </ul> <p>Default: auto-acknowledge</p> <p>The attribute's default value is: <b>auto-acknowledge</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>auto-acknowledge</b></li> <li>• <b>client-acknowledge</b></li> <li>• <b>dups-ok-acknowledge</b></li> </ul>



<b>receive-type</b>	required	<p>Allows you to specify whether the receipt should be made in blocking mode, non-blocking mode, or with timeout.</p> <ul style="list-style-type: none"> <li>• <b>non-blocking</b>: is performed a non-blocking receive. If a message is already queued then it's immediately read. If there are no messages available then GreenVulcanoESB throws a time-out exception.</li> <li>• <b>timeout</b>: is performed a timeout receive. GreenVulcanoESB wait for the specified time. If a message is queued then it's immediately read. If there are no messages available then GreenVulcanoESB throws a time-out exception.</li> <li>• <b>blocking</b>: the current thread blocks indefinitely until a message arrives. Use with caution.</li> </ul> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>non-blocking</b></li> <li>• <b>timeout</b></li> <li>• <b>blocking</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>receive-timeout</b>	optional	<p>Time-out duration in ms.</p> <p>This parameter is meaningful only if 'receive-type' is set to 'time out'.</p> <p>If 'receive-type' is set to 'time out' and 'receive-timeout' is not defined, then is assumed a timeout of 1000 ms.</p>
<b>receive-timeout-overrideable</b>	optional	<p>Specifies whether the value set to 'receive-timeout' can be overwritten at runtime.</p> <p>Reserved for future use.</p> <p>The attribute's default value is: <b>false</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul>
<b>durable-subscriber</b>	optional	<p>Specifies the name of the durable subscriber. Durable subscriptions provide the receipt of all messages sent to the topic, even if the subscribers are not running when the messages are sent.</p>
<b>no-local</b>	optional	<p>Avoid receiving local messages.</p> <p>Reserved for future use.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>use-vcl-pool</b>	optional	<p>Indicates whether to use connection pooling capabilities of the VCL.</p> <p>Set to false if the container provides pooling capabilities.</p>

		<p>Default: true</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
<b>invalidate-conn-on-pool-insertion</b>	optional	<p>Indicates whether connections should be marked as invalid before reinsertion on the pool.</p> <p>Is significant only if the pooling feature is enabled.</p> <p>Default: false</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul>
<b>ref-dp</b>	optional	<p>Name of Data Provider to use.</p> <p>This Data Provider will receive in input a JMS Message and must return the object to be inserted in GVBuffer.</p>
<b>dump-message</b>	optional	<p>If true the dequeued message is dumped on log file, at DEBUG severity level.</p> <p>Default false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>

## jms-enqueue

(Description?, JNDIHelper?, ServiceAlias?, XAHelper?)

Allows you to perform an enqueue on a JMS destination.

GVBuffer fields will be made available through the JMS message properties:

Field JMS \_\_\_\_\_ system SYSTEM service SERVICE id ID retCode RET\_CODE properties p\$<property name> (only GVBuffer properties with names that are valid Java identifier are managed)

#Icon: enqueue32.png #Category: JMS

The **jms-enqueue** Element is used by: *routed-enqueue*, *VCLOperation*.

The following table show the element's attributes **jms-enqueue**:

Attribute	Tyte	Description
<b>type</b>	fixed	<p>Unmodifiable.</p> <p>Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>enqueue</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable.</p> <p>Used by GreenVulcanoESB factory framework.</p>

This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.j2ee.JMSEnqueueOperation</b> .		
<b>name</b>	required	<p>Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.</p> <p>The attribute's value can't be null.</p>
<b>connection-factory</b>	required	<p>JMS connection factory JNDI name.</p> <p>The attribute's value can't be null.</p>
<b>destination-name</b>	required	<p>Destination JNDI name.</p> <p>Set appropriately the 'destination-type' parameter.</p> <p>The attribute's value can't be null.</p>
<b>destination-type</b>	optional	<p>Destination type.</p> <p>Default: queue</p> <p>The attribute's default value is: <b>queue</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>queue</b></li> <li>• <b>topic</b></li> </ul>
<b>transacted</b>	optional	<p>Specifies whether the enqueue has to open his own transaction or fall in a global transaction.</p> <ul style="list-style-type: none"> <li>• 'true' open his own transaction and do not fall in the global transaction.</li> <li>• 'false' fall in the active global transaction. Must be used a XA connection factory.</li> </ul> <p>This parameter is not relevant if the connection factory isn't XA.</p> <p>Default: false.</p> <p>The attribute's default value is: <b>false</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul>
<b>acknowledge-type</b>	optional	<p>In transactional enqueue acknowledgment is managed by the application server.</p> <p>This parameter is meaningful only for non-transactional enqueue and can take the following values:</p> <ul style="list-style-type: none"> <li>• '<b>auto-acknowledge</b>': the acknowledgment from application server is automatically given upon delivery of the message.</li> <li>• '<b>client-acknowledge</b>': the client must explicitly acknowledgment the message.</li> <li>• '<b>dups-ok-acknowledge</b>': allows the JMS server to perform optimizations on the logic of acknowledgment messages, but can cause the redelivery of messages.</li> </ul>

Should only be used with systems that are tolerant to duplicated message.

Default: auto-acknowledge

The attribute's default value is: **auto-acknowledge**.

The attribute's admitted values are:

- **auto-acknowledge**
- **client-acknowledge**
- **dups-ok-acknowledge**

<b>delivery-mode</b>	optional	<p>Specifies whether the JMS server must file on a persistent store the message before returning to the caller.</p> <p>Sending messages persistent slightly affects the performance but provides greater guarantees of delivery.</p> <p>The possible values for this parameter are:</p> <ul style="list-style-type: none"><li>• <b>persistent</b> : guarantees delivery</li><li>• <b>non-persistent</b>: don't guarantees delivery</li></ul> <p>Default: persistent</p> <p>The attribute's default value is: <b>persistent</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>persistent</b></li><li>• <b>non-persistent</b></li></ul>
<b>priority</b>	optional	<p>Message priority.</p> <p>The messages with higher priority will be received before messages with lower priority.</p> <p>The priorities set for JMS ranging from 0 (lowest priority) to 9 (highest priority).</p> <p>The default priority of JMS messages is 4.</p> <p>Default: 4</p> <p>The attribute's default value is: <b>4</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>0</b></li><li>• <b>1</b></li><li>• <b>2</b></li><li>• <b>3</b></li><li>• <b>4</b></li><li>• <b>5</b></li><li>• <b>6</b></li><li>• <b>7</b></li><li>• <b>8</b></li><li>• <b>9</b></li></ul>
<b>time-to-live</b>	optional	<p>Lifetime of sent messages, in milliseconds.</p> <p>Upon expiration of the time-to-live the JMS server is allowed to discard the message without delivering it.</p> <p>This parameter is optional.</p>

		<p>If not specified it is assumed a time-to-live of one year.</p> <p>Default: one year</p> <p>The attribute's value can't be null.</p>
<b>use-vcl-pool</b>	optional	<p>Indicates whether to use connection pooling capabilities of the VCL.</p> <p>Set to false if the container provides pooling capabilities.</p> <p>Default: true</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
<b>invalidate-conn-on-pool-insertion</b>	optional	<p>Indicates whether connections should be marked as invalid before reinsertion on the pool.</p> <p>Is significant only if the pooling feature is enabled.</p> <p>Default: false</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul>
<b>ref-dp</b>	optional	<p>Name of Data Provider to use.</p> <p>The Data Provider will return the JMS Message to send.</p>
<b>dump-message</b>	optional	<p>If true the message to be enqueued is dumped on log file, at DEBUG severity level.</p> <p>Default: false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>

## JMSMapMessageDataProvider

(Field+)

The **JMSMapMessageDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	<p>Unmodifiable.</p> <p>Used by GreenVulcanoESB factory framework.</p> <p>This attribute <i>must</i> assume the value <b>dataProvider</b>.</p>
<b>class</b>	fixed	<p>Unmodifiable.</p> <p>Used by GreenVulcanoESB factory framework.</p>

This attribute *must* assume the value  
**it.greenvulcano.gvesb.gvdp.impl.JMSMapMessageDataProvider.**

---

## JMSObjectMessageDataProvider

(Field+)

The **JMSObjectMessageDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.JMSObjectMessageDataProvider.</b>

## JMSStreamMessageDataProvider

(Field+)

The **JMSStreamMessageDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.JMSStreamMessageDataProvider.</b>

## JMSTextMessageDataProvider

(Field+)

The **JMSTextMessageDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.JMSTextMessageDataProvider</b> .

## jmx-call

(Description?, (invoke-method | set-attribute | get-attribute))

JMX VCL plugin to invoke MBean methods or set/get attributes on local servers.

#Icon: GVJmxCall.png #Category: J2EE

The **jmx-call** Element is used by: *routed-call, VCLOperation*.

The following table show the element's attributes **jmx-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jmx.JMXCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>object-name</b>	required	Defines an object name filter to invoke/set/get via JMX server.  Can contains the following placeholders: 1 - fixed : a text string; 2 - \${proprname} : a System property name; 3 - sp{proprname} : a System property name; 4 - @{proprname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-

pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{ { scope::script} } : evaluate a JavaScript script, using the scope 'scope' 10 - 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 11 - sqllist{ { conn[::sep]::statement} } : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.  
The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{ { script} } : evaluate a OGNL script  
The attribute's value can't be null.

## JNDIHelper

(Description?, Advanced?, Extended\*)

The **JNDIHelper** Element is used by: *DataSourceConnection, DataSourceConnectionBuilder, j2ee-ejb-call, j2ee-jca-call, jms-dequeue, jms-enqueue, pop-call, smtp-call, UserTransaction, XAHelper*.

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

Attribute	Tyte	Description
<b>initial-context-factory</b>	optional	<p>Initial context factory for the JNDI tree containing connection-factory and the destination-name.  Refere to your application server documentation for further information.</p> <p>Where GreenVulcano ESB and the server to contact are installed on the application server of the same type, you may leave this parameter unspecified.</p> <p>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.</p> <p>#Icon: default.png</p> <p>The attribute's value can't be null.</p>
<b>provider-url</b>	optional	Application server connection URL.



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

## jndi-name

(#PCDATA)

The JNDI name under which the DataSource wrapper will be bound.

Note that this name is relative to the "java:/" prefix unless use-java-context is "false".

The element value can't be null.

The **jndi-name** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## LDAPContext

(Description?, Advanced?, Extended\*)

The **LDAPContext** Element is used by: *ldap-search-call*, *ldap-update-call*.

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

Attribute	Tyte	Description
<b>initial-context-factory</b>	optional	<p>Initial context factory for the LDAP tree containing connection-factory and the destination-name. Refere to your LDAP server documentation for the configuration of this parameter</p> <p>#Icon: default.png</p> <p>The attribute's default value is: <b>com.sun.jndi.ldap.LdapCtxFactory.</b></p>

		The attribute's value can't be null.
<b>provider-url</b>	required	LDAP server connection URL. Refere to your LDAP server documentation for the configuration of this parameter  #Icon: default.png
		The attribute's value can't be null.
<b>security-principal</b>	optional	Username used to connect the LDAP server. If security is not enabled, you can leave unspecified this parameter.  #Icon: default.png
		The attribute's value can't be null.
<b>security-credentials</b>	optional	Password to connect the LDAP server. If security is not enabled, you can leave unspecified this parameter.  #Icon: default.png
		The attribute's value can't be null.

## LDAPFilter

(#PCDATA)

The content defines a LDAP search filter.

#Icon: default.png

The element value can't be null.

The **LDAPFilter** Element is used by: *ldap-search-call*.

## ldap-search-call

(Description?, LDAPContext, LDAPFilter\*)

Service to execute search/login operation on LDAP server.

The following field's value can be static or contain placeholders that are replaced at runtime, the values can also be overwritten by specific properties: - rootContext (GVLDAP\_ROOT\_CONTEXT) - LDAPContext/security-principal (GVLDAP\_USER) - LDAPContext/security-credential (GVLDAP\_PASSWORD) - LDAPFilter (GVLDAP\_FILTER)

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{ {scope::script} } : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{ {conn[::sep]::statement} } : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{ {script} } : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVLdapSearch.png #Category: DataBase

The **ldap-search-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **ldap-search-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.ldap.LDAPSearchOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>rootContext</b>	optional	Root search context.  The attribute's value can't be null.
<b>deepSearch</b>	optional	If true is performer a deep search, beginning from rootContext. Default is true.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> <li><b>false</b></li> </ul> The attribute's value can't be null.
<b>withSchema</b>	optional	If true is the output Document contains entry/attribute schema informations. Default is false.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> </ul>

- **false**

The attribute's value can't be null.

## ldap-update-call

(Description?, LDAPContext)

Service to execute update operation on LDAP server.

The following field's value can be static or contain placeholders that are replaced at runtime, the values can also be overwritten by specific properties: - rootContext (GVLDAP\_ROOT\_CONTEXT) - LDAPContext/security-principal (GVLDAP\_USER) - LDAPContext/security-credential (GVLDAP\_PASSWORD)

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVLDAPUpdate.png #Category: DataBase

The **ldap-update-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **ldap-update-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.ldap.LDAPUpdateOperation</b> .

<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>rootContext</b>	optional	Root search context.  The attribute's value can't be null.

## ListItem

**EMPTY**

The **ListItem** Element is used by: *FixedSource*.

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

Attribute	Tyte	Description
<b>text</b>	required	The attribute's value can't be null.
<b>value</b>	required	The attribute's value can't be null.

## LocalFileSystemMonitor

(Description?, (InMemoryMonitorStatus | FileMonitorStatus), FileFilter, ResultFilter)

Configure a LocalFileSystemMonitor instance, to be used to monitor a local file system directory.

The **LocalFileSystemMonitor** Element is used by: *fsmonitor-call*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>fs-monitor</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.util.file.monitor.LocalFileSystemMonitor</b> .
<b>path</b>	required	Absolute path to monitor on local file system. Can contains placeholders which will be replaced at runtime.  The attribute's value can't be null.

## local-tx-datasource

(jndi-name, use-java-context?, connection-url, driver-class, transaction-isolation?, connection-property\*, user-name?, password?, (application-managed-security | security-domain | security-domain-and-application)?, min-pool-size?, max-pool-size?, blocking-timeout-millis?, idle-timeout-minutes?, no-tx-separate-pools?, new-connection-sql?, check-valid-connection-sql?, valid-connection-checker-class-name?, exception-sorter-class-name?, track-statements?, prepared-statement-cache-size?, depends\*, type-mapping?)

Specify a jca-jdbc non-XADataSource (local) wrapper, using local transactions.

The **local-tx-datasource** Element is used by: *GVDataSources*.

## mail-address

(Description?)

Contains the email address of a recipient.

#Icon: default.png

The **mail-address** Element is used by: *bcc, cc, to*.

The following table show the element's attributes **mail-address**:

Attribute	Tytle	Description
address	required	The email address. The attribute's value can't be null.

## mail-message

(destinations?, message-body?, attachments?, Description?)

Defines the properties of the message.

#Icon: default.png

The **mail-message** Element is used by: *smtp-call*.

The following table show the element's attributes **mail-message**:

Attribute	Tytle	Description
sender-display-name	required	It display name del sender. The attribute's value can't be null.
subject	required	The subject of the email. You can enter gvBuffer values using the following syntax: <ul style="list-style-type: none"><li>• for standard fields</li><li>• \${system}</li><li>• \${service}</li><li>• \${id}</li><li>• \${object}</li></ul>

		<ul style="list-style-type: none"> <li>• <code>\${retCode}</code></li> <li>• for properties</li> <li>• <code>\${property['nome']}</code></li> </ul> <p>The attribute's value can't be null.</p>
<b>content-type</b>	required	<p>Email content-type.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>text-plain</b></li> <li>• <b>text-html</b></li> </ul>
<b>high-priority</b>	optional	<p>The priority of the mail.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

## mail-properties

(**mail-property**\*)

The SMTP protocol provider supports the following properties, which may be set in the `JavaMail Session` object.

The properties are always set as strings; the Type column describes how the string is interpreted. For example, use

```
props.put("mail.smtp.port", "888");
```

to set the `mail.smtp.port` property, which is of type `int`.

Note that if you're using the "smtps" protocol to access SMTP over SSL, all the properties would be named "mail.smtps.\*".

Name	Type	Description
*****		
<code>mail.smtp.user</code>	<code>String</code>	Default user name for SMTP.
<code>mail.smtp.host</code>	<code>String</code>	The SMTP server to connect to.
<code>mail.smtp.port</code>	<code>int</code>	The SMTP server port to connect to, if the <code>connect()</code> method doesn't explicitly specify one. Defaults to 25.
<code>mail.smtp.connectiontimeout</code>	<code>int</code>	Socket connection timeout value in milliseconds. Default is infinite timeout.
<code>mail.smtp.timeout</code>	<code>int</code>	Socket I/O timeout value in milliseconds. Default is infinite timeout.
<code>mail.smtp.from</code>	<code>String</code>	Email address to use for SMTP MAIL command. This sets the envelope return address. Defaults to <code>msg.getFrom()</code> or <code>InternetAddress.getLocalAddress()</code> . NOTE: <code>mail.smtp.user</code> was previously used for this.
<code>mail.smtp.localhost</code>	<code>String</code>	Local host name used in the SMTP HELO or EHLO command. Defaults to <code>InetAddress.getLocalHost().getHostName()</code> . Should not normally need to be set if your JDK and your name service are configured properly.
<code>mail.smtp.localaddress</code>	<code>String</code>	Local address (host name) to bind to when creating the SMTP socket. Defaults to the address picked by the <code>Socket</code> class. Should not normally need to be set, but useful with multi-homed hosts where it's important to pick a particular local address to bind to.

mail.smtp.localport int Local port number to bind to when creating the SMTP socket. Defaults to the port number picked by the Socket class.

mail.smtp.ehlo boolean If false, do not attempt to sign on with the EHLO command. Defaults to true. Normally failure of the EHLO command will fallback to the HELO command; this property exists only for servers that don't fail EHLO properly or don't implement EHLO properly.

mail.smtp.auth boolean If true, attempt to authenticate the user using the AUTH command. Defaults to false.

mail.smtp.auth.mechanisms String If set, lists the authentication mechanisms to consider, and the order in which to consider them. Only mechanisms supported by the server and supported by the current implementation will be used. The default is "LOGIN PLAIN DIGEST-MD5 NTLM", which includes all the authentication mechanisms supported by the current implementation.

mail.smtp.auth.ntlm.domain String The NTLM authentication domain.

mail.smtp.auth.ntlm.flags int NTLM protocol-specific flags. See <http://curl.haxx.se/rfc/ntlm.html#theNtlmFlags> for details.

mail.smtp.submitter String The submitter to use in the AUTH tag in the MAIL FROM command. Typically used by a mail relay to pass along information about the original submitter of the message. See also the setSubmitter method of SMTPMessage. Mail clients typically do not use this.

mail.smtp.dsn.notify String The NOTIFY option to the RCPT command. Either NEVER, or some combination of SUCCESS, FAILURE, and DELAY (separated by commas).

mail.smtp.dsn.ret String The RET option to the MAIL command. Either FULL or HDRS.

mail.smtp.allow8bitmime boolean If set to true, and the server supports the 8BITMIME extension, text parts of messages that use the "quoted-printable" or "base64" encodings are converted to use "8bit" encoding if they follow the RFC2045 rules for 8bit text.

mail.smtp.sendpartial boolean If set to true, and a message has some valid and some invalid addresses, send the message anyway, reporting the partial failure with a SendFailedException. If set to false (the default), the message is not sent to any of the recipients if there is an invalid recipient address.

mail.smtp.sasl.realm String The realm to use with DIGEST-MD5 authentication.

mail.smtp.quitwait boolean If set to false, the QUIT command is sent and the connection is immediately closed. If set to true (the default), causes the transport to wait for the response to the QUIT command.

mail.smtp.reportsuccess boolean If set to true, causes the transport to include an SMTPAddressSucceededException for each address that is successful. Note also that this will cause a SendFailedException to be thrown from the sendMessage method of SMTPTransport even if all addresses were correct and the message was sent successfully.

mail.smtp.socketFactory SocketFactory If set to a class that implements the javax.net.SocketFactory interface, this class will be used to create SMTP sockets. Note that this is an instance of a class, not a name, and must be set using the put method, not the setProperty method.

mail.smtp.socketFactory.class String If set, specifies the name of a class that implements the javax.net.SocketFactory interface. This class will be used to create SMTP sockets.

mail.smtp.socketFactory.fallback boolean If set to true, failure to create a socket using the specified socket factory class will cause the socket to be created using the java.net.Socket class. Defaults to true.

mail.smtp.socketFactory.port int Specifies the port to connect to when using the specified socket factory. If not set, the default port will be used.



`mail.smtp.ssl.enable` boolean If set to true, use SSL to connect and use the SSL port by default. Defaults to false for the "smtp" protocol and true for the "smtps" protocol.

`mail.smtp.ssl.checkserveridentity` boolean If set to true, check the server identity as specified by RFC 2595. These additional checks based on the content of the server's certificate are intended to prevent man-in-the-middle attacks. Defaults to false.

`mail.smtp.ssl.trust` String If set, and a socket factory hasn't been specified, enables use of a `MailSSLSocketFactory`. If set to "\*", all hosts are trusted. If set to a whitespace separated list of hosts, those hosts are trusted. Otherwise, trust depends on the certificate the server presents.

`mail.smtp.ssl.socketFactory` `SSLSocketFactory` If set to a class that extends the `javax.net.ssl.SSLSocketFactory` class, this class will be used to create SMTP SSL sockets. Note that this is an instance of a class, not a name, and must be set using the `put` method, not the `setProperty` method.

`mail.smtp.ssl.socketFactory.class` String If set, specifies the name of a class that extends the `javax.net.ssl.SSLSocketFactory` class. This class will be used to create SMTP SSL sockets.

`mail.smtp.ssl.socketFactory.port` int Specifies the port to connect to when using the specified socket factory. If not set, the default port will be used.

`mail.smtp.ssl.protocols` string Specifies the SSL protocols that will be enabled for SSL connections. The property value is a whitespace separated list of tokens acceptable to the `javax.net.ssl.SSLSocket.setEnabledProtocols` method.

`mail.smtp.ssl.ciphersuites` string Specifies the SSL cipher suites that will be enabled for SSL connections. The property value is a whitespace separated list of tokens acceptable to the `javax.net.ssl.SSLSocket.setEnabledCipherSuites` method.

`mail.smtp.mailextension` String Extension string to append to the MAIL command. The extension string can be used to specify standard SMTP service extensions as well as vendor-specific extensions. Typically the application should use the `SMTPTransport.supportsExtension` to verify that the server supports the desired service extension. See RFC 1869 and other RFCs that define specific extensions.

`mail.smtp.starttls.enable` boolean If true, enables the use of the STARTTLS command (if supported by the server) to switch the connection to a TLS-protected connection before issuing any login commands. Note that an appropriate trust store must be configured so that the client will trust the server's certificate. Defaults to false.

`mail.smtp.starttls.required` boolean If true, requires the use of the STARTTLS command. If the server doesn't support the STARTTLS command, or the command fails, the connect method will fail. Defaults to false.

`mail.smtp.userset` boolean If set to true, use the RSET command instead of the NOOP command in the `isConnected` method. In some cases sendmail will respond slowly after many NOOP commands; use of RSET avoids this sendmail issue. Defaults to false.

`mail.smtp.noop.strict` boolean If set to true (the default), insist on a 250 response code from the NOOP command to indicate success. The NOOP command is used by the `isConnected` method to determine if the connection is still alive. Some older servers return the wrong response code on success, some servers don't implement the NOOP command at all and so always return a failure code. Set this property to false to handle servers that are broken in this way. Normally, when a server times out a connection, it will send a 421 response code, which the client will see as the response to the next command it issues. Some servers send the wrong failure response code when timing out a connection. Do not set this property to false when dealing with servers that are broken in this way.

The **mail-properties** Element is used by: *pop-call*, *smtp-call*.

## mail-property

EMPTY

Name value pair that contains the properties to set.

The **mail-property** Element is used by: *mail-properties*.

The following table show the element's attributes **mail-property**:

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

## mail-service

(smtp?, (pop3 | imap)?, mime?, Description?)

Specifies the Email service configuration.

The **mail-service** Element is used by: *GVMailServices*.

The following table show the element's attributes **mail-service**:

Attribute	Tyte	Description
code	fixed	Specifies the Email service plugin.
		This attribute <i>must</i> assume the value <b>org.jboss.mail.MailService</b> .
name	required	Specifies the Email service name. ex: jboss:service=Mail
		The attribute's value can't be null.
jndi-name	required	Specifies the javax.mail.Session object JNDI name registered into the application server JNDI tree. ex: java:/Mail
		The attribute's value can't be null.
host	optional	Specifies the default Mail server. The Store and Transport object's connect methods use this property, if the protocolspecific host property is absent, to locate the target host. ex: smtp.nosuchhost.nosuchdomain.com
		The attribute's value can't be null.
user	required	Specifies the username to provide when connecting to a Mail server. The Store and Transport object's connect methods use this property, if the protocolspecific username property is absent, to obtain the username.

ex: nobody

We assume that the authentication username is the same for each protocol.

The attribute's value can't be null.

<b>password</b>	optional	<p>Specifies the password to provide when connecting to a Mail server.</p> <p>This parameter is not included in the JavaMail specifications, but is used to configure the JBoss mail service.</p> <p>We assume that the authentication password is the same for each protocol.</p> <p>The attribute's value can't be null.</p>
<b>from</b>	optional	<p>Specifies the return address of the current user.</p> <p>Used by the <code>InternetAddress.getLocalAddress</code> method to specify the current user's email address.</p> <p>ex: <code>someone@host.domain.com</code></p> <p>The attribute's value can't be null.</p>
<b>debug</b>	optional	<p>Specifies the initial debugging mode.</p> <p>Setting this property to "true" will turn on debug mode, while setting it to "false" turns debug mode off.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> <p>The attribute's value can't be null.</p>
<b>alternates</b>	optional	<p>A string which contains additional email addresses to which current user is aware.</p> <p>The <code>MimeMessage</code> reply method will eliminate any of these addresses from the recipient list in the message it builds, to avoid sending the reply back to the sender.</p> <p>This property is supported by Sun Microsystems implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's value can't be null.</p>
<b>replyallcc</b>	optional	<p>If set to "true", the <code>MimeMessage</code> reply method will put all recipients except the original sender in the Cc list of the new message.</p> <p>Normally, recipients in the "To" header of the original message will also appear in the "To" list of the new email message.</p> <p>This property is supported by Sun Microsystems implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> <p>The attribute's value can't be null.</p>

## MapDataProvider

(Field+)

The **MapDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.MapDataProvider</b> .

## max-pool-size

(#PCDATA)

The max-pool-size element indicates the maximum number of connections for a pool.

No more than MaxSize connections will be created in each sub-pool.

This defaults to 20.

The element value can't be null.

The **max-pool-size** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## mbean

(constructor?, xmbean?, attribute\*, depends\*, depends-list\*)

The mbean element defines a JBoss MBean service.

This includes the mbean class, attributes and dependencies.

The **mbean** Element is used by: *depends*, *depends-list-element*, *GVDatasources*.

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

Attribute	Tyte	Description
<b>code</b>	required	The code attributes gives the fully qualified name of the MBean implementation class.  The attribute's value can't be null.
<b>name</b>	required	The name attribute gives the JMX ObjectName string to use when registering the MBean.

		This must be a unique and valid JMX name.
		The attribute's value can't be null.
<b>interface</b>	optional	<p>The optional interface attribute gives the full qualified name of the class uses to construct the management interface of the mbean.</p> <p>In absence of it an interface with the name ending by MBean will be looked in the implementation class.</p> <p>When used this interface is defined explicitly.</p> <p>The attribute's value can't be null.</p>

## message-body

(message-text?, Description?)

Defines the message body of the email.

#Icon: default.png

The **message-body** Element is used by: *mail-message*.

The following table show the element's attributes **message-body**:

Attribute	Type	Description
<b>gvBuffer-dump</b>	optional	<p>If true, the GVBuffer dump will be included in the message body.</p> <p>Default: false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li><b>false</b></li> <li><b>true</b></li> </ul>

## message-selector

(#PCDATA)

Allows you to specify a selector for receiving messages.

See the JMS documentation for the selector syntax.

The properties (and their types) provided by GreenVulcanoESB for selectors are:

- SYSTEM (String)
- SERVICE (String)
- ID (String)
- RETCODE (int)

Even GVBuffer properties are present in the form of message properties. The properties are all string and their names have the prefix '\$p' (only GVBuffer properties with names that are valid Java identifier are managed).

For example, a GVBuffer property named PROPERTY will be identified by a property name p\$PROPERTY.

As GreenVulcanoESB can in turn generate selectors, you can define how they should be combined with the selector specified by this element, see 'combining' attribute.

The **message-selector** Element is used by: *jms-dequeue*.

The following table show the element's attributes **message-selector**:

Attribute	Tyte	Description
<b>combining</b>	optional	<p>GreenVulcanoESB can dynamically generate selectors. This parameter defines how the dynamicselector should be combined with the selector configured to obtain the actual selector used for reception of JMS message.</p> <p>Can take the following values:</p> <ul style="list-style-type: none"><li>• dynamic-and-configured (DYNAMIC) AND (CONFIGURED)</li><li>• dynamic-or-configured (DYNAMIC) OR (CONFIGURED)</li><li>• dynamic-only DYNAMIC</li><li>• configured-only CONFIGURED</li><li>• <b>configured-if-no-dynamic DYNAMIC != null ? DYNAMIC : CONFIGURED</b></li></ul> <p>The attribute's default value is: <b>dynamic-and-configured</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>dynamic-and-configured</b></li><li>• <b>dynamic-or-configured</b></li><li>• <b>dynamic-only</b></li><li>• <b>configured-only</b></li><li>• <b>configured-if-no-dynamic</b></li></ul>

## message-text

(#PCDATA)

The message of the email.

You can enter gvBuffer values using the following syntax:

- for standard fields
- `${system}`
- `${service}`
- `${id}`
- `${object}`
- `${retCode}`
- for properties
- `${property['nome']}`

The attribute 'escape-HTML-in-gvBuffer-fields' allows you to specify whether, when replacing the placeholders for the fields of GVBuffer, any invalid characters for XML/HTML should be replaced with the corresponding entity.

Default to 'true'.

#Icon: default.png

The element value can't be null.

The **message-text** Element is used by: *message-body*.

The following table show the element's attributes **message-text**:

Attribute	Tyte	Description
<b>escape-HTML-in-gvBuffer-fields</b>	optional	Allows you to specify whether, when replacing the placeholders for the fields of GVBuffer, any invalid characters for XML/HTML should be replaced with the corresponding entity. Default to 'true'.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul>

## method

EMPTY

Method to execute to the server.

The **method** Element is used by: *http-call*.

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

Attribute	Tyte	Description
<b>name</b>	required	Method name.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>OPTIONS</b></li><li>• <b>GET</b></li><li>• <b>HEAD</b></li><li>• <b>POST</b></li><li>• <b>PUT</b></li><li>• <b>DELETE</b></li></ul> The attribute's value can't be null.
<b>request-uri</b>	required	Request URI. Can contain placeholders.  The attribute's value can't be null.
<b>ref-dp</b>	optional	Name of Data Provider to use to prepare the request.

## mime

(Description?)

MIME mail configuration parameters.

The **mime** Element is used by: *mail-service*.

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

Attribute	Type	Description
<b>address-strict</b>	optional	<p>The mail.mime.address.strict session property controls the parsing of address headers.</p> <p>By default, strict parsing of address headers is done.</p> <p>If this property is set to "false", strict parsing is not done and many illegal addresses that sometimes occur in real messages are allowed. See the InternetAddress class for details.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> <p>The attribute's value can't be null.</p>
<b>charset</b>	optional	<p>The mail.mime.charset System property can be used to specify the default MIME charset to use for encoded words and text parts that don't otherwise specify a charset.</p> <p>Normally, the default MIME charset is derived from the default Java charset, as specified in the file.encoding System property.</p> <p>Most applications will have no need to explicitly set the default MIME charset.</p> <p>In cases where the default MIME charset to be used for mail messages is different than the charset used for files stored on the system, this property should be set.</p> <p>The attribute's value can't be null.</p>
<b>decodetext-strict</b>	optional	<p>The mail.mime.decodetext.strict property controls decoding of MIME encoded words.</p> <p>The MIME spec requires that encoded words start at the beginning of a whitespace separated word.</p> <p>Some mailers incorrectly include encoded words in the middle of a word.</p> <p>If the mail.mime.decodetext.strict System property is set to "false", an attempt will be made to decode these illegal encoded words.</p> <p>The default is "true".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> <p>The attribute's value can't be null.</p>
<b>encodeeol-strict</b>	optional	<p>The mail.mime.encodeeol.strict property controls the choice of Content-Transfer-Encoding for MIME parts that are not of type "text".</p> <p>Often such parts will contain textual data for which an encoding that allows normal end of line conventions is appropriate. In rare cases, such a part will appear to contain entirely textual data, but will require an encoding that preserves CR and LF characters without change.</p>



If the mail.mime.encodeeol.strict System property is set to "true", such an encoding will be used when necessary. The default is "false".

The attribute's admitted values are:

- **false**
- **true**

The attribute's value can't be null.

<b>base64-ignoreerrors</b>	optional	<p>If set to "true", the BASE64 decoder will ignore errors in the encoded data, returning EOF. This may be useful when dealing with improperly encoded messages that contain extraneous data at the end of the encoded stream. Note however that errors anywhere in the stream will cause the decoder to stop decoding so this should be used with extreme caution. The default is "false". This property is supported by Sun's implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>foldtext</b>	optional	<p>If set to "true", header fields containing just text such as the Subject and Content-Description header fields, and long parameter values in structured headers such as Content-Type will be folded (broken into 76 character lines) when set and unfolded when read. The default is "true". This property is supported by Sun's implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>setcontenttypefilename</b>	optional	<p>If set to "true", the setFileName method will also set the name parameter on the Content-Type header to the specified filename. This supports interoperability with some old mail clients. The default is "true". This property is supported by Sun's implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>

<b>setDefaulttextcharset</b>	optional	<p>When updating the headers of a message, a body part with a text content type but no charset parameter will have a charset parameter added to it if this property is set to "true". The default is "true".</p> <p>This property is supported by Sun's implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>multipart-ignoremissingendboundary</b>	optional	<p>When parsing a multipart MIME message, a message that is missing the final end boundary line is not considered as an error. The data simply ends at the end of the input. Note that messages of this form violate the MIME specification.</p> <p>If the property mail.mime.multipart.ignoremissingendboundary is set to "false", such messages are considered an error and a MessagingException will be thrown when parsing such a message.</p> <p>This property is supported by Sun Microsystems implementation of JavaMail, but is not currently a required part of the specification.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>

## min-pool-size

(#PCDATA)

The min-pool-size element indicates the minimum number of connections a pool should hold. These are not created until a Subject is known from a request for a connection. This default to 0.

The element value can't be null.

The **min-pool-size** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## mm7-decode-call

(Description?, ServiceAlias?)

Decode a MM7 multipart message.

The input message can be: - javax.mail.internet.MimeMessage - byte[] (RFC-2045 serialized mime message) - String (RFC-2045 serialized mime message) Returns the following properties: - X\_MMS\_MESSAGE\_CLASS - X\_MMS\_PRIORITY -

X\_MMS\_DELIVERY\_REPORT - X\_MMS\_READ\_REPLY - X\_MMS\_EXPIRY -  
X\_MMS\_SERVICE\_CODE - X\_MMS\_FROM - X\_MMS\_SUBJECT

#Icon: GVMM7DCall.png #Category: Custom

The **mm7-decode-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **mm7-decode-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.mm7.ericsson.DecodeMM7CallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## mm7-submit-call

(Description?, ServiceAlias?)

Submit a MM7 multipart message to a MMS-C server.

The input message can be: - javax.mail.internet.MimeMessage - byte[] (RFC-2045 serialized mime message) - String (RFC-2045 serialized mime message) The input properties can be:  
- MM7\_APPLICATION\_NAME : VAS ID - MM7\_APPLICATION\_PROVIDER\_NAME : VASP ID - MM7\_USER\_NAME : VAS user name - MM7\_PASSWORD : VAS user password (base64 encoded) Returns the following properties: - MM7\_MESSAGE\_ID - MM7\_STATUS\_CODE - MM7\_STATUS\_TEXT

Input properties can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateFormat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVMM7SCall.png #Category: Custom

The **mm7-submit-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **mm7-submit-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.mm7.ericsson.SubmitMM7CallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>applicationName</b>	required	The VAS application name.  The attribute's value can't be null.
<b>applicationProviderName</b>	required	The VAS application provider name.  The attribute's value can't be null.
<b>mmcURL</b>	required	The MMS-C URL.  The attribute's value can't be null.
<b>userName</b>	required	The VAS user.  The attribute's value can't be null.
<b>password</b>	required	The VAS user's password.  The attribute's value can't be null.

## ModuleProperty

(Description?)

Specific property form the module to engage.

For example the property 'org.apache.axis2.addressing.AddressingConstants.DISABLE\_OUTBOUND\_ADDRESSING\_VALIDATION' set to 'true' prevents a fault if SOAPAction is not set.

The **ModuleProperty** Element is used by: *EngageModule*.

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

Attribute	Type	Description
<b>name</b>	required	The attribute's value can't be null.
<b>value</b>	required	The attribute's value can't be null.
<b>type</b>	optional	<p>The attribute's default value is: <b>String</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>String</b></li> <li>• <b>Boolean</b></li> <li>• <b>Byte</b></li> <li>• <b>Short</b></li> <li>• <b>Int</b></li> <li>• <b>Long</b></li> <li>• <b>Float</b></li> <li>• <b>Double</b></li> </ul> <p>The attribute's value can't be null.</p>

## NameValueParam

EMPTY

The **NameValueParam** Element is used by: *GenericTransaction*.

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

Attribute	Type	Description
<b>name</b>	required	The attribute's value can't be null.
<b>value</b>	required	The attribute's value can't be null.

## new-connection-sql

(#PCDATA)

Specify an SQL statement to execute whenever a connection is added to the connection pool.

The element value can't be null.

The **new-connection-sql** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## no-tx-datasource

```
(jndi-name, use-java-context?, connection-url, driver-class, connection-property*,
user-name?, password?, (application-managed-security | security-domain | security-
domain-and-application)?, min-pool-size?, max-pool-size?, blocking-timeout-millis?,
idle-timeout-minutes?, new-connection-sql, check-valid-connection-sql, valid-
connection-checker-class-name, exception-sorter-class-name, track-statements,
prepared-statement-cache-size, depends*, type-mapping?)
```

Specify a jca-jdbc non-XADataSource (local) wrapper, using no transactions.

The **no-tx-datasource** Element is used by: *GVDataSources*.

## no-tx-separate-pools

(EMPTY)

Whether to use separate pools for connection retrieved in a transaction and those retrieved outside a transaction.

The **no-tx-separate-pools** Element is used by: *local-tx-datasource*, *xa-datasource*.

## NumberColumn

(Format)

Defines the configuration of the columns of type number in a sheet.

The **NumberColumn** Element is used by: *SheetConfig*.

## ObjectDataProvider

(Field+)

The **ObjectDataProvider** Element is used by: *DataProviders*.

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

Attribute	Type	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.ObjectDataProvider</b> .

## OGNLScript

(#PCDATA)

The content defines a OGNL script.

This script is applied to the current GVBuffer object.

Within a node ChangeGVBuffer is "injected" into the variable 'Environment', the current environment, ie a map containing all the GVBuffer / exceptions specified in the various parameters of input / output nodes of flow in execution.

#Icon: default.png

The element value can't be null.

The **OGNLScript** Element is used by: *ChangeGVBuffer*.

## openspcoop:accesso-registro

(openspcoop:cache?, openspcoop:registro+)

The **openspcoop:accesso-registro** Element is used by: *openspcoop:configurazione*.

## openspcoop:attachments

EMPTY

The **openspcoop:attachments** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:attachments**:

Attribute	Tyte	Description
openspcoop:gestione-manifest	optional	The attribute's default value is: <b>abilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>disabilitato</b></li><li>• <b>abilitato</b></li></ul>

## openspcoop:azione

EMPTY

The **openspcoop:azione** Element is used by: *openspcoop:porta-applicativa*, *openspcoop:porta-delegata*.

The following table show the element's attributes **openspcoop:azione**:

Attribute	Tyte	Description
openspcoop:identificazione	optional	The attribute's default value is: <b>static</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>static</b></li><li>• <b>urlBased</b></li><li>• <b>contentBased</b></li><li>• <b>inputBased</b></li></ul>
openspcoop:pattern	optional	
openspcoop:nome	optional	

## openspcoop:cache

EMPTY

The **openspcoop:cache** Element is used by: *openspcoop:accesso-registro*.

The following table show the element's attributes **openspcoop:cache**:

Attribute	Type	Description
<b>openspcoop:dimensione</b>	optional	
<b>openspcoop:algoritmo</b>	optional	The attribute's default value is: <b>lru</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>lru</b></li><li>• <b>mru</b></li></ul>
<b>openspcoop:item-idle-time</b>	optional	
<b>openspcoop:item-life-second</b>	optional	

## openspcoop:configurazione

(openspcoop:routing-table?, openspcoop:accesso-registro, openspcoop:validazione-buste-egov?, openspcoop:validazione-contenuti-applicativi?, openspcoop:indirizzo-telematico?, openspcoop:attachments?, openspcoop:risposte-spcoop?, openspcoop:inoltrato-buste-non-riscontrate, openspcoop:messaggi-diagnostici, openspcoop:tracciamento?, openspcoop:gestione-errore?, openspcoop:integration-manager?)

The **openspcoop:configurazione** Element is used by: *openspcoop:openspcoop*.

## openspcoop:connettore

(openspcoop:property\*)

The **openspcoop:connettore** Element is used by: *openspcoop:invocazione-servizio*, *openspcoop:risposta-asincrona*, *openspcoop:soggetto-spcoop*.

The following table show the element's attributes **openspcoop:connettore**:

Attribute	Type	Description
<b>openspcoop:tipo</b>	optional	
<b>openspcoop:nome</b>	required	

## openspcoop:correlazione-applicativa

(openspcoop:elemento+)

The **openspcoop:correlazione-applicativa** Element is used by: *openspcoop:porta-applicativa*, *openspcoop:porta-delegata*.



The following table show the element's attributes **openspcoop:correlazione-applicativa**:

Attribute	Tyte	Description
<b>openspcoop:scadenza</b>	optional	

## openspcoop:credenziali

EMPTY

The **openspcoop:credenziali** Element is used by: *openspcoop:invocazione-porta*, *openspcoop:invocazione-servizio*, *openspcoop:risposta-asincrona*.

The following table show the element's attributes **openspcoop:credenziali**:

Attribute	Tyte	Description
<b>openspcoop:tipo</b>	optional	The attribute's default value is: <b>ssl</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>basic</b></li><li>• <b>ssl</b></li></ul>
<b>openspcoop:user</b>	optional	
<b>openspcoop:password</b>	optional	
<b>openspcoop:subject</b>	optional	

## openspcoop:default

(openspcoop:route+)

The **openspcoop:default** Element is used by: *openspcoop:routing-table*.

## openspcoop:destinazione

(openspcoop:route+)

The **openspcoop:destinazione** Element is used by: *openspcoop:routing-table*.

The following table show the element's attributes **openspcoop:destinazione**:

Attribute	Tyte	Description
<b>openspcoop:tipo</b>	required	
<b>openspcoop:nome</b>	required	

## openspcoop:elemento

EMPTY

The **openspcoop:elemento** Element is used by: *openspcoop:correlazione-applicativa*.

The following table show the element's attributes **openspcoop:elemento**:

Attribute	Type	Description
<b>openspcoop:nome</b>	optional	
<b>openspcoop:identificazione</b>	optional	The attribute's default value is: <b>contentBased</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>urlBased</b></li><li>• <b>contentBased</b></li><li>• <b>inputBased</b></li><li>• <b>disabilitato</b></li></ul>
<b>openspcoop:pattern</b>	optional	
<b>openspcoop:identificazione-fallita</b>	optional	The attribute's default value is: <b>blocca</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>blocca</b></li><li>• <b>accetta</b></li></ul>
<b>openspcoop:riuso-id-egov</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>abilitato</b></li><li>• <b>disabilitato</b></li></ul>

## openspcoop:gateway

EMPTY

The **openspcoop:gateway** Element is used by: *openspcoop:route*.

The following table show the element's attributes **openspcoop:gateway**:

Attribute	Type	Description
<b>openspcoop:tipo</b>	required	
<b>openspcoop:nome</b>	required	

## openspcoop:gestione-errore

EMPTY

The **openspcoop:gestione-errore** Element is used by: *openspcoop:configurazione*, *openspcoop:invocazione-porta*, *openspcoop:invocazione-servizio*, *openspcoop:risposta-asincrona*.

The following table show the element's attributes **openspcoop:gestione-errore**:

Attribute	Type	Description
<b>openspcoop:fault</b>	optional	The attribute's default value is: <b>soap</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>soap</b></li> <li>• <b>xml</b></li> </ul>
<b>openspcoop:fault-actor</b>	optional	
<b>openspcoop:generic-fault-code</b>	optional	The attribute's default value is: <b>disabilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:prefix-fault-code</b>	optional	

## openspcoop:indirizzo-telematico

EMPTY

The **openspcoop:indirizzo-telematico** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:indirizzo-telematico**:

Attribute	Type	Description
<b>openspcoop:utilizzo</b>	optional	The attribute's default value is: <b>disabilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>disabilitato</b></li> <li>• <b>abilitato</b></li> </ul>

## openspcoop:inoltro-buste-non-riscontrate

EMPTY

The **openspcoop:inoltro-buste-non-riscontrate** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:inoltro-buste-non-riscontrate**:

Attribute	Type	Description
<b>openspcoop:cadenza</b>	required	

## openspcoop:integration-manager

EMPTY

The **openspcoop:integration-manager** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:integration-manager**:

Attribute	Tyte	Description
<b>openspcoop:autenticazione</b>	optional	The attribute's default value is: <b>basic,ssl</b> .

## openspcoop:invocazione-porta

(openspcoop:credenziali\*, openspcoop:gestione-errore?)

The **openspcoop:invocazione-porta** Element is used by: *openspcoop:servizio-applicativo*.

The following table show the element's attributes **openspcoop:invocazione-porta**:

Attribute	Tyte	Description
<b>openspcoop:invio-per-riferimento</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>abilitato</b></li><li>• <b>disabilitato</b></li></ul>

## openspcoop:invocazione-servizio

(openspcoop:credenziali?, openspcoop:connettore?, openspcoop:gestione-errore?)

The **openspcoop:invocazione-servizio** Element is used by: *openspcoop:servizio-applicativo*.

The following table show the element's attributes **openspcoop:invocazione-servizio**:

Attribute	Tyte	Description
<b>openspcoop:sbustamento-soap</b>	optional	The attribute's default value is: <b>false</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>
<b>openspcoop:get-message</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>abilitato</b></li><li>• <b>disabilitato</b></li></ul>
<b>openspcoop:autenticazione</b>	optional	The attribute's default value is: <b>none</b> . The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>basic</b></li><li>• <b>ssl</b></li><li>• <b>none</b></li></ul>
<b>openspcoop:invio-per-riferimento</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are:

		<ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:risposta-per-riferimento</b>	optional	<p>The attribute's default value is: <b>disabilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>

## openspcoop:messaggi-diagnostici

(openspcoop:openspcoop-appender\*)

The **openspcoop:messaggi-diagnostici** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:messaggi-diagnostici**:

Attribute	Type	Description
<b>openspcoop:spcoop</b>	optional	<p>The attribute's default value is: <b>infoSpcoop</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>off</b></li> <li>• <b>fatalOpenspcoop</b></li> <li>• <b>errorSpcoop</b></li> <li>• <b>errorOpenspcoop</b></li> <li>• <b>infoSpcoop</b></li> <li>• <b>infoOpenspcoop</b></li> <li>• <b>debugLow</b></li> <li>• <b>debugMedium</b></li> <li>• <b>debugHigh</b></li> <li>• <b>all</b></li> </ul>
<b>openspcoop:openspcoop</b>	optional	<p>The attribute's default value is: <b>infoSpcoop</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>off</b></li> <li>• <b>fatalOpenspcoop</b></li> <li>• <b>errorSpcoop</b></li> <li>• <b>errorOpenspcoop</b></li> <li>• <b>infoSpcoop</b></li> <li>• <b>infoOpenspcoop</b></li> <li>• <b>debugLow</b></li> <li>• <b>debugMedium</b></li> <li>• <b>debugHigh</b></li> <li>• <b>all</b></li> </ul>

## openspcoop:openspcoop

(openspcoop:soggetto-spcoop+, openspcoop:configurazione)

The **openspcoop:openspcoop** Element is used by: *GVAadapterOpenSpCoop*.

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

Attribute	Type	Description
<b>xmlns:openspcoop</b>	fixed	This attribute <i>must</i> assume the value <b>http://www.openspcoop.org/dao/config</b> .

## openspcoop:openspcoop-appender

(openspcoop:property\*)

The **openspcoop:openspcoop-appender** Element is used by: *openspcoop:messaggi-diagnostici*, *openspcoop:tracciamento*.

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

Attribute	Type	Description
<b>openspcoop:tipo</b>	required	

## openspcoop:parameter

EMPTY

Specify a constructor parameter.

The **openspcoop:parameter** Element is used by: *openspcoop:request-flow*, *openspcoop:response-flow*.

The following table show the element's attributes **openspcoop:parameter**:

Attribute	Type	Description
<b>openspcoop:nome</b>	required	
<b>openspcoop:valore</b>	required	

## openspcoop:porta-applicativa

(openspcoop:soggetto-virtuale?, openspcoop:servizio, openspcoop:azione?, openspcoop:servizio-applicativo+, openspcoop:set-spcoop-property\*, openspcoop:ws-security?, openspcoop:validazione-contenuti-applicativi?, openspcoop:correlazione-applicativa?)

The **openspcoop:porta-applicativa** Element is used by: *openspcoop:soggetto-spcoop*.

The following table show the element's attributes **openspcoop:porta-applicativa**:

Attribute	Type	Description
<b>openspcoop:nome</b>	required	
<b>openspcoop:descrizione</b>	optional	

<b>openspcoop:ricevuta-asincrona-simmetrica</b>	optional	The attribute's default value is: <b>abilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:ricevuta-asincrona-asimmetrica</b>	optional	The attribute's default value is: <b>abilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:integrazione</b>	optional	
<b>openspcoop:allegato-body</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:scarta-body</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:gestione-manifest</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:stateless</b>	optional	The attribute's default value is: <b>abilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:autorizzazione-contenuto</b>	optional	

## openspcoop:porta-delegata

(openspcoop:soggetto-spcoop-erogatore, openspcoop:servizio, openspcoop:azione?, openspcoop:servizio-applicativo\*, openspcoop:ws-security?, openspcoop:validazione-contenuti-applicativi?, openspcoop:correlazione-applicativa?)

The **openspcoop:porta-delegata** Element is used by: *openspcoop:soggetto-spcoop*.

The following table show the element's attributes **openspcoop:porta-delegata**:

Attribute	Type	Description
<b>openspcoop:nome</b>	required	
<b>openspcoop:descrizione</b>	optional	
<b>openspcoop:location</b>	optional	
<b>openspcoop:autenticazione</b>	optional	The attribute's default value is: <b>ssl</b> .
<b>openspcoop:autorizzazione</b>	optional	The attribute's default value is: <b>openspcoop</b> .

<b>openspcoop:autorizzazione</b>	optional	contenuto
<b>openspcoop:ricevuta-asincrona-simmetrica</b>	optional	<p>The attribute's default value is: <b>abilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:ricevuta-asincrona-asimmetrica</b>	optional	<p>The attribute's default value is: <b>abilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:integrazione</b>	optional	
<b>openspcoop:allegato-body</b>	optional	<p>The attribute's default value is: <b>disabilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:scarta-body</b>	optional	<p>The attribute's default value is: <b>disabilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:gestione-manifest</b>	optional	<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:stateless</b>	optional	<p>The attribute's default value is: <b>abilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>

## openspcoop:property

EMPTY

The **openspcoop:property** Element is used by: *openspcoop:connettore*, *openspcoop:openspcoop-appender*.

The following table show the element's attributes **openspcoop:property**:

Attribute	Type	Description
<b>openspcoop:nome</b>	required	
<b>openspcoop:valore</b>	required	

## openspcoop:registro

EMPTY



The **openspcoop:registro** Element is used by: *openspcoop:accesso-registro*, *openspcoop:route*.

The following table show the element's attributes **openspcoop:registro**:

Attribute	Type	Description
<b>openspcoop:nome</b>	optional	

## openspcoop:request-flow

(openspcoop:parameter+)

request-flow.

The **openspcoop:request-flow** Element is used by: *openspcoop:ws-security*.

## openspcoop:response-flow

(openspcoop:parameter+)

The **openspcoop:response-flow** Element is used by: *openspcoop:ws-security*.

## openspcoop:risposta-asincrona

(openspcoop:credenziali?, openspcoop:connettore?, openspcoop:gestione-errore?)

The **openspcoop:risposta-asincrona** Element is used by: *openspcoop:servizio-applicativo*.

The following table show the element's attributes **openspcoop:risposta-asincrona**:

Attribute	Type	Description
<b>openspcoop:sbustamento-soap</b>	optional	The attribute's default value is: <b>false</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> <li><b>false</b></li> </ul>
<b>openspcoop:get-message</b>	optional	The attribute's default value is: <b>disabilitato</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>abilitato</b></li> <li><b>disabilitato</b></li> </ul>
<b>openspcoop:autenticazione</b>	optional	The attribute's default value is: <b>none</b> . The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>basic</b></li> <li><b>ssl</b></li> <li><b>none</b></li> </ul>
<b>openspcoop:invio-per-riferimento</b>	optional	The attribute's default value is: <b>disabilitato</b> .

		The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>
<b>openspcoop:risposta-per-riferimento</b>	optional	The attribute's default value is: <b>disabilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>

## openspcoop:risposte-spcoop

EMPTY

The **openspcoop:risposte-spcoop** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:risposte-spcoop**:

Attribute	Type	Description
<b>openspcoop:connessione</b>	optional	The attribute's default value is: <b>reply</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>new</b></li> <li>• <b>reply</b></li> </ul>

## openspcoop:route

(openspcoop:registro\* | openspcoop:gateway\*)

The **openspcoop:route** Element is used by: *openspcoop:default*, *openspcoop:destinazione*.

## openspcoop:routing-table

(openspcoop:destinazione\*, openspcoop:default)

The **openspcoop:routing-table** Element is used by: *openspcoop:configurazione*.

## openspcoop:servizio

EMPTY

The **openspcoop:servizio** Element is used by: *openspcoop:porta-applicativa*, *openspcoop:porta-delegata*.

The following table show the element's attributes **openspcoop:servizio**:

Attribute	Type	Description
<b>openspcoop:identificazione</b>	optional	The attribute's default value is: <b>static</b> .

The attribute's admitted values are:

- **static**
- **urlBased**
- **contentBased**
- **inputBased**

<b>openspcoop:pattern</b>	optional
<b>openspcoop:tipo</b>	required
<b>openspcoop:nome</b>	optional

## openspcoop:servizio-applicativo

(openspcoop:invocazione-porta?, openspcoop:invocazione-servizio?,  
openspcoop:risposta-asincrona?)

The **openspcoop:servizio-applicativo** Element is used by: *openspcoop:porta-applicativa*, *openspcoop:porta-delegata*, *openspcoop:soggetto-spcoop*.

The following table show the element's attributes **openspcoop:servizio-applicativo**:

Attribute	Type	Description
<b>openspcoop:nome</b>	required	
<b>openspcoop:descrizione</b>	optional	

## openspcoop:set-spcoop-property

EMPTY

The **openspcoop:set-spcoop-property** Element is used by: *openspcoop:porta-applicativa*.

The following table show the element's attributes **openspcoop:set-spcoop-property**:

Attribute	Type	Description
<b>openspcoop:nome</b>	required	
<b>openspcoop:valore</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>mittente</b></li><li>• <b>tipoMittente</b></li><li>• <b>destinatario</b></li><li>• <b>tipoDestinatario</b></li><li>• <b>servizio</b></li><li>• <b>tipoServizio</b></li><li>• <b>azione</b></li><li>• <b>idegov</b></li></ul>

## openspcoop:soggetto-spcoop

(openspcoop:porta-delegata\*, openspcoop:porta-applicativa\*, openspcoop:servizio-applicativo\*, openspcoop:connettore\*)

The **openspcoop:soggetto-spcoop** Element is used by: *openspcoop:openspcoop*.

The following table show the element's attributes **openspcoop:soggetto-spcoop**:

Attribute	Type	Description
<b>openspcoop:tipo</b>	required	
<b>openspcoop:nome</b>	required	
<b>openspcoop:identificativo-porta</b>	optional	
<b>openspcoop:descrizione</b>	optional	
<b>openspcoop:router</b>	optional	The attribute's default value is: <b>false</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

## openspcoop:soggetto-spcoop-erogatore

EMPTY

The **openspcoop:soggetto-spcoop-erogatore** Element is used by: *openspcoop:porta-delegata*.

The following table show the element's attributes **openspcoop:soggetto-spcoop-erogatore**:

Attribute	Type	Description
<b>openspcoop:identificazione</b>	optional	The attribute's default value is: <b>static</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>static</b></li> <li>• <b>urlBased</b></li> <li>• <b>contentBased</b></li> <li>• <b>inputBased</b></li> </ul>
<b>openspcoop:pattern</b>	optional	
<b>openspcoop:tipo</b>	required	
<b>openspcoop:nome</b>	optional	

## openspcoop:soggetto-virtuale

EMPTY

The **openspcoop:soggetto-virtuale** Element is used by: *openspcoop:porta-applicativa*.

The following table show the element's attributes **openspcoop:soggetto-virtuale**:

Attribute	Type	Description
<b>openspcoop:tipo</b>	required	
<b>openspcoop:nome</b>	required	

## openspcoop:tracciamento

(openspcoop:openspcoop-appender\*)

The **openspcoop:tracciamento** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:tracciamento**:

Attribute	Type	Description
<b>openspcoop:buste-egov</b>	optional	The attribute's default value is: <b>abilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>disabilitato</b></li> <li>• <b>abilitato</b></li> </ul>
<b>openspcoop:dump</b>	optional	The attribute's default value is: <b>disabilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>

## openspcoop:validazione-buste-egov

EMPTY

The **openspcoop:validazione-buste-egov** Element is used by: *openspcoop:configurazione*.

The following table show the element's attributes **openspcoop:validazione-buste-egov**:

Attribute	Type	Description
<b>openspcoop:stato</b>	optional	The attribute's default value is: <b>abilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> <li>• <b>warningOnly</b></li> </ul>
<b>openspcoop:controllo</b>	optional	The attribute's default value is: <b>normale</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>normale</b></li> <li>• <b>rigido</b></li> </ul>
<b>openspcoop:profiloCollaborazione</b>	optional	The attribute's default value is: <b>disabilitato</b> .  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>abilitato</b></li> <li>• <b>disabilitato</b></li> </ul>

**openspcoop:manifestAttachments**

The attribute's default value is: **abilitato**.

The attribute's admitted values are:

- **abilitato**
- **disabilitato**

## openspcoop:validazione-contenuti-applicativi

EMPTY

The **openspcoop:validazione-contenuti-applicativi** Element is used by: *openspcoop:configurazione*, *openspcoop:porta-applicativa*, *openspcoop:porta-delegata*.

The following table show the element's attributes **openspcoop:validazione-contenuti-applicativi**:

Attribute	Tyte	Description
<b>openspcoop:stato</b>	optional	<p>The attribute's default value is: <b>disabilitato</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>abilitato</b></li><li>• <b>disabilitato</b></li><li>• <b>warningOnly</b></li></ul>
<b>openspcoop:tipo</b>	optional	<p>The attribute's default value is: <b>xsd</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>wsdl</b></li><li>• <b>openspcoop</b></li><li>• <b>xsd</b></li></ul>

## openspcoop:ws-security

(openspcoop:request-flow?, openspcoop:response-flow?)

The **openspcoop:ws-security** Element is used by: *openspcoop:porta-applicativa*, *openspcoop:porta-delegata*.

## openspcoop-call

(Description?)

OPENSPCOOP plugin.

#Icon: GVopenspcoopCall.png #Category: Custom

The **openspcoop-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **openspcoop-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.openspcoop.OpenSpCoopCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>locationPD</b>	required	locationPD openspcoop.
<b>username</b>	required	username openspcoop.
<b>password</b>	required	password openspcoop.
<b>url</b>	required	url openspcoop.
<b>comando</b>	required	Operazione di openspcoop da invocare.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>deleteAllMessages</b></li> <li>• <b>deleteMessage</b></li> <li>• <b>deleteMessageByReference</b></li> <li>• <b>getAllMessagesId</b></li> <li>• <b>getAllMessagesIdByService</b></li> <li>• <b>getMessage</b></li> <li>• <b>getMessageByReference</b></li> <li>• <b>getNextMessagesId</b></li> <li>• <b>getNextMessagesIdByService</b></li> <li>• <b>invocazionePortaDelegata</b></li> <li>• <b>invocazionePortaDelegataPerRiferimento</b></li> <li>• <b>sendRichiestaStatoAsincronaAsimmetrica</b></li> <li>• <b>sendRispostaAsincronaSimmetrica</b></li> </ul>
<b>tipoDestinatario</b>	required	tipoDestinatario openspcoop.
<b>destinatario</b>	required	tipoDestinatario openspcoop.  destinatario openspcoop.
<b>tipoServizio</b>	required	tipoServizio openspcoop.
<b>servizio</b>	required	servizio openspcoop.
<b>azione</b>	required	azione openspcoop.
<b>idCorrelazioneApplicativa</b>	optional	idCorrelazioneApplicativa openspcoop.  This idCorrelazioneApplicativa can be static or may contain placeholders that are replaced at runtime.  Can contains the following placeholders: 1 - fixed : a text string; 2 - <code>\${propname}</code> : a System property name; 3 - <code>sp{propname}</code> : a System property name;

4 - @{{propname}} : a inProperties property name; 5 - timestamp{{pattern}} : return the current timestamp formatted as 'pattern' 6 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{{scope::script}} : evaluate a JavaScript script, using the scope 'scope' 10 - 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 11 - sqllist{{conn::sep::statement}} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list. The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - ognl{{script}} : evaluate a OGNL script

If this attribute is not present, the command is executed within the current working directory.

The attribute's value can't be null.

<b>nomeServizioApplicativo</b>	optional	nomeServizioApplicativo openspcoop.
<b>riferimentoMessaggio</b>	optional	riferimentoMessaggio openspcoop.
<b>idMessaggio</b>	optional	idMessaggio openspcoop.

This idMessaggio can be static or may contain placeholders that are replaced at runtime.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${{{propname}}} : a System property name; 3 - sp{{propname}} : a System property name; 4 - @{{propname}} : a inProperties property name; 5 - timestamp{{pattern}} : return the current timestamp formatted as 'pattern' 6 - dateformat{{date::source-pattern::dest-pattern}} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{{scope::script}} : evaluate a JavaScript script, using the scope 'scope' 10 - 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 11 - sqllist{{conn::sep::statement}} : execute a select sql



statement sql and return the value of the first field of all selected records as a 'sep' separated list.  
The 'conn' parameter is the JNDI name of a DataSource  
The 'sep' parameter defaults to comma 12 - ognl{{script}} :  
evaluate a OGNL script

If this attribute is not present, the command is executed within the current working directory.

The attribute's value can't be null.

<b>counter</b>	optional	counter openspcoop.
<b>offset</b>	optional	offset openspcoop.
<b>imbustamento</b>	optional	imbustamento openspcoop.

## OperationDetails

(Description?)

Specific operation detail.

The **OperationDetails** Element is used by: *ConnectorService*.

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

Attribute	Tyte	Description
<b>id-operation</b>	required	Operation id.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>Request</b></li> <li>• <b>RequestReply</b></li> <li>• <b>GetReply</b></li> <li>• <b>GetRequest</b></li> <li>• <b>SendReply</b></li> <li>• <b>ReceiveMessage</b></li> <li>• <b>SendMessage</b></li> </ul>
<b>id-extension</b>	optional	Extension applied to the invocation of the operation.

## Option

(Description?)

Option to pass to render.

The **Option** Element is used by: *Options*.

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

Attribute	Tyte	Description
<b>name</b>	required	Name of option.  The attribute's value can't be null.

<b>value</b>	optional	Value of option.
--------------	----------	------------------

## Options

(Description?, Option\*)

Options to pass to renderers.

#SortChild

The **Options** Element is used by: *ExcelReportRender*, *HTMLReportRender*, *PDFReportRender*.

## Param

(Description?)

This element defines the parameter to be solved according to an XPath expression applied to the body of GVBuffer.

#Icon: default.png

The **Param** Element is used by: *XPathParamResolver*.

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

Attribute	Tyte	Description
<b>XPath</b>	required	This attribute defines the XPath applied to the body of GVBuffer.  The attribute's value can't be null.
<b>position</b>	required	This attribute defines the position parameter has in the statement.  The attribute's value can't be null.
<b>type</b>	required	This attribute defines the type of the parameter.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>string</b></li> <li>• <b>int</b></li> <li>• <b>long</b></li> <li>• <b>float</b></li> <li>• <b>date</b></li> <li>• <b>binary</b></li> <li>• <b>blob</b></li> <li>• <b>clob</b></li> </ul>
<b>format</b>	optional	This attribute lets you configure the date format in the event that has been defined type = 'date'.  The attribute's value can't be null.

## parameter

(Description?)

Specify a constructor parameter.

The **parameter** Element is used by: *spec-constructor*.

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

Attribute	Tyte	Description
<b>type</b>	required	Parameter type. Only supports simple types.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>byte</b></li><li>• <b>boolean</b></li><li>• <b>char</b></li><li>• <b>double</b></li><li>• <b>float</b></li><li>• <b>int</b></li><li>• <b>long</b></li><li>• <b>short</b></li><li>• <b>String</b></li></ul>
<b>value</b>	required	Parameter value.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>

## Parameter

(Description?, (StringSource | FixedSource | DHSource?))

The **Parameter** Element is used by: *Parameters*.

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

Attribute	Tyte	Description
<b>name</b>	required	Parameter name.  The attribute's value can't be null.
<b>label</b>	optional	The attribute's value can't be null.
<b>format</b>	optional	The attribute's value can't be null.
<b>expression</b>	optional	The attribute's value can't be null.
<b>default-value</b>	optional	The attribute's value can't be null.
<b>control-type</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>TEXT</b></li><li>• <b>SELECT</b></li><li>• <b>RADIO</b></li><li>• <b>CHECK</b></li></ul>

The attribute's value can't be null.

## Parameters

(Description?, Parameter\*)

#SortChild

The **Parameters** Element is used by: *Report*.

## param-gvbuffer

(Description?, property\*)

This feature allows you to set some fields GVBuffer output with the output values of the EIS.

Can only be used if the output of the EIS is in XML format.

The **param-gvbuffer** Element is used by: *j2ee-jca-call*.

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

Attribute	Typte	Description
<b>xpath-retCode</b>	optional	Specifies an XPath expression to be applied to EIS output XML to select the return code set in the output GVBuffer.  The attribute's value can't be null.

## ParamJbpm

(Description?)

The **ParamJbpm** Element is used by: *ParamsJbpm*.

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

Attribute	Typte	Description
<b>name</b>	required	Parameter name.
<b>expression</b>	required	ognl expression.

## ParamResolver

(Description?, (XPathParamResolver | GVBufferParamResolver))

This element represents the type of a resolver to use to solve the parameters included in the statement.

#Icon: default.png

The **ParamResolver** Element is used by: *ParamResolvers*.

## ParamResolvers

(ParamResolver+)

This element contains the list of Resolver used to resolve the parameters included in the statement.

Resolvers are applied in sequence, the order of definition, and can be of different types.

#Icon: default.png

The **ParamResolvers** Element is used by: *Statement*.

## ParamsJbpm

(ParamJbpm\*, Description?)

The **ParamsJbpm** Element is used by: *jbpm-call*.

## ParamsTask

(Description?)

The **ParamsTask** Element is used by: *jbpm-task-call*.

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

Attribute	Tyte	Description
name	required	Parameter name.
expression	required	ognl expression.

## password

(#PCDATA)

Specify the default password used when creating a new connection.

The element value can't be null.

The **password** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## PasswordCallback

(Description?, PwCbBasicHandler?)

The **PasswordCallback** Element is used by: *AxisExtra*.

## PDFReportRender

(Description?, Options?)

The **PDFReportRender** Element is used by: *Renders*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>report-render</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.birt.report.internal.PDFReportRenderOptions</b> .

## PolicyData

(#PCDATA)

This element is an XML that describes the policies for a specific.

Currently it is used only for the WS-Security implemented by the module 'rampart'.

Below is an example of policy to be included on the module 'rampart':

```
<wsp:Policy wsu:Id="UTOverTransport" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:TransportToken>
            <wsp:Policy>
              <sp:HttpsToken RequireClientCertificate="false"/>
            </wsp:Policy>
          </sp:TransportToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256/>
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Lax/>
            </wsp:Policy>
          </sp:Layout>
          <sp:IncludeTimestamp/>
        </wsp:Policy>
      </sp:TransportBinding>
      <sp:SignedSupportingTokens xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:UsernameToken sp:IncludeToken="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy/IncludeToken/AlwaysToRecipient" />
        </wsp:Policy>
      </sp:SignedSupportingTokens>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
```

The **PolicyData** Element is used by: *EngageModule*, *WSOperation*.

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

Attribute	Type	Description
<b>policy_key</b>	required	<p>Defines the key to set the policy for the service invocation.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li><b>rampartPolicy</b></li> </ul> <p>The attribute's value can't be null.</p>

## PoolParameters

(Description?, validationQuery?)

Apache DBCP Pool parameters.

All times are in seconds.

The **PoolParameters** Element is used by: *DriverPoolConnectionBuilder*.

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

Attribute	Type	Description
<b>minIdle</b>	optional	<p>Controls the maximum number of objects that can sit idle in the pool at any time.</p> <p>When negative, there is no limit to the number of objects that may be idle at one time.</p> <p>The default setting for this parameter is 5.</p> <p>The attribute's value can't be null.</p>
<b>maxIdle</b>	optional	<p>Controls the maximum number of objects that can sit idle in the pool at any time.</p> <p>When negative, there is no limit to the number of objects that may be idle at one time.</p> <p>The default setting for this parameter is 10.</p> <p>The attribute's value can't be null.</p>
<b>maxActive</b>	optional	<p>Controls the maximum number of objects that can be allocated by the pool (checked out to clients, or idle awaiting checkout) at a given time.</p> <p>When non-positive, there is no limit to the number of objects that can be managed by the pool at one time.</p> <p>When maxActive is reached, the pool is said to be exhausted.</p> <p>The default setting for this parameter is 15.</p> <p>The attribute's value can't be null.</p>
<b>timeBetweenEvictionRuns</b>	optional	<p>Indicates how long the eviction thread should sleep before "runs" of examining idle objects.</p> <p>When non-positive, no eviction thread will be launched.</p> <p>The default setting for this parameter is 300 seconds (i.e., 5 minutes).</p> <p>The attribute's value can't be null.</p>

<b>minEvictableIdleTime</b>	optional	<p>Specifies the minimum amount of time that an object may sit idle in the pool before it is eligible for eviction due to idle time.</p> <p>When non-positive, no object will be dropped from the pool due to idle time alone.</p> <p>This setting has no effect unless <code>timeBetweenEvictionRuns &gt; 0</code>.</p> <p>The default setting for this parameter is 300 seconds (i.e., 5 minutes).</p> <p>The attribute's value can't be null.</p>
<b>numTestsPerEvictionRun</b>	optional	<p>Determines the number of objects examined in each run of the idle object evictor.</p> <p>This setting has no effect unless <code>timeBetweenEvictionRuns &gt; 0</code>.</p> <p>The default setting for this parameter is 3.</p> <p>The attribute's value can't be null.</p>

## pop3

(Description?)

POP3 configuration parameters.

The **pop3** Element is used by: *mail-service*.

The following table show the element's attributes **pop3**:

Attribute	Type	Description
<b>host</b>	optional	<p>The POP3 server to connect to.</p> <p>The attribute's value can't be null.</p>
<b>port</b>	optional	<p>The POP3 server port to connect to, if the <code>connect()</code> method doesn't explicitly specify one.</p> <p>Default is 110.</p> <p>The attribute's value can't be null.</p>
<b>connectiontimeout</b>	optional	<p>Socket connection timeout value in milliseconds.</p> <p>The Default is an infinite timeout.</p> <p>The attribute's value can't be null.</p>
<b>timeout</b>	optional	<p>Socket I/O timeout value in milliseconds.</p> <p>The Default is an infinite timeout.</p> <p>The attribute's value can't be null.</p>
<b>rsetbeforequit</b>	optional	<p>Send a POP3 RSET command when closing the folder, before sending the QUIT command.</p> <p>Useful with POP3 servers that implicitly mark all messages that are read as "deleted"; this will prevent such messages from being deleted and expunged unless the client requests so.</p> <p>Default is "false".</p>



		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>message-class</b>	optional	<p>Class name of a subclass of <code>com.sun.mail.pop3.POP3Message</code>. The subclass can be used to handle a non-standard Content-Type headers. The subclass must have a public constructor of the form <code>MyPOP3Message(Folder f, int msgno)</code> throws <code>MessagingException</code>.</p> <p>The attribute's value can't be null.</p>
<b>localaddress</b>	optional	<p>Local address (Hostname) to bind to when creating the POP3 socket. Defaults to the address picked by the <code>Socket</code> class. No need to be set, but useful with multi-homed hosts where it's important to pick a specific local address to bind to.</p> <p>The attribute's value can't be null.</p>
<b>localport</b>	optional	<p>Local port number to bind to when creating the POP3 socket. Defaults to the port number picked by the <code>Socket</code> class.</p> <p>The attribute's value can't be null.</p>
<b>apop-enable</b>	optional	<p>If set to "true", use APOP instead of USER/PASS to login to the POP3 server, if the POP3 server supports APOP. APOP sends a digest of the password rather than the clear text password. Default is "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>socketFactory-class</b>	optional	<p>If set, specifies the name of a class that implements the <code>javax.net.SocketFactory</code> interface. This class will be used to create POP3 sockets.</p> <p>The attribute's value can't be null.</p>
<b>socketFactory-fallback</b>	optional	<p>If set to "true", an error creating a socket using the specified socket factory class will cause the socket to be created using the <code>java.net.Socket</code> class. Default is "true".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>socketFactory-port</b>	optional	<p>Specifies the port to connect to when using the specified socket factory. If not set, the default port will be used.</p>

The attribute's value can't be null.

## pop-call

(Description?, JNDIHelper?, mail-properties?)

Plugin for receiving emails.

#Icon: GVPopCall.png #Category: Web/Mail

The **pop-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **pop-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.pop.POPCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>jndi-name</b>	required	JNDI name of the mail Session configured in teh application server.  The attribute's value can't be null.
<b>override-protocol-host</b>	optional	Corresponds to the property mail.protocol.host and overwrites the value of property mail.host specified in the configuration of the mail Session.  The attribute's value can't be null.
<b>override-protocol-user</b>	optional	Corresponds to the property mail.protocol.user and overwrites the value of property mail.user specified in the configuration of the mail Session.  The attribute's value can't be null.
<b>delete-messages</b>	optional	Mark a processed message as DELETED. Default false.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>expunge</b>	optional	Expunge (permanently remove) messages marked DELETED.

Default false.

The attribute's admitted values are:

- **true**
- **false**

The attribute's value can't be null.

---

<b>email-rx-cleaner</b>	optional	RegExp pattern for email address cleaning. Default "[A-z][A-z0-9_]*([.][A-z0-9_]+)*[.][A-z0-9_]+([.][A-z0-9_]+)*[.][A-z]{2,4}".
-------------------------	----------	--

---

The attribute's value can't be null.

---

## prepared-statement-cache-size

(#PCDATA)

The number of prepared statements per connection in an LRU cache.

The element value can't be null.

The **prepared-statement-cache-size** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## prep-statement

(#PCDATA)

Preparation statement for Excel report generation.

Are executed after the report statement.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${{propname}}` : a System property name; 3 - `sp{{propname}}` : a System property name; 4 - `@{{propname}}` : a inProperties property name; 5 - `timestamp{{pattern}}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{{date::source-pattern::dest-pattern}}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{{scope::script}}` : evaluate a JavaScript script, using the scope 'scope' 10 - `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, if not defined is used the current connection 11 - `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, if not defined is used the current connection 12 - `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 13 - `ognl{{script}}` : evaluate a OGNL script

The **prep-statement** Element is used by: *Sheet*.

The following table show the element's attributes **prep-statement**:

Attribute	Tyte	Description
<b>type</b>	required	<p>Must be:</p> <p>Excel Sheet : insert update callsp</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>select</b></li> <li>• <b>insert</b></li> <li>• <b>update</b></li> <li>• <b>callsp</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>id</b>	optional	The attribute's value can't be null.

## Properties

(connectionFactory?, connectionProperty\*, Description?)

List of the properties needed to access the UDDI server.

The **Properties** Element is used by: *JAXMLRegistry*.

## property

(Description?)

Specifies an XPath expression to be applied to EIS output XML to select the value of a property to set in the output GVBuffer.

The **property** Element is used by: *param-gvbuffer*.

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

Attribute	Tyte	Description
<b>name</b>	required	<p>Name of property to set on output GVBuffer.</p> <p>The attribute's value can't be null.</p>
<b>xpath</b>	required	<p>Specifies an XPath expression to be applied to EIS output XML to select the value of a property to set in the output GVBuffer.</p> <p>The attribute's value can't be null.</p>
<b>default</b>	optional	<p>Specifies a default value to use in case the XPath does not select any value.</p> <p>If not specified, if the XPath does not identify any value, the field will not be set.</p>

## Property

(Description?, RangeDef\*)

This element verifies that a property takes a certain value.

The attribute 'value' and the elements RangeDef can not be defined together.

If the attribute 'value' and the RangeDef elements are not specified is only tested for the presence of the property.

The **Property** Element is used by: *GVBufferCondition*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>gvbuffer-field</b> .
<b>name</b>	required	This attribute defines the name of the property to check.  The attribute's value can't be null.
<b>value-type</b>	optional	This attribute defines the type of expected value.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>text</b></li><li>• <b>integer</b></li></ul> The attribute's value can't be null.
<b>value</b>	optional	This attribute defines the expected value.
<b>operator</b>	optional	This attribute defines the type of operator to use.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>equal</b></li><li>• <b>lesser</b></li><li>• <b>lesser-equal</b></li><li>• <b>greater</b></li><li>• <b>greater-equal</b></li><li>• <b>different</b></li></ul> The attribute's value can't be null.
<b>group</b>	optional	This attribute defines the set of fields to check in AND.  The attribute's value can't be null.

## PropertyCompare

(Description?)

This element compares the value of two properties.

#CompositeLabel: ||@name-a|<==>|@name-b

The **PropertyCompare** Element is used by: *GVBufferCondition*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>gvbuffer-field</b> .
<b>name-a</b>	required	This attribute defines the name of the first property to check.  The attribute's value can't be null.
<b>name-b</b>	required	This attribute defines the name of the second property to check.  The attribute's value can't be null.
<b>value-type</b>	optional	This attribute defines the type of expected value.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>text</b></li> <li>• <b>integer</b></li> </ul> The attribute's value can't be null.
<b>operator</b>	optional	This attribute defines the type of operator to use.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>equal</b></li> <li>• <b>lesser</b></li> <li>• <b>lesser-equal</b></li> <li>• <b>greater</b></li> <li>• <b>greater-equal</b></li> <li>• <b>different</b></li> </ul> The attribute's value can't be null.
<b>group</b>	optional	This attribute defines the set of fields to check in AND.  The attribute's value can't be null.

## PropertyDef

(Description)?

Defines a property to set in GVBuffer.

Is used in 'ChangeGVBuffer' and 'SavePoint'.

The **PropertyDef** Element is used by: *ChangeGVBuffer*.

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

Attribute	Tyte	Description
<b>name</b>	required	Property name.  The attribute's value can't be null.
<b>value</b>	required	Property value. Can contains the following metadata: 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 GVBuffer 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::sep::statement}} : execute a select sql  
 statement sql and return the value of the first field of all  
 selected records as a 'sep' separated list.  
 The 'conn' parameter is the JNDI name of a  
 DataSource The 'sep' parameter defaults to comma 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 GVBuffer  
 is added to the context as 'object' (and is also the object on  
 which execute the script)

<b>overwrite-body</b>	optional	<p>If "yes" the GVBuffer body is overwritten with the GVBuffer's property value or with the current property value, or is set to null.</p> <p>The body overwrite is execute prior of 'compress', 'crypto' o 'base64' operations.</p> <p>WARNING!!!!!! The 'clear-data' operation is still performed invalidating the body overwriting.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>yes</b></li> <li>• <b>no</b></li> </ul>
-----------------------	----------	--

## Property-Field

(Description?)

Additional parameters.

The **Property-Field** Element is used by: *DTEExtension*.

The following table show the element's attributes **Property-Field**:

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>value</b>	required	

## Proxy

(Description?)

Proxy configuration.

The **Proxy** Element is used by: *endpoint*, *UDDI*, *ws-call*.

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

Attribute	Tyte	Description
<b>host</b>	required	Proxy server IP or name. The attribute's value can't be null.
<b>port</b>	optional	Proxy server port. Default: 80 The attribute's value can't be null.
<b>user</b>	optional	User name. The attribute's value can't be null.
<b>password</b>	optional	User password. #Encrypted The attribute's value can't be null.

## PwCbBasicHandler

(Description?, UserDef\*)

The **PwCbBasicHandler** Element is used by: *PasswordCallback*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>pwcb</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.ws.rampart.policy.pwcb.PwCbBasicHandler</b> .



## QueryFormatter

(Description?, (QueryXMLBaseFormatter))

This element represents the formatter of an SQL query.

#Icon: default.png

The **QueryFormatter** Element is used by: *ResultSet*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>formatter</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.formatter.QueryFormatter</b> .
<b>success</b>	required	This attribute defines the return value from SQL query execution if successfully completed.  The attribute's value can't be null.
<b>failure</b>	required	The attribute defines the return value from SQL query if the execution ended with error.  The attribute's value can't be null.

## QueryXMLBaseFormatter

(Description?)

This element defines the formatter of an SQL query based on XML.

#Icon: default.png

The **QueryXMLBaseFormatter** Element is used by: *QueryFormatter*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>base_formatter</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.formatter.base.QueryXMLBaseFormatter</b> .

<b>encoding</b>	optional	<p>This element defines the encoding to use for the XML document that wraps the query result.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>US-ASCII</b></li> <li>• <b>ISO-8859-1</b></li> <li>• <b>ISO-8859-15</b></li> <li>• <b>ISO-LATIN-1</b></li> <li>• <b>UTF-8</b></li> <li>• <b>UTF-16BE</b></li> <li>• <b>UTF-16LE</b></li> <li>• <b>UTF-16</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>stylesheet</b>	optional	<p>This element defines the stylesheet to use for the XML document that wraps the query result.</p> <p>The attribute's value can't be null.</p>
<b>structure</b>	optional	<p>This element defines the structure of the XML document that wraps the query result.</p> <ul style="list-style-type: none"> <li>• <b>ONLY_DATA</b> Inserts the XML document only the output of the query.</li> <li>• <b>METADATA_AND_DATA</b> Inserts the XML document the query output, plus some information about DB objects (table, fields)</li> </ul> <p>The attribute's default value is: <b>METADATA_AND_DATA</b>.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>ONLY_DATA</b></li> <li>• <b>METADATA_AND_DATA</b></li> </ul>

## RangeDef

(Description)?

This element specifies a range of values.

The **RangeDef** Element is used by: *Property*, *RetCodeField*.

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

Attribute	Tyte	Description
<b>min</b>	optional	<p>This attribute defines the minimum value of the range. If not specified, assumes 'the minimum allowable value'.</p> <p>The attribute's value can't be null.</p>
<b>max</b>	optional	<p>This attribute defines the maximum value of the range. If not specified, assumes 'the maximum allowable value'.</p> <p>The attribute's value can't be null.</p>

## RemoteCommands

(RemoteSearchCommand | RemoteMoveCommand | RemoteDeleteCommand | RemoteDownloadCommand | RemoteUploadCommand)+

The sequence of FTP operations to be carried out.

The operations will be performed in the order they were configured.

An error in one of the operation marked as critical will terminate the execution of the entire sequence of operations.

The **RemoteCommands** Element is used by: *remotemanager-call*.

## RemoteDeleteCommand

(Description?)

Deleting a file/directory.

Both the file name and the directory can be static or contain placeholders that are replaced at runtime.

After the replacement of the placeholder, the value of the 'filename' may contain a regular expression, in which case, will erase all files in the specified directory whose name is consistent with the corresponding pattern.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **RemoteDeleteCommand** Element is used by: *RemoteCommands*.

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

Attribute	Tyte	Description
type	fixed	Unmodifiable.

		Used by GreenVulcanoESB factory framework.
		This attribute <i>must</i> assume the value <b>remote-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.
		This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.remote.command.GVDelete</b> .
<b>targetPath</b>	required	Absolute path of the file/directory to remove.  The attribute's value can't be null.
<b>filePattern</b>	optional	File name to remove. Can be a regular expression. Is used only if targetPath is a directory, and if empty the filter is ignored.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> The attribute's value can't be null.

## RemoteDownloadCommand

(Description?)

Download file / directory from remote directory and saved in the local directory you specified (or in GVBuffer).

File names and directories can be static or contain placeholders that are replaced at runtime.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${propname}` : a System property name; 3 - `sp{propname}` : a System property name; 4 - `@{propname}` : a inProperties property name; 5 - `timestamp{pattern}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{date::source-pattern::dest-pattern}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{scope::script}` : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - `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 11 - `sqllist{conn::sep::statement}` : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - `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 13 - `ognl{script}` : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **RemoteDownloadCommand** Element is used by: *RemoteCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>remote-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.remote.command.GVDownload</b> .
<b>remotePath</b>	required	Pathname of remote directory containing the file to download. It can be an absolute pathname or relative, in the second case it is relative to home directory of ftp user.  The attribute's value can't be null.
<b>remoteFilePattern</b>	required	The name of the file to download.  The attribute's value can't be null.
<b>toGVBufferExpression</b>	optional	GVBuffer OGNL expression used to specify how to handle the current downloaded file. In the expression, the downloaded file will be referenced by the variable #input, and will be a byte [].  The attribute's value can't be null.
<b>targetPath</b>	optional	Pathname of the local directory to save the downloaded file. Must be an absolute pathname.  The attribute's value can't be null.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.

## RemoteFileSystemMonitor

(Description?, (InMemoryMonitorStatus | FileMonitorStatus), FileFilter, ResultFilter, (FTPManager | SFTPManager))

Configure a RemoteFileSystemMonitor instance, to be used to monitor a remote file system directory.

The **RemoteFileSystemMonitor** Element is used by: *fsmonitor-call*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>fs-monitor</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.util.file.monitor.RemoteFileSystemMonitor</b> .
<b>path</b>	required	Absolute path to monitor on local file system. Can contains placeholders which will be replaced at runtime.  The attribute's value can't be null.

## remotemanager-call

(Description?, (FTPManager | SFTPManager), RemoteCommands?)

This plug-in allows you to perform a sequence of file operations in a remote file system accessible via an (S)FTP account.

The operations allowed are: - Download a file/directory from a remote directory to a local directory - Upload a file/directory from a local directory to a remote directory - Control of one or more files (whose name corresponds to a date regular expressions) in a remote directory - Deleting a file/directory from a remote directory - Rename/move a file/directory in a remote directory

#Icon: GVRemoteManager.png #Category: File

The **remotemanager-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **remotemanager-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.remote.RemoteManagerCall</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## RemoteMoveCommand

(Description?)

Move/rename a file/directory.

The file name, the source and destination directory names can be static or contain placeholders that are replaced at runtime.

After the replacement of the placeholder, the value of the 'filename' may contain a regular expression, in which case, all files of the source directory, whose name is in accordance with the corresponding pattern will be moved to the destination directory.

If the destination directory already contains files with the same name, they will be overwritten.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **RemoteMoveCommand** Element is used by: *RemoteCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>remote-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.remote.command.GVMove</b> .
<b>targetPath</b>	required	Absolute path of the file/directory where is the file to move.  The attribute's value can't be null.
<b>oldName</b>	required	File name to move.
<b>newName</b>	required	File name moved.

<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.
		The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
		The attribute's value can't be null.

---

## RemoteSearchCommand

(Description?)

Check if one or more files, whose name conforms to a given regular expression, exists within the specified directory.

On completion of and in the absence of errors are set the following properties of output GVBuffer:

1) GVRM\_FOUND\_FILES\_NUM Number of files found ( $\geq 0$ )

2) GVRM\_FOUND\_FILES\_LIST List of names of found files, separated by ';'.  
Set only if the value of field 'GVRM\_FOUND\_FILES\_NUM' is greater than 0.

Both the pattern of the file and that the directory can be static or contain placeholders that are replaced at runtime.

Can contains the following placeholders: 1 - fixed : a text string; 2 -  $\${\{propname\}}$  : a System property name; 3 -  $sp\{\{propname\}\}$  : a System property name; 4 -  $@\{\{propname\}\}$  : a inProperties property name; 5 -  $timestamp\{\{pattern\}\}$  : return the current timestamp formatted as 'pattern' 6 -  $dateformat\{\{date::source-pattern::dest-pattern\}\}$  : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 -  $decode\{\{field::cond1::val1\}::cond2::val2\} [cond...n::val...n]::default\}$  : evaluate as if-then-else; if 'field' is equal to cond1...n, return the value of val1...n, otherwise 'default' 8 -  $decodeL\{\{sep::field::cond1::val1\}::cond2::val2\} [cond...n::val...n]::default\}$  : is equivalent to 'decode', with the difference that 'condX' can be a list of values separated by 'sep' 9 -  $js\{\{scope::script\}\}$  : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 -  $sql\{\{conn::statement\}\}$  : 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 11 -  $sqllist\{\{conn::sep::statement\}\}$  : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 -  $sqltable\{\{conn::statement\}\}$  : 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 13 -  $ognl\{\{script\}\}$  : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **RemoteSearchCommand** Element is used by: *RemoteCommands*.

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



Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>remote-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.remote.command.GVSearch</b> .
<b>sourcePath</b>	required	Absolute path of the directory to search in.  The attribute's value can't be null.
<b>filePattern</b>	required	File name to search for. Can be a regular expression.  The attribute's value can't be null.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> The attribute's value can't be null.

## RemoteUploadCommand

(Description?)

Upload a file from local directory (or GVBuffer) to the remote directory specified.  
File names and directories can be static or contain placeholders that are replaced at runtime.

Can contains the following placeholders: 1 - fixed : a text string; 2 - `${{propname}}` : a System property name; 3 - `sp{{propname}}` : a System property name; 4 - `@{{propname}}` : a inProperties property name; 5 - `timestamp{{pattern}}` : return the current timestamp formatted as 'pattern' 6 - `dateformat{{date::source-pattern::dest-pattern}}` : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - `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' 8 - `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' 9 - `js{{scope::script}}` : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - `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 11 - `sqllist{{conn::sep}::statement}}` : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - `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 13 - ognl{ {script}} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

The **RemoteUploadCommand** Element is used by: *RemoteCommands*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>remote-command</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.file.remote.command.GVUpload</b> .
<b>sourcePath</b>	optional	Pathname of the local directory where the file is transferred. Must be an absolute pathname.  The attribute's value can't be null.
<b>sourceFilePattern</b>	optional	The name of the file to transfer.  The attribute's value can't be null.
<b>fromGVBufferExpression</b>	optional	Expression OGNL apply to current GVBuffer that specifies how to building the file content. In the expression, the GVBuffer is associated with #object, and must return a byte[].  The attribute's value can't be null.
<b>remotePath</b>	required	Pathname of remote directory where upload the file. It can be an absolute pathname or relative, in the second case it is relative to home directory of ftp user.  The attribute's value can't be null.
<b>isCritical</b>	optional	If true an internal error interrupt the command sequence. Default true.  The attribute's admitted values are: <ul style="list-style-type: none"> <li><b>true</b></li> <li><b>false</b></li> </ul> The attribute's value can't be null.

## Renders

(Description?, ExcelReportRender?, PDFReportRender?, HTMLReportRender?)

The **Renders** Element is used by: *Engine, Report*.

## Report

(Description?, Renders?, Parameters?)

The **Report** Element is used by: *ReportGroup*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>report</b> .
<b>name</b>	required	Report name.  The attribute's value can't be null.
<b>config</b>	required	Report configuration.  The attribute's value can't be null.
<b>defaultRender</b>	optional	Report preferred rendered, default 'pdf'.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>pdf</b></li><li>• <b>excel</b></li><li>• <b>html</b></li></ul> The attribute's value can't be null.

## ReportGroup

(Description?, Report\*)

#SortChild

The **ReportGroup** Element is used by: *ReportGroups*.

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

Attribute	Tyte	Description
<b>name</b>	required	Group name  The attribute's value can't be null.

## ReportGroups

(Description?, ReportGroup\*)

#SortChild

The **ReportGroups** Element is used by: *GVBIRTReportConfiguration*.

## rest

(Description?)

The **rest** Element is used by: *Transport*.

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

Attribute	Tyte	Description
<b>verb</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>GET</b></li><li>• <b>POST</b></li><li>• <b>PUT</b></li><li>• <b>DELETE</b></li></ul>

## ResultFilter

EMPTY

Filter the information in AnalysisReport generated from a FileSystemMonitor.

The **ResultFilter** Element is used by: *LocalFileSystemMonitor*, *RemoteFileSystemMonitor*.

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

Attribute	Tyte	Description
<b>existing</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>created</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> The attribute's value can't be null.
<b>modified</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> The attribute's value can't be null.
<b>deleted</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> The attribute's value can't be null.
<b>sort-mode</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>by-name</b></li><li>• <b>by-time</b></li></ul> The attribute's value can't be null.
<b>sort-ascending</b>	required	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li></ul>

- **false**

The attribute's value can't be null.

## ResultSet

(Description?, (Simpleformatter | DMLWriteFormatter | CallSPFormatter | QueryFormatter))

#Icon: default.png

The **ResultSet** Element is used by: *DBOperations*.

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

Attribute	Tyte	Description
<b>rsType</b>	optional	<p>This attribute defines the type of result set:</p> <ul style="list-style-type: none"> <li>• <b>TYPE_FORWARD_ONLY</b> : indicating the type for a ResultSet object whose cursor may move only forward</li> <li>• <b>TYPE_SCROLL_INSENSITIVE</b> : indicating the type for a ResultSet object that is scrollable but generally not sensitive to changes to the data that underlies the ResultSet</li> <li>• <b>TYPE_SCROLL_SENSITIVE</b> : indicating the type for a ResultSet object that is scrollable and generally sensitive to changes to the data that underlies the ResultSet</li> </ul> <p>Default : TYPE_FORWARD_ONLY</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>TYPE_FORWARD_ONLY</b></li> <li>• <b>TYPE_SCROLL_INSENSITIVE</b></li> <li>• <b>TYPE_SCROLL_SENSITIVE</b></li> </ul>
<b>rsConcurrency</b>	optional	<p>This attribute defines the access to the result set:</p> <ul style="list-style-type: none"> <li>• <b>CONCUR_READ_ONLY</b> : indicating the concurrency mode for a ResultSet object that may NOT be updated.</li> <li>• <b>CONCUR_UPDATABLE</b> : indicating the concurrency mode for a ResultSet object that may be updated.</li> </ul> <p>Default : CONCUR_READ_ONLY</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>CONCUR_READ_ONLY</b></li> <li>• <b>CONCUR_UPDATABLE</b></li> </ul>
<b>rsHoldability</b>	optional	<p>This attribute defines the opening and closing of cursors:</p> <ul style="list-style-type: none"> <li>• <b>HOLD_CURSORS_OVER_COMMIT</b> : indicating that open ResultSet objects with this</li> </ul>

holdability will remain open when the current transaction is committed

- **CLOSE\_CURSORS\_AT\_COMMIT** : indicating that open ResultSet objects with this holdability will be closed when the current transaction is committed

Default : HOLD\_CURSORS\_OVER\_COMMIT

The attribute's admitted values are:

- **HOLD\_CURSORS\_OVER\_COMMIT**
- **CLOSE\_CURSORS\_AT\_COMMIT**

## RetCodeConversionIn

EMPTY

The **RetCodeConversionIn** Element is used by: *ServletMapping*.

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

Attribute	Tyte	Description
<b>RetCodeConversion</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>ignore</b></li><li>• <b>0to1</b></li><li>• <b>1to0</b></li></ul> The attribute's value can't be null.

## RetCodeConversionOut

EMPTY

The **RetCodeConversionOut** Element is used by: *ServletMapping*.

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

Attribute	Tyte	Description
<b>RetCodeConversion</b>	optional	The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>ignore</b></li><li>• <b>0to1</b></li><li>• <b>1to0</b></li></ul> The attribute's value can't be null.

## RetCodeField

(Description?, RangeDef+)

This element verifies that the return code is in a certain range of values.

You can specify multiple ranges. The condition is verified if the return code is at least in one of configured ranges.

The **RetCodeField** Element is used by: *GVBufferCondition*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>gvbuffer-field</b> .
<b>name</b>	fixed	Questo attributo definisce il nome del campo return code.  This attribute <i>must</i> assume the value <b>RetCodeField</b> .

## RetrieverConfig

(Description?, GenericRetriever?, TableRetriever?, JavaScriptRetriever?)

Allows you to define helper for use in DataHandler data transformations.

The **RetrieverConfig** Element is used by: *dh-call*, *GVDDataHandlerConfiguration*.

## routed-call

(Description?, GVBufferCondition+, (j2ee-ejb-call | j2ee-jca-call | jmx-call | smtp-call | pop-call | ws-call | http-call | hl7-call | jbpj-call | jbpj-task-call | openspcoop-call | db-call | dh-call | ldap-search-call | ldap-update-call | extract-data-call | routed-call | excel-call | excelreader-call | birt-report-call | rules-call | test-service-call | generic-call | shell-call | filereader-call | filewriter-call | filemanager-call | fsmonitor-call | remotemanager-call | rsh-call | rsh-filereader-call | rsh-filewriter-call | mm7-decode-call | mm7-submit-call)+, VCLRouting+, ServiceAlias?)

Used to make a routing mechanism at the level of communication channel, based on some conditions applied to the buffer GVBuffer.

During the execution of flows, the operation is seen as a simple call.

The implementation of the routed call-check the conditions and invokes a sub-operations accordingly.

To configure a routed-call is necessary:

- defines sub-operations  
Each sub operation is identified by a unique name within the routed-call.  
The sub-operation can be selected are only those of type "call".
- defines routing conditions  
Check the values in GVBuffer fields.  
Each routing condition has a unique name within the routed-call.
- associate routing conditions to operations  
Sub items 'VCLRouting' associate routing conditions with operations.  
The evaluation order is defined by the order of items 'VCLRouting'.  
The sub-operation is performed corresponding to the first condition verified.

#Icon: GVRoutedCall.png #Category: Utils

The **routed-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **routed-call**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.RoutedCall</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## routed-dequeue

(Description?, GVBufferCondition+, (jms-dequeue | routed-dequeue)+, VCLRouting+, ServiceAlias?)

Used to make a routing mechanism at the level of communication channel, based on some conditions applied to the buffer GVBuffer.

During the execution of flows, the operation is seen as a simple dequeue.

The implementation of the routed-dequeue check the conditions and invokes a sub-operations accordingly.

To configure a routed-dequeue is necessary:

- defines sub-operations  
Each sub operation is identified by a unique name within the routed-dequeue.  
The sub-operation can be selected are only those of type "dequeue".
- defines routing conditions  
Check the values in GVBuffer fields.  
Each routing condition has a unique name within the routed-dequeue.
- associate routing conditions to operations  
Sub items 'VCLRouting' associate routing conditions with operations.  
The evaluation order is defined by the order of items 'VCLRouting'.  
The sub-operation is performed corresponding to the first condition verified.

#Icon: GVRoutedDequeueCall.png #Category: JMS

The **routed-dequeue** Element is used by: *routed-dequeue*, *VCLOperation*.

The following table show the element's attributes **routed-dequeue**:



Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dequeue</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.RoutedDequeue</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## routed-enqueue

(Description?, GVBufferCondition+, (jms-enqueue | routed-enqueue)+, VCLRouting+, ServiceAlias?)

Used to make a routing mechanism at the level of communication channel, based on some conditions applied to the buffer GVBuffer.

During the execution of flows, the operation is seen as a simple enqueue.

The implementation of the routed-enqueue check the conditions and invokes a sub-operations accordingly.

To configure a routed-enqueue is necessary:

- defines sub-operations  
Each sub operation is identified by a unique name within the routed-enqueue.  
The sub-operation can be selected are only those of type "enqueue".
- defines routing conditions  
Check the values in GVBuffer fields.  
Each routing condition has a unique name within the routed-enqueue.
- associate routing conditions to operations  
Sub items 'VCLRouting' associate routing conditions with operations.  
The evaluation order is defined by the order of items 'VCLRouting'.  
The sub-operation is performed corresponding to the first condition verified.

#Icon: GVRoutedEnqueueCall.png #Category: JMS

The **routed-enqueue** Element is used by: *routed-enqueue*, *VCLOperation*.

The following table show the element's attributes **routed-enqueue**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>enqueue</b> .

<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.RoutedEnqueue</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

## rsh-call

(Description?, (cmd | cmd-array-elem+), env-property\*)

Plugin for running a R(emote)SH(ell) command.

#Icon: GVRSHCall.png #Category: File

The **rsh-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **rsh-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.rsh.RemoteShellCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>rsh-client-name</b>	required	RSH client name.  The attribute's value can't be null.
<b>directory</b>	optional	Pathname of the directory in which the command is executed.  This pathname can be static or may contain placeholders that are replaced at runtime.  Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-

pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{ { scope::script } } : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{ { conn[::sep]::statement } } : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{ { script } } : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

If this attribute is not present, the command is executed within the current (depends on local/remote RSH client used) working directory.

The attribute's value can't be null.

<b>encoding</b>	optional	<p>The encoding with which encode the output of the command in the body of GVBuffer.</p> <p>If not specified, is used the the 'file.encoding' system property value.</p> <p>The attribute's value can't be null.</p>
-----------------	----------	--

## rsh-filereader-call

(Description?, xml-processor?)

This plug-in reads a file's content, through RSH local/remote service, and saves it in output GVBuffer 'object' field.

Complete file path is the 'filePathName' attribute value.

The attribute can contain placeholders, that are expanded at plugin call time.

Attribute 'filePathName' is subject to these constraints: - is overridden by 'GVFR\_FILE\_NAME' property, if present in current GVBuffer.

If property is not defined in GVBuffer, the 'filePathName' attribute in the configuration is used. An exception is thrown if neither the property nor the attribute in configuration are set.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current

timestamp formatted as 'pattern' 6 - dateformat{ { date::source-pattern::dest-pattern } } : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{ { scope::script } } : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{ { conn[::sep]::statement } } : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{ { script } } : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVRSHFileReader.png #Category: File

The **rsh-filereader-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **rsh-filereader-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.rsh.RemoteFileReaderCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>rsh-client-name</b>	required	RSH client name.  The attribute's value can't be null.
<b>filePathName</b>	required	This value can be static or dynamic, containing placeholders that could be replaced at plugin call time. This is a default value, and is used if the property 'GVFR_FILE_NAME' is not defined in the current GVBuffer.  The attribute's value can't be null.

## rsh-filewriter-call

(Description?)

This plug-in writes the content in the GVBuffer 'object' field into the a file, overwriting the target file if already present, through RSH local/remote service.

Complete file path is the 'filePathName' attribute value.

The attribute can contain placeholders, that are expanded at plugin call time.

Attribute 'filePathName' is subject to these constraints: - is overridden by 'GVFR\_FILE\_NAME' property, if present in current GVBuffer.

If property is not defined in GVBuffer, the 'filePathName' attribute in the configuration is used. An exception is thrown if neither the property nor the attribute in configuration are set.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - 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 11 - sqllist{conn::sep::statement} : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list.

The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - 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 13 - ognl{script} : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)

#Icon: GVRSHFileWriter.png #Category: File

The **rsh-filewriter-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **rsh-filewriter-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.rsh.RemoteFileWriterCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.

<b>rsh-client-name</b>	required	RSH client name.  The attribute's value can't be null.
<b>filePathName</b>	required	This value can be static or dynamic, containing placeholders that could be replaced at plugin call time. This is a default value, and is used if the property 'GVFW_FILE_NAME' is not defined in the current GVBuffer.  The attribute's value can't be null.

## RSHServiceClientConfiguration

(Description?, (RSHServiceClientLocal | RSHServiceClientRMI)\*)

R(emote)SH(ell) client's pool configuration.

The **RSHServiceClientConfiguration** Element is used by: *GVAdapters*.

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

Attribute	Tyte	Description
<b>version</b>	fixed	This attribute <i>must</i> assume the value <b>1.0</b> .
<b>type</b>	fixed	This attribute <i>must</i> assume the value <b>module</b> .
<b>name</b>	fixed	This attribute <i>must</i> assume the value <b>RSH_CLIENT</b> .

## RSHServiceClientLocal

(Description?)

Executes operations on local VM.

The **RSHServiceClientLocal** Element is used by: *RSHServiceClientConfiguration*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>rshClient</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.rsh.client.impl.RSHServiceClientLocal</b> .
<b>name</b>	required	The attribute's value can't be null.

## RSHServiceClientRMI

(Description?)

Executes operations on a VM external (local or remote) RSH server.

The **RSHServiceClientRMI** Element is used by: *RSHServiceClientConfiguration*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>rshClient</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.rsh.client.impl.RSHServiceClientRMI</b> .
<b>name</b>	required	The attribute's value can't be null.
<b>regURL</b>	required	RMI Registry connection URL. Ex: rmi://localhost:1099  The attribute's value can't be null.
<b>regCtxFactory</b>	optional	Default: com.sun.jndi.rmi.registry.RegistryContextFactory  The attribute's value can't be null.
<b>regSvcName</b>	optional	Default: it.greenvulcano.gvesb.rsh.server.rmi.RSHService  The attribute's value can't be null.

## RuleResource

(Description?)

Defines a rule resource.

The **RuleResource** Element is used by: *GVKnowledgeBaseConfig*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>knwl-resource</b> .
<b>url</b>	required	Rule resource URL.  The attribute's value can't be null.
<b>resourceType</b>	required	Rule resource type.  The attribute's admitted values are:

- **DRL**
- **XDRL**
- **DSL**
- **DSLr**
- **DRF**
- **DTABLE**
- **PKG**
- **BRL**
- **CHANGE\_SET**

The attribute's value can't be null.

<b>inputType</b>	optional	Decision table type..
The attribute's admitted values are:		
<ul style="list-style-type: none"> <li>• <b>XLS</b></li> <li>• <b>CSV</b></li> </ul>		
The attribute's value can't be null.		
<b>worksheetName</b>	optional	Excel file worksheet.
The attribute's value can't be null.		

## rules-call

(Description?, ServiceAlias?)

Operation to invoke a Rule Engine service.

#Icon: GVRulesCall.png #Category: Utils

The **rules-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **rules-call**:

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvrules.virtual.RulesCall</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>ruleSet</b>	required	Reference a Rule set.  The attribute's value can't be null.



<b>input-ref-dp</b>	required	Name of Data Provider to be used to prepare the facts to be inserted in the session. This Data Provider (ex. a MapDataProvider) will receive in input a GVBuffer and must return a map of named objects.
<b>globals-ref-dp</b>	optional	Name of Data Provider to be used to prepare the objects to be inserted as Globals in the session. This Data Provider (ex. a MapDataProvider) will receive in input a GVBuffer and must return a map of named objects. If the name of some Globals start with [[OUT]] then those object are inserted in a map and passed as #input to the output-ref-dp Data Provider.
<b>output-ref-dp</b>	optional	Name of Data Provider to use for rules output manipulation. This Data Provider will receive as context a GVBuffer and as input the rules ExecutionResults or the Globals objects map (see globals-ref-dp) and must return an enriched GVBuffer object. Ex.a GVBufferChangeDataProvider instance.  If not defined the rules ExecutionResults or the Globals objects map (see globals-ref-dp) are inserted in the output GVBuffer object field.

## Script

(#PCDATA)

The content defines a JavaScript script.

#Icon: default.png

The element value can't be null.

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

## security-domain

(#PCDATA)

Indicates Subject (from security domain) are used to distinguish connections in the pool.

The content of the security-domain is the name of the JAAS security manager that will handle authentication.

This name correlates to the JAAS login-config.xml descriptor application-policy/name attribute.

The element value can't be null.

The **security-domain** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## security-domain-and-application

(#PCDATA)

Indicates that either app supplied parameters (such as from getConnection(user, pw)) or Subject (from security domain) are used to distinguish connections in the pool.

The content of the security-domain is the name of the JAAS security manager that will handle authentication.

This name correlates to the JAAS login-config.xml descriptor application-policy/name attribute.

The element value can't be null.

The **security-domain-and-application** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## ServiceAlias

(Description?, AliasMapping+)

#Icon: default.png

The **ServiceAlias** Element is used by: *extract-data-call*, *generic-call*, *j2ee-ejb-call*, *j2ee-jca-call*, *jms-dequeue*, *jms-enqueue*, *mm7-decode-call*, *mm7-submit-call*, *routed-call*, *routed-dequeue*, *routed-enqueue*, *rules-call*, *test-service-call*.

## ServletMapping

(Description?, RetCodeConversionIn?, RetCodeConversionOut?)

The **ServletMapping** Element is used by: *ServletMappings*.

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

Attribute	Type	Description
Mapping	required	The attribute's value can't be null.

## ServletMappings

(ServletMapping\*)

The **ServletMappings** Element is used by: *Configuration*.

## set-attribute

EMPTY

Sets a MBean's attribute value.

The **set-attribute** Element is used by: *jmx-call*.

The following table show the element's attributes **set-attribute**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>method</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.jmx.methods.JMXSetOperation</b> .
<b>name</b>	required	Attribute name of the MBean.  The attribute's value can't be null.
<b>value</b>	required	Attribute value of the MBean to set.  Can contains the following placeholders: 1 - fixed : a text string; 2 - <code>\${propname}</code> : a System property name; 3 - <code>sp{propname}</code> : a System property name; 4 - <code>@{propname}</code> : a inProperties property name; 5 - <code>timestamp{pattern}</code> : return the current timestamp formatted as 'pattern' 6 - <code>dateformat{date::source-pattern::dest-pattern}</code> : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - <code>decode{field[::cond1::val1][::cond2::val2][cond...n::val...n::default]}</code> : evaluate as if-then-else; if 'field' is equal to cond1...n, return the value of val1...n, otherwise 'default' 8 - <code>decodeL{sep::field[::cond1::val1][::cond2::val2][cond...n::val...n::default]}</code> : is equivalent to 'decode', with the difference that 'condX' can be a list of values separated by 'sep' 9 - <code>js{scope::script}</code> : evaluate a JavaScript script, using the scope 'scope' 10 - <code>sql{conn::statement}</code> : 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 11 - <code>sqllist{conn[::sep]::statement}</code> : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list. The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - <code>sqltable{conn::statement}</code> : 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 13 - <code>ognl{script}</code> : evaluate a OGNL script
<b>value-type</b>	required	Parameter type. Only used for invoke method.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>byte</b></li> <li>• <b>boolean</b></li> <li>• <b>char</b></li> <li>• <b>double</b></li> <li>• <b>float</b></li> <li>• <b>int</b></li> <li>• <b>long</b></li> </ul>

- **short**
- **String**

## SFTPManager

(Description?, IdentityInfo?)

If the target directory is on a remote file system accessible via FTP over SSH, this element encapsulates the parameters required to connect.

The parameters hostname, username, password, privateKey, publicKey and passphrase can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope' 10 - 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, if not defined is used the current connection 11 - 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, if not defined is used the current connection 12 - 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 13 - ognl{script} : evaluate a OGNL script

The **SFTPManager** Element is used by: *RemoteFileSystemMonitor*, *remotemanager-call*.

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

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>remote-manager</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.util.remotefs.sftp.SFTPManager</b> .
<b>hostname</b>	required	Server host name.  The attribute's value can't be null.
<b>port</b>	optional	Server listening port. Default: 22.

		The attribute's value can't be null.
<b>knownHostFilePath</b>	optional	'known_hosts' file path. Default: \$HOME/.ssh/known_hosts
		The attribute's value can't be null.
<b>authMethod</b>	required	Authentication method for accessing remote host.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>password</b></li> <li>• <b>publicKey</b></li> </ul>
		The attribute's value can't be null.
<b>username</b>	optional	Username for the connection. If not set, the user is retrieved by which GV was executed by the system property 'user.name'.
		The attribute's value can't be null.
<b>password</b>	optional	Password for the connection.  #Encrypted
		The attribute's value can't be null.
<b>connectTimeout</b>	optional	Connect timeout (in milliseconds). Default: infinite.
		The attribute's value can't be null.
<b>dataTimeout</b>	optional	Data transfer timeout (in milliseconds). Default: infinite.
		The attribute's value can't be null.
<b>autoConnect</b>	optional	If true the instance use autoconnect/disconnect at each method invocation. Default false.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
		The attribute's value can't be null.

## Sheet

(Description?, prep-statement\*, statement)

Defines the configuration of a sheet of the Report.

#CompositeLabel: || @id | - | @name

The **Sheet** Element is used by: *GVExcelReport*.

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

Attribute	Type	Description
id	required	Sheet id.
		The attribute's value can't be null.
name	required	Sheet name.
		The attribute's value can't be null.
title	optional	Sheet title.
		The attribute's value can't be null.
jdbc-connection	optional	JNDI name of a DataSource. Default to Report connection.
		The attribute's value can't be null.

## SheetConfig

(Description?, Title, TableHeader, TextColumn, DateColumn, NumberColumn)

Defines the configuration of a sheet in a report.

The **SheetConfig** Element is used by: *GVExcelWorkbook*.

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

Attribute	Type	Description
offset	optional	Offset in rows to data start. Default 0.
		The attribute's value can't be null.

## shell-call

((cmd | cmd-array-elem+), env-property\*, Description?)

Plugin for running a shell command.

#Icon: GVShellID.png #Category: File

The **shell-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **shell-call**:

Attribute	Type	Description
type	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.
		This attribute <i>must</i> assume the value <b>call</b> .
class	fixed	Unmodifiable.
		Used by GreenVulcanoESB factory framework.

<p>This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.shell.ShellCallOperation</b>.</p>		
<b>name</b>	required	<p>Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.</p> <p>The attribute's value can't be null.</p>
<b>directory</b>	optional	<p>Pathname of the directory in which the command is executed.</p> <p>This pathname can be static or may contain placeholders that are replaced at runtime.</p> <p>Can contains the following placeholders: 1 - fixed : a text string; 2 - <code>\${propname}</code> : a System property name; 3 - <code>sp{propname}</code> : a System property name; 4 - <code>@{propname}</code> : a inProperties property name; 5 - <code>timestamp{pattern}</code> : return the current timestamp formatted as 'pattern' 6 - <code>dateformat{date::source-pattern::dest-pattern}</code> : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - <code>decode{field::cond1::val1[::cond2::val2][cond...n::val...n::default]}</code> : evaluate as if-then-else; if 'field' is equal to cond1...n, return the value of val1...n, otherwise 'default' 8 - <code>decodeL{sep::field::cond1::val1[::cond2::val2][cond...n::val...n::default]}</code> : is equivalent to 'decode', with the difference that 'condX' can be a list of values separated by 'sep' 9 - <code>js{scope::script}</code> : evaluate a JavaScript script, using the scope 'scope', the GVBuffer is added to the scope as 'object' 10 - <code>sql{conn::statement}</code> : 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 11 - <code>sqllist{conn::sep::statement}</code> : execute a select sql statement sql and return the value of the first field of all selected records as a 'sep' separated list. The 'conn' parameter is the JNDI name of a DataSource The 'sep' parameter defaults to comma 12 - <code>sqltable{conn::statement}</code> : 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 13 - <code>ognl{script}</code> : evaluate a OGNL script, the GVBuffer is added to the context as 'object' (and is also the object on which execute the script)</p> <p>If this attribute is not present, the command is executed within the current working directory.</p> <p>The attribute's value can't be null.</p>
<b>encoding</b>	optional	<p>The encoding with which encode the output of the command in the body of GVBuffer. If not specified, is used the the 'file.encoding' system property value.</p> <p>The attribute's value can't be null.</p>

## Simpleformatter

(Description?)

This element is the Formatter to be used if the statement is a simple SQL query.

#Icon: default.png

The **Simpleformatter** Element is used by: *ResultSet*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>formatter</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.formatter.SimpleFormatter</b> .
<b>success</b>	required	This attribute defines the return value from SQL query execution if successfully completed.  The attribute's value can't be null.
<b>failure</b>	required	The attribute defines the return value from SQL query if the execution ended with error.  The attribute's value can't be null.

## SimpleGVBufferBodyBuilder

(#PCDATA)

This element allows you to set the GVBuffer body.

The **SimpleGVBufferBodyBuilder** Element is used by: *ChangeGVBuffer*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>body-builder</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.internal.data.SimpleGVBufferBodyMaker</b> .
<b>file-name</b>	optional	This attribute is the path of a file whose contents should be inserted into the body of GVBuffer.



You can specify a file on the server's classpath using the following syntax:

CP://filename or cp://filename

This attribute has precedence over the element content.

The attribute's value can't be null.

<b>read-once</b>	optional	<p>If true the file will be read only once, otherwise the file will be read on each invocation of the service. This attribute is meaningful only if the attribute file-name is specified. Default to "true".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
<b>encoding</b>	optional	<p>This attribute is the encoding used to convert text to byte array.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>US-ASCII</b></li> <li>• <b>ISO-8859-1</b></li> <li>• <b>ISO-8859-15</b></li> <li>• <b>ISO-LATIN-1</b></li> <li>• <b>UTF-8</b></li> <li>• <b>UTF-16BE</b></li> <li>• <b>UTF-16LE</b></li> <li>• <b>UTF-16</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>process-metadata</b>	optional	<p>If true the body content can contain metadata to be resolved at runtime. The body content must be a valid String. Default to "false".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

## smtp

(Description?)

SMTP configuration parameters.

The **smtp** Element is used by: *mail-service*.

The following table shows the element's attributes **smtp**:

Attribute	Type	Description
<b>host</b>	optional	<p>The SMTP server to connect to.</p> <p>The attribute's value can't be null.</p>

<b>port</b>	optional	<p>The SMTP server port to connect to, if the connect() method does not explicitly specify one. Defaults is "25".</p> <p>The attribute's value can't be null.</p>
<b>connectiontimeout</b>	optional	<p>Socket connection timeout value in milliseconds. The Default is an infinite timeout.</p> <p>The attribute's value can't be null.</p>
<b>timeout</b>	optional	<p>Socket I/O timeout value in milliseconds. The Default is an infinite timeout.</p> <p>The attribute's value can't be null.</p>
<b>from</b>	optional	<p>Email address for SMTP MAIL command. It sets the envelope return address. Defaults to msg.getFrom() or InetAddress.getLocalAddress(). NOTE: mail.smtp.user was previously used for this.</p> <p>The attribute's value can't be null.</p>
<b>localhost</b>	optional	<p>Local host name used in the SMTP HELO or EHLO command. Default is InetAddress.getLocalHost().getHostName(). No need to be set if your JDK and your name service are properly configured.</p> <p>The attribute's value can't be null.</p>
<b>localaddress</b>	optional	<p>Local address (host name) to bind when creating the SMTP socket. Default is to the address selected by the Socket class. No need to be set, but can be useful with multi-homed hosts where it's important to pick a particular local address to bind to.</p> <p>The attribute's value can't be null.</p>
<b>localport</b>	optional	<p>Local port number to bind to when creating the SMTP socket. Default is to the port number picked by the Socket class.</p> <p>The attribute's value can't be null.</p>
<b>ehlo</b>	optional	<p>If "false", do not attempt to sign on with the EHLO command. Default is "true". Failure of the EHLO command will fallback to the HELO command; this property exists only for servers that do not fail EHLO properly or don't implement EHLO properly.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>auth</b>	optional	<p>If "true", authenticates the user using the AUTH command. Default is "false".</p>

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>submitter</b>	optional	<p>This is the submitter to use in the AUTH tag in the MAIL FROM command.</p> <p>It's used by the mail relay to pass along information about the original submitter of the message.</p> <p>See also the setSubmitter method of SMTPMessage.</p> <p>Mail clients typically do not use this.</p> <p>The attribute's value can't be null.</p>
<b>dsn-notify</b>	optional	<p>The NOTIFY option to the RCPT command.</p> <p>Either NEVER, or some combination of SUCCESS, FAILURE, and DELAY (separated by commas).</p> <p>The attribute's value can't be null.</p>
<b>dsn-ret</b>	optional	<p>The RET option to the MAIL command. Either FULL or HDRS.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>FULL</b></li> <li>• <b>HDRS</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>allow8bitmime</b>	optional	<p>If set to "true", and the server supports the 8BITMIME extension, text parts of messages that use the "quoted-printable" or "base64" encodings are converted to use "8bit" encoding if they follow the RFC2045 rules for 8bit text.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>sendpartial</b>	optional	<p>If set to "true", and a message has some valid and invalid addresses, send the message anyway, reporting the partial failure with a SendFailedException.</p> <p>If set to "false" (default), the message is not sent to any of the recipients if there is an invalid recipient address.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>sasl-realm</b>	optional	<p>The realm to use with DIGEST-MD5 authentication.</p> <p>The attribute's value can't be null.</p>
<b>quitwait</b>	optional	<p>If set to "true", causes the transport to wait for the response to the QUIT command.</p> <p>If set to "false" (default), the QUIT command is sent and the connection is immediately closed.</p>

		<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>reportsuccess</b>	optional	<p>If set to "true", causes the transport to include an SMTPAddressSucceededException for each address that is successful.</p> <p>This will cause a SendFailedException to be thrown from the sendMessage method of SMTPTransport even if all addresses were correct and the message was successfully sent.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>socketFactory-class</b>	optional	<p>If set, specifies the name of a class that implements the javax.net.SocketFactory interface.</p> <p>This class will be used to create SMTP sockets.</p> <p>The attribute's value can't be null.</p>
<b>socketFactory-fallback</b>	optional	<p>If set to "true", failure to create a socket using the specified socket factory class will cause the socket to be created using the java.net.Socket class.</p> <p>The Default is "true".</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>false</b></li> <li>• <b>true</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>socketFactory-port</b>	optional	<p>Specifies the port to connect to when using the specified socket factory.</p> <p>If not set, the default port will be used.</p> <p>The attribute's value can't be null.</p>
<b>mailextension</b>	optional	<p>Extension string to append to the MAIL command.</p> <p>The extension string can be used to specify standard SMTP service extensions as well as vendor-specific extensions.</p> <p>The application should use the SMTPTransport method supportsExtension to verify that the server supports the desired service extension.</p> <p>See RFC 1869 and other RFCs that define specific extensions.</p> <p>The attribute's value can't be null.</p>

## smtp-call

(Description?, JNDIHelper?, mail-properties?, mail-message)

Plugin for sending an email.

#Icon: GVSmtplib.png #Category: Web/Mail

The **smtp-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **smtp-call**:

Attribute	Type	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.smtp.SMTPCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.  The attribute's value can't be null.
<b>jndi-name</b>	required	JNDI name of the mail Session configured in the application server.  The attribute's value can't be null.
<b>override-protocol-host</b>	optional	Corresponds to the property mail.protocol.host and overwrites the value of property mail.host specified in the configuration of the mail Session.  The attribute's value can't be null.
<b>override-protocol-user</b>	optional	Corresponds to the property mail.protocol.user and overwrites the value of property mail.user specified in the configuration of the mail Session.  The attribute's value can't be null.
<b>message-id-property</b>	optional	GVBuffer defines the properties that will contain the MessageID of the message sent. Default to 'MessageID'.

## soap

(Description?)

The **soap** Element is used by: *Transport*.

## soap12

(Description?)

The **soap12** Element is used by: *Transport*.

## SOARegistry

(Description?)

Information about Web Service published on a SOA Registry.

Usually these information are retrieved and filled by VulCon or other user tools (like GVConsole).

These information are not operative, used only to map the Web Service to a WSDL published on a SOA Registry.

The **SOARegistry** Element is used by: *WebService*.

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

Attribute	Type	Description
<b>business-service-name</b>	required	Name of Business Service identifying this Web Service.  The attribute's value can't be null.
<b>business-service-version</b>	required	Version of Business Service published on the SOA Registry.  The attribute's value can't be null.
<b>webservice-name</b>	required	Name of web service identifying this Web Service on the SOA Repository.  The attribute's value can't be null.
<b>webservice-version</b>	required	Version of WebService published on the SOA Registry.  The attribute's value can't be null.
<b>wSDL-url</b>	required	URL where the WSDL defining this Web Service is published on.  The attribute's value can't be null.
<b>wSDL-name</b>	required	Name of service identifying this Web Service. It normally corresponds to the name given to the WSDL on the SOA Registry.  The attribute's value can't be null.
<b>wSDL-version</b>	required	Version of WSDL published on the SOA Registry.  The attribute's value can't be null.

## spec-constructor

(Description?, parameter\*)

Allows you to build InteractionSpec or ConnectionSpec objects using constructors with a list of parameters.

This element identifies constructors that accept only simple types as parameters.

Refer to the documentation of the particular EIS to see which objects constructors are supported.

The **spec-constructor** Element is used by: *jca-connection-spec*, *jca-interaction-spec*.

## spec-property

(Description?)

Property used to initialize the connection spec to connect the JCA adapter.

The properties to be specified depend on the particular resource adapter.  
Refer to the documentation of the resource adapter.

The **spec-property** Element is used by: *jca-connection-spec*, *jca-interaction-spec*.

The following table show the element's attributes **spec-property**:

Attribute	Tyte	Description
<b>name</b>	required	Property name.  The attribute's value can't be null.
<b>value</b>	required	Property value.

## SPOutputParam

(Description?)

This element defines an output parameter of the store procedure.

The **SPOutputParam** Element is used by: *SPOutputParams*.

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

Attribute	Tyte	Description
<b>type</b>	required	This attribute identifies the type of the output parameter  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>string</b></li><li>• <b>int</b></li><li>• <b>long</b></li><li>• <b>float</b></li><li>• <b>date</b></li><li>• <b>binary</b></li><li>• <b>blob</b></li><li>• <b>clob</b></li></ul>
<b>position</b>	required	This attribute defines the position parameter has in the statement.  The attribute's value can't be null.

## SPOutputParameter

EMPTY

#CompositeLabel: || @position || @db-type || @java-type || @prop-name

The **SPOutputParameter** Element is used by: *SPOutputParameters*.

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

Attribute	Type	Description
<b>db-type</b>	required	<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>string</b></li><li>• <b>number</b></li><li>• <b>int</b></li><li>• <b>long</b></li><li>• <b>float</b></li><li>• <b>date</b></li><li>• <b>binary</b></li><li>• <b>blob</b></li><li>• <b>oracle_cursor</b></li></ul> <p>The attribute's value can't be null.</p>
<b>java-type</b>	required	<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>string</b></li><li>• <b>int</b></li><li>• <b>long</b></li><li>• <b>date</b></li><li>• <b>byte_array</b></li><li>• <b>resultset</b></li></ul> <p>The attribute's value can't be null.</p>
<b>position</b>	required	<p>The attribute's value can't be null.</p>
<b>prop-name</b>	required	<p>The attribute's value can't be null.</p>
<b>param-name</b>	optional	<p>The attribute's value can't be null.</p>
<b>return-in-prop</b>	optional	<p>Default is false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> <p>The attribute's value can't be null.</p>
<b>return-in-uuid</b>	optional	<p>Default is false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> <p>The attribute's value can't be null.</p>

## SPOutputParameters

(*SPOutputParameter*\*)

#SortChild

The **SPOutputParameters** Element is used by: *CallDescriptor*.



## SPOutputParams

(Description?, SPOutputParam+)

This element defines the set of output parameters from the store procedure.

The **SPOutputParams** Element is used by: *CallSPFormatter*.

## SQLExceptionCode

EMPTY

The **SQLExceptionCode** Element is used by: *CatalogMapping*.

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

Attribute	Type	Description
code	required	The attribute's value can't be null.

## statement

(#PCDATA)

Statement to be evaluated.

Can contains the following placeholders: 1 - fixed : a text string; 2 - \${propname} : a System property name; 3 - sp{propname} : a System property name; 4 - @{propname} : a inProperties property name; 5 - timestamp{pattern} : return the current timestamp formatted as 'pattern' 6 - dateformat{date::source-pattern::dest-pattern} : reformat 'date' from 'source-pattern' to 'dest-pattern' 7 - 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' 8 - 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' 9 - js{scope::script} : evaluate a JavaScript script, using the scope 'scope' 10 - 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, if not defined is used the current connection 11 - 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, if not defined is used the current connection 12 - 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 13 - ognl{script} : evaluate a OGNL script

The **statement** Element is used by: *CallDescriptor*, *DBOFlatSelect*, *DBOInsert*, *DBOInsertOrUpdate*, *DBOMultiFlatSelect*, *DBOSelect*, *DBOThreadSelect*, *DBOUpdate*, *DBOUpdateOrInsert*, *Sheet*.

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

Attribute	Tyte	Description
<b>type</b>	required	<p>Must be:</p> <p>DBOSelect : select DBOInsert : insert DBOUpdate : update  DBOInsertOrUpdate : insert update DBOUpdateOrInsert :  insert update DBOCallSP : callsp</p> <p>Excel Sheet : select</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>select</b></li> <li>• <b>insert</b></li> <li>• <b>update</b></li> <li>• <b>callsp</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>id</b>	optional	The attribute's value can't be null.
<b>keys</b>	optional	<p>Only useful in DBOSelect.</p> <p>Specifies the index of select output on which group the results.</p> <p>The corresponding values are specified as attributes of 'data' element within the 'RowSet' element.</p> <p>For example, in the select: SELECT id,company_code,name FROM employees</p> <p>specifying the attribute keys = "2", the result would be: &lt;RowSet&gt; &lt;data key_2="GreenVulcano"&gt; &lt;row&gt; &lt;col&gt;19&lt;/col&gt; &lt;col&gt;pippo&lt;/col&gt; &lt;/row&gt; &lt;row&gt; &lt;col&gt;25&lt;/col&gt; &lt;col&gt;pluto&lt;/col&gt; &lt;/row&gt; &lt;/data&gt; &lt;/RowSet&gt;</p> <p>Can specify multiple keys separated by commas.</p> <p>The attribute's value can't be null.</p>

## Statement

(StatementValue, ParamResolvers?)

#Icon: default.png

The **Statement** Element is used by: *DBOperations*.

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

Attribute	Tyte	Description
<b>statementType</b>	required	<p>This element represents the type of statement to use.  We recommend using a CallableStatement to process stored procedures.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>CallableStatement</b></li> <li>• <b>PreparedStatement</b></li> </ul>

## StatementValue

(#PCDATA)

#Icon: default.png

The **StatementValue** Element is used by: *Statement*.

## StringDataProvider

(Field+)

The **StringDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.StringDataProvider</b> .

## StringSource

(#PCDATA)

The **StringSource** Element is used by: *Parameter*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>source</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.birt.report.internal.field.StringSource</b> .

## string-to-xml

(Description?)

Specifies that a particular string returned by EIS must be interpreted as XML.

The **string-to-xml** Element is used by: *xml-data*.

The following table show the element's attributes **string-to-xml**:

Attribute	Tyte	Description
<b>xpath</b>	required	XPath to identify the data to be interpreted as XML. The attribute's value can't be null.

## TableHeader

(Format)

Defines the configuration header on a sheet.

The **TableHeader** Element is used by: *SheetConfig*.

## TableRetriever

(Description?, DataRetriever\*)

Allows you to define helper running SQL select and return the result as an XML string in following form: `<RowSet> <data> <row> <col>value1</col> <col>value2</col> <col>value3</col> </row> <row> <col>value4</col> <col>value5</col> <col>value6</col> </row> .. <row> <col>valuex</col> <col>valuey</col> <col>valuez</col> </row> </data> </RowSet>`

The **TableRetriever** Element is used by: *RetrieverConfig*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>retriever</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework. This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.datahandling.utils.TableRetriever</b> .

## TestExtension

(Description?)

Test extension used only to debug the connector

The **TestExtension** Element is used by: *Extensions*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>extension</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>tests.unit.gvconnector.ExtensionTestClass</b> .
<b>id-ext</b>	required	The attribute's value can't be null.
<b>when</b>	optional	The attribute's default value is: <b>inout</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>in</b></li><li>• <b>out</b></li><li>• <b>inout</b></li></ul>
<b>prefix</b>	optional	
<b>suffix</b>	optional	

## test-service-call

(Description?, ServiceAlias?, ChangeGVBuffer?)

Test service.

Use property 'encoding' to decode the bytes of the buffer GVBuffer.

#Icon: GVtest.png

The **test-service-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **test-service-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.internal.TestServiceCall</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.

		The attribute's value can't be null.
<b>service</b>	required	<p>Type of test operation: - toupper: transforms all characters to uppercase.</p> <p>- tolower: transforms all characters to lowercase.</p> <p>- echo : do not change the body.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>toupper</b></li> <li>• <b>tolower</b></li> <li>• <b>echo</b></li> </ul>
<b>remove-properties</b>	optional	<p>If 'true' properties are removed from GVBuffer.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>exception-message</b>	optional	<p>If defined is thrown an exception of type VCLCallException, with the configured message.</p> <p>The attribute's value can't be null.</p>
<b>sleep-on-init</b>	optional	Simulate a delay in creation of the operation.
<b>sleep-on-perform</b>	optional	Simulate a delay in execution of the operation.
<b>ref-dp</b>	optional	<p>Name of Data Provider to use for output message creation.</p> <p>The Data Provider should return a string, as calls to testing services expect strings.</p>

## TextColumn

(Format)

Defines the configuration of the columns of type text in a sheet.

The **TextColumn** Element is used by: *SheetConfig*.

## Title

(Format)

Defines the configuration of the title of a sheet.

The **Title** Element is used by: *SheetConfig*.

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

Attribute	Type	Description
<b>rowsFromTop</b>	optional	<p>Offset in rows.</p> <p>Default 0.</p> <p>The attribute's value can't be null.</p>
<b>columnsFromLeft</b>	optional	Offset in columns.

Default 0.

The attribute's value can't be null.

---

## **to**

(**mail-address+**, **Description?**)

Contains the list of recipients of the email.

Is overwritten by the value of the GVBuffer property GV\_SMTP\_TO.

#Icon: default.png

The **to** Element is used by: *destinations*.

## **track-connection-by-tx**

**EMPTY**

An element to specify that all intermediate end(suspend) and start(resume) calls.

Also, all work on one tx will go through one connection.

A side effect of this (currently at least) is that a connection will only be usable by one tx until the tx commits.

The **track-connection-by-tx** Element is used by: *xa-datasource*.

## **track-statements**

(**#PCDATA**)

Whether to check for unclosed statements when a connection is returned to the pool and result sets are closed when a statement is closed/return to the prepared statement cache.

Valid values are: - **false**: do not track statements and results - **true**: track statements and result sets and warn when they are not closed - **nowarn**: track statements but do no warn about them being unclosed (the default)

Admitted values:

- **false**
- **true**
- **nowarn**

The element value can't be null.

The **track-statements** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## **Transaction**

(**Description?**)

This element contains the transaction definitions for a given service.

All service managed by the HTTPAdapter must have a Transaction element that defines is transaction requirements.

The **Transaction** Element is used by: *HTTPTransactions*.

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

Attribute	Tyte	Description
<b>system</b>	required	The attribute's value can't be null.
<b>service</b>	required	The attribute's value can't be null.
<b>transacted</b>	required	<p>This parameter defines if a service must be executed in transaction.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>yes</b></li><li>• <b>no</b></li></ul> <p>The attribute's value can't be null.</p>
<b>timeout</b>	optional	<p>This parameter defines the transaction timeout in seconds.</p> <p>The attribute's value can't be null.</p>
<b>close-on-response</b>	optional	<p>This parameter defines when transaction must be committed: before or after sending the response to the client. The default is before.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"><li>• <b>after</b></li><li>• <b>before</b></li></ul> <p>The attribute's value can't be null.</p>

## transaction-isolation

(#PCDATA)

Set java.sql.Connection transaction isolation level to use.

The constants defined in the interface Connection are the possible transaction isolation levels and include:

- TRANSACTION\_READ\_UNCOMMITTED
- TRANSACTION\_READ\_COMMITTED
- TRANSACTION\_REPEATABLE\_READ
- TRANSACTION\_SERIALIZABLE
- TRANSACTION\_NONE

Admitted values:

- **TRANSACTION\_READ\_UNCOMMITTED**
- **TRANSACTION\_READ\_COMMITTED**
- **TRANSACTION\_REPEATABLE\_READ**
- **TRANSACTION\_SERIALIZABLE**
- **TRANSACTION\_NONE**



The element value can't be null.

The **transaction-isolation** Element is used by: *local-tx-datasource*, *xa-datasource*.

## Transactions

(Description?, (UserTransaction | GenericTransaction)\*)

The connector is able to explicitly manage transactions.

It will use the User Transactions defined in this section.

#SortChild

The **Transactions** Element is used by: *GVConnectorConfiguration*.

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

Attribute	Type	Description
<b>default-transaction-id</b>	optional	If not defined, sets the value to "default"

## Transport

(Description?, (soap | soap12 | rest | jms)+)

Transport configured for webservices.

The **Transport** Element is used by: *WebService*.

## type-mapping

(#PCDATA)

This element declares a default type mapping for this datasource.

The type mapping should match a type-mapping/name element from standardjbosscmp-jdbc.xml.

The element value can't be null.

The **type-mapping** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## UDDI

(Description?, (JAXMLRegistry), Proxy?)

The **UDDI** Element is used by: *GVWebServices*.

## use-java-context

(#PCDATA)

Setting this to "false" will bind the DataSource into global jndi.

Admitted values:

- **true**
- **false**

The element value can't be null.

The **use-java-context** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## UserDef

(Description?)

The **UserDef** Element is used by: *PwCbBasicHandler*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>password</b>	required	#Encrypted The attribute's value can't be null.

## userJbpm

(Description?)

The **userJbpm** Element is used by: *UsersJbpm*.

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

Attribute	Tyte	Description
<b>user</b>	required	

## user-name

(#PCDATA)

Specify the default username used when creating a new connection.

The element value can't be null.

The **user-name** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## UsersJbpm

(Description?, userJbpm\*)

The **UsersJbpm** Element is used by: *GVJbpmListener*.

## UserTransaction

(Description?, JNDIHelper?)

Performs transaction management using the UserTransaction according to the JTA specification.

The **UserTransaction** Element is used by: *Transactions*.

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

Attribute	Tytle	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>transaction</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.transaction.GVCUserTransaction</b> .
<b>id-transaction</b>	required	Unique id of the UserTransaction.  The attribute's value can't be null.

## validationQuery

(#PCDATA)

Apache DBCP pooled connection validation query.

The **validationQuery** Element is used by: *PoolParameters*.

## valid-connection-checker-class-name

(#PCDATA)

An org.jboss.resource.adapter.jdbc.ValidConnectionChecker that provides a SQLException isValidConnection(Connection e) method to validate a connection is valid.

An exception means the connection is destroyed.

This overrides the check-valid-connection-sql when present.

The element value can't be null.

The **valid-connection-checker-class-name** Element is used by: *local-tx-datasource*, *no-tx-datasource*, *xa-datasource*.

## VCLChannel

(Description?, VCLOperation\*)

Communication Channel based on GreenVulcano ESB Virtual Communication Layer.

#SortChild

The **VCLChannel** Element is used by: *Channels*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>channel</b> .
<b>class</b>	fixed	This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.connector.channels.gvocl.VCLChannel</b> .
<b>id-channel</b>	required	Unique identifier of the channel.  The attribute's value can't be null.
<b>connection-policy</b>	required	Defines the connection policy of the channel: <ul style="list-style-type: none"><li>• <b>Lazy</b> The channel is created and connected the first time that it needs.</li><li>• <b>Startup</b> The channel is created and connected at startup of the connector.</li><li>• <b>Everytime</b> The channel is connected every time you use it, and disconnected immediately after use.</li></ul> The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>lazy</b></li><li>• <b>startup</b></li><li>• <b>everytime</b></li></ul>

## VCLOperation

```
(Description?, (j2ee-ejb-call | j2ee-jca-call | jmx-call | smtp-call | pop-call  
| ws-call | http-call | hl7-call | jbpmp-call | jbpmp-task-call | openspcoop-call  
| db-call | dh-call | ldap-search-call | ldap-update-call | extract-data-call |  
routed-call | excel-call | excelreader-call | birt-report-call | rules-call | test-  
service-call | generic-call | shell-call | filereader-call | filewriter-call |  
filemanager-call | fsmonitor-call | remotemanager-call | rsh-call | rsh-filereader-  
call | rsh-filewriter-call | mm7-decode-call | mm7-submit-call | jms-dequeue |  
routed-dequeue | jms-enqueue | routed-enqueue))
```

Defines the Virtual Communication Layer plug-in used for a specific communication primitive

The **VCLOperation** Element is used by: *VCLChannel*.

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

Attribute	Tyte	Description
<b>id-operation</b>	required	Communication primitive.  The attribute's admitted values are: <ul style="list-style-type: none"> <li>• <b>Request</b></li> <li>• <b>RequestReply</b></li> <li>• <b>GetReply</b></li> <li>• <b>GetRequest</b></li> <li>• <b>SendReply</b></li> <li>• <b>ReceiveMessage</b></li> <li>• <b>SendMessage</b></li> </ul>

## VCLRouting

(Description?)

Associates a routing condition defined in a routing operation (routed-call, routed-enqueue, routed-dequeue) with a given sub-operation.

The order of elements VCLRouting also defines the order of evaluation conditions.  
Will perform the operation corresponding to the first condition verified.

The **VCLRouting** Element is used by: *routed-call, routed-dequeue, routed-enqueue*.

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

Attribute	Tyte	Description
<b>condition</b>	required	Routing condition specified by an element of type GVBufferCondition.  The attribute's value can't be null.
<b>operation-name</b>	required	Operation to execute if the condition specified with the parameter 'condition' is verified.

## WebService

(Description?, SOARegistry?, WSOperation+, Transport?, EngageModule\*)

Definition of business web service.

The ESB's service input GVBuffer contains the following properties: - WS\_SERVICE : name of the invoked webservice - WS\_OPERATION : name of the invoked webservice's operation - WS\_REMOTE\_ADDR : remote address of the invoking client

#SortChild

The **WebService** Element is used by: *BusinessWebServices*.

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

Attribute	Tyte	Description
<b>web-service</b>	required	The attribute's value can't be null.

<b>force-https</b>	optional	<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
<b>soap-address</b>	optional	<p>The soap:address will be exactly the here specified url. As a difference with the default-soap-address, it won't be made any composition with the service name.</p> <p>If default-soap-address is not specified, this is mandatory.</p> <p>The attribute's value can't be null.</p>
<b>input-xsd</b>	optional	<p>The path of the XSD that defines the types of input that will be declared in the generated WSDL. May contain an absolute path or a relative path, in which case, is relative to <code>\${{gv.app.home}}/xmlconfig/xsds</code>.</p> <p>May contain placeholders such as <code>\${{gv.app.home}}</code>. May also include the types of output, in this case does not specify the parameter 'output-xsd'.</p> <p>The attribute's value can't be null.</p>
<b>output-xsd</b>	optional	<p>The path of the XSD that defines the types of output that will be declared in the generated WSDL. May contain an absolute path or a relative path, in which case, is relative to <code>\${{gv.app.home}}/xsds</code>.</p> <p>If not specified only the parameter 'input-xsd' will be used.</p> <p>The attribute's value can't be null.</p>
<b>targetNS-from-xsd</b>	optional	<p>Defines if the target namespace of the types in the WSDL shall be that specified in the XSD input. If "false", the target namespace is: <code>http://www.greenvulcano.it/greenvulcano</code></p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul> <p>The attribute's value can't be null.</p>
<b>useOriginalwsdl</b>	optional	<p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>

## WLSSubjectBuilder

(Description?)

Java class that defines the EJB home interface.

Note that if the EJB is installed on the same application server of GreenVulcanoESB, then you can also specify the local home interface.

The SubjectBuilder definition for the Weblogic 8 application server

The element value can't be null.

The **WLSSubjectBuilder** Element is used by: *j2ee-ejb-call*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>subject-builder</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.jaas.WLSSubjectBuilder</b> .
<b>provider-url</b>	required	URL for the application server connection. See the application server documentation for the format of this parameter.  The attribute's value can't be null.
<b>security-principal</b>	required	User name to connect the application server.  The attribute's value can't be null.
<b>security-credentials</b>	required	Password to connect the application server.  #Encrypted  The attribute's value can't be null.

## ws-call

(Description?, AxisWebServiceInvoker, Proxy?)

Defines the parameters for calling a Web Service.

#Icon: GVWsCall.png #Category: Web/Mail

The **ws-call** Element is used by: *routed-call*, *VCLOperation*.

The following table show the element's attributes **ws-call**:

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>call</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.virtual.ws.WSCallOperation</b> .
<b>name</b>	required	Operation name. Used in the 'Flow' section to associate workflow nodes to VCL operations.

The attribute's value can't be null.

## WSDLInfo

(Description?)

Return a WSDL through his URL.

The **WSDLInfo** Element is used by: *AxisWebServiceInvoker*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>wsdlinfo</b> .
<b>wsdl</b>	required	WSDL file URL.  The attribute's value can't be null.

## WSOperation

(Description?, Binding, PolicyData?)

The **WSOperation** Element is used by: *WebService*.

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

Attribute	Tyte	Description
<b>operation-qname</b>	required	Qualified Name (QName) of the operation exposed by the web service. If the namespace is present, it must be specified in braces:  {namespace}localname  The attribute's value can't be null.
<b>soap-action</b>	optional	MIME Header SOAPAction of the HTTP request. If not specified is set to SERVICE/OPERATION  The attribute's value can't be null.
<b>ref-dp</b>	optional	DataProvider be used to send the reply to the caller. The DataProvider will return a MessageContext to be sent as a reply. If not used, the webservice adapter expects a org.apache.axiom.soap.SOAPEnvelope as a field object of GVBuffer.  The attribute's value can't be null.



## xa-datasource

(jndi-name, use-java-context?, track-connection-by-tx, xa-datasource-class, xa-datasource-property\*, isSameRM-override-value?, transaction-isolation?, user-name?, password?, (application-managed-security | security-domain | security-domain-and-application)?, min-pool-size?, max-pool-size?, blocking-timeout-millis?, idle-timeout-minutes?, no-tx-separate-pools?, new-connection-sql?, check-valid-connection-sql?, valid-connection-checker-class-name?, exception-sorter-class-name?, track-statements?, prepared-statement-cache-size?, depends\*, type-mapping?)

Specify a jca-jdbc XADatasource wrapper.

The **xa-datasource** Element is used by: *GVDataSources*.

## xa-datasource-class

(#PCDATA)

The fully qualified name of the javax.sql.XADataSource implementation class.

The element value can't be null.

The **xa-datasource-class** Element is used by: *xa-datasource*.

## xa-datasource-property

(#PCDATA)

Specify a property to assign to the XADataSource implementation class.

Each property is identified by the name attribute and the property value is given by the xa-datasource-property element content.

The property is mapped onto the XADataSource implementation by looking for a JavaBeans style getter method for the property name.

If found, the value of the property is set using the JavaBeans setter with the element text translated to the true property type using the java.beans.PropertyEditor for the type.

The element value can't be null.

The **xa-datasource-property** Element is used by: *xa-datasource*.

The following table show the element's attributes **xa-datasource-property**:

Attribute	Tyte	Description
<b>name</b>	required	The xa-datasource-property name attribute specifies the name of the XADataSource attribute the xa-datasource-property element content provides the value of.  The attribute's value can't be null.

## XAHelper

(Description?, JNDIHelper?)

The **XAHelper** Element is used by: *jms-dequeue, jms-enqueue*.

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

Attribute	Tyte	Description
<b>auto-enlist</b>	optional	#Icon: default.png  The attribute's default value is: <b>false</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>transaction-status</b>	optional	#Icon: default.png  The attribute's default value is: <b>TMSUCCESS</b> .  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>TMSUCCESS</b></li><li>• <b>TMFAIL</b></li></ul> The attribute's value can't be null.

## xmbean

ANY

The xmbean element specifies a nested JBoss XMBean descriptor fragment.

Its supported content model is the same as the mbean element of the jboss\_xmbean\_1\_0.dtd

Ex: <xmbean> ...  
</xmbean>

The element value can't be null.

The **xmbean** Element is used by: *mbean*.

## xml-data

(Description?, string-to-xml\*)

According to the JCA specification, the Record may contain only simple data types or other records.

However, it is frequently that some return strings contain XML data.

This element allows you to specify the xpath for string data to be transformed into XML.

The **xml-data** Element is used by: *j2ee-jca-call*.

## XMLEventCollectionDataProvider

(Field+)

This **DataProvider**, reads an XML with a pull/push parser and executes fields bound to xml events.

At the moment, only pull parser is handled, using the AXIOM implementation.

Called fields are the following: - **START\_DOCUMENT**; - **END\_DOCUMENT**; - **NAMESPACE**; - **PROCESSING\_INSTRUCTION**; - **ENTITY\_REFERENCE**; - **DTD**; - **ATTRIBUTE**; - **START\_ELEMENT**; - **END\_ELEMENT**; - **CHARACTERS**.

In addition to 'input' and 'output' variables, following are bound to the context of expressions:  
- environment: an helper map to pass objects between field; - parser: the pull/push parser.

The **XMLEventCollectionDataProvider** Element is used by: *DataProviders*.

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

Attribute	Tyte	Description
<b>name</b>	required	The attribute's value can't be null.
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>dataProvider</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.gvdp.impl.XMLEventCollectionDataProvider</b> .
<b>source-selector</b>	optional	OGNL expression to provide the root object to be passed to the expression stated in the 'Field' items.

## xml-processor

(Description?)

If this element is specified, the plugin will read the file directly parsed as an XML.

The **xml-processor** Element is used by: *filereader-call*, *rsh-filereader-call*.

The following table show the element's attributes **xml-processor**:

Attribute	Tyte	Description
<b>as-xml</b>	optional	If true the file is parsed as an XML. Default is false.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul> The attribute's value can't be null.
<b>use-axiom</b>	optional	If true uses AXIOM instead of DOM to parse the file. Default is false.  The attribute's admitted values are: <ul style="list-style-type: none"><li>• <b>true</b></li><li>• <b>false</b></li></ul>

		The attribute's value can't be null.
<b>validating</b>	optional	<p>If true the XML representing the file is validated. This option applies only if 'as-xml' is true. Default is false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
		The attribute's value can't be null.
<b>namespace-aware</b>	optional	<p>If true the DOM keeps informations about the declared namespaces on the file. This option applies only if 'as-xml' is true. Default is false.</p> <p>The attribute's admitted values are:</p> <ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>
		The attribute's value can't be null.

## XPathNamespace

(Description?)

Defines a namespace that can be used in XPath.

The 'gvesb' prefix is reserved.

#CompositeLabel: || @prefix | : | @namespace

The **XPathNamespace** Element is used by: *AxisWebServiceInvoker*.

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

Attribute	Type	Description
<b>prefix</b>	required	<p>Namespace prefix.</p> <p>The attribute's value can't be null.</p>
<b>namespace</b>	optional	<p>Namespace.</p> <p>If not set, the prefix is associated to the default namespace.</p> <p>The attribute's value can't be null.</p>

## XPathParamResolver

(Description?, Param+)

Defines the type of Resolver based on XPath.

#Icon: default.png

The **XPathParamResolver** Element is used by: *ParamResolver*.

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

Attribute	Tyte	Description
<b>type</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>resolver</b> .
<b>class</b>	fixed	Unmodifiable. Used by GreenVulcanoESB factory framework.  This attribute <i>must</i> assume the value <b>it.greenvulcano.gvesb.j2ee.db.resolver.XPathResolver</b> .

# Chapter 3

## Index

---

Advanced, 4  
AliasMapping, 5  
application-managed-security, 5  
arg, 5  
ArrayDataProvider, 6  
attachments, 6  
attribute, 6  
Axis2MessageContextDataProvider, 8  
Axis2SAAJSOAPMessageDataProvider, 8  
AxisExtra, 9  
AxisWebServiceInvoker, 9  
bcc, 10  
Binding, 10  
birt-report-call, 11  
blocking-timeout-millis, 12  
BusinessWebServices, 12  
Call, 13  
CallDescriptor, 14  
call-parameter, 15  
CallSPFormatter, 15  
CallSPSimpleBaseFormatter, 16  
CatalogMapping, 16  
cc, 17  
ChangeGVBuffer, 17  
Channels, 19  
check-valid-connection-sql, 19  
cmd, 19  
cmd-array-elem, 20  
CollectionDataProvider, 21  
ComplexExtension, 21  
CompressExtension, 22  
Configuration, 22  
Connection, 22  
connectionFactory, 24  
connectionProperty, 25  
connection-property, 25  
Connections, 26  
connection-url, 26

- ConnectorService, 26
- ConnectorServices, 26
- constructor, 27
- constructor-args, 27
- constructor-param, 27
- CustomMapping, 28
- CustomProtocol, 28
- DataProviders, 28
- DataRetriever, 29
- DataSourceConnection, 30
- DataSourceConnectionBuilder, 30
- DateColumn, 31
- db-call, 31
- DBOBuilder, 32
- DBOCallSP, 33
- DBOFlatSelect, 34
- DBOInsert, 35
- DBOInsertOrUpdate, 36
- DBOMultiFlatSelect, 37
- DBOperations, 38
- DBOSelect, 38
- DBOThreadSelect, 39
- DBOUpdate, 40
- DBOUpdateOrInsert, 41
- DecompressExtension, 42
- DecryptExtension, 42
- DefaultMapping, 43
- depends, 43
- depends-list, 44
- depends-list-element, 44
- Description, 44
- destinations, 46
- DHAlias, 46
- DHAliasList, 46
- dh-call, 46
- DHSource, 47
- DHVariable, 48
- DHVariables, 48
- DMLWriteFormatter, 49
- Driver, 49
- driver-class, 50
- DriverConnectionBuilder, 50
- DriverPoolConnectionBuilder, 51
- Drivers, 52
- DTEExtension, 52
- EncryptExtension, 52
- endpoint, 53
- EngageModule, 54
- Engine, 54
- env-property, 55

- excel-call, 56
- excelreader-call, 56
- ExcelReportRender, 57
- exception-sorter-class-name, 57
- Expression, 58
- Extended, 58
- Extension, 58
- Extensions, 59
- External-Component, 59
- ExternalComponents, 60
- External-Params, 60
- extract-data, 60
- extract-data-call, 60
- Field, 61
- FieldFormatter, 62
- FieldFormatters, 63
- file-attachment, 64
- FileCommands, 64
- FileCopyCommand, 64
- FileDeleteCommand, 66
- FileFilter, 67
- filemanager-call, 67
- FileMonitorStatus, 68
- FileMoveCommand, 68
- filereader-call, 70
- FileSearchCommand, 71
- FileUnZipCommand, 73
- filewriter-call, 73
- FileZipCommand, 75
- FixedSource, 76
- Font, 77
- Format, 78
- fsmonitor-call, 79
- FTPManager, 80
- generic-call, 81
- GenericRetriever, 82
- GenericTransaction, 82
- get-attribute, 83
- GreenVulcanoCoreChannel, 83
- GreenVulcanoWebService, 84
- GreenVulcanoWebServices, 85
- groupJbpm, 85
- GroupsJbpm, 85
- GVAdapterOpenSpCoop, 85
- GVAdapters, 86
- GVBIRTReportConfiguration, 86
- gvBuffer, 86
- GVBufferChangeDataProvider, 87
- GVBufferCondition, 87
- GVBufferFieldOutput, 88



GVBufferMapping, 89  
GVBufferParam, 89  
GVBufferParamResolver, 90  
GVConnection, 90  
GVConnectorConfiguration, 90  
GVCoreApplication, 91  
GVDataHandlerConfiguration, 92  
GVDataProviderManager, 92  
GVDataSources, 93  
GVExcelCreatorConfiguration, 93  
GVExcelReport, 93  
GVExcelWorkbook, 94  
GVExcelWorkbookConfiguration, 94  
GVHL7ListenerManager, 95  
GVHTTPAdapter, 95  
GVJBPMConfiguration, 95  
GVJbpmListener, 96  
GVJbpmListeners, 96  
GVJbpmTaskListenerManager, 96  
GVJdbc, 97  
GVJDBCConnectionBuilder, 97  
GVKnowledgeBaseConfig, 98  
GVMailServices, 98  
GVRulesConfigManager, 98  
GVSQLExceptionMapping, 99  
GVWebServices, 99  
HL7Activation, 99  
HL7Activations, 100  
HL7Applications, 100  
hl7-call, 100  
HL7Listener, 101  
HL7Listeners, 101  
HTMLReportRender, 101  
http-call, 102  
HttpMethodDataProvider, 102  
HTTPTransactions, 103  
IdentityInfo, 103  
idle-timeout-minutes, 103  
imap, 104  
InMemoryMonitorStatus, 107  
InputStreamDataProvider, 108  
invoke-method, 108  
invoke-parameter, 108  
isSameRM-override-value, 110  
j2ee-ejb-call, 110  
j2ee-jca-call, 111  
JavaScriptRetriever, 113  
JAXMLRegistry, 113  
jbpm-call, 114  
jbpm-task-call, 115

- jca-connection-spec, 116
- jca-interaction-spec, 116
- JdbcConnection, 117
- jms, 118
- JMSBytesMessageDataProvider, 118
- jms-dequeue, 119
- jms-enqueue, 122
- JMSMapMessageDataProvider, 125
- JMSObjectMessageDataProvider, 126
- JMSStreamMessageDataProvider, 126
- JMSTextMessageDataProvider, 126
- jmx-call, 127
- JNDIHelper, 128
- jndi-name, 129
- LDAPContext, 129
- LDAPFilter, 130
- ldap-search-call, 130
- ldap-update-call, 132
- ListItem, 133
- LocalFileSystemMonitor, 133
- local-tx-datasource, 134
- mail-address, 134
- mail-message, 134
- mail-properties, 135
- mail-property, 138
- mail-service, 138
- MapDataProvider, 140
- max-pool-size, 140
- mbean, 140
- message-body, 141
- message-selector, 141
- message-text, 142
- method, 143
- mime, 143
- min-pool-size, 146
- mm7-decode-call, 146
- mm7-submit-call, 147
- ModuleProperty, 148
- NameValueParam, 149
- new-connection-sql, 149
- no-tx-datasource, 149
- no-tx-separate-pools, 150
- NumberColumn, 150
- ObjectDataProvider, 150
- OGNLScript, 150
- openspcoop:accesso-registro, 151
- openspcoop:attachments, 151
- openspcoop:azione, 151
- openspcoop:cache, 151
- openspcoop:configurazione, 152

- openspcoop:connettore, 152
- openspcoop:correlazione-applicativa, 152
- openspcoop:credenziali, 153
- openspcoop:default, 153
- openspcoop:destinazione, 153
- openspcoop:elemento, 153
- openspcoop:gateway, 154
- openspcoop:gestione-errore, 154
- openspcoop:indirizzo-telematico, 155
- openspcoop:inoltro-buste-non-riscontrate, 155
- openspcoop:integration-manager, 155
- openspcoop:invocazione-porta, 156
- openspcoop:invocazione-servizio, 156
- openspcoop:messaggi-diagnostici, 157
- openspcoop:openspcoop, 157
- openspcoop:openspcoop-appender, 158
- openspcoop:parameter, 158
- openspcoop:porta-applicativa, 158
- openspcoop:porta-delegata, 159
- openspcoop:property, 160
- openspcoop:registro, 160
- openspcoop:request-flow, 161
- openspcoop:response-flow, 161
- openspcoop:risposta-asincrona, 161
- openspcoop:risposte-spcoop, 162
- openspcoop:route, 162
- openspcoop:routing-table, 162
- openspcoop:servizio, 162
- openspcoop:servizio-applicativo, 163
- openspcoop:set-spcoop-property, 163
- openspcoop:soggetto-spcoop, 163
- openspcoop:soggetto-spcoop-erogatore, 164
- openspcoop:soggetto-virtuale, 164
- openspcoop:tracciamento, 165
- openspcoop:validazione-buste-egov, 165
- openspcoop:validazione-contenuti-applicativi, 166
- openspcoop:ws-security, 166
- openspcoop-call, 166
- OperationDetails, 169
- Option, 169
- Options, 170
- Param, 170
- parameter, 171
- Parameter, 171
- Parameters, 172
- param-gvbuffer, 172
- ParamJbpm, 172
- ParamResolver, 172
- ParamResolvers, 173
- ParamsJbpm, 173

ParamsTask, 173  
password, 173  
PasswordCallback, 173  
PDFReportRender, 174  
PolicyData, 174  
PoolParameters, 175  
pop3, 176  
pop-call, 178  
prepared-statement-cache-size, 179  
prep-statement, 179  
Properties, 180  
property, 180  
Property, 181  
PropertyCompare, 181  
PropertyDef, 182  
Property-Field, 183  
Proxy, 184  
PwCbBasicHandler, 184  
QueryFormatter, 185  
QueryXMLBaseFormatter, 185  
RangeDef, 186  
RemoteCommands, 187  
RemoteDeleteCommand, 187  
RemoteDownloadCommand, 188  
RemoteFileSystemMonitor, 189  
remotemanager-call, 190  
RemoteMoveCommand, 191  
RemoteSearchCommand, 192  
RemoteUploadCommand, 193  
Renders, 194  
Report, 195  
ReportGroup, 195  
ReportGroups, 195  
rest, 196  
ResultFilter, 196  
ResultSet, 197  
RetCodeConversionIn, 198  
RetCodeConversionOut, 198  
RetCodeField, 198  
RetrieverConfig, 199  
routed-call, 199  
routed-dequeue, 200  
routed-enqueue, 201  
rsh-call, 202  
rsh-filereader-call, 203  
rsh-filewriter-call, 204  
RSHServiceClientConfiguration, 206  
RSHServiceClientLocal, 206  
RSHServiceClientRMI, 207  
RuleResource, 207

- rules-call, 208
- Script, 209
- security-domain, 209
- security-domain-and-application, 209
- ServiceAlias, 210
- ServletMapping, 210
- ServletMappings, 210
- set-attribute, 210
- SFTPManager, 212
- Sheet, 213
- SheetConfig, 214
- shell-call, 214
- Simpleformatter, 216
- SimpleGVBufferBodyBuilder, 216
- smtp, 217
- smtp-call, 220
- soap, 221
- soap12, 221
- SOARegistry, 222
- spec-constructor, 222
- spec-property, 223
- SPOutputParam, 223
- SPOutputParameter, 223
- SPOutputParameters, 224
- SPOutputParams, 225
- SQLErrorCode, 225
- statement, 225
- Statement, 226
- StatementValue, 227
- StringDataProvider, 227
- StringSource, 227
- string-to-xml, 227
- TableHeader, 228
- TableRetriever, 228
- TestExtension, 228
- test-service-call, 229
- TextColumn, 230
- Title, 230
- to, 231
- track-connection-by-tx, 231
- track-statements, 231
- Transaction, 231
- transaction-isolation, 232
- Transactions, 233
- Transport, 233
- type-mapping, 233
- UDDI, 233
- use-java-context, 233
- UserDef, 234
- userJbpm, 234

- user-name, 234
- UsersJbpm, 234
- UserTransaction, 235
- validationQuery, 235
- valid-connection-checker-class-name, 235
- VCLChannel, 235
- VCLOperation, 236
- VCLRouting, 237
- WebService, 237
- WLSSubjectBuilder, 238
- ws-call, 239
- WSDLInfo, 240
- WSOperation, 240
- xa-datasource, 241
- xa-datasource-class, 241
- xa-datasource-property, 241
- XAHelper, 241
- xmbean, 242
- xml-data, 242
- XMLEventCollectionDataProvider, 242
- xml-processor, 243
- XPathNamespace, 244
- XPathParamResolver, 244