

## **WSG B2B Web Service Tutorial WSG Information Services**

|                         |                                     |
|-------------------------|-------------------------------------|
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**C1 - Public**

### Checklist of changes

| Version | Date       | Changed by   | Comments / nature of the change            |
|---------|------------|--------------|--------------------------------------------|
| 1       | 23.07.2011 | Roland Staub | - Initial version                          |
| 2       | 25.10.2013 | Roland Staub | - Updated to V2                            |
| 3       | 06.11.2013 | Roland Staub | - Updated after Review Feedback            |
| 4       | 06.02.2014 | Roland Staub | - Updated with Notification Version v15    |
| 5       | 06.02.2014 | Roland Staub | - Updated with actual Notification Version |
| 6       | 22.05.2015 | Roland Staub | - Updated with actual Notification Version |
| 6       | 29.10.2015 | Roland Staub | - Added classification                     |
| 7       | 12.07.2017 | Roland Staub | - Updated for Aug17 Release                |
| 8       | 18.08.2017 | Roland Staub | - Updated for Sept17 Release               |
| 9       | 07.02.2018 | Mikko Abad   | - Updated for Feb18 Release                |

### Release

| int.Version | Date       | Released by | Comments / nature of the change  |
|-------------|------------|-------------|----------------------------------|
| 1           | 25.07.2013 | H.Künzi     | Released for WSG-9.5 (Aug 2013)  |
| 3           | 07.11.2013 | H.Künzi     | Released for WSG-9.6 (Nov 2013)  |
| 4           | 10.02.2014 | H.Künzi     | Released for WSG-9.7 (Feb.2014)  |
| 5           | 04.11.2014 | H.Künzi     | Released for WSG-9.10 (Nov.2014) |
| 7           | 17.07.2017 | H.Künzi     | Released for WSG-08.17 ( Aug17)  |
| 9           | 07.02.2018 | H.Künzi     | Released for WSG18-2 ( Feb18)    |

## **1 Introduction**

### **1.1 Purpose**

This document provides information on how to integrate an WSG Info Services system using the Web services offered by WSG. The following services are covered with examples:

- Reports
- PartnerExchange
- Notification

### **1.2 Target readership, requirements of the reader**

This document addresses architects and developers of client applications using the services mentioned above. Knowledge of Web service technology, the WSG system and the COPA ordering process are needed.

### **1.3 Referenced documents**

- [1] WSG Model Notification - WEB Outbound (v20.0.1), wsgNotification\_v20.0.1.zip
- [2] WSG Information Services V7.0.1 wsgInfoSrv\_V7.0.1.zip
- [3] WSG Messages (WSG\_MessagesV\*\*.pdf, \*\* represents latest version)

## 2 WSG Information Services

### 2.1 Endpoints

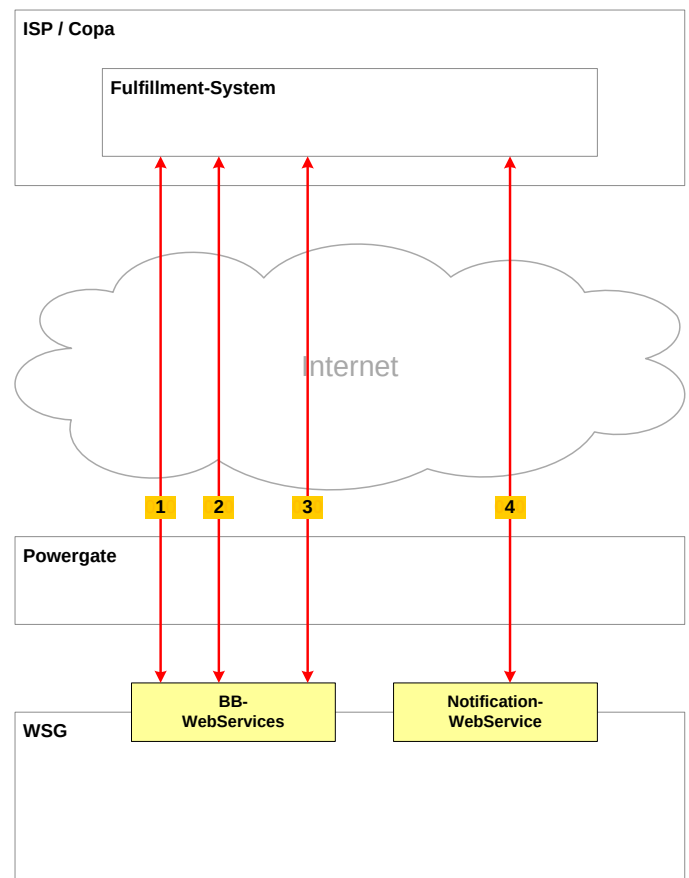
The following endpoints shall be used for WSG Information Services

| Platform   | URL                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Production | <a href="https://webservices.swisscom.com/wsg/prod/infosrv/WsgInfoSrvV007">https://webservices.swisscom.com/wsg/prod/infosrv/WsgInfoSrvV007</a> |
| Test       | <a href="https://webservices.swisscom.com/wsg/isp/infosrv/WsgInfoSrvV007">https://webservices.swisscom.com/wsg/isp/infosrv/WsgInfoSrvV007</a>   |

### 2.2 Process Overview

The following picture shows the interactions between the WSG Information Services system and WSG:

- 1 Create Report**  
**COPA/:** Report is requested in WSG.  
**WSG:** WSG confirms the receipt of the Objec and returns the reportID
- 2 Create Report**  
**COPA/:** Report is requested in WSG.  
**WSG:** WSG confirms the receipt of the Objec and returns the reportID
- 3 File Upload**  
**ISP/COPA/PARTNER:** An file object is sent to WSG.  
**WSG:** WSG confirms the receipt of the Object.
- 4 File Download**  
**ISP:** An file can be received from WSG.  
**WSG:** WSG confirms the receipt of the Object.
- 5 Notifications**  
**ISP/COPA/PARTNER:** The ISP/COPA/ PARTNER can retrieve notifications about the progress of the order processing for which he has subscribed.  
**WSG:** The notifications that were created during the processing of the order are returned.





**WSG B2B Web Service Tutorial WSG Info Services**  
**C1 - Public**

## 2.3 Create Report

The creat report delivers the capabilities to request for a given tax Region / device Location a defined Report.

The following example shows a qualification for a given Address (**createReport**).

### 2.3.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:createReportRequest>
      <v07:ispCopaId>477710</v07:ispCopaId>
      <v07:reportType>1</v07:reportType>
      <v07:centralOffice>
        <v07:taxRegion>640</v07:taxRegion>
        <v07:bbDeviceLocation>B0L</v07:bbDeviceLocation>
      </v07:centralOffice>
      <v07:onlyActiveLines>false</v07:onlyActiveLines>
    </v07:createReportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.3.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Body>
    <v07:createReportResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:operationLogId>432688489</v07:operationLogId>
      <v07:reportId>86635</v07:reportId>
    </v07:createReportResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.4 ListReport

The listReport enables to list/search Reports requested by a defined isp/copa.

### 2.4.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
```



```
<wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
  <wsse:UsernameToken>
    <wsse:Username>theUsername</wsse:Username>
    <wsse:Password>thePassword</wsse:Password>
  </wsse:UsernameToken>
</wsse:Security>
</soapenv:Header>
<soapenv:Body>
  <v07:listReportsRequest>
    <v07:ispCopaId>477710</v07:ispCopaId>
    <v07:centralOffice>
      <v07:taxRegion>640</v07:taxRegion>
      <v07:bbDeviceLocation>BOL</v07:bbDeviceLocation>
    </v07:centralOffice>
    <v07:reportType>1</v07:reportType>
  </v07:listReportsRequest>
</soapenv:Body>
</soapenv:Envelope>
```

## 2.4.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:listReportsResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:operationLogId>432688491</v07:operationLogId>
      <v07:report>
        <v07:reportId>86635</v07:reportId>
        <v07:reportType>1</v07:reportType>
        <v07:numberOfParts>1</v07:numberOfParts>
        <v07:centralOffice>
          <v07:taxRegion>640</v07:taxRegion>
          <v07:bbDeviceLocation>BOL</v07:bbDeviceLocation>
        </v07:centralOffice>
        <v07:creationDateTime>2018-02-07T08:15:20.000+01:00</v07:creationDateTime>
      </v07:report>
    </v07:listReportsResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.4.3 GUI

| List Report            |           |                         |                 |            |                    |              |                   |                     |
|------------------------|-----------|-------------------------|-----------------|------------|--------------------|--------------|-------------------|---------------------|
| <a href="#">Back</a>   |           | <a href="#">Refresh</a> |                 |            |                    |              |                   |                     |
| Download               | Report Id | Report Type             | Number of Parts | Tax Region | BB Device Location | Object State | Object Step       | Creation Date/Time  |
| <a href="#">Part 1</a> | 10952     | OmdfXmdf                | 1               | 640        | BOL                | COMPLETED    | processingSuccess | 22.05.2015 14:04:49 |

## 2.5 getReport

Get Report is used to download a previously created Report, or just download it in case of a umsaFiber Report. Please take into account that the creation of a report can take time as it is generated asynchronously. Once a report is created a notification is created. A Report can have multiple parts, in case the row number exceeds the defined threshold for a single part of a report

### 2.5.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:getReportRequest>
      <v07:ispCopaId>477710</v07:ispCopaId>
      <v07:reportId>86635</v07:reportId>
      <v07:partNumber>1</v07:partNumber>
    </v07:getReportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.5.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:getReportResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:report>
        <v07:reportId>86635</v07:reportId>
        <v07:partNumber>1</v07:partNumber>
        <v01:reportOmdfXmdf
          xmlns:v01="http://www.swisscom.com/wsg/infoSrv/reportOmdfXmdf/v01">
          <v01:ispCopaId>477710</v01:ispCopaId>
          <v01:centralOffice>
            <v01:taxRegion>640</v01:taxRegion>
            <v01:bbDeviceLocation>BOL</v01:bbDeviceLocation>
          </v01:centralOffice>
          <v01:creationDateTime>2018-02-07T08:15:19.798+01:00</v01:creationDateTime>
          <v01:row>
            <v01:omdfXmdfRelation>OmdfRelation</v01:omdfXmdfRelation>
            <v01:omdfName>Omdf1</v01:omdfName>
            <v01:xmdfName>Xmdf1</v01:xmdfName>
            <v01:breakoutCable>cooperationCable</v01:breakoutCable>
            <v01:cableStatus>cableStatus</v01:cableStatus>
            <v01:relationStatus>relationStatus</v01:relationStatus>
            <v01:lodgerId>477710</v01:lodgerId>
          </v01:row>
          <v01:row>
            <v01:omdfXmdfRelation>OmdfRelation2</v01:omdfXmdfRelation>
            <v01:omdfName>Omdf2</v01:omdfName>
            <v01:xmdfName>Xmdf2</v01:xmdfName>
```

```

        <v01:breakoutCable>cooperationCable2</v01:breakoutCable>
        <v01:cableStatus>cableStatus</v01:cableStatus>
        <v01:relationStatus>relationStatus</v01:relationStatus>
        <v01:lodgerId>477710</v01:lodgerId>
    </v01:row>
    <v01:row>
        <v01:omdfXmdfRelation>OmdfRelation</v01:omdfXmdfRelation>
        <v01:omdfName>Omdf1</v01:omdfName>
        <v01:xmdfName>Xmdf1</v01:xmdfName>
        <v01:breakoutCable>cooperationCable</v01:breakoutCable>
        <v01:cableStatus>cableStatus</v01:cableStatus>
        <v01:relationStatus>relationStatus</v01:relationStatus>
        <v01:lodgerId>477710</v01:lodgerId>
    </v01:row>
    <v01:row>
        <v01:omdfXmdfRelation>OmdfRelation2</v01:omdfXmdfRelation>
        <v01:omdfName>Omdf2</v01:omdfName>
        <v01:xmdfName>Xmdf2</v01:xmdfName>
        <v01:breakoutCable>cooperationCable2</v01:breakoutCable>
        <v01:cableStatus>cableStatus</v01:cableStatus>
        <v01:relationStatus>relationStatus</v01:relationStatus>
        <v01:lodgerId>477710</v01:lodgerId>
    </v01:row>
</v01:reportOmdfXmdf>
</v07:report>
</v07:getReportResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## 2.6 uploadFile

You may use this operation to upload a defined file to WSG. The file to be uploaded needs to start with the ISP/COPA/PartnerId of you. Note the content is included as binary64. You need to enable MTOM on the client side. In case you use CXF for the integration see: <http://cxf.apache.org/docs/mtom.html> for further informations.

### 2.6.1 Request

```

-----=_Part_2_647426834.1432305434329
Content-Type: application/xop+xml; charset=UTF-8; type="text/xml"
Content-Transfer-Encoding: 8bit
Content-ID: <rootpart@soapui.org>

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:uploadFileRequest>

```

```
<v07:ispCopaId>477710</v07:ispCopaId>
<v07:fileName>477710_any_file_test.csv</v07:fileName>
<v07:fileContent xm:contentType="test" xmlns:xm="http://www.w3.org/2005/05/xmlmime">
  <inc:Include href="cid:477710_any_test.csv"
xmlns:inc="http://www.w3.org/2004/08/xop/include"/>
</v07:fileContent>
</v07:uploadFileRequest>
</soapenv:Body>
</soapenv:Envelope>
-----=_Part_2_647426834.1432305434329
Content-Type: application/octet-stream; name=477710_any_test.csv
Content-Transfer-Encoding: binary
Content-ID: <477710_any_test.csv>
Content-Disposition: attachment; name="477710_any_test.csv"; filename="477710_any_test.csv"

bla

test

-----=_Part_2_647426834.1432305434329--
```

## 2.6.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:uploadFileResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:irIdWsg>86639</v07:irIdWsg>
    </v07:uploadFileResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.6.3 GUI

# Data Exchange Maintenance

Back

Refresh

Number of Entries: 1

|                        | Information Request ID | Object Type       | Object State | Object Step       | File Name                | Transaction Date/Time |
|------------------------|------------------------|-------------------|--------------|-------------------|--------------------------|-----------------------|
| <a href="#">Detail</a> | 10954                  | PartnerFileImport | COMPLETED    | processingSuccess | 477710_any_file_test.csv | 22.05.2015 16:37:16   |

## Data Exchange Maintenance

### Overview

Information Request ID 10954  
Transaction Date/Time 22.05.2015 16:37:16  
ISP/COPA Id 477710  
Object Type PartnerFileImport  
Object State COMPLETED  
Activator Order  
Initiator PARTNER  
Response File Name [477710\\_any\\_file\\_test.csv](#)

### History

| Object State | Object Step       | Transaction Date/Time | Comment                              |
|--------------|-------------------|-----------------------|--------------------------------------|
| COMPLETED    | processingSuccess | 22.05.2015 16:37:16   | Object transferred to backend system |
| PROCESSING   | processingStart   | 22.05.2015 16:37:15   | Attached import file                 |
| PROCESSING   | processingStart   | 22.05.2015 16:37:14   |                                      |

[Back](#) [Refresh](#)

## 2.7 listFiles

The list operation enables you to search/list files which were uploaded by you or offered to you.

### 2.7.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:listFilesRequest>
      <v07:ispCopaId>477710</v07:ispCopaId>
    </v07:listFilesRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    <v07:objectType>8</v07:objectType>
    <v07:irDateTimeFrom>2013-07-23T00:00:00.000+02:00</v07:irDateTimeFrom>
  </v07:listFilesRequest>
</soapenv:Body>
</soapenv:Envelope>

```

## 2.7.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:listFilesResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:fileInformation>
        <v07:irDateTime>2018-02-07T08:26:34.000+01:00</v07:irDateTime>
        <v07:objectStep>12</v07:objectStep>
        <v07:objectState>5</v07:objectState>
        <v07:comment>Partner Exchange transferred to backend system</v07:comment>
        <v07:irIdWsg>86639</v07:irIdWsg>
        <v07:fileName>477710_any_file_test.csv</v07:fileName>
        <v07:objectType>8</v07:objectType>
        <v07:initiator>5</v07:initiator>
        <v07:activator>1</v07:activator>
      </v07:fileInformation>
      <v07:fileInformation>
        <v07:irDateTime>2018-02-07T08:26:30.000+01:00</v07:irDateTime>
        <v07:objectStep>12</v07:objectStep>
        <v07:objectState>5</v07:objectState>
        <v07:comment>Partner Exchange transferred to backend system</v07:comment>
        <v07:irIdWsg>86638</v07:irIdWsg>
        <v07:fileName>477710_SP_A_2012-01_B16.1_20122009-120051.csv</v07:fileName>
        <v07:objectType>8</v07:objectType>
        <v07:initiator>5</v07:initiator>
        <v07:activator>1</v07:activator>
      </v07:fileInformation>
      <v07:fileInformation>
        <v07:irDateTime>2018-02-07T08:24:52.000+01:00</v07:irDateTime>
        <v07:objectStep>12</v07:objectStep>
        <v07:objectState>5</v07:objectState>
        <v07:comment>Partner Exchange transferred to backend system</v07:comment>
        <v07:irIdWsg>86637</v07:irIdWsg>
        <v07:fileName>477710_any_file_test.csv</v07:fileName>
        <v07:objectType>8</v07:objectType>
        <v07:initiator>5</v07:initiator>
        <v07:activator>1</v07:activator>
      </v07:fileInformation>
    </v07:listFilesResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

## 2.7.3 GUI

## Data Exchange Maintenance

Back

Refresh

Number of Entries: 1

|                        | Information Request ID | Object Type       | Object State | Object Step       | File Name                | Transaction Date/Time |
|------------------------|------------------------|-------------------|--------------|-------------------|--------------------------|-----------------------|
| <a href="#">Detail</a> | 4370                   | PartnerFileImport | COMPLETED    | processingSuccess | 477710_any_file_test.csv | 23.07.2013 20:55:04   |

## 2.8 downloadFiles

### 2.8.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:downloadFileRequest>
      <v07:ispCopaId>477710</v07:ispCopaId>
      <v07:irIdWsg>86639</v07:irIdWsg>
    </v07:downloadFileRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.8.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:downloadFileResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:fileInformation>
        <v07:irDateTime>2018-02-07T08:26:34.000+01:00</v07:irDateTime>
        <v07:objectStep>12</v07:objectStep>
        <v07:objectState>5</v07:objectState>
        <v07:comment>Partner Exchange transferred to backend system</v07:comment>
        <v07:irIdWsg>86639</v07:irIdWsg>
        <v07:fileName>477710_any_file_test.csv</v07:fileName>
        <v07:objectType>8</v07:objectType>
        <v07:initiator>5</v07:initiator>
        <v07:activator>1</v07:activator>
      </v07:fileInformation>
      <v07:fileContent>dGVzdA==</v07:fileContent>
    </v07:downloadFileResponse>
```

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

### 2.8.3 GUI

**Data Exchange Maintenance**

[Back](#) [Refresh](#)

Number of Entries: 1

|                        | <a href="#">Information Request ID</a> | <a href="#">Object Type</a> | <a href="#">Object State</a> | <a href="#">Object Step</a> | <a href="#">File Name</a> | <a href="#">Transaction Date/Time</a> |
|------------------------|----------------------------------------|-----------------------------|------------------------------|-----------------------------|---------------------------|---------------------------------------|
| <a href="#">Detail</a> | 4371                                   | PartnerFileExport           | COMPLETED                    | processingSuccess           | 477710_test_upload.txt    | 23.07.2013 21:04:53                   |

**Data Exchange Maintenance**

**Overview**

Information Request ID 4371  
 Transaction Date/Time 23.07.2013 21:04:53  
 Partner ID 477710  
 Object Type PartnerFileExport  
 Object State COMPLETED  
 Activator Order  
 Initiator SCS  
 Response File Name 477710\_test\_upload.txt

**History**

| Object State | Object Step       | Transaction Date/Time | Comment                            |
|--------------|-------------------|-----------------------|------------------------------------|
| COMPLETED    | processingSuccess | 23.07.2013 21:04:53   |                                    |
| PROCESSING   | processingStart   | 23.07.2013 21:04:53   | Attached download file for Partner |
| PROCESSING   | processingStart   | 23.07.2013 21:04:53   |                                    |

[Back](#) [Refresh](#)



## 2.8.4 Notifications

During the whole processing, the orders can be tracked by retrieving notifications from the Notification Service. The usage/configuration of the notification service is documented in Chapter 3 Notification (Tracking) .

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
```

```

    <soapenv:Body>
      <v20:getNotificationResponse xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
        <v20:response>
          <v20:success>true</v20:success>
          <v20:limitReached>>false</v20:limitReached>
          <v20:notification>
            <v20:notificationId>82178642</v20:notificationId>
            <v20:notificationDateTime>2015-05-22T11:31:33.000+02:00</v20:notificationDateTime>
            <v20:notificationEvent>2</v20:notificationEvent>
            <v20:object>8</v20:object>
            <v20:objectType>3</v20:objectType>
            <v20:initiator>4</v20:initiator>
            <v20:activator>1</v20:activator>
            <v20:objectState>1</v20:objectState>
            <v20:objectStep>15</v20:objectStep>
            <v20:informationRequest>
              <v20:irIdWsg>10950</v20:irIdWsg>
              <v20:fileName>477710_OT0_A_20141015-041417.csv</v20:fileName>
              <v20:numberOfParts>0</v20:numberOfParts>
            </v20:informationRequest>
          </v20:notification>
          <v20:notification>
            <v20:notificationId>82178643</v20:notificationId>
            <v20:notificationDateTime>2015-05-22T11:54:04.000+02:00</v20:notificationDateTime>
            <v20:notificationEvent>2</v20:notificationEvent>
            <v20:object>8</v20:object>
            <v20:objectType>4</v20:objectType>
            <v20:initiator>2</v20:initiator>
            <v20:activator>1</v20:activator>
            <v20:objectState>1</v20:objectState>
            <v20:objectStep>17</v20:objectStep>
            <v20:informationRequest>
              <v20:irIdWsg>10951</v20:irIdWsg>
              <v20:fileName>477710_SP_A_2012-01_B16.1_20122009-120059.csv</v20:fileName>
              <v20:numberOfParts>0</v20:numberOfParts>
            </v20:informationRequest>
          </v20:notification>
          <v20:notification>
            <v20:notificationId>82178644</v20:notificationId>
            <v20:notificationDateTime>2015-05-22T11:54:05.000+02:00</v20:notificationDateTime>
            <v20:notificationEvent>2</v20:notificationEvent>
            <v20:object>8</v20:object>
            <v20:objectType>4</v20:objectType>
            <v20:initiator>2</v20:initiator>
            <v20:activator>1</v20:activator>
            <v20:objectState>3</v20:objectState>
            <v20:objectStep>18</v20:objectStep>
            <v20:informationRequest>
              <v20:irIdWsg>10951</v20:irIdWsg>

```

```

        <v20:fileName>477710_SP_A_2012-01_B16.1_20122009-120059.csv</v20:fileName>
        <v20:numberOfParts>0</v20:numberOfParts>
    </v20:informationRequest>
</v20:notification>
<v20:notification>
    <v20:notificationId>82178651</v20:notificationId>
    <v20:notificationDateTime>2015-05-22T14:04:49.000+02:00</v20:notificationDateTime>
    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>7</v20:objectType>
    <v20:initiator>2</v20:initiator>
    <v20:activator>4</v20:activator>
    <v20:objectState>5</v20:objectState>
    <v20:objectStep>12</v20:objectStep>
    <v20:informationRequest>
        <v20:irIdWsg>10952</v20:irIdWsg>
        <v20:numberOfParts>1</v20:numberOfParts>
    </v20:informationRequest>
</v20:notification>
<v20:notification>
    <v20:notificationId>82178665</v20:notificationId>
    <v20:notificationDateTime>2015-05-22T16:37:16.000+02:00</v20:notificationDateTime>
    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>8</v20:objectType>
    <v20:initiator>5</v20:initiator>
    <v20:activator>1</v20:activator>
    <v20:objectState>5</v20:objectState>
    <v20:objectStep>12</v20:objectStep>
    <v20:informationRequest>
        <v20:irIdWsg>10954</v20:irIdWsg>
        <v20:fileName>477710_any_file_test.csv</v20:fileName>
        <v20:numberOfParts>0</v20:numberOfParts>
    </v20:informationRequest>
</v20:notification>
</v20:response>
</v20:getNotificationResponse>
</soapenv:Body>
</soapenv:Envelope>

```

### Gaia List Service (Address Autocompletion)

The Gaia 'List' service provides the necessary information for implementing address autocompletion in a user interface.

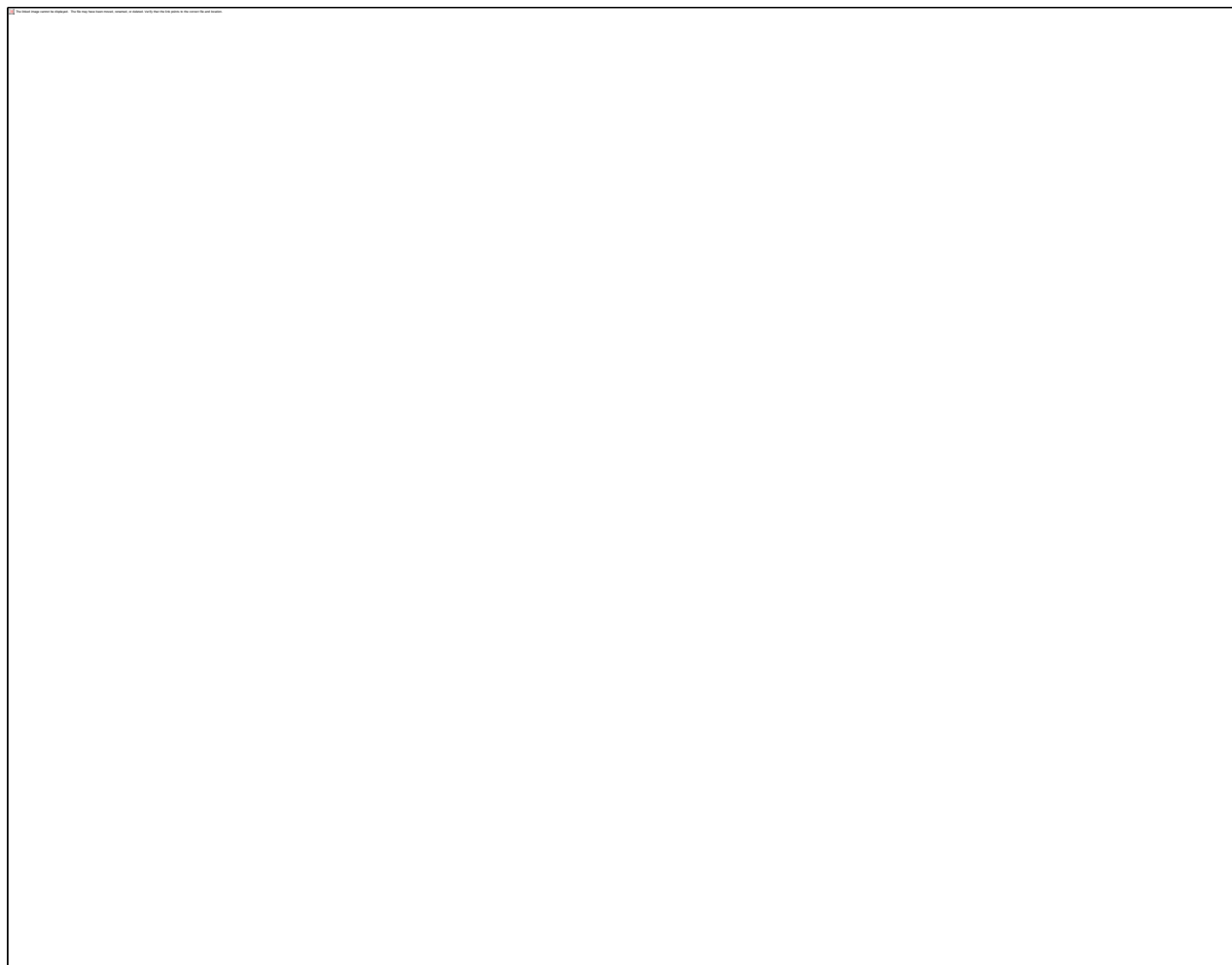
## 2.9 Endpoints

The following endpoints shall be used for Gaia address services

| Platform   | URL                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Production | <a href="https://wholesale.swisscom.com/wsg/prod/infosrv/gaia/GaiaRestWeb/list">https://wholesale.swisscom.com/wsg/prod/infosrv/gaia/GaiaRestWeb/list</a> |
| Test       | <a href="https://wholesale.swisscom.com/wsg/isp/infosrv/gaia/GaiaRestWeb/list">https://wholesale.swisscom.com/wsg/isp/infosrv/gaia/GaiaRestWeb/list</a>   |

Note: The WSG endpoints are proxies exposing the actual Gaia service via Powergate.

## 2.10 Process Overview



## 2.11 Documentation

Please refer to [gaia-list-service.html](#) for a detailed documentation of the operations in this interface.

## 2.12 Simple Autocomplete Implementation Example

Note: This example was written using the jQueryUI library

### 2.12.1 JavaScript

```
var userId = 'wsg'
var selectedZip, selectedStreet, selectedHouseNr, selectedHouse

// RegExp to replace the endpoint of the Gaia response with the proxy endpoint
var urlRegex = new RegExp('^https?://.+(/list/.+)$');

// Search function for the autocomplete
function search(array, request, response) {
    var term = $.ui.autocomplete.escapeRegex(request.term)
    // First get all matches that start with the search term e.g. 'Bern' for 'Be'
    , startsWithMatcher = new RegExp("^" + term, "i")
    , startsWith = $.grep(array, function(value) {
        return startsWithMatcher.test(value.label || value.value || value);
    })
    // Then get the ones that contain the term anywhere e.g. '3008 Bern' (with zip) for 'Be'
    , containsMatcher = new RegExp(term, "i")
    , contains = $.grep(array, function(value) {
        return $.inArray(value, startsWith) < 0 &&
            containsMatcher.test(value.label || value.value || value);
    });

    response(startsWith.concat(contains));
}

// Get the link that points to the proxy's endpoint from the original Gaia link
function getLink(links, rel, gaiaBasePath) {
    for (i = 0; i < links.length; i++) {
        var link = links[i]
        if (link.rel == rel) {
            return link.href.replace(urlRegex, gaiaBasePath + '$1')
        }
    }
}

// Add autocomplete to a zip / city input
function registerZipCityAutocompletion(input, gaiaBasePath, addressUsage = 'PST') {
    var zipCities = []

    // Get the full list of zips + cities
    $.ajax({
        url: gaiaBasePath + "/list/zipCities?userId=" + userId + "&official=true&addressUsage=" +
            addressUsage + "&zipCityType=domicile",
```

```

type: "GET",
dataType: "json",
success: function(data) {
    zipCities = $.map(data, function(obj) {
        return {
            label: obj.zipCity,
            value: obj.zipCity,
            streetsLink: getLink(obj.links, 'streets', gaiaBasePath),
            houseNamesLink: getLink(obj.links, 'houseNames', gaiaBasePath)
        };
    });
}
});

// Add autocomplete to the input field
input.autocomplete({
    minLength: 2, // Start autocomplete after two characters for good performance
    delay: 0,
    source: function (request, response) {
        search(zipCities, request, response)
    },
    select: function (event, ui) {
        selectedZip = ui.item
    }
})
}

// Add autocomplete to a street input
function registerStreetAutocompletion(input, gaiaBasePath) {
    var streets = []

    // Find all streets for the selected zipCity on focus of the street input
    input.focus(function() {
        if (selectedZip != null && "streetsLink" in selectedZip) {
            $.ajax({
                url: selectedZip.streetsLink,
                type: "GET",
                success: function(data) {
                    streets = $.map(data, function(obj) {
                        return {
                            label: obj.streetName,
                            value: obj.streetName,
                            houseNrsLink: getLink(obj.links, 'houseNumbers', gaiaBasePath)
                        };
                    });
                }
            });
        }
    });
}

// Add autocomplete to the input field
input.autocomplete({
    delay: 0,
    source: function (request, response) {
        search(streets, request, response)
    },

```

```

        select: function (event, ui) {
            selectedStreet = ui.item
        }
    })
}

// Add autocomplete to a houseNr input
function registerHouseNrAutocompletion(input, gaiaBasePath) {
    var houseNrs = []

    // Find all houseNrs for the selected street on focus of the houseNrs input
    input.focus(function() {
        if (selectedStreet != null && "houseNrsLink" in selectedStreet) {
            $.ajax({
                url: selectedStreet.houseNrsLink,
                type: "GET",
                success: function(data) {
                    houseNrs = $.map(data, function(obj) {
                        return {
                            label: obj.houseNumber,
                            value: obj.houseNumber,
                            // Link to the details of this unique location, not used for autocompletion
                            addressDetailsLink: getLink(obj.links, 'addressDetails', gaiaBasePath)
                        };
                    });
                }
            });
        }
    });
}

// Add autocomplete to the input field
input.autocomplete({
    delay: 0,
    source: function (request, response) {
        search(houseNrs, request, response)
    },
    select: function (event, ui) {
        selectedHouseNr = ui.item
    }
})
}

// Add autocomplete to a houseName input
function registerHouseNameAutocompletion(input, gaiaBasePath, addressUsage) {
    var houseNames = []

    // Find all houseNames for the selected zipCity on focus of the houseNames input
    input.focus(function() {
        if (selectedZip != null && "houseNamesLink" in selectedZip) {
            $.ajax({
                url: selectedZip.houseNamesLink,
                type: "GET",
                success: function(data) {
                    houseNames = $.map(data, function(obj) {
                        return {
                            label: obj.houseName,

```

```

        value: obj.houseName,
        // Link to the details of this unique location, not used for autocompletion
        addressDetailsLink: getLink(obj.links, 'addressDetails', gaiaBasePath)
    });
    });
}
});
}
});

// Add autocompletion to the input field
input.autocomplete({
    delay: 0,
    source: function (request, response) {
        search(houseNames, request, response)
    },
    select: function (event, ui) {
        selectedHouse = ui.item
    }
})
}

// Register autocompletion for address inputs, addressUsage defaults to PST (All addresses will
// be loaded: postal, official & technical)
function registerAddressAutocompletion(gaiaBasePath, zipInput, streetInput, houseNrInput,
houseNameInput, addressUsage = 'PST') {
    if (zipInput != null) {
        registerZipCityAutocompletion(zipInput, gaiaBasePath, addressUsage)
    }
    if (streetInput != null) {
        registerStreetAutocompletion(streetInput, gaiaBasePath)
    }
    if (houseNrInput != null) {
        registerHouseNrAutocompletion(houseNrInput, gaiaBasePath)
    }
    if (houseNameInput != null) {
        registerHouseNameAutocompletion(houseNameInput, gaiaBasePath)
    }
}
}

```

## 2.12.2 HTML

```

<DOCTYPE html>
<html>
  <head>
    <script src="jquery-1.11.3.min.js"></script>
    <script src="jquery-ui-1.10.4.min.js"></script>
    <!-- from previous chapter -->
    <script src="address_autocompletion.js"></script>
    <link rel="stylesheet" type="text/css" href="jquery-ui-1.10.4.css">
    <script type="text/javascript">
      $(function() {
        registerAddressAutocompletion('https://wholesale.swisscom.com/wsg/prod/infosrv/gaia/GaiaRestWeb',
        $("#zipCity"), $("#street"), $("#houseNr"), $("#house"))
      });
    </script>
  </head>

```

```
<body>
  <input id="zipCity" name="zipCity" type="text">
  <input id="street" name="street" type="text">
  <input id="houseNr" name="houseNr" type="text">
  <input id="house" name="house" type="text">
</body>
</html>
```

Appendix A: Notifications created for "Create Report" shows all notifications produced during the processing of the orders above (starting with notificationId 47426434). There may be multiple notifications if you configure to have notified multiple object-states.

## 2.13 ListMigrationProjects

The migration Projects listed in the WSG Information Service can be listed using the operation listMigrationProjects

### 2.13.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:listMigrationProjectsRequest>
      <v07:ispCopaId>100036</v07:ispCopaId>
    </v07:listMigrationProjectsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.13.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Body>
    <v07:listMigrationProjectsResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:project>
        <v07:projectId>2</v07:projectId>
        <v07:projectName>CU@Warp</v07:projectName>
        <v07:projectDescription>Increase Reliability
```

\* To provide you and your customers with a higher level of reliability, we start installing and activating new transport equipment on a step-by-step basis

\* Transport equipment change -> access platform (eap) onto new access platform

(warp)</v07:projectDescription>

<v07:projectImpact>These updates will be carried out between 2:00 a.m. and 6:00 a.m.

Connections with PPP termination:



\* Each connection will be interrupted for a maximum of 120 minutes

Connections with DHCP termination:

\* Each connection will be interrupted for a maximum of 120 minutes

• As a result of this update, each connection will receive a new IP address; additional IP addresses will therefore be required. New IP address ranges can be set up via WSG IP Pool Management.

```
</v07:projectImpact>
  <v07:customerAffected>Many</v07:customerAffected>
  <v07:projectRollout>July 2012 - 2016/2017</v07:projectRollout>
  <v07:migrationReason>Cu@WARP</v07:migrationReason>
  <v07:transactionDateTime>2013-12-02T14:09:51.000+01:00</v07:transactionDateTime>
</v07:project>
<v07:project>
  <v07:projectId>3</v07:projectId>
  <v07:projectName>Vectoring Access Node</v07:projectName>
  <v07:projectDescription>Increase speed towards customer * to provide you and your
customers with higher access speed, we have to exchange the access equipment (ISAM) with
vectoring capable HW. * Access equipment will be swapped with vectoring capable
HW.</v07:projectDescription>
  <v07:projectImpact>The HW-swap will be carried out between 02:00 and 06:00 AM.
Connections with PPP termination * Each connection will be interrupted for a maximum of 30
minutes. Connections with DHCP termination. * Each connection will be interrupted for a maximum
of 30 minutes.</v07:projectImpact>
```

```
  <v07:customerAffected>Many</v07:customerAffected>
  <v07:projectRollout>Nov 2013 - Mai 2015</v07:projectRollout>
  <v07:migrationReason>Vectoring AccessNode</v07:migrationReason>
  <v07:transactionDateTime>2013-12-16T14:06:10.000+01:00</v07:transactionDateTime>
</v07:project>
<v07:project>
  <v07:projectId>5</v07:projectId>
  <v07:projectName>FTTS/FTTB_Migration</v07:projectName>
  <v07:projectDescription>To provide you and your customers with higher access speed,
we have to change the access location. Fiber to the Street or Building (FTTS/FTTB) will be
built.</v07:projectDescription>
  <v07:projectImpact>The migration will be carried out usually during office hours on a
dedicated date. Each connection (ULL or BBCS) will be interrupted for a maximum of 4
hours.</v07:projectImpact>
```

```
  <v07:customerAffected>Many</v07:customerAffected>
  <v07:projectRollout>June 2014 - 2020</v07:projectRollout>
  <v07:migrationReason>FTTS/B UMSA</v07:migrationReason>
  <v07:transactionDateTime>2014-08-24T00:58:16.000+02:00</v07:transactionDateTime>
</v07:project>
<v07:project>
  <v07:projectId>6</v07:projectId>
  <v07:projectName>FTTS/FTTB_activation</v07:projectName>
  <v07:projectDescription>To provide you and your customers with higher access speed,
after fiber to the Street or Building (FTTS/FTTB) was built, the distances of the copper
connection to the end customer will be shortened.</v07:projectDescription>
  <v07:projectImpact>The shortening will be carried out usually during office hours on
a dedicated date. Each BBCS connection will be interrupted (initial DSLAM start) for about
15min.</v07:projectImpact>
```

```
  <v07:customerAffected>Many</v07:customerAffected>
  <v07:projectRollout>June 2014 - 2020</v07:projectRollout>
  <v07:migrationReason>FTTS/B Leitungsverkürzung , UMSA mit
Leitungsverkürzung</v07:migrationReason>
  <v07:transactionDateTime>2014-08-24T00:58:16.000+02:00</v07:transactionDateTime>
</v07:project>
<v07:project>
  <v07:projectId>7</v07:projectId>
  <v07:projectName>Software Upgrade CAN</v07:projectName>
  <v07:projectDescription>Increase reliability and extend of multicast configuration
possibilities.</v07:projectDescription>
```

```

    <v07:projectImpact>These updates will be carried out between 02:00 and 06:00. Each
connection (PPP and DHCP) will be interrupted for a maximum of 30 minutes.</v07:projectImpact>
    <v07:customerAffected>Many</v07:customerAffected>
    <v07:projectRollout>December 2014 - March 2015</v07:projectRollout>
    <v07:migrationReason>Software Upgrade CAN</v07:migrationReason>
    <v07:transactionDateTime>2014-12-18T11:58:49.000+01:00</v07:transactionDateTime>
  </v07:project>
  <v07:project>
    <v07:projectId>8</v07:projectId>
    <v07:projectName>Maintenance - Port Move</v07:projectName>
    <v07:projectDescription>In case of port move, a customer will be moved from a dslam
to another one, normally to a newer generation of dslam. In case of rewiring, it is also the
basic to support vectoring and its speed gain.</v07:projectDescription>
    <v07:projectImpact>The port move will be carried out usually during office hours on a
dedicated date. Each impacted customer will be interrupted for a maximum of 4
hours.</v07:projectImpact>
    <v07:customerAffected>Many</v07:customerAffected>
    <v07:projectRollout>ever</v07:projectRollout>
    <v07:migrationReason>Port Relocation / Rewiring</v07:migrationReason>
    <v07:transactionDateTime>2015-06-06T21:34:16.000+02:00</v07:transactionDateTime>
  </v07:project>
  <v07:project>
    <v07:projectId>9</v07:projectId>
    <v07:projectName>Maintenance - Shorting (SpectrumManagement)</v07:projectName>
    <v07:projectDescription>To provide you and your customers higher access speeds,
Swisscom builds new broadband location and to comply the spectrum management rules, the access
has to be shorted.</v07:projectDescription>
    <v07:projectImpact>The shorting will be carried out usually during office hours on a
dedicated date. Each impacted customer will be interrupted for a maximum of 4
hours.</v07:projectImpact>
    <v07:customerAffected>Many</v07:customerAffected>
    <v07:projectRollout>ever</v07:projectRollout>
    <v07:migrationReason>Leitungsverkürzung mit
Überführungsrelevanz</v07:migrationReason>
    <v07:transactionDateTime>2015-06-06T21:34:16.000+02:00</v07:transactionDateTime>
  </v07:project>
</v07:listMigrationProjectsResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## 2.14 getMigrationProjectDetail

### 2.14.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:getMigrationProjectDetailRequest>
      <v07:ispCopaId>100036</v07:ispCopaId>
      <v07:projectId>2</v07:projectId>
    </v07:getMigrationProjectDetailRequest>
  </soapenv:Body>

```

```
</soapenv:Envelope>
```

## 2.14.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:getMigrationProjectDetailResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:migrationElements>
        <v07:networkElementType>DSLAM Network Element</v07:networkElementType>
        <v07:networkElementName>ipc-gum640-s-vd-04</v07:networkElementName>
        <v07:dnVnNsn>0317511601</v07:dnVnNsn>
        <v07:customerNotificationId>MT_UNTY_10000113651</v07:customerNotificationId>
        <v07:customerNotificationType>CU_WARP_INFO</v07:customerNotificationType>
        <v07:duration>240</v07:duration>
        <v07:transactionDateTime>2015-05-06T07:14:00.000+02:00</v07:transactionDateTime>
      </v07:migrationElements>
      <v07:migrationElements>
        <v07:networkElementType>DSLAM Network Element</v07:networkElementType>
        <v07:networkElementName>ipc-gum640-s-vd-04</v07:networkElementName>
        <v07:dnVnNsn>0317510187</v07:dnVnNsn>
        <v07:customerNotificationId>MT_UNTY_10000113651</v07:customerNotificationId>
        <v07:customerNotificationType>CU_WARP_INFO</v07:customerNotificationType>
        <v07:duration>240</v07:duration>
        <v07:transactionDateTime>2015-05-06T07:14:00.000+02:00</v07:transactionDateTime>
      </v07:migrationElements>
      <v07:migrationElements>
        <v07:networkElementType>DSLAM Network Element</v07:networkElementType>
        <v07:networkElementName>ipc-gum640-s-vd-04</v07:networkElementName>
        <v07:dnVnNsn>0317513102</v07:dnVnNsn>
        <v07:customerNotificationId>MT_UNTY_10000113651</v07:customerNotificationId>
        <v07:customerNotificationType>CU_WARP_INFO</v07:customerNotificationType>
        <v07:duration>240</v07:duration>
        <v07:transactionDateTime>2015-05-06T07:14:00.000+02:00</v07:transactionDateTime>
      </v07:migrationElements>
      <v07:migrationElements>
        <v07:networkElementType>DSLAM Network Element</v07:networkElementType>
        <v07:networkElementName>ipc-gum640-s-vd-04</v07:networkElementName>
        <v07:dnVnNsn>0317510217</v07:dnVnNsn>
        <v07:customerNotificationId>MT_UNTY_10000113651</v07:customerNotificationId>
        <v07:customerNotificationType>CU_WARP_INFO</v07:customerNotificationType>
        <v07:duration>240</v07:duration>
        <v07:transactionDateTime>2015-05-06T07:14:00.000+02:00</v07:transactionDateTime>
      </v07:migrationElements>
      <v07:migrationElements>
        <v07:networkElementType>DSLAM Network Element</v07:networkElementType>
        <v07:networkElementName>ipc-gum640-s-vd-04</v07:networkElementName>
        <v07:dnVnNsn>0317510508</v07:dnVnNsn>
        <v07:customerNotificationId>MT_UNTY_10000113651</v07:customerNotificationId>
        <v07:customerNotificationType>CU_WARP_INFO</v07:customerNotificationType>
        <v07:duration>240</v07:duration>
        <v07:transactionDateTime>2015-05-06T07:14:00.000+02:00</v07:transactionDateTime>
      </v07:migrationElements>
    </v07:getMigrationProjectDetailResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.15 createClarificationTT

### 2.15.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:createClarificationTicketRequest>
      <v07:ispCopaId>777710</v07:ispCopaId>
      <v07:objectType>23</v07:objectType>
      <v07:wsgId>2447595</v07:wsgId>
      <v07:problemDescription>Why is the TT not yet closed</v07:problemDescription>
      <v07:problemNotes>see problem desc</v07:problemNotes>
    </v07:createClarificationTicketRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.15.2 Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:createClarificationTicketResponse xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:operationLogId>432687847</v07:operationLogId>
      <v07:incidentId>14589</v07:incidentId>
    </v07:createClarificationTicketResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

## 2.16 getClarificationTicketDetail

### 2.16.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
  <soapenv:Header>
    <wsse:Security soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
      soapenv:mustUnderstand="0" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
      wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>theUsername</wsse:Username>
        <wsse:Password>thePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v07:getClarificationTicketDetailRequest>
      <v07:ispCopaId>777710</v07:ispCopaId>
      <v07:incidentId>14589</v07:incidentId>
    </v07:getClarificationTicketDetailRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 2.16.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v07:getClarificationTicketDetailResponse
      xmlns:v07="http://www.swisscom.com/wsg/infoSrv/v07">
      <v07:success>true</v07:success>
      <v07:operationLogId>432687863</v07:operationLogId>
      <v07:incident>
        <v07:incidentId>14589</v07:incidentId>
        <v07:ispCopaId>777710</v07:ispCopaId>
        <v07:incidentState>6</v07:incidentState>
        <v07:objectType>23</v07:objectType>
        <v07:wsgId>2447595</v07:wsgId>
        <v07:problemDescription>Why is the TT not yet closed</v07:problemDescription>
        <v07:problemNotes>see problem desc</v07:problemNotes>
        <v07:workLogList>
          <v07:workLogSummary>1. Summary from Simulator: status=closed triggered by
create</v07:workLogSummary>
          <v07:workLogNotes>1 - This is a Note from the TIBCO Simulator --- (1. Summary from
Simulator: status=closed triggered by create) --- WorkLogText 6: $£ä .-{}è!ü"![]&lt;> 123 ABC öäü
--</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:25:14.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>2. Summary from Simulator: status=closed triggered by
create</v07:workLogSummary>
          <v07:workLogNotes>2 - This is a Note from the TIBCO Simulator --- (2. Summary from
Simulator: status=closed triggered by create) --- WorkLogText 6: $£ä .-{}è!ü"![]&lt;> 123 ABC öäü
--</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:25:14.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>WorkReport</v07:workLogSummary>
          <v07:workLogNotes>Kein Signal</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:25:03.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>2. Summary from Simulator: status=cleared triggered by
create</v07:workLogSummary>
          <v07:workLogNotes>2 - This is a Note from the TIBCO Simulator --- (2. Summary from
Simulator: status=cleared triggered by create) --- WorkLogText 5: $£ä .-{}è!ü"![]&lt;> 123 ABC
öäü --</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:25:03.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>1. Summary from Simulator: status=cleared triggered by
create</v07:workLogSummary>
          <v07:workLogNotes>1 - This is a Note from the TIBCO Simulator --- (1. Summary from
Simulator: status=cleared triggered by create) --- WorkLogText 5: $£ä .-{}è!ü"![]&lt;> 123 ABC
öäü --</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:25:03.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>WorkReport</v07:workLogSummary>
          <v07:workLogNotes>test resolution text 4</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:24:58.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>OTDR-Measurements-C0</v07:workLogSummary>
          <v07:workLogNotes>OTDR-Interruption 12345
OTDR-Attenuation 67890</v07:workLogNotes>
          <v07:workLogDateTime>2018-02-07T09:24:42.000+01:00</v07:workLogDateTime>
        </v07:workLogList>
        <v07:workLogList>
          <v07:workLogSummary>OTDR-Measurements-CUST</v07:workLogSummary>

```

```

        <v07:workLogNotes>OTDR-Interruption          09876
OTDR-Attenuation 54321</v07:workLogNotes>
        <v07:workLogDateTime>2018-02-07T09:24:42.000+01:00</v07:workLogDateTime>
    </v07:workLogList>
    <v07:workLogList>
        <v07:workLogSummary>1. Summary from Simulator: status=openActivate triggered by
create</v07:workLogSummary>
        <v07:workLogNotes>1 - This is a Note from the TIBCO Simulator --- (1. Summary from
Simulator: status=openActivate triggered by create) --- WorkLogText 1: $£ä .-{}è!ü"![]&lt;> 123
ABC öäü --</v07:workLogNotes>
        <v07:workLogDateTime>2018-02-07T09:24:41.000+01:00</v07:workLogDateTime>
    </v07:workLogList>
    <v07:workLogList>
        <v07:workLogSummary>2. Summary from Simulator: status=openActivate triggered by
create</v07:workLogSummary>
        <v07:workLogNotes>2 - This is a Note from the TIBCO Simulator --- (2. Summary from
Simulator: status=openActivate triggered by create) --- WorkLogText 1: $£ä .-{}è!ü"![]&lt;> 123
ABC öäü --</v07:workLogNotes>
        <v07:workLogDateTime>2018-02-07T09:24:41.000+01:00</v07:workLogDateTime>
    </v07:workLogList>
    <v07:workLogList>
        <v07:workLogSummary>3. Summary from Simulator: status=openActivate triggered by
create</v07:workLogSummary>
        <v07:workLogNotes>3 - This is a Note from the TIBCO Simulator --- (3. Summary from
Simulator: status=openActivate triggered by create) --- WorkLogText 1: $£ä .-{}è!ü"![]&lt;> 123
ABC öäü --</v07:workLogNotes>
        <v07:workLogDateTime>2018-02-07T09:24:41.000+01:00</v07:workLogDateTime>
    </v07:workLogList>
    </v07:incident>
</v07:getClarificationTicketDetailResponse>
</soapenv:Body>
</soapenv:Envelope>

```

### 3 Notification (Tracking)

The Notification Service is used to track the processing of Orders and Incidents in CoPa / WSG.

The Notification Service offers the possibility to subscribe to notification messages which are created if a specific event occurs. They can then be retrieved via the Notification Web service and remain on the system for a defined number of days (currently 4 days). The notification messages contain the data that is needed to keep the client system up-to-date with the progress of an order.

#### 3.1 Notification handling

You have the possibilities to restrict the notifications you will get back by defining the input parameters (defined in 3.3.1)

The elements you can use to restrict the response are listed below

| Element            | Type                                 | Occ  | Comment                                                                                        |
|--------------------|--------------------------------------|------|------------------------------------------------------------------------------------------------|
| object             | xs:int (totalDigits: <b>3</b> )      | 0..n | [LOV-ID: 1101] The object that triggered the notification, e.g. BBCS-Order, InformationRequest |
| initiator          | xs:int (totalDigits: <b>3</b> )      | 0..n | [LOV-ID: 1106] The initiator of the object                                                     |
| notificationIdFrom | xs:decimal (totalDigits: <b>15</b> ) | 1..1 | A notification ID.                                                                             |
| notificationIdTo   | xs:decimal (totalDigits: <b>15</b> ) | 0..1 | A notification ID.                                                                             |



Objects relevant for the COPA usecases are defined as :

**Object (subset of LOV 1101)**

| Id | Description / meaning                                |
|----|------------------------------------------------------|
| 8  | Information Request (relevant for the this UseCases) |
|    |                                                      |
|    |                                                      |

**Initiator (subset of LOV 1106)**

| Id | Description / meaning |
|----|-----------------------|
| 2  | SCS                   |
| 4  | COPA                  |

Depending on those elements /values you will get only notifications wich are e.g. related to COPA Orders and are initiated by COPA. If you do not fill out those elements you will get all the possible notifications.

**NotificationIdFrom/To**

Each notification has it's own id. A notification defined by its id is e.g. a state change of a defined order from PROCESSING to COMPLETE .

The webservice "only" returns 500 elements (notifications). If you ask NotificationFrom=1 then it gets you the next 500 elements assigned to this dedicated COPA. The sequence is systemwide (!) so there can be that you get the id 501 and the next would be 1056.

So the most simple way is to start with the id notificationIdFrom=1 and not filling you the notificationIdTo.

With this you will get up the next (up to) 500 notification assigned to you. If you have processed those you can use the next call of the webservice starting with the notificationIdFrom=(maxValue of the notificationid of the response +1)

In the response (see 3.3.2) the limitReached is true if the webservice could only return 500 elements and there would be more elements assigned to this COPA with a higher id. The limit is set to 500, this means that you will receive up to 500 notification elemetns.

In case of false, you got all notifications assigned to this COPA withing the response.

### 3.2 Subscribe to Notifications

Changes to the following objects can be notified for the COPA Services:

- CustomerReport
- ParterFileExchange
- FiberUmsa

The notifications can be subscribed to in the administration of the corresponding service, in the WSG Info Services GUI as shown on the next screen shots:

**Service Settings**

ispCopald

**Customer Report Notification** | Customer Report Email | Partner Exchange Notification | Partner Exchange Email

Notify on entering state

| Object Type    | Initiator | Activator | Object State | Object Step       | Event              | Comment   | Notification                        | E-Mail                   |
|----------------|-----------|-----------|--------------|-------------------|--------------------|-----------|-------------------------------------|--------------------------|
| CustomerReport |           |           | COMPLETED    | processingSuccess | Order Notification | Completed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                |           |           | ENTERED      |                   | Order Notification | Entered   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                |           |           | COMPLETED    |                   | Order Notification | Completed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                |           |           | ABORTED      |                   | Order Notification | Aborted   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |



### Service Settings

ispCopaId: 477710 - COPA Test1 WSG

Customer Report Notification | Customer Report Email | **Partner Exchange Notification** | Partner Exchange Email

Notify on entering state

| Object Type       | Initiator | Activator | Object State | Object Step       | Event              | Comment   | Notification                        | E-Mail                   |
|-------------------|-----------|-----------|--------------|-------------------|--------------------|-----------|-------------------------------------|--------------------------|
| PartnerFileImport |           |           | COMPLETED    | processingSuccess | Order Notification | Completed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PartnerFileExport |           |           | COMPLETED    | processingSuccess | Order Notification | Completed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                   |           |           | ENTERED      |                   | Order Notification | Entered   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                   |           |           | COMPLETED    |                   | Order Notification | Completed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|                   |           |           | ABORTED      |                   | Order Notification | Aborted   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

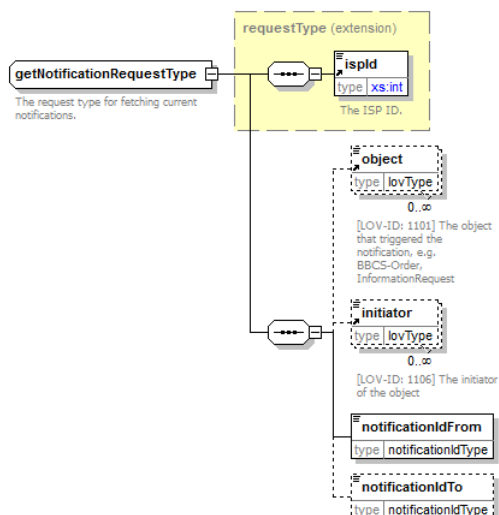
PleaseNote: a FiberUmsa Report is represented as CustomerReport for subscribing a notification.

### 3.3 Notification Web Service

The Notification Web service is used to retrieve the notifications created based on the subscriptions to the different objects that can be notified.

For a detailed interface definition see [1]

#### 3.3.1 Request



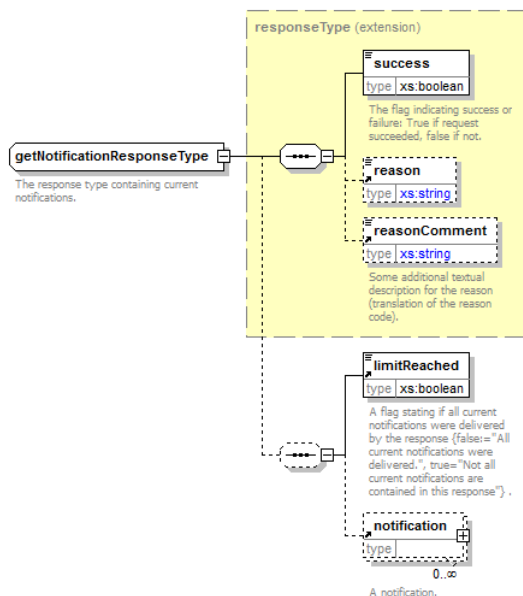
The typical usage is to periodically poll for all new notifications for a specific COPA. This can be achieved by calling the `getNotification()` operation with the "ispld" of the COPAid and the "notificationIdFrom" set

to the maximum value received on the previous call + 1 (boundaries are included in the selection). It is also possible to additionally filter the notifications by object which is useful if the states of the different objects are tracked by different client processes.

A sample XML for the getNotification() request:

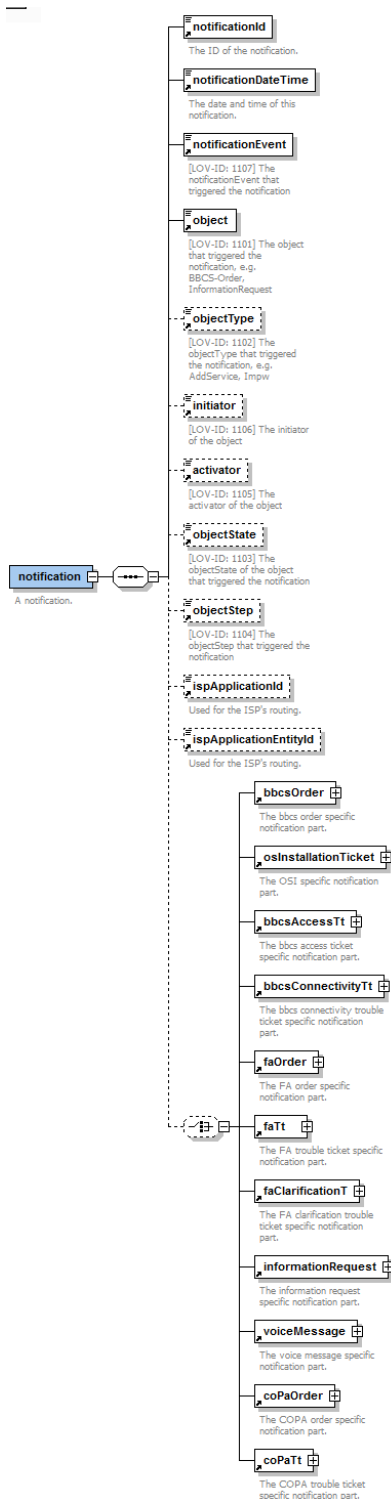
```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
soapenv:mustUnderstand="0">
      <wsse:UsernameToken>
        <wsse:Username>TheUserName</wsse:Username>
        <wsse:Password>ThePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v20:getNotification xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:request>
        <v20:ispId>477710</v20:ispId>
        <v20:object>8</v20:object>
        <v20:notificationIdFrom>82178640</v20:notificationIdFrom>
      </v20:request>
    </v20:getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

### 3.3.2 Response

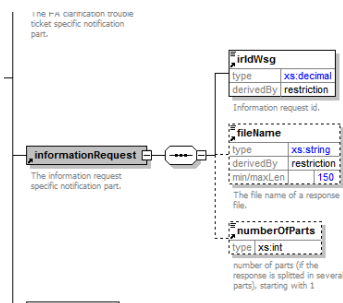


The response contains the "success" flag which indicates whether the operation succeeded or failed. In case of failure the "reason" and "reasonComment" offer additional information about the problem that occurred. The payload consists of a flag "limitReached" and a list of "notifications". If the flag "limitReached" is true then there are more notifications available and it is good practice to repeat the retrieval of notifications immediately until the flag is "false" instead of waiting for the next interval.

The notifications contain the fields that are common for all types of notifications and data structures that are populated depending on the object. The following picture shows the structure of a notification for a "CoPaOrder" order:



Common notification fields



Object specific fields

A sample XML for the getNotification() response:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v20:getNotificationResponse xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:response>
        <v20:success>true</v20:success>
        <v20:limitReached>>false</v20:limitReached>
        <v20:notification>
          <v20:notificationId>82178642</v20:notificationId>
          <v20:notificationDateTime>2015-05-22T11:31:33.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>2</v20:notificationEvent>
          <v20:object>8</v20:object>
          <v20:objectType>3</v20:objectType>
          <v20:initiator>4</v20:initiator>
          <v20:activator>1</v20:activator>
          <v20:objectState>1</v20:objectState>
          <v20:objectStep>15</v20:objectStep>
          <v20:informationRequest>
            <v20:irIdWsg>10950</v20:irIdWsg>
            <v20:fileName>477710_OT0_A_20141015-041417.csv</v20:fileName>
            <v20:numberOfParts>0</v20:numberOfParts>
          </v20:informationRequest>
        </v20:notification>
        <v20:notification>
          <v20:notificationId>82178643</v20:notificationId>
          <v20:notificationDateTime>2015-05-22T11:54:04.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>2</v20:notificationEvent>
          <v20:object>8</v20:object>
          <v20:objectType>4</v20:objectType>
          <v20:initiator>2</v20:initiator>
          <v20:activator>1</v20:activator>
          <v20:objectState>1</v20:objectState>
          <v20:objectStep>17</v20:objectStep>
          <v20:informationRequest>
            <v20:irIdWsg>10951</v20:irIdWsg>
            <v20:fileName>477710_SP_A_2012-01_B16.1_20122009-120059.csv</v20:fileName>
            <v20:numberOfParts>0</v20:numberOfParts>
          </v20:informationRequest>
        </v20:notification>
        <v20:notification>
          <v20:notificationId>82178644</v20:notificationId>
          <v20:notificationDateTime>2015-05-22T11:54:05.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>2</v20:notificationEvent>
          <v20:object>8</v20:object>
          <v20:objectType>4</v20:objectType>
          <v20:initiator>2</v20:initiator>
          <v20:activator>1</v20:activator>
          <v20:objectState>3</v20:objectState>
          <v20:objectStep>18</v20:objectStep>
          <v20:informationRequest>
            <v20:irIdWsg>10951</v20:irIdWsg>
            <v20:fileName>477710_SP_A_2012-01_B16.1_20122009-120059.csv</v20:fileName>
            <v20:numberOfParts>0</v20:numberOfParts>
          </v20:informationRequest>
        </v20:notification>
        <v20:notification>
          <v20:notificationId>82178651</v20:notificationId>
          <v20:notificationDateTime>2015-05-22T14:04:49.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>2</v20:notificationEvent>
          <v20:object>8</v20:object>
          <v20:objectType>7</v20:objectType>
        </v20:notification>
      </v20:response>
    </v20:getNotificationResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    <v20:initiator>2</v20:initiator>
    <v20:activator>4</v20:activator>
    <v20:objectState>5</v20:objectState>
    <v20:objectStep>12</v20:objectStep>
    <v20:informationRequest>
      <v20:irIdWsg>10952</v20:irIdWsg>
      <v20:numberOfParts>1</v20:numberOfParts>
    </v20:informationRequest>
  </v20:notification>
  <v20:notification>
    <v20:notificationId>82178665</v20:notificationId>
    <v20:notificationDateTime>2015-05-22T16:37:16.000+02:00</v20:notificationDateTime>
    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>8</v20:objectType>
    <v20:initiator>5</v20:initiator>
    <v20:activator>1</v20:activator>
    <v20:objectState>5</v20:objectState>
    <v20:objectStep>12</v20:objectStep>
    <v20:informationRequest>
      <v20:irIdWsg>10954</v20:irIdWsg>
      <v20:fileName>477710_any_file_test.csv</v20:fileName>
      <v20:numberOfParts>0</v20:numberOfParts>
    </v20:informationRequest>
  </v20:notification>
</v20:response>
</v20:getNotificationResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## **4 Gaia List Service (Address Autocompletion)**

The Gaia 'List' service provides the necessary information for implementing address autocompletion in a user interface.

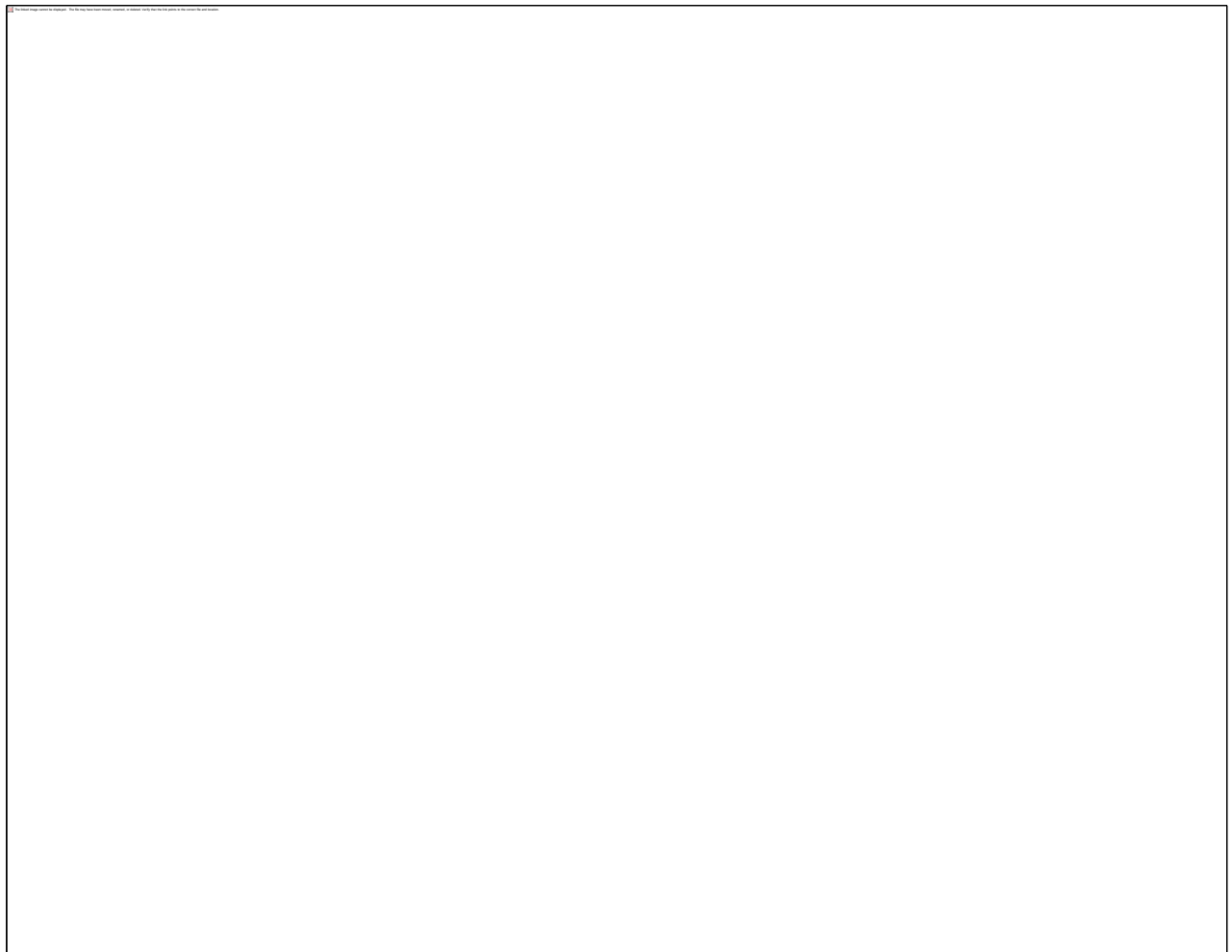
### **4.1 Endpoints**

The following endpoints shall be used for Gaia address services

| Platform   | URL                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Production | <a href="https://wholesale.swisscom.com/wsg/prod/infosrv/gaia/GaiaRestWeb/list">https://wholesale.swisscom.com/wsg/prod/infosrv/gaia/GaiaRestWeb/list</a> |
| Test       | <a href="https://wholesale.swisscom.com/wsg/isp/infosrv/gaia/GaiaRestWeb/list">https://wholesale.swisscom.com/wsg/isp/infosrv/gaia/GaiaRestWeb/list</a>   |

Note: The WSG endpoints are proxies exposing the actual Gaia service via Powergate.

### **4.2 Process Overview**



### 4.3 Documentation

Please refer to [gaia-list-service.html](#) for a detailed documentation of the operations in this interface.

### 4.4 Simple Autocomplete Implementation Example

Note: This example was written using the jQueryUI library

#### 4.4.1 JavaScript

```
var userId = 'wsg'
var selectedZip, selectedStreet, selectedHouseNr, selectedHouse

// RegExp to replace the endpoint of the Gaia response with the proxy endpoint
var urlRegex = new RegExp('^https?://.+(/list/.+)$');

// Search function for the autocomplete
function search(array, request, response) {
    var term = $.ui.autocomplete.escapeRegex(request.term)
    // First get all matches that start with the search term e.g. 'Bern' for 'Be'
    , startsWithMatcher = new RegExp("^" + term, "i")
    , startsWith = $.grep(array, function(value) {
        return startsWithMatcher.test(value.label || value.value || value);
    })
    // Then get the ones that contain the term anywhere e.g. '3008 Bern' (with zip) for 'Be'
    , containsMatcher = new RegExp(term, "i")
    , contains = $.grep(array, function(value) {
        return $.inArray(value, startsWith) < 0 &&
            containsMatcher.test(value.label || value.value || value);
    });

    response(startsWith.concat(contains));
}

// Get the link that points to the proxy's endpoint from the original Gaia link
function getLink(links, rel, gaiaBasePath) {
    for (i = 0; i < links.length; i++) {
        var link = links[i]
        if (link.rel == rel) {
            return link.href.replace(urlRegex, gaiaBasePath + '$1')
        }
    }
}

// Add autocomplete to a zip / city input
function registerZipCityAutocompletion(input, gaiaBasePath, addressUsage = 'PST') {
    var zipCities = []

    // Get the full list of zips + cities
    $.ajax({
        url: gaiaBasePath + "/list/zipCities?userId=" + userId + "&official=true&addressUsage=" +
            addressUsage + "&zipCityType=domicile",
```



```

type: "GET",
dataType: "json",
success: function(data) {
    zipCities = $.map(data, function(obj) {
        return {
            label: obj.zipCity,
            value: obj.zipCity,
            streetsLink: getLink(obj.links, 'streets', gaiaBasePath),
            houseNamesLink: getLink(obj.links, 'houseNames', gaiaBasePath)
        };
    });
}
});

// Add autocomplete to the input field
input.autocomplete({
    minLength: 2, // Start autocomplete after two characters for good performance
    delay: 0,
    source: function (request, response) {
        search(zipCities, request, response)
    },
    select: function (event, ui) {
        selectedZip = ui.item
    }
})
}

// Add autocomplete to a street input
function registerStreetAutocompletion(input, gaiaBasePath) {
    var streets = []

    // Find all streets for the selected zipCity on focus of the street input
    input.focus(function() {
        if (selectedZip != null && "streetsLink" in selectedZip) {
            $.ajax({
                url: selectedZip.streetsLink,
                type: "GET",
                success: function(data) {
                    streets = $.map(data, function(obj) {
                        return {
                            label: obj.streetName,
                            value: obj.streetName,
                            houseNrsLink: getLink(obj.links, 'houseNumbers', gaiaBasePath)
                        };
                    });
                }
            });
        }
    });
}

// Add autocomplete to the input field
input.autocomplete({
    delay: 0,
    source: function (request, response) {
        search(streets, request, response)
    },

```

```

        select: function (event, ui) {
            selectedStreet = ui.item
        }
    })
}

// Add autocomplete to a houseNr input
function registerHouseNrAutocompletion(input, gaiaBasePath) {
    var houseNrs = []

    // Find all houseNrs for the selected street on focus of the houseNrs input
    input.focus(function() {
        if (selectedStreet != null && "houseNrsLink" in selectedStreet) {
            $.ajax({
                url: selectedStreet.houseNrsLink,
                type: "GET",
                success: function(data) {
                    houseNrs = $.map(data, function(obj) {
                        return {
                            label: obj.houseNumber,
                            value: obj.houseNumber,
                            // Link to the details of this unique location, not used for autocompletion
                            addressDetailsLink: getLink(obj.links, 'addressDetails', gaiaBasePath)
                        };
                    });
                }
            });
        }
    });
}

// Add autocomplete to the input field
input.autocomplete({
    delay: 0,
    source: function (request, response) {
        search(houseNrs, request, response)
    },
    select: function (event, ui) {
        selectedHouseNr = ui.item
    }
})
}

// Add autocomplete to a houseName input
function registerHouseNameAutocompletion(input, gaiaBasePath, addressUsage) {
    var houseNames = []

    // Find all houseNames for the selected zipCity on focus of the houseNames input
    input.focus(function() {
        if (selectedZip != null && "houseNamesLink" in selectedZip) {
            $.ajax({
                url: selectedZip.houseNamesLink,
                type: "GET",
                success: function(data) {
                    houseNames = $.map(data, function(obj) {
                        return {
                            label: obj.houseName,

```

```

        value: obj.houseName,
        // Link to the details of this unique location, not used for autocompletion
        addressDetailsLink: getLink(obj.links, 'addressDetails', gaiaBasePath)
    });
    });
}
});
}
});

// Add autocompletion to the input field
input.autocomplete({
    delay: 0,
    source: function (request, response) {
        search(houseNames, request, response)
    },
    select: function (event, ui) {
        selectedHouse = ui.item
    }
})
}

// Register autocompletion for address inputs, addressUsage defaults to PST (All addresses will
// be loaded: postal, official & technical)
function registerAddressAutocompletion(gaiaBasePath, zipInput, streetInput, houseNrInput,
houseNameInput, addressUsage = 'PST') {
    if (zipInput != null) {
        registerZipCityAutocompletion(zipInput, gaiaBasePath, addressUsage)
    }
    if (streetInput != null) {
        registerStreetAutocompletion(streetInput, gaiaBasePath)
    }
    if (houseNrInput != null) {
        registerHouseNrAutocompletion(houseNrInput, gaiaBasePath)
    }
    if (houseNameInput != null) {
        registerHouseNameAutocompletion(houseNameInput, gaiaBasePath)
    }
}
}

```

#### 4.4.2 HTML

```

<DOCTYPE html>
<html>
  <head>
    <script src="jquery-1.11.3.min.js"></script>
    <script src="jquery-ui-1.10.4.min.js"></script>
    <!-- from previous chapter -->
    <script src="address_autocompletion.js"></script>
    <link rel="stylesheet" type="text/css" href="jquery-ui-1.10.4.css">
    <script type="text/javascript">
      $(function() {
        registerAddressAutocompletion('https://wholesale.swisscom.com/wsg/prod/infosrv/gaia/GaiaRestWeb',
        $("#zipCity"), $("#street"), $("#houseNr"), $("#house"))
      });
    </script>
  </head>

```

```
<body>
  <input id="zipCity" name="zipCity" type="text">
  <input id="street" name="street" type="text">
  <input id="houseNr" name="houseNr" type="text">
  <input id="house" name="house" type="text">
</body>
</html>
```

## 5 Appendix A: Notifications created for "Create Report"

### 5.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
soapenv:mustUnderstand="0">
      <wsse:UsernameToken>
        <wsse:Username>TheUserName</wsse:Username>
        <wsse:Password>ThePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v20:getNotification xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:request>
        <v20:ispId>477710</v20:ispId>
        <v20:object>8</v20:object>
        <v20:notificationIdFrom>82178640</v20:notificationIdFrom>
      </v20:request>
    </v20:getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

### 5.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v20:getNotificationResponse xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:response>
        <v20:success>true</v20:success>
        <v20:limitReached>false</v20:limitReached>
        <v20:notification>
          <v20:notificationId>82178642</v20:notificationId>
          <v20:notificationDateTime>2015-05-22T11:31:33.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>2</v20:notificationEvent>
          <v20:object>8</v20:object>
          <v20:objectType>3</v20:objectType>
          <v20:initiator>4</v20:initiator>
          <v20:activator>1</v20:activator>
          <v20:objectState>1</v20:objectState>
          <v20:objectStep>15</v20:objectStep>
          <v20:informationRequest>
            <v20:irIdWsg>10950</v20:irIdWsg>
            <v20:fileName>477710_OT0_A_20141015-041417.csv</v20:fileName>
            <v20:numberOfParts>0</v20:numberOfParts>
          </v20:informationRequest>
        </v20:notification>
        <v20:notification>
          <v20:notificationId>82178643</v20:notificationId>
          <v20:notificationDateTime>2015-05-22T11:54:04.000+02:00</v20:notificationDateTime>
```

```

    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>4</v20:objectType>
    <v20:initiator>2</v20:initiator>
    <v20:activator>1</v20:activator>
    <v20:objectState>1</v20:objectState>
    <v20:objectStep>17</v20:objectStep>
    <v20:informationRequest>
      <v20:irIdWsg>10951</v20:irIdWsg>
      <v20:fileName>477710_SP_A_2012-01_B16.1_20122009-120059.csv</v20:fileName>
      <v20:numberOfParts>0</v20:numberOfParts>
    </v20:informationRequest>
  </v20:notification>
  <v20:notification>
    <v20:notificationId>82178644</v20:notificationId>
    <v20:notificationDateTime>2015-05-22T11:54:05.000+02:00</v20:notificationDateTime>
    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>4</v20:objectType>
    <v20:initiator>2</v20:initiator>
    <v20:activator>1</v20:activator>
    <v20:objectState>3</v20:objectState>
    <v20:objectStep>18</v20:objectStep>
    <v20:informationRequest>
      <v20:irIdWsg>10951</v20:irIdWsg>
      <v20:fileName>477710_SP_A_2012-01_B16.1_20122009-120059.csv</v20:fileName>
      <v20:numberOfParts>0</v20:numberOfParts>
    </v20:informationRequest>
  </v20:notification>
  <v20:notification>
    <v20:notificationId>82178651</v20:notificationId>
    <v20:notificationDateTime>2015-05-22T14:04:49.000+02:00</v20:notificationDateTime>
    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>7</v20:objectType>
    <v20:initiator>2</v20:initiator>
    <v20:activator>4</v20:activator>
    <v20:objectState>5</v20:objectState>
    <v20:objectStep>12</v20:objectStep>
    <v20:informationRequest>
      <v20:irIdWsg>10952</v20:irIdWsg>
      <v20:numberOfParts>1</v20:numberOfParts>
    </v20:informationRequest>
  </v20:notification>
  <v20:notification>
    <v20:notificationId>82178665</v20:notificationId>
    <v20:notificationDateTime>2015-05-22T16:37:16.000+02:00</v20:notificationDateTime>
    <v20:notificationEvent>2</v20:notificationEvent>
    <v20:object>8</v20:object>
    <v20:objectType>8</v20:objectType>
    <v20:initiator>5</v20:initiator>
    <v20:activator>1</v20:activator>
    <v20:objectState>5</v20:objectState>
    <v20:objectStep>12</v20:objectStep>
    <v20:informationRequest>
      <v20:irIdWsg>10954</v20:irIdWsg>
      <v20:fileName>477710_any_file_test.csv</v20:fileName>
      <v20:numberOfParts>0</v20:numberOfParts>
    </v20:informationRequest>
  </v20:notification>
</v20:response>
</v20:getNotificationResponse>
</soapenv:Body>
</soapenv:Envelope>

```