

The logo consists of the word "basware" in a white, lowercase, sans-serif font, centered within a solid blue rounded rectangular background.

basware

BaswareONE SOAP interface

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REVISION HISTORY

Rev	Description of the change	Author	Date
1.0	Initial release	Niels Grootvriendt	16/04/2012
1.1	Basware styling	Thomas Dekeyser	15/10/2015

1 Introduction

Some companies want to connect to BaswareONE, but want to integrate their application instead of using Bizconnect. Those companies can connect to BaswareONE using the following scenarios.

2 Authentication

BaswareONE allows 2 types of authentication:

- Basic Authentication
- Certificate Logon

Which type is to be used depends on the configuration of the server you want to connect from. So, for each request, you should provide the correct authentication type.

3 Scenario's with message flows

3.1 Synchronous upload of files to BaswareONE

3.1.1 Without signing the file

- Create a file on the back end system. This file can be encrypted, but this will have no added value when using a HTTPS connection. A HTTPS connection will be required by default.
- Push the file to BaswareONE as described in 4.4.
- The BaswareONE HTTP server will receive the file and pass a part of it to the Document Router.
- This Document Router will decide what to do with it and give a response to the BaswareONE HTTP server. When the file was encrypted, the Document Router will have to figure out what to do with the file based on the context of the file, and not on the content. Decrypting the file will happen later on in the process.
- If the response was positive, the HTTP server will insert the document with the correct parameters into BaswareONE and returning the requester a response with audit information that can be used in the back end system.
- If the response was negative or the insert didn't work for some reason, an error is returned to the requester with some information about the error.

3.1.2 With signing a file

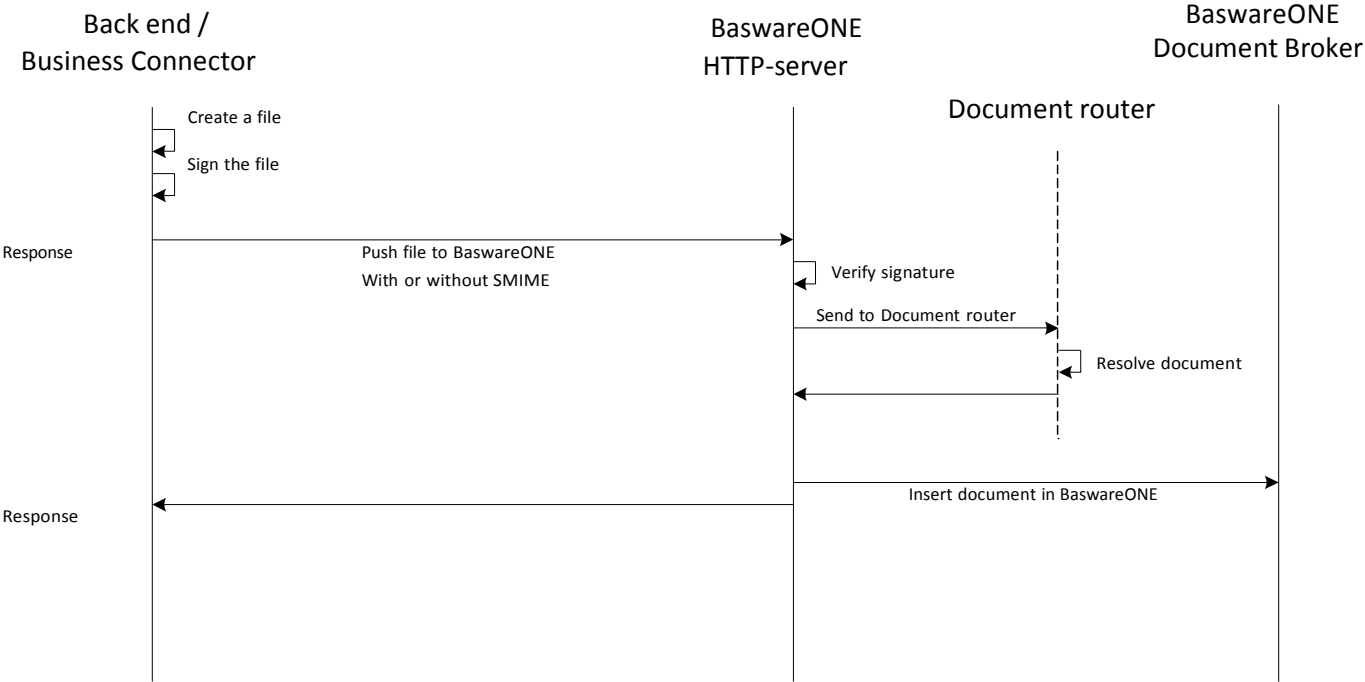
Create a file on the back end system (this can be encrypted, but see 3.1.1) and sign the file. Make sure the file is signed using S/Mime so the signature is part of the file!

Push the file to BaswareONE HTTP server as described in 4.2.

The BaswareONE HTTP server will first try to verify the signature based on the user profile and will pass the file without signature to the Document Router.

From now on, it will be processed as any other file as described above in 3.1.1.

3.1.3 Message flow



3.2 Asynchronous upload of files to BaswareONE

3.2.1 Server side setup

The asynchronous upload can be used for systems with a high load. The main part in having an asynchronous system is the usage of a message-queue between receiving the message and the BaswareONE back-end. In this way, the server remains running and accepting messages.

3.2.2 Client side response

For the client, the only difference with synchronous uploading is the response, which is received.

Sample result

```
<upload>
  <id>77460</id>
  <contentlength>4176</contentlength>
  <checksum type="md5">BBA80A67A0343A0168372731826CAC0</checksum>
  <time format="CCYYMMDDHHMMSS">20050202121516</time>
  <ref1>clientref1</ref1>
  <ref2>clientref2</ref2>
</upload>
```

3.3 Downloading files from BaswareONE

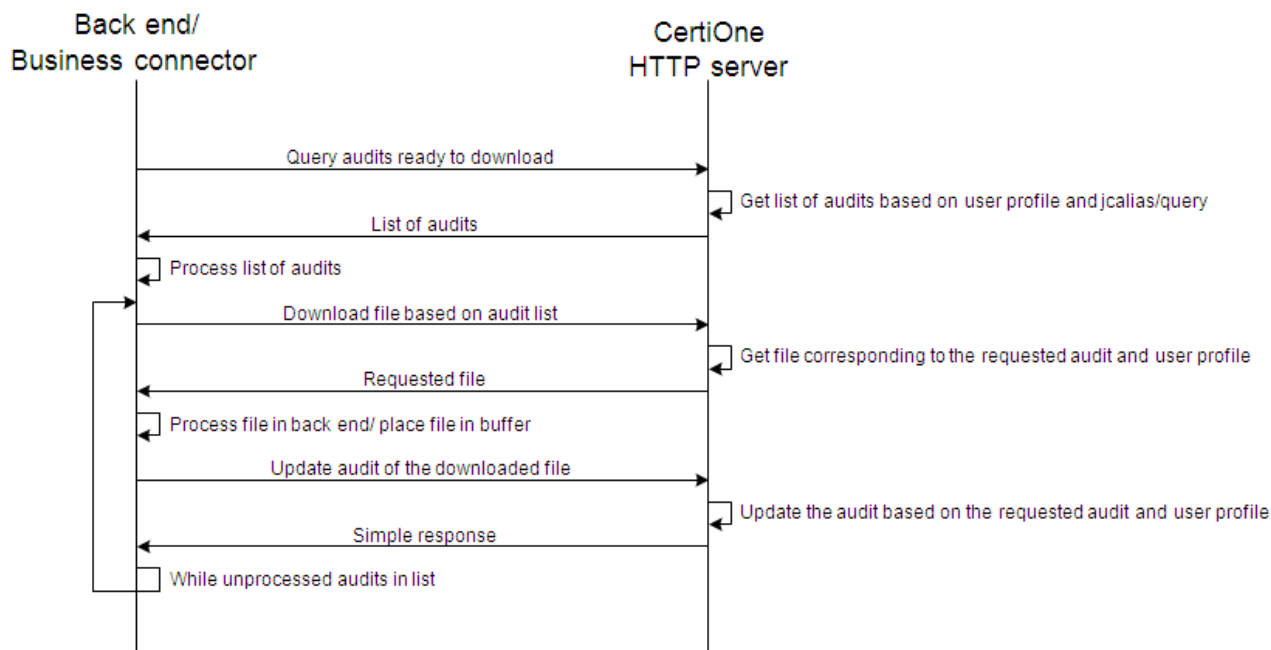
3.3.1 Downloading files

See which messages are ready to download by launching an URL as specified in 4.5. This will return a list of audit records in XML- format. This list will depend on the supplied user profile.

For each audit record in that list

- You can ask to download an audit file associated with that audit as specified in 4.6. This will return the file as-is.
- You can then process this file on the back end or put it ready to process.
- When done so, you can update the status of that audit on BaswareONE by requesting so as specified in 4.7. This way you won't download any audit files twice.

3.3.2 Message flow



4 Communicating through web services

All functionality described above can also be used by means of web services. BaswareONE HTTP Server provides a JCSOAP SOAP Web Service for data exchange with Web Services enabled applications. It is an SOAP-RPC (RPC is a Remote Procedure Call) web service.

Using that service it is possible to exchange data with BaswareONE:
upload of files, download of files.

The JCSOAP SOAP web service is a wrapper which process SOAP requests. Internally it calls standard HTTP Server, parses returned HTTP response and constructs SOAP response. It means that parameters which you can usually pass to standard HTTP Server can be included into JCSOAP Request parameters.

4.1 URLs, SSL

Environment	URL	Port
Test	https://www.ct.baswareone.com/httpserver	443
Production	https://www.baswareone.com/httpserver	443

Testing URL's

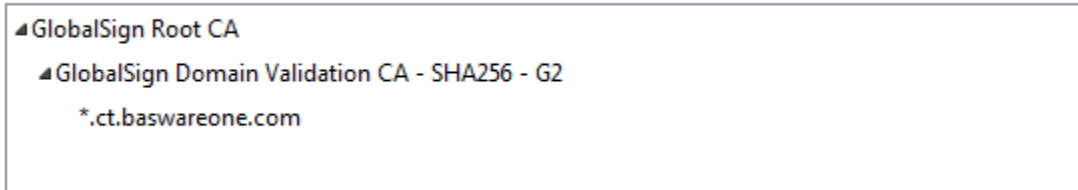
Environment	URL	Port

Test	https://www.ct.baswareone.com/httpserver?ai=blank	443
Production	https://www.baswareone.com/httpserver?ai=blank	443

The SSL webserver Certificates used for the HTTPS connection can be wildcard certificates (like on "*.BaswareONE.com")

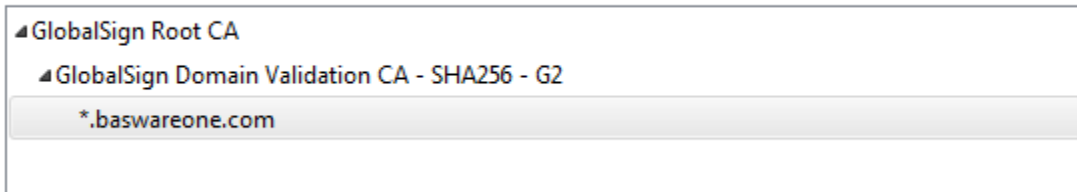
For example: Test certificates

Certificate Hierarchy



For example: production certificates

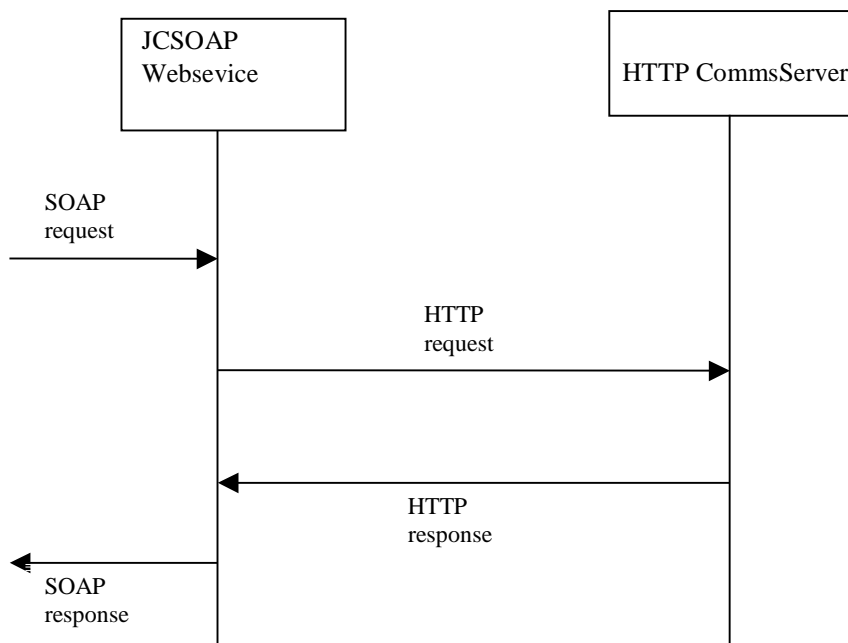
Certificate Hierarchy



The SSL Certificate chain can be easily retrieved by using any browser

Hint: <http://www.hosting.com/support/ssl/check-validity-of-ssl-certificate>

4.2 SOAP request flow



4.3 WSDL

Below you will find a WSDL definition of the Jcsoap SOAP-RPC webservice. It has only one remote method (called execute). A JCDBRequest parameter for that remote service should be provided. Parameters in that JCDBRequest define what kind of operation will be done at server side (upload or download of files), file to be uploading and also they can provide user credentials for action invocation, but usually that credentials will be taken from HTTP server authentication. The returned JCDBResponse will contain data which you have requested. In case of data uploading the result of the file upload will be returned.

In case of error a JCDBResponse will contain an error code and an error message.

```
<?xml version="1.0" encoding="UTF-8"?>
<wSDL:definitions targetNamespace="http://www.jcommerce.net/wSDL"
xmlns="http://schemas.xmlsoap.org/wSDL/" xmlns:apacheSOAP="http://xml.apache.org/xml-soap"
xmlns:impl="http://www.jcommerce.net/wSDL" xmlns:intf="http://www.jcommerce.net/wSDL"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:wSDL="http://schemas.xmlsoap.org/wSDL/"
xmlns:wSDLsoap="http://schemas.xmlsoap.org/wSDL/soap/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <wSDL:types>
    <schema targetNamespace="http://www.jcommerce.net/wSDL"
xmlns="http://www.w3.org/2001/XMLSchema">
      <import namespace="http://schemas.xmlsoap.org/soap/encoding/" />
      <complexType name="ArrayOf_xsd_string">
        <complexContent>
          <restriction base="soapenc:Array">
            <attribute ref="soapenc:arrayType" wSDL:arrayType="xsd:string[]" />
          </restriction>
        </complexContent>
      </complexType>
      <complexType name="Audit">
        <sequence>
          <element name="customdate" type="xsd:long" />
          <element name="misc8" nillable="true" type="xsd:string" />
          <element name="customStatus5" type="xsd:int" />
          <element name="misc7" nillable="true" type="xsd:string" />
          <element name="customStatus4" type="xsd:int" />
          <element name="misc6" nillable="true" type="xsd:string" />
          <element name="customStatus3" type="xsd:int" />
          <element name="misc5" nillable="true" type="xsd:string" />
          <element name="customStatus2" type="xsd:int" />
          <element name="misc4" nillable="true" type="xsd:string" />
          <element name="sentreceiveddate" type="xsd:long" />
          <element name="misc3" nillable="true" type="xsd:string" />
          <element name="misc2" nillable="true" type="xsd:string" />
          <element name="sender" nillable="true" type="xsd:string" />
          <element name="misc1" nillable="true" type="xsd:string" />
          <element name="enabled" type="xsd:boolean" />
          <element name="businessprocessdate" type="xsd:long" />
          <element name="traceid" nillable="true" type="xsd:string" />
          <element name="importexportdate" type="xsd:long" />
          <element name="modificationdate" type="xsd:long" />
          <element name="network" nillable="true" type="xsd:string" />
          <element name="networkreference" nillable="true" type="xsd:string" />
          <element name="contentType" type="xsd:int" />
          <element name="tpreceiveddate" type="xsd:long" />
          <element name="persistId" nillable="true" type="xsd:string" />
          <element name="businessreference3" nillable="true" type="xsd:string" />
          <element name="businessreference2" nillable="true" type="xsd:string" />
          <element name="businessreference1" nillable="true" type="xsd:string" />
        </sequence>
      </complexType>
    </schema>
  </wSDL:types>
</wSDL:definitions>
```

```

<element name="traceid4" nillable="true" type="xsd:string"/>
<element name="traceid3" nillable="true" type="xsd:string"/>
<element name="traceid2" nillable="true" type="xsd:string"/>
<element name="intchgtype" nillable="true" type="xsd:string"/>
<element name="contenttype" type="xsd:int"/>
<element name="allValues" nillable="true" type="apachesoap:Map"/>
<element name="customkeyvalue4" nillable="true" type="xsd:string"/>
<element name="customkeyvalue3" nillable="true" type="xsd:string"/>
<element name="customkeyvalue2" nillable="true" type="xsd:string"/>
<element name="customkeyvalue1" nillable="true" type="xsd:string"/>
<element name="tpprocesseddate" type="xsd:long"/>
<element name="status" type="xsd:int"/>
<element name="networksessionid" nillable="true" type="xsd:string"/>
<element name="customreference2" nillable="true" type="xsd:string"/>
<element name="customreference1" nillable="true" type="xsd:string"/>
<element name="tpreference3" nillable="true" type="xsd:string"/>
<element name="checksumAlgorithm" nillable="true" type="xsd:string"/>
<element name="tpreference2" nillable="true" type="xsd:string"/>
<element name="tpreference1" nillable="true" type="xsd:string"/>
<element name="checksumValue" nillable="true" type="xsd:string"/>
<element name="customStatus" type="xsd:int"/>
<element name="intchgindividual" nillable="true" type="xsd:string"/>
<element name="creationdate" type="xsd:long"/>
<element name="preprocesspostprocessdate" type="xsd:long"/>
<element name="auditno" type="xsd:int"/>
<element name="receiver" nillable="true" type="xsd:string"/>
<element name="edireference" nillable="true" type="xsd:string"/>
<element name="constransdate" type="xsd:long"/>
</sequence>
</complexType>- <complexType name="ArrayOfAudit">
<complexContent>
<restriction base="soapenc:Array">
<attribute ref="soapenc:arrayType" wsdl:arrayType="impl:Audit[]"/>
</restriction>
</complexContent></complexType>
<complexType name="JCDBResponse">
<sequence>
<element name="resultmsg" nillable="true" type="xsd:string"/>
<element name="data" nillable="true" type="xsd:string"/>
<element name="resultcode" nillable="true" type="xsd:string"/>
<element name="properties" nillable="true" type="impl:ArrayOf_xsd_string"/>
<element name="ok" type="xsd:boolean"/>
<element name="base64encoded" type="xsd:boolean"/>
<element name="zipped" type="xsd:boolean"/>
<element name="audits" nillable="true" type="impl:ArrayOfAudit"/>
</sequence>
</complexType>
<complexType name="JCDBRequest">
<sequence>
<element name="base64encode" type="xsd:boolean"/>
<element name="params" nillable="true" type="impl:ArrayOf_xsd_string"/>
<element name="action" nillable="true" type="xsd:string"/>
<element name="username" nillable="true" type="xsd:string"/>
<element name="data" nillable="true" type="xsd:string"/>
<element name="urlalias" nillable="true" type="xsd:string"/>
<element name="actionconnect" nillable="true" type="xsd:string"/>
<element name="ai" nillable="true" type="xsd:string"/>
<element name="urlalias2" nillable="true" type="xsd:string"/>
<element name="password" nillable="true" type="xsd:string"/>
<element name="zipdata" type="xsd:boolean"/>
<element name="audits" nillable="true" type="impl:ArrayOfAudit"/>
</sequence>
</complexType>
</schema>- <schema targetNamespace="http://xml.apache.org/xml-soap"
xmlns="http://www.w3.org/2001/XMLSchema">
<import namespace="http://schemas.xmlsoap.org/soap/encoding/">- <complexType
name="mapItem">
<sequence>
<element name="key" nillable="true" type="xsd:string"/>

```

```

        <element name="value" nillable="true" type="xsd:string"/>
    </sequence></complexType>
<complexType name="Map">
    <sequence>
        <element maxOccurs="unbounded" minOccurs="0" name="item"
type="apachesoap:mapItem"/>
    </sequence>
</complexType></schema></wsdl:types>- <wsdl:message name="executeResponse">
<wsdl:part name="executeReturn" type="intf:JCDBResponse"/></wsdl:message>
<wsdl:message name="executeRequest">
<wsdl:part name="req" type="intf:JCDBRequest"/>
</wsdl:message>
<wsdl:portType name="be.netbase.jc.soap.server.Server">
<wsdl:operation name="execute" parameterOrder="req">
<wsdl:input message="intf:executeRequest" name="executeRequest"/>
<wsdl:output message="intf:executeResponse" name="executeResponse"/>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="JCSOAPSoapBinding" type="intf:be.netbase.jc.soap.server.Server">
<wsdlsoap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>-
<wsdl:operation name="execute">
<wsdlsoap:operation soapAction=""/>- <wsdl:input name="executeRequest">
<wsdlsoap:body encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
namespace="http://server.soap.jc.netbase.be" use="encoded"/></wsdl:input>
<wsdl:output name="executeResponse">
<wsdlsoap:body encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
namespace="http://www.jcommerce.net/wsdl" use="encoded"/>
</wsdl:output></wsdl:operation></wsdl:binding>
<wsdl:service name="Jcsoap">
<wsdl:port binding="intf:JCSOAPSoapBinding" name="JCSOAP">
<wsdlsoap:address location="http://localhost:8080/soap/services/JCSOAP"/>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

4.4 Use cases

Below some useful use cases are defined. Connection URL is

<http://localhost:8080/soap/services/JCSOAP>

(Servername and port in URL should be changed to real server name and port)

Remarks

In the HTTP SOAP Request special HTTP header should be added: SOAPAction. It can be empty, but it should present.

In general if your request is incorrectly constructed then SOAP response will be a SOAP Fault response. Example:

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <soapenv:Fault>
      <faultcode>soapenv:Server.userException</faultcode>
      <faultstring>java.lang.NullPointerException</faultstring>
      <detail/>
    </soapenv:Fault>
  </soapenv:Body>
</soapenv:Envelope>

```

4.5 File Upload

4.5.1 SOAP Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:execute soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <req href="#id0"/>
    </ns1:execute>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xsi:type="ns2:JCDBRequest"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <base64encode xsi:type="xsd:boolean">true</base64encode>
      <params xsi:type="soapenc:Array" soapenc:arrayType="xsd:string[1]">
        <item>datacontenttype=application/edi</item>
        <item>jcalias=bc.upload</item>
      </params>
      <data xsi:type="xsd:string">VU5CK1VOT0E6MytDVVNUT01FUjE6MTQrNTQ1NDU0ODAw
...skipped...zgnDQpVTlorMSsxNzA2MicNCg==</data>
      <username xsi:type="xsd:string">jcommerce</username>
      <password xsi:type="xsd:string">admin</password>
      <zipdata xsi:type="xsd:boolean">>false</zipdata>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

4.5.2 JCDBRequest parameters

Parameter key	Parameter value	Mandatory
jcalias	<name of alias which contains action to do>	Yes
Username	<user>	Yes
Password	<user password>	
data	data to be uploaded	
zipdata	true/false. If true then data should be zipped. It is recommended to use zip for big data files	
Base64encode	true/false. If true then data should be base64 encoded	
Datacontenttype (param)	correct mime-type for uploaded object: application/mrt, application/edi, application/xml	

Remarks:

In order to prevent problems with special or binary characters in returned data it is strongly recommended to put base64encode parameter to true. For big files it is also recommended zip the file before uploading. If you use both zip and base64 then file should be first zipped and then base64 encoded.

If the file upload is successful then the resultcode parameter of JCDBResponse will be 0. If some error occurs resultcode will not be 0 and resultmsg parameter will contain error message.

If the file upload is successful then data element of response will contain an xml data with the number of created audit and resolved document router rule.

Returned data can be base64 encoded and zipped based on values for base64encode in request. Base64encoded and zipped parameters in response tell how the file was transformed for transport.

Sample result (ok)

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">OK</resultmsg>
      <data xsi:type="xsd:string">
        <jcinsert>
          <auditno>77503</auditno>
          <icrf></icrf>
          <docrouterrule><![CDATA[21121:EDI D96A ORDERS FROM CUSTOMER1 TO
JANSSEN]]></docrouterrule>
        </jcinsert>
      </data>
      <resultcode xsi:type="xsd:string">0</resultcode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">true</ok>
      <base64encoded xsi:type="xsd:boolean">false</base64encoded>
      <zipped xsi:type="xsd:boolean">false</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
```

Sample result (NOK)

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">cannot insert auditrecord:ERROR:Exception caught
adding
auditrecord:java.lang.IllegalArgumentException:ERROR: JCInsert add Audit :Exception caught
adding audit:be.netbase.datalayer.provider.DataProviderException:You may not access auditrecord
which do not belong to you:CUSTOMER1!=Democorp,JANSSEN!=Democorp</resultmsg>
      <data xsi:type="xsd:string"/>
      <resultcode xsi:type="xsd:string">15</resultcode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">false</ok>
      <base64encoded xsi:type="xsd:boolean">true</base64encoded>
      <zipped xsi:type="xsd:boolean">false</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
```

4.6 Getting list of available audit records

4.6.1 SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:execute soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <req href="#id0"/>
    </ns1:execute>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xsi:type="ns2:JCDBRequest"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <base64encode xsi:type="xsd:boolean">true</base64encode>
      <params xsi:type="soapenc:Array" soapenc:arrayType="xsd:string[8]">
        <item>jalias=alias1</item>
      </params>
      <data xsi:type="xsd:string"/>
      <username xsi:type="xsd:string">user1</username>
      <password xsi:type="xsd:string">user1</password>
      <zipdata xsi:type="xsd:boolean">>false</zipdata>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
```

4.6.2 JCDBRequest parameters

Parameter key	Parameter value	Mandatory
jalias	<alias defined on server for that user which contains all parameters for query >	Yes
username	<user>	Yes
password	<user password>	Yes

Remarks:

The returned list of audit records depends on user profile (user name & password), but also depends on the parameter jalias. For each user multiple queries can be defined. Every such query can be called by its name: the value of parameter jalias.

The returned JCDBResponse will contain list of available audit records or error result. If result is OK then resultcode parameter of JCDBResponse will be 0. If some error occurs resultcode will not be 0 and resultmsg parameter will contain error message.

SAMPLE RESULT (OK):

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
xmlns:ns2="http://www.jcommerce.net/wsdl">
  </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
```



```

soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
  <resultmsg xsi:type="xsd:string">OK</resultmsg>
  <data xsi:type="xsd:string"/>
  <resultcode xsi:type="xsd:string">0</resultcode>
  <properties xsi:type="soapenc:Array" xsi:nil="true"/>
  <ok xsi:type="xsd:boolean">true</ok>
  <base64encoded xsi:type="xsd:boolean">true</base64encoded>
  <zipped xsi:type="xsd:boolean">false</zipped>
  <audits xsi:type="soapenc:Array" soapenc:arrayType="ns2:Audit[2]">
    <item href="#id1"/>
  </audits>
</multiRef>
<multiRef id="id1" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xsi:type="ns3:Audit"
xmlns:ns3="http://www.jcommerce.net/wsdl"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/">
  <customdate xsi:type="xsd:long">0</customdate>
  <misc8 xsi:type="xsd:string"/>
  <customStatus5 xsi:type="xsd:int">0</customStatus5>
  <misc7 xsi:type="xsd:string"/>
  <customStatus4 xsi:type="xsd:int">0</customStatus4>
  <misc6 xsi:type="xsd:string"/>
  <customStatus3 xsi:type="xsd:int">0</customStatus3>
  <misc5 xsi:type="xsd:string"/>
  <customStatus2 xsi:type="xsd:int">0</customStatus2>
  <misc4 xsi:type="xsd:string"/>
  <sentreceiveddate xsi:type="xsd:long">20020809110832</sentreceiveddate>
  <misc3 xsi:type="xsd:string"/>
  <misc2 xsi:type="xsd:string"/>
  <sender xsi:type="xsd:string">Democorp</sender>
  <misc1 xsi:type="xsd:string"/>
  <enabled xsi:type="xsd:boolean">true</enabled>
  <businessprocesseddate xsi:type="xsd:long">0</businessprocesseddate>
  <traceid xsi:type="xsd:string"/>
  <importexportdate xsi:type="xsd:long">20020809110832</importexportdate>
  <modificationdate xsi:type="xsd:long">20020809110837</modificationdate>
  <network xsi:type="xsd:string">DISK</network>
  <networkreference
xsi:type="xsd:string">C:\JCommerce3.0\pool\in\dsk.cs.in.1028883095850.219.dat</networkrefer
ence>
  <tpreiveddate xsi:type="xsd:long">0</tpreiveddate>
  <persistId xsi:type="xsd:string"/>
  <businessreference3 xsi:type="xsd:string"/>
  <businessreference2 xsi:type="xsd:string"/>
  <businessreference1 xsi:type="xsd:string"/>
  <traceid4 xsi:type="xsd:string">0;0</traceid4>
  <traceid3
xsi:type="xsd:string">conn.554699304910925228.8073684706835580507.txt</traceid3>
  <traceid2
xsi:type="xsd:string">dom.2964037948482017603.1683720008514733906.txt</traceid2>
  <intchgtype xsi:type="xsd:string">SHIPMENT_NOTICE</intchgtype>
  <contenttype xsi:type="xsd:int">28001</contenttype>
  <customkeyvalue4 xsi:type="xsd:string"/>
  <customkeyvalue3 xsi:type="xsd:string"/>
  <customkeyvalue2 xsi:type="xsd:string">47165</customkeyvalue2>
  <customkeyvalue1 xsi:type="xsd:string"/>
  <tpprocesseddate xsi:type="xsd:long">0</tpprocesseddate>
  <status xsi:type="xsd:int">410</status>

<networksessionid
xsi:type="xsd:string">conn.554699304910925228.8073684706835580507.txt</networksessionid>
  <customreference2 xsi:type="xsd:string"/>
  <customreference1 xsi:type="xsd:string"/>
  <tpreference3 xsi:type="xsd:string"/>
  <tpreference2 xsi:type="xsd:string"/>
  <tpreference1 xsi:type="xsd:string"/>
  <customStatus xsi:type="xsd:int">0</customStatus>
    
```



```

        <intchgindividual xsi:type="xsd:string">shipnote_democorp_motors</intchgindividual>
        <creationdate xsi:type="xsd:long">20020809110832</creationdate>
        <preprocesspostprocessdate xsi:type="xsd:long">0</preprocesspostprocessdate>
        <auditno xsi:type="xsd:int">77445</auditno>
        <receiver xsi:type="xsd:string">Best Motor Works</receiver>
        <edireference xsi:type="xsd:string">25</edireference>
        <constransdate xsi:type="xsd:long">20020809110837</constransdate>
    </multiRef>
</soapenv:Body>
</soapenv:Envelope>
    
```

SAMPLE RESULT (NOK)

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">ERROR:cannot downloadjquery, no download alias
found:alias122</resultmsg>
      <data xsi:type="xsd:string"/>
      <resultcode xsi:type="xsd:string">60</resultcode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">>false</ok>
      <base64encoded xsi:type="xsd:boolean">>true</base64encoded>
      <zipped xsi:type="xsd:boolean">>false</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

4.7 Getting an audit file

4.7.1 SOAP Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:execute soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <req href="#id0"/>
    </ns1:execute>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xsi:type="ns2:JCDBRequest"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <base64encode xsi:type="xsd:boolean">>true</base64encode>
      <params xsi:type="soapenc:Array" soapenc:arrayType="xsd:string[6]">
        <item>jcalias=alias1</item>
        <item>auditno=77445</item>
      </params>
      <data xsi:type="xsd:string"/>
      <username xsi:type="xsd:string">user1</username>
      <password xsi:type="xsd:string">user1</password>
      <zipdata xsi:type="xsd:boolean">>true</zipdata>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

```

    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

4.7.2 JCDBRequest parameters

Parameter key	Parameter value	Mandatory
jcalias	<alias defined on server for that user>	Yes
username	<user>	Yes
password	<user password>	Yes
auditno	<number of auditrecord to which downloaded file belongs>	Yes

Remarks:

First you should get list of available audits (see 4.5). For every audit in list you should get audit number and use it as parameter for during requesting an audit file.

In order to prevent problems with special or binary characters in returned data it is strongly recommended to put base64encode parameter to true. For big files it is also recommended to set zipdata parameter to true.

The returned JCDBResponse will contain requested file in data parameter. Optionally, if it was requested, it can be base64encoded and zipped. So you should base64 decode and unzip it your side. Base64encoded and zipped parameters tell how file was transformed for transport. If result is OK then resultcode parameter of JCDBResponse will be 0. If some error occurs resultcode will not be 0 and resultmsg parameter will contain error message.

SAMPLE RESULT (OK)

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">OK</resultmsg>
      <data xsi:type="xsd:string">UEsDBBQACAAIAABhhjAAAAAAAAAAAAAAAAADAAAA...skipped...
AA</data>
      <resultcode xsi:type="xsd:string">0</resultcode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">true</ok>
      <base64encoded xsi:type="xsd:boolean">true</base64encoded>
      <zipped xsi:type="xsd:boolean">true</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

SAMPLE RESULT (NOK)

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
    
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">ERROR:error getting auditfile for
audit:77441,filetype:2,inbound:true</resultmsg>
      <data xsi:type="xsd:string"/>
      <resultcode xsi:type="xsd:string">64</resultcode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">>false</ok>
      <base64encoded xsi:type="xsd:boolean">>true</base64encoded>
      <zipped xsi:type="xsd:boolean">>false</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

4.8 Status update of audit record

4.8.1 SOAP Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:execute soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <req href="#id0"/>
    </ns1:execute>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xsi:type="ns2:JCDBRequest"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <base64encode xsi:type="xsd:boolean">>false</base64encode>
      <params xsi:type="soapenc:Array" soapenc:arrayType="xsd:string[3]">
        <item>jcalias=alias1</item>
        <item>auditno=77445</item>
      </params>
      <data xsi:type="xsd:string"/>
      <username xsi:type="xsd:string">user1</username>
      <password xsi:type="xsd:string">user1</password>
      <zipdata xsi:type="xsd:boolean">>false</zipdata>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
    
```

4.8.2 JCDBRequest parameters

Parameter key	Parameter value	Mandatory
jcalias	<alias defined on server for that user>	Yes
username	<user>	Yes
password	<user password>	Yes
auditno	<number of updated auditrecord. Can be a semicolon separated list of audit numbers>	Yes

If update is successful then resultCode parameter of JCDBResponse will be 0. If some error occurs resultCode will not be 0 and resultmsg parameter will contain error message.

SIMPLE RESPONSE (OK)

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">OK</resultmsg>
      <data xsi:type="xsd:string">
        <webquery>
          <msg>Update ok</msg>
          <param1></param1>
        </webquery>
      </data>
      <resultCode xsi:type="xsd:string">0</resultCode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">true</ok>
      <base64encoded xsi:type="xsd:boolean">true</base64encoded>
      <zipped xsi:type="xsd:boolean">false</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
```

SIMPLE RESPONSE (NOK)

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <ns1:executeResponse soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns1="http://http://server.soap.jc.netbase.be">
      <ns1:executeReturn href="#id0"/>
    </ns1:executeResponse>
    <multiRef id="id0" soapenc:root="0"
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xsi:type="ns2:JCDBResponse" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:ns2="http://www.jcommerce.net/wsdl">
      <resultmsg xsi:type="xsd:string">ERROR:error update ing downloadjcupdate for
audit:77448:ERROR:Exception caught updating audit
77448:be.netbase.datalayer.provider.DataProviderException:Error in PseProDataProviderSession
while trying to update objects,session is closed , errorcode: 0 , errorMessage:</resultmsg>
      <data xsi:type="xsd:string"/>
      <resultCode xsi:type="xsd:string">776</resultCode>
      <properties xsi:type="soapenc:Array" xsi:nil="true"/>
      <ok xsi:type="xsd:boolean">false</ok>
      <base64encoded xsi:type="xsd:boolean">true</base64encoded>
      <zipped xsi:type="xsd:boolean">false</zipped>
      <audits xsi:type="soapenc:Array" xsi:nil="true"/>
    </multiRef>
  </soapenv:Body>
</soapenv:Envelope>
```