

WSG B2B Web Service Tutorial WSG Information Services

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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
			-
			-
			-
			-
			-
			-
			-

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)

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 (v15.0.1), wsgNotification_v15.0.1.zip
- [2] WSG Information Services V2.0.0 wsgInfoSrv_v2.0.0.zip
- [3] WSG Messages (WSG_MessagesV**.pdf, ** represents latest version)

WSG Information Services

For a detailed interface definition see **Error! Reference source not found..**

1.4 Endpoints

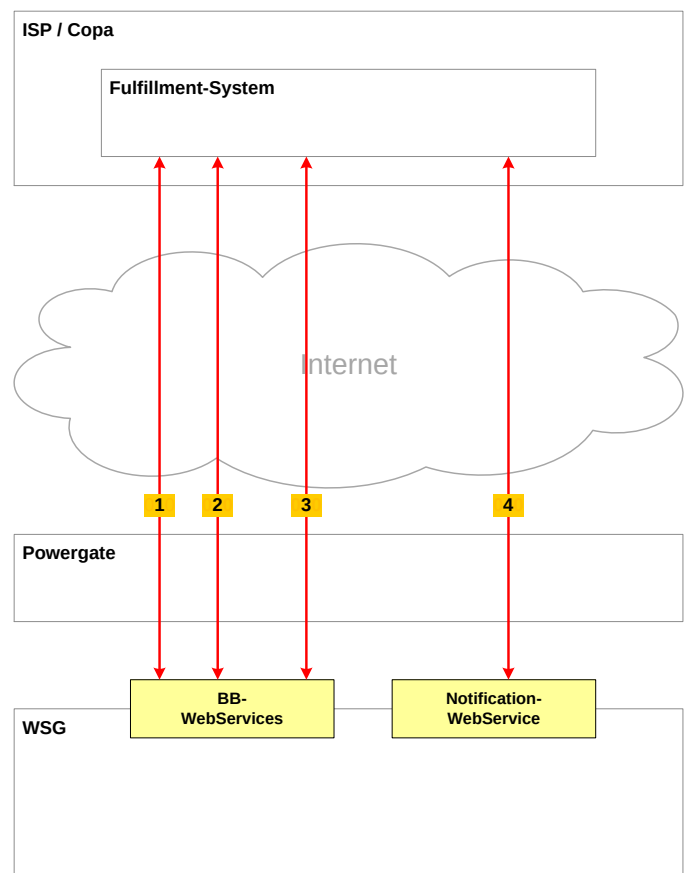
The following endpoints shall be used for WSG Information Services

Platform	URL
Production	https://webservices.swisscom.com/wsg/prod/infosrv/WsgInfoSrvV002
Test	https://webservices.swisscom.com/wsg/isp/infosrv/WsgInfoSrvV002

1.5 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 Reaport**
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.



1.6 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**).

1.6.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <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>
    <v02:createReportRequest>
      <v02:ispCopaId>477710</v02:ispCopaId>
      <v02:reportType>1</v02:reportType>
      <v02:centralOffice>
        <v02:taxRegion>640</v02:taxRegion>
        <v02:bbDeviceLocation>BOL</v02:bbDeviceLocation>
      </v02:centralOffice>
      <v02:onlyActiveLines>false</v02:onlyActiveLines>
    </v02:createReportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

1.6.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v02:createReportResponse xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
      <v02:success>true</v02:success>
      <v02:reportId>4368</v02:reportId>
    </v02:createReportResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

1.7 ListReport

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

1.7.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <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>
    <v02:listReportRequest>
      <v02:ispCopaId>477710</v02:ispCopaId>
      <v02:reportType>1</v02:reportType>
      <v02:centralOffice>
        <v02:taxRegion>640</v02:taxRegion>
        <v02:bbDeviceLocation>BOL</v02:bbDeviceLocation>
      </v02:centralOffice>
      <v02:onlyActiveLines>false</v02:onlyActiveLines>
    </v02:listReportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

</wsse:Security>
</soapenv:Header>
<soapenv:Body>
  <v02:listReportsRequest>
    <v02:ispCopaId>477710</v02:ispCopaId>
    <v02:centralOffice>
      <v02:taxRegion>640</v02:taxRegion>
      <v02:bbDeviceLocation>BOL</v02:bbDeviceLocation>
    </v02:centralOffice>
    <v02:reportType>1</v02:reportType>
  </v02:listReportsRequest>
</soapenv:Body>
</soapenv:Envelope>

```

1.7.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v02:listReportsResponse xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
      <v02:success>true</v02:success>
      <v02:report>
        <v02:reportId>4368</v02:reportId>
        <v02:reportType>1</v02:reportType>
        <v02:numberOfParts>1</v02:numberOfParts>
        <v02:centralOffice>
          <v02:taxRegion>640</v02:taxRegion>
          <v02:bbDeviceLocation>BOL</v02:bbDeviceLocation>
        </v02:centralOffice>
        <v02:creationDateTime>2013-07-23T20:34:08.000+02:00</v02:creationDateTime>
      </v02:report>
    </v02:listReportsResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

1.7.3 GUI

List Report

Back

Refresh

[First/Prev] 1, 2, 3, 4 [Next/Last]

Download	Report Id	Report Type	Number of Parts	Tax Region	BB Device Location	Creation Date/Time
Part 1	4267	OmdfXmdf	1	649	BOL	27.06.2013 22:26:48
Part 1	4269	OmdfXmdf	1	640	BOL	01.07.2013 08:42:03
Part 1	4271	OmdfXmdf	1	640	BOL	01.07.2013 10:01:39
Part 1	4273	OmdfXmdf	1	640	BOL	01.07.2013 10:02:17
Part 1	4275	OmdfXmdf	1	640	BOL	01.07.2013 10:02:27
	4292	OmdfXmdf	0	640	BOL	03.07.2013 16:19:08
	4294	OmdfXmdf	0	640	BOL	03.07.2013 16:20:42
Part 1	4296	OmdfXmdf	1	640	BOL	03.07.2013 16:23:16
Part 1	4311	OmdfXmdf	1	640	BOL	04.07.2013 11:27:45
Part 1	4313	OtoOmdf	1	640	BOL	04.07.2013 11:30:50
Part 1	4315	OtoSap	1	640	BOL	04.07.2013 11:31:27
Part 1	4318	OtoOmdf	1	640	BOL	04.07.2013 15:47:35
Part 1	4321	OtoOmdf	1	640	BOL	12.07.2013 11:17:51
Part 1	4323	OtoOmdf	1	640	BOL	12.07.2013 11:18:33
Part 1	4353	OmdfXmdf	1	640	BOL	19.07.2013 15:48:38
Part 1	4368	OmdfXmdf	1	640	BOL	23.07.2013 20:34:08

1.8 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.

1.8.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <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>
    <v02:getReportRequest>
      <v02:ispCopaId>477710</v02:ispCopaId>
      <v02:reportId>4368</v02:reportId>
      <v02:partNumber>1</v02:partNumber>
    </v02:getReportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

1.8.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v02:getReportResponse xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
      <v02:success>true</v02:success>
      <v02:report>
        <v02:reportId>4368</v02:reportId>
        <v02:partNumber>1</v02:partNumber>
        <v02:reportOmdfXmdf
          xmlns:v02="http://www.swisscom.com/wsg/infoSrv/reportOmdfXmdf/v02">
          <v02:ispCopaId>477710</v02:ispCopaId>
          <v02:centralOffice>
            <v02:taxRegion>640</v02:taxRegion>
            <v02:bbDeviceLocation>BOL</v02:bbDeviceLocation>
          </v02:centralOffice>
          <v02:creationDateTime>2013-07-23T20:34:08.438+02:00</v02:creationDateTime>
          <v02:row>
            <v02:omdfXmdfRelation>OmdfRelation</v02:omdfXmdfRelation>
            <v02:omdfName>Omdf1</v02:omdfName>
            <v02:xmdfName>Xmdf1</v02:xmdfName>
            <v02:breakoutCable>cooperationCable</v02:breakoutCable>
            <v02:cableStatus>cableStatus</v02:cableStatus>
            <v02:relationStatus>relationStatus</v02:relationStatus>
            <v02:lodgeId>477710</v02:lodgeId>
          </v02:row>
          <v02:row>
            <v02:omdfXmdfRelation>OmdfRelation2</v02:omdfXmdfRelation>
            <v02:omdfName>Omdf2</v02:omdfName>
            <v02:xmdfName>Xmdf2</v02:xmdfName>
            <v02:breakoutCable>cooperationCable2</v02:breakoutCable>
            <v02:cableStatus>cableStatus</v02:cableStatus>
```



```

        <v02:relationStatus>relationStatus</v02:relationStatus>
        <v02:lodgerId>477710</v02:lodgerId>
      </v02:row>
    </v02:reportOmdfXmdf>
  </v02:report>
</v02:getReportResponse>
</soapenv:Body>
</soapenv:Envelope>

```

1.9 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.

1.9.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <soapenv:Header/>
  <soapenv:Body>
    <v02:uploadFileRequest>
      <v02:ispCopaId>477710</v02:ispCopaId>
      <v02:fileName>477710_any_file_test.csv</v02:fileName>
      <v02:fileContent xm:contentType="test"
        xmlns:xm="http://www.w3.org/2005/05/xmlmime">IDQ3NzcxcMF9TUF9BXzIwMTItMDFfQjE2LjFfMjAxMjIwMDktMjM1
        OTU5LmNzdG==</v02:fileContent>
      </v02:uploadFileRequest>
    </soapenv:Body>
  </soapenv:Envelope>

```

1.9.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <soapenv:Body>
    <v02:uploadFileResponse xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
      <v02:success>true</v02:success>
      <v02:irIdWsg>4370</v02:irIdWsg>
    </v02:uploadFileResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

1.9.3 GUI

Data Exchange Maintenance

Back

Refresh

Number of Entries: 1

	Information Request ID	Object Type	Object State	Object Step	File Name	Transaction Date/Time
Detail	4370	PartnerFileImport	COMPLETED	processingSuccess	477710_any_file_test.csv	23.07.2013 20:55:04

Data Exchange Maintenance

Overview

Information Request ID 4370
Transaction Date/Time 23.07.2013 20:55:04
Partner 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	23.07.2013 20:55:04	Object transferred to backend system
PROCESSING	processingStart	23.07.2013 20:54:52	Attached import file
PROCESSING	processingStart	23.07.2013 20:54:51	

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1.10 listFiles

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

1.10.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <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>
    <v02:listFilesRequest>
      <v02:ispCopaId>477710</v02:ispCopaId>
      <v02:objectType>8</v02:objectType>
      <v02:irDateTimeFrom>2013-07-23T00:00:00.000+02:00</v02:irDateTimeFrom>
    </v02:listFilesRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

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

1.10.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v02:listFilesResponse xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
      <v02:success>true</v02:success>
      <v02:fileInformation>
        <v02:irDateTime>2013-07-23T20:55:04.000+02:00</v02:irDateTime>
        <v02:objectStep>12</v02:objectStep>
        <v02:objectState>5</v02:objectState>
        <v02:comment>Object transferred to backend system</v02:comment>
        <v02:irIdWsg>4370</v02:irIdWsg>
        <v02:fileName>477710_any_file_test.csv</v02:fileName>
        <v02:objectType>8</v02:objectType>
        <v02:initiator>5</v02:initiator>
        <v02:activator>1</v02:activator>
      </v02:fileInformation>
    </v02:listFilesResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

1.10.3 GUI

Data Exchange Maintenance

Back

Refresh

Number of Entries: 1

	Information Request ID	Object Type	Object State	Object Step	File Name	Transaction Date/Time
Detail	4370	PartnerFileImport	COMPLETED	processingSuccess	477710_any_file_test.csv	23.07.2013 20:55:04

1.11 downloadFiles

1.11.1.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
  <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>
```

```

<v02:downloadFileRequest>
  <v02:ispCopaId>477710</v02:ispCopaId>
  <v02:irIdWsg>4371</v02:irIdWsg>
</v02:downloadFileRequest>
</soapenv:Body>
</soapenv:Envelope>

```

1.11.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v02:downloadFileResponse xmlns:v02="http://www.swisscom.com/wsg/infoSrv/v02">
      <v02:fileInformation>
        <v02:irDateTime>2013-07-23T21:04:53.000+02:00</v02:irDateTime>
        <v02:objectStep>12</v02:objectStep>
        <v02:objectState>5</v02:objectState>
        <v02:comment/>
        <v02:irIdWsg>4371</v02:irIdWsg>
        <v02:fileName>477710_test_upload.txt</v02:fileName>
        <v02:objectType>9</v02:objectType>
        <v02:initiator>2</v02:initiator>
        <v02:activator>1</v02:activator>
      </v02:fileInformation>
      <v02:fileContent>Ymxh</v02:fileContent>
    </v02:downloadFileResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

1.11.3 GUI

Data Exchange Maintenance

Back

Refresh

Number of Entries: 1

	Information Request ID	Object Type	Object State	Object Step	File Name	Transaction Date/Time
Detail	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	

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1.11.4 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 2 Notification (Tracking) .

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 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.

2.1 Notification handling

You have the possibilities to restrict the notifications you will get back by defining the input parameters (defined in 2.3.1)

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

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

In the response (see 2.3.2) 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 elements.

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

2.2 Subscribe to Notifications

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

- CustomerReport
- PartnerFileExchange
- 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

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
CustomerReport			COMPLETED	processingSuccess	Order Notification	Completed	☒	☐
			ENTERED		Order Notification	Entered	☒	☐
			COMPLETED		Order Notification	Completed	☒	☐
			ABORTED		Order Notification	Aborted	☒	☐

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	☒	☐
PartnerFileExport			COMPLETED	processingSuccess	Order Notification	Completed	☒	☐
			ENTERED		Order Notification	Entered	☒	☐
			COMPLETED		Order Notification	Completed	☒	☐
			ABORTED		Order Notification	Aborted	☒	☐

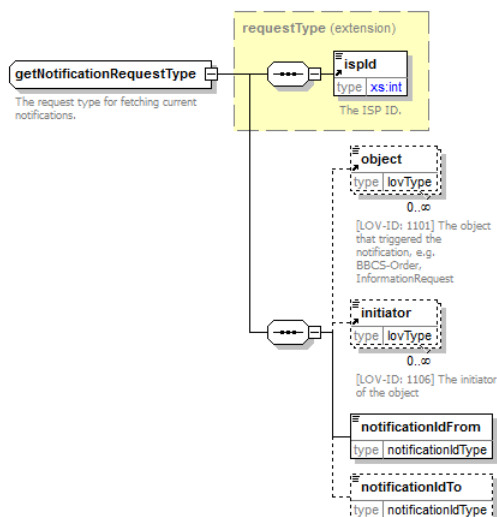
PleaseNote: a FiberUmsa Report is represented as CustomerReport for subscribing a notification.

2.3 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]

2.3.1 Request

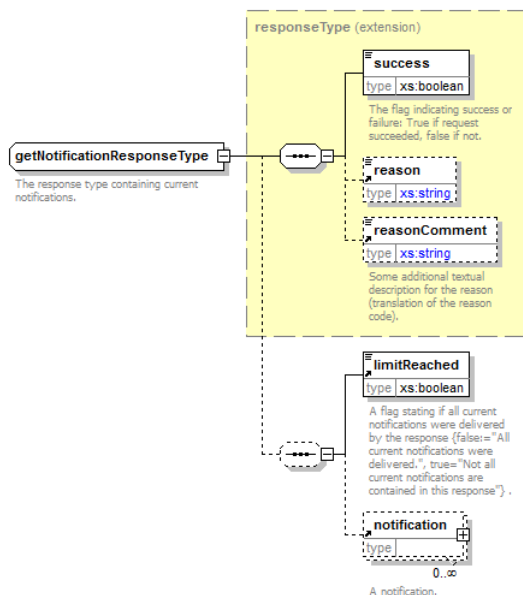


The typical usage is to periodically poll for all new notifications for a specific COPA. This can be achieved by calling the `getNotification()` operation with the "ispld" of the COPAid and the "notificationIdFrom" set to the maximum value received on the previous call + 1 (boundaries are included in 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:

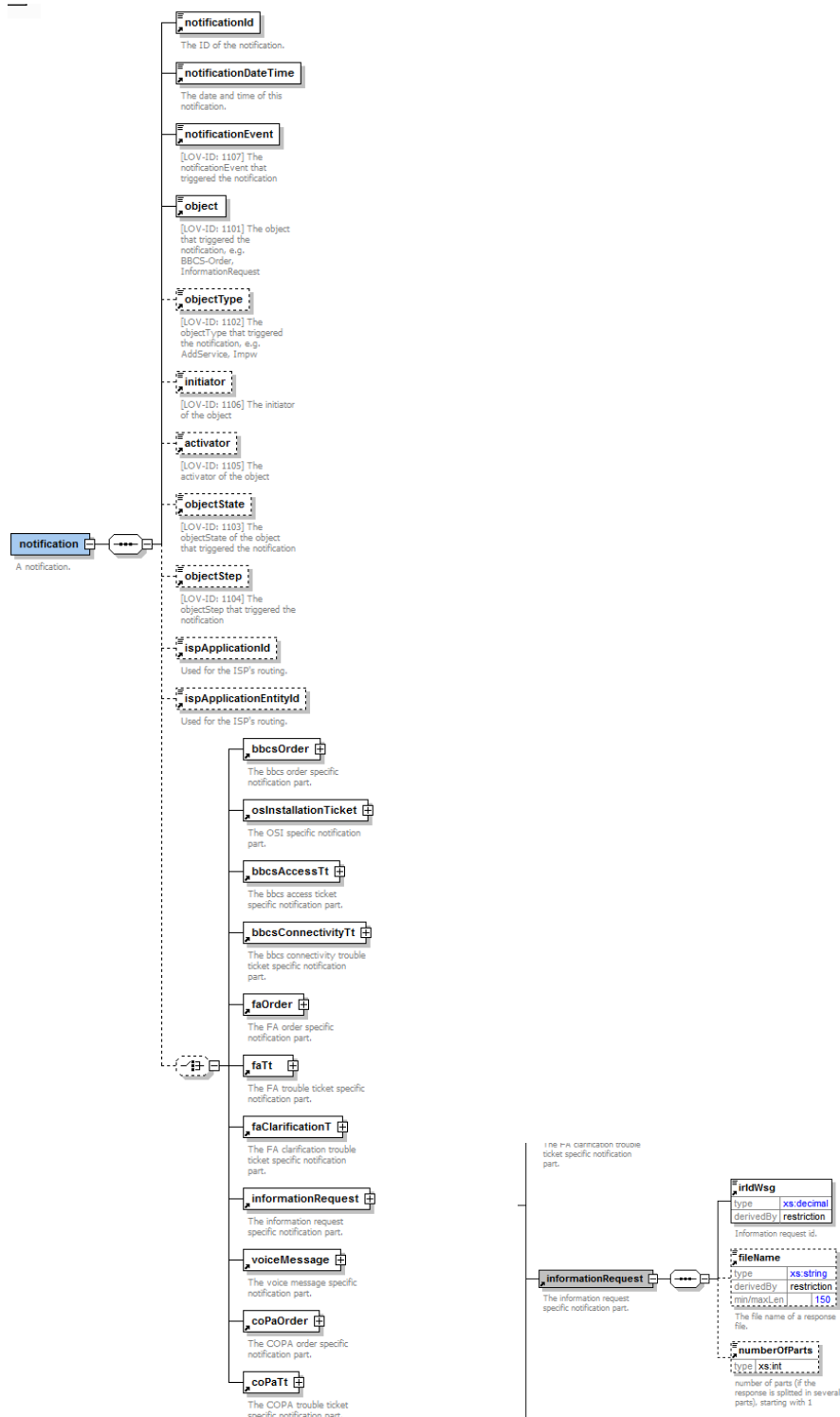
```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" soapenv:actor="http://schemas.xmlsoap.org/soap/actor/next"
soapenv:mustUnderstand="0">
      <wsse:UsernameToken>
        <wsse:Username>TheUserName</wsse:Username>
        <wsse:Password>ThePassword</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <getNotification xmlns="http://www.swisscom.com/wsg/notification/v15">
      <request>
        <ispId>477710</ispId>
        <notificationIdFrom>1</notificationIdFrom>
      </request>
    </getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

2.3.2 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:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <getNotificationResponse xmlns="http://www.swisscom.com/wsg/notification/v15">
      <response>
        <success>true</success>
        <limitReached>false</limitReached>
        <notification>
          <notificationId>21284643</notificationId>
          <notificationDateTime>2011-08-10T15:18:44.000+02:00</notificationDateTime>
          <notificationEvent>2</notificationEvent>
          <object>10</object>
          <objectType>1</objectType>
          <initiator>4</initiator>
          <activator>1</activator>
          <objectState>1</objectState>
          <coPaOrder>
            <orderNr>47771020110810000005000000</orderNr>
            <extRef>ref</extRef>
            <oto>
              <socketId>B.001.254.124</socketId>
              <plugNr>2</plugNr>
            </oto>
            <omdf>
              <centralOffice>Office</centralOffice>
              <omdfRack>ONaxe</omdfRack>
              <omdfSlot>1</omdfSlot>
              <omdfPort>1</omdfPort>
            </omdf>
            <contrEleId>520</contrEleId>
            <comment>comment</comment>
          </coPaOrder>
        </notification>
      </response>
    </getNotificationResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

3 Appendix A: Notifications created for “Create Report”

3.1 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>
    <v15:getNotification xmlns:v15="http://www.swisscom.com/wsg/notification/v15">
      <v15:request>
        <v15:ispId>477710</v15:ispId>
        <v15:notificationIdFrom>63194661</v15:notificationIdFrom>
      </v15:request>
    </v15:getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

3.2 Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v15:getNotificationResponse xmlns:v15="http://www.swisscom.com/wsg/notification/v15">
      <v15:response>
        <v15:success>true</v15:success>
        <v15:limitReached>false</v15:limitReached>
        <v15:notification>
          <v15:notificationId>63194662</v15:notificationId>
          <v15:notificationDateTime>2013-07-23T20:34:08.000+02:00</v15:notificationDateTime>
          <v15:notificationEvent>2</v15:notificationEvent>
          <v15:object>8</v15:object>
          <v15:objectType>7</v15:objectType>
          <v15:initiator>2</v15:initiator>
          <v15:activator>4</v15:activator>
          <v15:objectState>5</v15:objectState>
          <v15:objectStep>12</v15:objectStep>
          <v15:informationRequest>
            <v15:irIdWsg>4368</v15:irIdWsg>
            <v15:numberOfParts>0</v15:numberOfParts>
          </v15:informationRequest>
        </v15:notification>
        <v15:notification>
          <v15:notificationId>63194663</v15:notificationId>
          <v15:notificationDateTime>2013-07-23T20:55:04.000+02:00</v15:notificationDateTime>
          <v15:notificationEvent>2</v15:notificationEvent>
          <v15:object>8</v15:object>
          <v15:objectType>8</v15:objectType>
          <v15:initiator>5</v15:initiator>
          <v15:activator>1</v15:activator>
          <v15:objectState>5</v15:objectState>
          <v15:objectStep>12</v15:objectStep>
          <v15:informationRequest>
            <v15:irIdWsg>4370</v15:irIdWsg>
          </v15:informationRequest>
        </v15:notification>
      </v15:response>
    </v15:getNotificationResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<v15:fileName>477710_any_file_test.csv</v15:fileName>
<v15:numberOfParts>0</v15:numberOfParts>
</v15:informationRequest>
</v15:notification>
<v15:notification>
  <v15:notificationId>63194664</v15:notificationId>
  <v15:notificationDateTime>2013-07-23T21:04:53.000+02:00</v15:notificationDateTime>
  <v15:notificationEvent>2</v15:notificationEvent>
  <v15:object>8</v15:object>
  <v15:objectType>9</v15:objectType>
  <v15:initiator>2</v15:initiator>
  <v15:activator>1</v15:activator>
  <v15:objectState>5</v15:objectState>
  <v15:objectStep>12</v15:objectStep>
  <v15:informationRequest>
    <v15:irIdWsg>4371</v15:irIdWsg>
    <v15:fileName>477710_test_upload.txt</v15:fileName>
    <v15:numberOfParts>0</v15:numberOfParts>
  </v15:informationRequest>
</v15:notification>
</v15:response>
</v15:getNotificationResponse>
</soapenv:Body>
</soapenv:Envelope>
```