

WSG B2B Web Service Tutorial

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Checklist of changes

Version	Date	Changed by	Comments / nature of the change
0.1	29.10.2010	HP	- Initial version
30	09.02.2017	Roland Staub	- Update for newer B2B March17
31	21.05.2017	Roland Staub	- Update for newer B2B June
32	12.07.2017	Roland Staub	- Update for newer B2B August 17
33	18.08.2017	Roland Staub	- Update for newer B2B September 17
33	20.09.2017	Roland Staub	- Update for newer B2B October 17
34	24.10.2017	Roland Staub	- Update for newer B2B November 17
35	20.12.2017	Mikko Louie Abad	- Update for newer B2B January 18
36	07.02.2018	Markus Walther	- Update for newer B2B February 18
37	27.02.2018	Mikko Louie Abad	- Update for newer B2B March 18
38	29.03.2018	Mikko Louie Abad	- Update for newer B2B April 18
39	02.05.2018	Mikko Louie Abad	- Update for newer B2B May 18
40	31.05.2018	Mikko Louie Abad	- Update for newer B2B June 18

Release

int.Version	Date	Released by	Comments / nature of the change
10	25.02.2011	A. Studerus (iA rope1)	Released for WSG-8.3 (Mar 2011)
11	10.06.2011	A. Studerus (iA rope1)	Released for WSG-8.4 (Jun 2011)
13	25.10.2011	H.Künzi	Released for WSG-8.6 (Nov 2011)
14	28.03.2012	H.Künzi	Released for WSG-9.0 (Mai 2012)
15	28.09.2012	H.Künzi	Released for WSG-9.2 (Oct 2012)
16	08.05.2013	H.Künzi	Released for WSG-9.4 (Mai 2013)
17	16.07.2013	H.Künzi	Released for WSG-9.5 (Aug 2013)
19	10.02.2014	H.Künzi	Released for WSG-9.7 (Feb2014)
20	05.05.2014	H.Künzi	Released for WSG-9.8 (Mai2014)
21	13.08.2014	H.Künzi	Released for WSG-9.9 (Aug2014)
22	04.11.2014	H.Künzi	Released for WSG-9.10 (Nov2014)
23	17.02.2015	H.Künzi	Released for WSG-9.11 (Mar2015)
26	28.05.2015	H.Künzi	Released for WSG-9.12 (Jun2015)
25	31.07.2015	H.Künzi	Released for WSG-9.13 (Aug2015)
26	20.10.2015	H.Künzi	Released for WSG-9.14 (Nov2015)
27	20.01.2016	H.Künzi	Released for WSG-9.15 (Feb2016)

28	04.05.2016	H.Künzi	Released for WSG-9.16 (Mai2016)
29	01.11.2016	H.Künzi	Released for WSG-9.18 (Nov2016)
30	13.02.2017	H.Künzi	Released for WSG-9.19 (Mar2017)
31	22.05.2017	H.Künzi	Released for WSG1706 (Jun2017)
32	17.07.2017	H.Künzi	Released for WSG-08.17(Aug2017)
33	03.10.2017	S.Lesi	Released for WSG1710 (Oct 2017)
34	26.10.2017	H.Künzi	Released for WSG-17.11
35	05.12.2017	H.Künzi	Released for WSG-18.01 (Jan18)
36	07.02.2018	H.Künzi	Released for WSG-18.02 (Feb18)
37	20.02.2018	H.Künzi	Released for WSG-18.03 (Mar18)
38	27.03.2018	H.Künzi	Released for WSG-18.04 (Apr18)
39	08.05.2018	H.Künzi	Released for WSG-18.05 (Mai18)
40	05.06.2018	H.Künzi	Released for WSG-18.06 (Jun18)

1 Introduction

1.1 Purpose

This document provides information on how to integrate an ISP's/PTS's fulfillment (order handling) and assurance (trouble ticketing) system using the Web services offered by WSG. The following services are covered with examples:

- Notification
- Fulfillment
- Assurance

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 BBCS ordering process are needed.

1.3 Referenced documents

- [1] B2B Interfaces Overview, B2B_Interfaces-Overview.doc
- [2] WSG Model Notification - WEB Outbound (v20.0.1), wsgNotification_v20.0.1.zip
- [3] WSG Model - WEB Outbound (v39.0.1), wsgBb_v39.0.1.zip
- [4] WSG Model - WEB Outbound Trouble Ticket (v34.0.1), wsgTt_v34.0.1.zip
- [5] WSG Model – Web Appointment Booking (v3.0.1), wsgAppBooking_v3.0.1.zip
- [6] WSG Model - FA / TAL - Fulfillment (v15.0.1), wsgFa_v15.0.1.zip
- [7] WSG Model - FA / TAL - Assurance (v3.0.0), wsgFaa_v3.0.0.zip

2 Notification (Tracking)

The Notification Service is used to track the processing of Orders in WSG and acts as a replacement for the different list functions of the file transfer (listRequest, listTdmMessageRequest, etc.) and the notification by email.

Instead of requesting a list of orders in form of a file 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. If at a certain point more data is needed, there is always the possibility to retrieve all the details of an order by using a different Web service, e.g. the BB Outbound service for orders.

2.1 Subscribe to Notifications

Changes to the following objects can be notified:

- BBCS-Order
- BBCS-Installation Ticket
- BBCS-Access TT
- BBCS-Connectivity TT
- FA-Order
- FA-TT
- FA-Clarification T
- Information Request
- NetworkCustomerNotifications
- Voice Business

The notifications can be subscribed to in the administration of the corresponding service, for example in the BBCS Order GUI as shown on the next screen shots:

Order settings	Installation Ticket settings	Voice Message Settings	ISP Pool Settings	All ISP Pool Settings				
BB Order settings								
Voice message e-mail: xyz@zyx.net								
☐ Notify voice message								
State change e-mail: xyz@zyx.net								
Notify on entering state								
Object Type	Initiator	Activator	Object State	Step	Event	Comment	By Email	By Notification
-	ISP	Order	ENTERED	-	Order Notification	BBCS Order by ISP Status ENTERED	☐	☒
-	ISP	Order	HOLDING	-	Order Notification	BBCS Order by ISP Status HOLDING	☐	☒
-	ISP	Order	CHECKED	-	Order Notification	BBCS Order by ISP Status CHECKED	☐	☒
-	ISP	Order	EXECUTED	-	Order Notification	BBCS Order by ISP Status EXECUTED	☐	☒
-	ISP	Order	REJECTED	-	Order Notification	BBCS Order by ISP Status REJECTED	☐	☒
-	ISP	Order	COMPLETED	-	Order Notification	BBCS Order by ISP Status COMPLETED	☐	☒
-	ISP	Order	EXCEPTION	-	Order Notification	BBCS Order by ISP Status EXCEPTION	☐	☒
-	SCS	Order	COMPLETED	-	Order Notification	BBCS Order by SCS Status COMPLETED	☐	☒
Special informations e-mail: xyz@zyx.net								
☐ Notify special informations								
Special order notification e-mail: xyz@zyx.net								
back submit reset								

Order settings

Installation Ticket settings

Voice Message Settings

ISP Pool Settings

All ISP Pool Settings

Notify on entering state

Object Type	Initiator	Activator	Object State	Step	Event	Comment	By Notification
GV01	-	-	-	-	Classical Notification	New Subscriber	☒
GV02	-	-	-	-	Classical Notification	New Subscriber	☒
GV03	-	-	-	-	Classical Notification	Relocation	☒
GV04	-	-	-	-	Classical Notification	Relocation	☒
GV05	-	-	-	-	Classical Notification	Temporary Lines	☒
GV06	-	-	-	-	Classical Notification	Temporary Lines	☒
GV11	-	-	-	-	Classical Notification	Correction	☒
GV12	-	-	-	-	Classical Notification	Transfer	☒
GV14	-	-	-	-	Classical Notification	Cancellation	☒
GV15	-	-	-	-	Classical Notification	Relocation	☒
GV16	-	-	-	-	Classical Notification	Number Change	☒
GV17	-	-	-	-	Classical Notification	Access Type Change	☒
GV25	-	-	-	-	Classical Notification	Temporary Service Canceled	☒
GV37	-	-	-	-	Classical Notification	Temporary Service Canceled	☒

back

submit

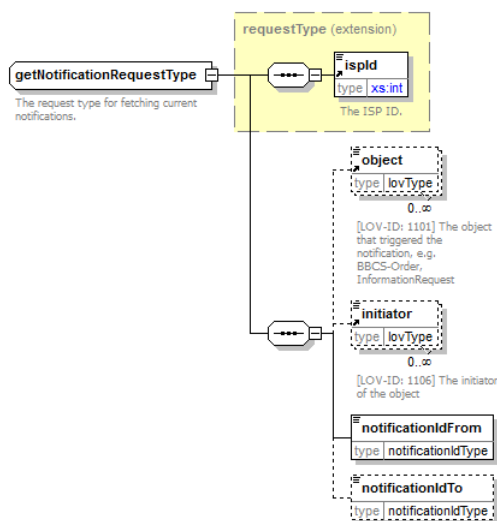
reset

2.2 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 [2]

2.2.1 Request



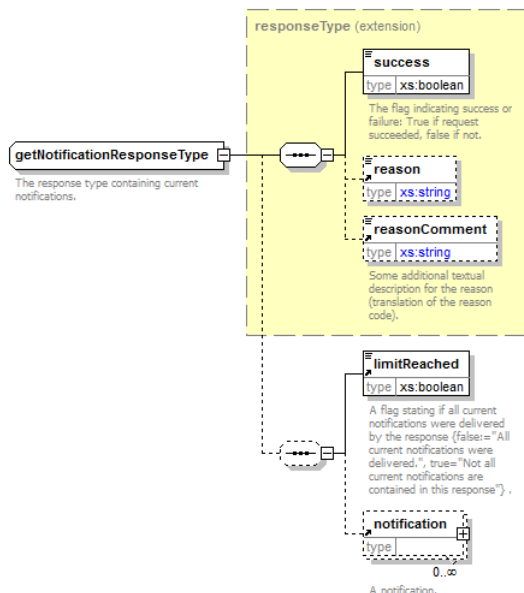
The typical usage is to periodically poll for all new notifications for a specific ISP/PTS. This can be achieved by calling the getNotification() operation with the "ispld" of the ISP/PTS and the "notificationIdFrom" set to the

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 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>
    <v20:getNotification xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:request>
        <v20:ispId>777710</v20:ispId>
        <v20:object>3</v20:object>
        <v20:notificationIdFrom>82178505</v20:notificationIdFrom>
      </v20:request>
    </v20:getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

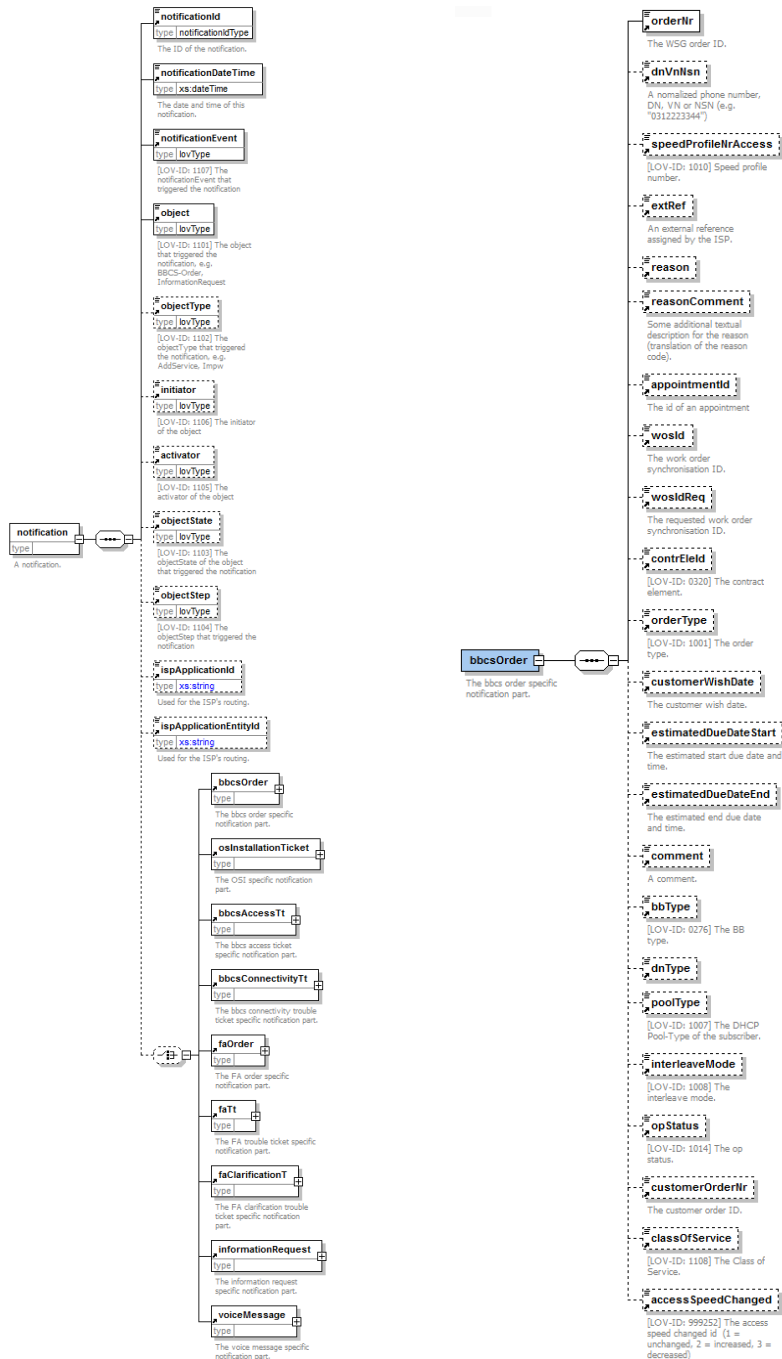
2.2.2 Response



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 “BBCS Access” 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>
    <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>47408113</v20:notificationId>
  <v20:notificationDateTime>2012-08-06T12:11:52.834+02:00</v20:notificationDateTime>
  <v20:notificationEvent>2</v20:notificationEvent>
  <v20:object>1</v20:object>
  <v20:objectType>1</v20:objectType>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>2</v20:objectState>
  <v20:bbcsOrder>
    <v20:orderNr>10000820120412028889000000</v20:orderNr>
    <v20:dnVnNsn>0819336410</v20:dnVnNsn>
    <v20:contrEleId>110</v20:contrEleId>
    <v20:orderType>1</v20:orderType>
    <v20:estimatedDueDateStart>2012-12-
10T06:02:00.000+01:00</v20:estimatedDueDateStart>
    <v20:estimatedDueDateEnd>2012-12-
10T12:00:00.000+01:00</v20:estimatedDueDateEnd>
    <v20:bbType>1</v20:bbType>
    <v20:customerOrderNr>10000820120412028889000000</v20:customerOrderNr>
    <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
  </v20:bbcsOrder>
</v20:notification>
</v20:response>
</v20:getNotificationResponse>
</soapenv:Body>
</soapenv:Envelope>

```

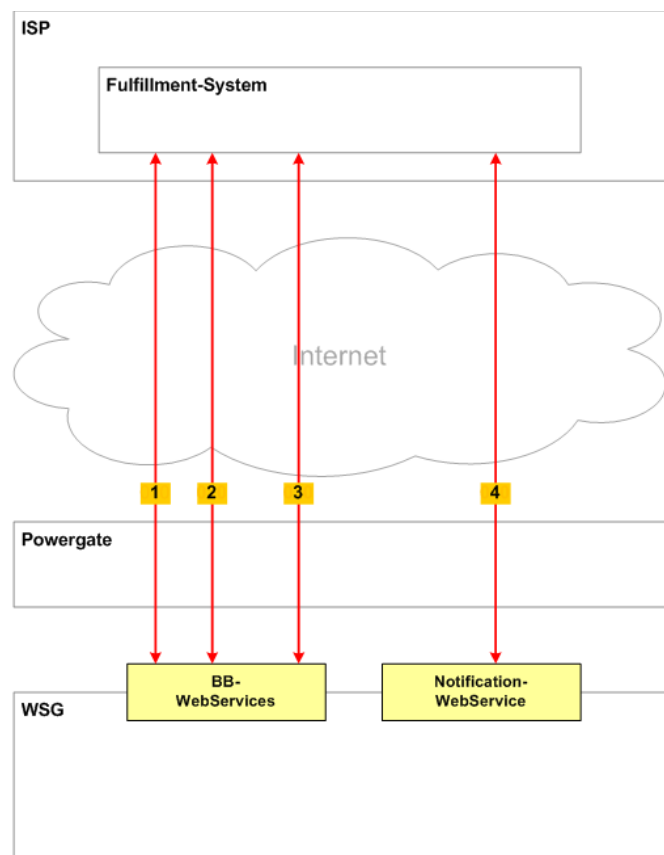
3 Fulfillment (BBCS Order)

For a detailed interface definition see [3].

3.1 Process Overview

The following picture shows the interactions between the ISP's fulfilment system and WSG:

- 1 Service Qualification**
ISP: Checks if a certain product is available at a certain location.
WSG: The response shows which products can be ordered at a certain location.
- 2 Order Creation**
ISP: An order with the qualified products is sent to WSG.
WSG: WSG confirms the receipt of the order.
- 3 Order Status**
ISP: The ISP can request information about the order status at any time.
WSG: WSG returns the details of the order.
- 4 Notifications**
ISP: The ISP 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.



3.2 Qualification

The qualification delivers the capabilities (e.g. available speeds) of a location and should be used to determine if a certain service can be ordered at that location. The following example shows a qualification for an existing voice subscriber.

3.2.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
  <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>
    <v39:srvQualifByNumber>
      <v39:request correlationId="RegrTest T123 WS qualifByNr">
        <v39:ispId>777710</v39:ispId>
        <v39:basisContrEleId>120</v39:basisContrEleId>
        <v39:contrEleId>100</v39:contrEleId>
        <v39:bbType>2</v39:bbType>
        <v39:qualifExtRef>Regression WS qualifByNr</v39:qualifExtRef>
        <v39:customerWishDate>2018-05-03+02:00</v39:customerWishDate>
        <v39:synchWithVoice>false</v39:synchWithVoice>
        <v39:sfSlaId>1</v39:sfSlaId>
        <v39:dnVnNsn>0719875579</v39:dnVnNsn>
      </v39:request>
    </v39:srvQualifByNumber>
  </soapenv:Body>
</soapenv:Envelope>
```

3.2.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v39:srvQualifByNumberResponse xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
      <v39:response correlationId="RegrTest T123 WS qualifByNr">
        <v39:success>true</v39:success>
        <v39:operationLogId>432688374</v39:operationLogId>
        <v39:dnStnr>0719875579</v39:dnStnr>
        <v39:qualificationResult>
          <v39:contrEleId>120</v39:contrEleId>
          <v39:contrEleId>100</v39:contrEleId>
          <v39:bbType>2</v39:bbType>
          <v39:dnType>13</v39:dnType>
          <v39:qualifNr>147110110</v39:qualifNr>
          <v39:lineState>1</v39:lineState>
          <v39:qualifAnswer>
            <v39:qualiResultState>ok</v39:qualiResultState>
            <v39:qualiResultDetail>
              <v39:resultCode>Q00</v39:resultCode>
              <v39:resultComment>This telephone line is suitable for
xDSL.</v39:resultComment>
            </v39:qualiResultDetail>
          </v39:qualiResultDetail>
          <v39:endPoint>
            <v39:taxRegion>64</v39:taxRegion>
          </v39:endPoint>
        </v39:qualificationResult>
      </v39:response>
    </v39:srvQualifByNumberResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<v39:accessNet>BRE</v39:accessNet>
<v39:site>BRES</v39:site>
<v39:siteCategory>6</v39:siteCategory>
<v39:bbDeviceLocation>BRE</v39:bbDeviceLocation>
<v39:availableTechnologyType>
  <v39:technologyType>2</v39:technologyType>
  <v39:technologyType>1</v39:technologyType>
</v39:availableTechnologyType>
<v39:bbPortInfo>
  <v39:bbPortLineType>1</v39:bbPortLineType>
  <v39:vendor>Huawei</v39:vendor>
</v39:bbPortInfo>
</v39:endPoint>
<v39:cpeInfo>
  <v39:cpeName>Motorola 7347-44 POTS rel.7.9</v39:cpeName>
  <v39:dslamTypeAllowed>
    <v39:technology>1</v39:technology>
    <v39:dslamType>1</v39:dslamType>
  </v39:dslamTypeAllowed>
  <v39:dslamTypeAllowed>
    <v39:technology>2</v39:technology>
    <v39:dslamType>2</v39:dslamType>
    <v39:dslamType>3</v39:dslamType>
  </v39:dslamTypeAllowed>
  <v39:comment>Das ist ein Kommentar für CPE Info</v39:comment>
</v39:cpeInfo>
<v39:maxAccessSpeed>
  <v39:speedProfileNr>59</v39:speedProfileNr>
  <v39:description>50000/10000</v39:description>
  <v39:max>
    <v39:up>10000</v39:up>
    <v39:down>50000</v39:down>
  </v39:max>
  <v39:min>
    <v39:up>10000</v39:up>
    <v39:down>50000</v39:down>
  </v39:min>
  <v39:technologyType>1</v39:technologyType>
</v39:maxAccessSpeed>
<v39:averageFlag>1</v39:averageFlag>
<v39:nrOfWires>2</v39:nrOfWires>
<v39:fulfillmentTimeSlot>
  <v39:fulfillmentTimeSlotQualifIndex>1</v39:fulfillmentTimeSlotQualifIndex>
  <v39:fulfillmentTimeSlotStart>2018-05-
03T06:00:00.000+02:00</v39:fulfillmentTimeSlotStart>
  <v39:fulfillmentTimeSlotEnd>2018-05-
03T17:00:00.000+02:00</v39:fulfillmentTimeSlotEnd>
</v39:fulfillmentTimeSlot>
<v39:fulfillmentTimeSlot>
  <v39:fulfillmentTimeSlotQualifIndex>2</v39:fulfillmentTimeSlotQualifIndex>
  <v39:fulfillmentTimeSlotStart>2018-05-
04T06:00:00.000+02:00</v39:fulfillmentTimeSlotStart>
  <v39:fulfillmentTimeSlotEnd>2018-05-
04T17:00:00.000+02:00</v39:fulfillmentTimeSlotEnd>
</v39:fulfillmentTimeSlot>
<v39:fulfillmentTimeSlot>
  <v39:fulfillmentTimeSlotQualifIndex>3</v39:fulfillmentTimeSlotQualifIndex>
  <v39:fulfillmentTimeSlotStart>2018-05-
05T06:00:00.000+02:00</v39:fulfillmentTimeSlotStart>
  <v39:fulfillmentTimeSlotEnd>2018-05-
05T17:00:00.000+02:00</v39:fulfillmentTimeSlotEnd>
</v39:fulfillmentTimeSlot>
<v39:fulfillmentTimeSlot>
  <v39:fulfillmentTimeSlotQualifIndex>4</v39:fulfillmentTimeSlotQualifIndex>

```

```

        <v39:fulfillmentTimeSlotStart>2018-05-
06T06:00:00.000+02:00</v39:fulfillmentTimeSlotStart>
        <v39:fulfillmentTimeSlotEnd>2018-05-
06T17:00:00.000+02:00</v39:fulfillmentTimeSlotEnd>
    </v39:fulfillmentTimeSlot>
    <v39:fulfillmentTimeSlot>
        <v39:fulfillmentTimeSlotQualifIndex>5</v39:fulfillmentTimeSlotQualifIndex>
        <v39:fulfillmentTimeSlotStart>2018-05-
07T06:00:00.000+02:00</v39:fulfillmentTimeSlotStart>
        <v39:fulfillmentTimeSlotEnd>2018-05-
07T17:00:00.000+02:00</v39:fulfillmentTimeSlotEnd>
    </v39:fulfillmentTimeSlot>
    <v39:startPoint>
        <v39:taxRegion>64</v39:taxRegion>
        <v39:accessNet>BRE</v39:accessNet>
        <v39:unitType>3</v39:unitType>
        <v39:unitNumber>10000</v39:unitNumber>
        <v39:sse>1</v39:sse>
        <v39:contactType>1</v39:contactType>
        <v39:contactNr>62</v39:contactNr>
    </v39:startPoint>
    <v39:address>
        <v39:street>Schönstrasse</v39:street>
        <v39:houseNr>1a</v39:houseNr>
        <v39:building>Chalet</v39:building>
        <v39:zip>307400</v39:zip>
        <v39:city>Kemmeribodenbad</v39:city>
    </v39:address>
    <v39:resourceAvailability>
        <v39:available>true</v39:available>
        <v39:resourceType>1</v39:resourceType>
    </v39:resourceAvailability>
    <v39:resourceAvailability>
        <v39:available>false</v39:available>
        <v39:resourceType>2</v39:resourceType>
        <v39:upgradePlanDateTime>2015-11-
11T00:00:00.000+01:00</v39:upgradePlanDateTime>
    </v39:resourceAvailability>
    <v39:resourceAvailability>
        <v39:available>false</v39:available>
        <v39:resourceType>3</v39:resourceType>
        <v39:upgradePlanDateTime>2015-12-
11T00:00:00.000+01:00</v39:upgradePlanDateTime>
    </v39:resourceAvailability>
    <v39:qualifProfile>
        <v39:qualifIndex>21</v39:qualifIndex>
        <v39:nrOfWires>2</v39:nrOfWires>
        <v39:usedAccessSpeed>
            <v39:speedProfileNr>167</v39:speedProfileNr>
            <v39:description>5000-30000/500-10000</v39:description>
            <v39:max>
                <v39:up>10000</v39:up>
                <v39:down>30000</v39:down>
            </v39:max>
            <v39:min>
                <v39:up>500</v39:up>
                <v39:down>5000</v39:down>
            </v39:min>
        </v39:usedAccessSpeed>
        <v39:serviceSpeed>
            <v39:speedProfileNr>240</v39:speedProfileNr>
            <v39:description>max2000/200</v39:description>
        </v39:serviceSpeed>
        <v39:effectiveSpeed>
            <v39:up>200</v39:up>

```




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```

</v39:usedAccessSpeed>
<v39:serviceSpeed>
  <v39:speedProfileNr>253</v39:speedProfileNr>
  <v39:description>max5000/1000</v39:description>
</v39:serviceSpeed>
<v39:effectiveSpeed>
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  <v39:down>5000</v39:down>
</v39:effectiveSpeed>
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  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>255</v39:speedProfileNr>
    <v39:description>max8000/800</v39:description>
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  <v39:effectiveSpeed>
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    <v39:down>8000</v39:down>
  </v39:effectiveSpeed>
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<v39:qualifProfile>
  <v39:qualifIndex>26</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>256</v39:speedProfileNr>
    <v39:description>max8000/1600</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>1600</v39:up>
    <v39:down>8000</v39:down>
  </v39:effectiveSpeed>
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<v39:qualifProfile>
  <v39:qualifIndex>27</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>

```

```

        <v39:up>10000</v39:up>
        <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
        <v39:up>500</v39:up>
        <v39:down>5000</v39:down>
    </v39:min>
</v39:usedAccessSpeed>
<v39:serviceSpeed>
    <v39:speedProfileNr>209</v39:speedProfileNr>
    <v39:description>max10000/1000</v39:description>
</v39:serviceSpeed>
<v39:effectiveSpeed>
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    <v39:down>10000</v39:down>
</v39:effectiveSpeed>
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<v39:qualifProfile>
    <v39:qualifIndex>28</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
        <v39:up>10000</v39:up>
        <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
        <v39:up>500</v39:up>
        <v39:down>5000</v39:down>
    </v39:min>
</v39:usedAccessSpeed>
<v39:serviceSpeed>
    <v39:speedProfileNr>258</v39:speedProfileNr>
    <v39:description>max10000/2000</v39:description>
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<v39:effectiveSpeed>
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    <v39:down>10000</v39:down>
</v39:effectiveSpeed>
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    <v39:qualifIndex>29</v39:qualifIndex>
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    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
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        <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
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        <v39:down>5000</v39:down>
    </v39:min>
</v39:usedAccessSpeed>
<v39:serviceSpeed>
    <v39:speedProfileNr>207</v39:speedProfileNr>
    <v39:description>max15000/1500</v39:description>
</v39:serviceSpeed>
<v39:effectiveSpeed>
    <v39:up>1500</v39:up>
    <v39:down>15000</v39:down>
</v39:effectiveSpeed>
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  <v39:qualifIndex>30</v39:qualifIndex>
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  <v39:usedAccessSpeed>
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    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
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    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>261</v39:speedProfileNr>
    <v39:description>max15000/3000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>3000</v39:up>
    <v39:down>15000</v39:down>
  </v39:effectiveSpeed>
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<v39:qualifProfile>
  <v39:qualifIndex>31</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>230</v39:speedProfileNr>
    <v39:description>max20000/2000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>2000</v39:up>
    <v39:down>20000</v39:down>
  </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
  <v39:qualifIndex>32</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
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```

```

        <v39:description>max20000/4000</v39:description>
    </v39:serviceSpeed>
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    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>33</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>
        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>265</v39:speedProfileNr>
        <v39:description>max25000/2500</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
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        <v39:down>25000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>34</v39:qualifIndex>
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    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
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        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>266</v39:speedProfileNr>
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    </v39:serviceSpeed>
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        <v39:down>25000</v39:down>
    </v39:effectiveSpeed>
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<v39:qualifProfile>
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        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>
        </v39:max>

```

```

        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>237</v39:speedProfileNr>
        <v39:description>max30000/3000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>3000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>36</v39:qualifIndex>
    <v39:nrOfWires>2</v39:nrOfWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
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            <v39:down>30000</v39:down>
        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>267</v39:speedProfileNr>
        <v39:description>max30000/6000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>6000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>37</v39:qualifIndex>
    <v39:nrOfWires>2</v39:nrOfWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>
        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>260</v39:speedProfileNr>
        <v39:description>max40000/4000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>4000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>38</v39:qualifIndex>
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```

```

<v39:usedAccessSpeed>
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  <v39:description>5000-30000/500-10000</v39:description>
  <v39:max>
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    <v39:down>30000</v39:down>
  </v39:max>
  <v39:min>
    <v39:up>500</v39:up>
    <v39:down>5000</v39:down>
  </v39:min>
</v39:usedAccessSpeed>
<v39:serviceSpeed>
  <v39:speedProfileNr>272</v39:speedProfileNr>
  <v39:description>max40000/8000</v39:description>
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<v39:effectiveSpeed>
  <v39:up>8000</v39:up>
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<v39:qualifProfile>
  <v39:qualifIndex>39</v39:qualifIndex>
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  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>242</v39:speedProfileNr>
    <v39:description>max50000/5000</v39:description>
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  <v39:effectiveSpeed>
    <v39:up>5000</v39:up>
    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
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  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>246</v39:speedProfileNr>
    <v39:description>max50000/10000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>

```

```
<v39:up>10000</v39:up>
<v39:down>30000</v39:down>
</v39:effectiveSpeed>
</v39:qualifProfile>
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  <v39:qualifIndex>41</v39:qualifIndex>
  <v39:nrOfWires>2</v39:nrOfWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
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    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>270</v39:speedProfileNr>
    <v39:description>max60000/6000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>6000</v39:up>
    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
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  <v39:qualifIndex>42</v39:qualifIndex>
  <v39:nrOfWires>2</v39:nrOfWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
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    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
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  </v39:serviceSpeed>
  <v39:effectiveSpeed>
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    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
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  <v39:qualifIndex>43</v39:qualifIndex>
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  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
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      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
```



```

        </v39:min>
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    <v39:serviceSpeed>
        <v39:speedProfileNr>271</v39:speedProfileNr>
        <v39:description>max80000/8000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
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        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>44</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>
        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>274</v39:speedProfileNr>
        <v39:description>max80000/16000</v39:description>
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    <v39:effectiveSpeed>
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        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
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    <v39:qualifIndex>45</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
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        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
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        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>244</v39:speedProfileNr>
        <v39:description>max100000/10000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
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        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
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    <v39:usedAccessSpeed>
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        <v39:description>5000-30000/500-10000</v39:description>

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```

    <v39:max>
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      <v39:down>30000</v39:down>
    </v39:max>
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      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>247</v39:speedProfileNr>
    <v39:description>max100000/20000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
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    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
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<v39:qualifProfile>
  <v39:qualifIndex>47</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>278</v39:speedProfileNr>
    <v39:description>max200000/20000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>10000</v39:up>
    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
  <v39:qualifIndex>48</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>276</v39:speedProfileNr>
    <v39:description>max200000/40000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>10000</v39:up>
    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>

```

```

</v39:qualifProfile>
<v39:qualifProfile>
  <v39:qualifIndex>49</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>279</v39:speedProfileNr>
    <v39:description>max250000/25000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>10000</v39:up>
    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
  <v39:qualifIndex>50</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>
    <v39:speedProfileNr>280</v39:speedProfileNr>
    <v39:description>max250000/50000</v39:description>
  </v39:serviceSpeed>
  <v39:effectiveSpeed>
    <v39:up>10000</v39:up>
    <v39:down>30000</v39:down>
  </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
  <v39:qualifIndex>51</v39:qualifIndex>
  <v39:nrofWires>2</v39:nrofWires>
  <v39:usedAccessSpeed>
    <v39:speedProfileNr>167</v39:speedProfileNr>
    <v39:description>5000-30000/500-10000</v39:description>
    <v39:max>
      <v39:up>10000</v39:up>
      <v39:down>30000</v39:down>
    </v39:max>
    <v39:min>
      <v39:up>500</v39:up>
      <v39:down>5000</v39:down>
    </v39:min>
  </v39:usedAccessSpeed>
  <v39:serviceSpeed>

```

```

        <v39:speedProfileNr>281</v39:speedProfileNr>
        <v39:description>max300000/30000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>10000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>52</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>
        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>282</v39:speedProfileNr>
        <v39:description>max300000/60000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>10000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>53</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>
        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>283</v39:speedProfileNr>
        <v39:description>max500000/50000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>10000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:qualifProfile>
    <v39:qualifIndex>54</v39:qualifIndex>
    <v39:nrofWires>2</v39:nrofWires>
    <v39:usedAccessSpeed>
        <v39:speedProfileNr>167</v39:speedProfileNr>
        <v39:description>5000-30000/500-10000</v39:description>
        <v39:max>
            <v39:up>10000</v39:up>
            <v39:down>30000</v39:down>

```

```

        </v39:max>
        <v39:min>
            <v39:up>500</v39:up>
            <v39:down>5000</v39:down>
        </v39:min>
    </v39:usedAccessSpeed>
    <v39:serviceSpeed>
        <v39:speedProfileNr>277</v39:speedProfileNr>
        <v39:description>max500000/100000</v39:description>
    </v39:serviceSpeed>
    <v39:effectiveSpeed>
        <v39:up>10000</v39:up>
        <v39:down>30000</v39:down>
    </v39:effectiveSpeed>
</v39:qualifProfile>
<v39:currentDnType>13</v39:currentDnType>
<v39:currentAccessSpeed>
    <v39:speedProfileNr>26</v39:speedProfileNr>
    <v39:description>5000/500</v39:description>
    <v39:max>
        <v39:up>500</v39:up>
        <v39:down>5000</v39:down>
    </v39:max>
    <v39:min>
        <v39:up>500</v39:up>
        <v39:down>5000</v39:down>
    </v39:min>
</v39:currentAccessSpeed>
<v39:llId>0030719875579</v39:llId>
<v39:jumperAction>true</v39:jumperAction>
<v39:bbrRecommendation>9</v39:bbrRecommendation>
<v39:potentialAvailable>1</v39:potentialAvailable>
<v39:reasonOfPotential>
    <v39:potential>
        <v39:potentialCode>1000</v39:potentialCode>
        <v39:potentialDescription>outstanding
upgrooming</v39:potentialDescription>
    </v39:potential>
    <v39:potential>
        <v39:potentialCode>1002</v39:potentialCode>
        <v39:potentialDescription>old CPE Hardware</v39:potentialDescription>
    </v39:potential>
</v39:reasonOfPotential>
<v39:technologyType>2</v39:technologyType>
<v39:lineState>1</v39:lineState>
<v39:siteDevelopment>
    <v39:fullyDeveloped>false</v39:fullyDeveloped>
    <v39:nrOfLinesTotal>22</v39:nrOfLinesTotal>
    <v39:nrOfLinesUsable>13</v39:nrOfLinesUsable>
</v39:siteDevelopment>
<v39:swisscomReady>false</v39:swisscomReady>
<v39:psdClass>10</v39:psdClass>
</v39:qualifAnswer>
</v39:qualificationResult>
</v39:response>
</v39:srvQualifByNumberResponse>
</soapenv:Body>
</soapenv:Envelope>

```

3.3 Customer order creation

3.3.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <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>
    <v39:createCustomerOrder>
      <v39:request correlationId="Regression WS Standalone">
        <v39:ispId>777710</v39:ispId>
        <v39:qualification>
          <v39:qualifNr>147110110</v39:qualifNr>
          <v39:qualifIndex>21</v39:qualifIndex>
          <v39:fulfillmentTimeSlotQualifIndex>1</v39:fulfillmentTimeSlotQualifIndex>
        </v39:qualification>
        <v39:creationType>1</v39:creationType>
        <v39:dnVnNsn>0719875579</v39:dnVnNsn>
        <v39:order xsi:type="v39:createType" correlationId="1">
          <v39:contrEleId>120</v39:contrEleId>
          <v39:extRef>Regression WS</v39:extRef>
          <v39:layer2>
            <v39:bbType>2</v39:bbType>
            <v39:sessionType>2</v39:sessionType>
          </v39:layer2>
          <v39:processWithLowPriority>false</v39:processWithLowPriority>
        </v39:order>
        <v39:order xsi:type="v39:addType" correlationId="2">
          <v39:contrEleId>100</v39:contrEleId>
          <v39:extRef>Regression SrvAdd Internet</v39:extRef>
          <v39:speedProfileNrReq>240</v39:speedProfileNrReq>
          <v39:processWithLowPriority>false</v39:processWithLowPriority>
        </v39:order>
      </v39:request>
    </v39:createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

3.3.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v39:createCustomerOrderResponse xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
      <v39:response correlationId="Regression WS Standalone">
        <v39:success>true</v39:success>
        <v39:operationLogId>432688377</v39:operationLogId>
        <v39:customerOrderNr>77771020180502000002000000</v39:customerOrderNr>
        <v39:nsn>0108378422</v39:nsn>
        <v39:orderItem correlationId="1">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000001000000</v39:orderNr>
        </v39:orderItem>
        <v39:orderItem correlationId="2">
          <v39:success>true</v39:success>
        </v39:orderItem>
      </v39:response>
    </v39:createCustomerOrderResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        <v39:orderNr>77771020180502000003000000</v39:orderNr>
      </v39:orderItem>
    </v39:response>
  </v39:createCustomerOrderResponse>
</soapenv:Body>
</soapenv:Envelope>

```

3.3.3 GUI

The orders created are visible in the BBCS Access Service GUI:

77771020170522000034000000	SRV_ADD	COMPLETED	0108728519	22/05/2017	22/05/2017	22/05/2017 11:00	22/05/2017 13:00	22/05/2017 10:53:56.311	Best Effort	VDSL	Netservices number
77771020170522000032000000	BBCS_CREATE	COMPLETED	0108728519	22/05/2017	22/05/2017	22/05/2017 11:00	22/05/2017 13:00	22/05/2017 10:43:51.906	BBCS_Standalone	VDSL	Netservices number

The following Screenshots show the Service Status of the subscriber after both orders are completed:

Detail Order																																										
Main Services CPE Info																																										
Order Info Order Type: BBCS_GETSTATUS Order State: COMPLETED Creation Type: New Response: - SI Exempt Prio: - Delivery Notification: -			DN Info DN / VN / NSN (Requested): 0719875577 DN (STNR) / VN / NSN: 0719875577 STNR DDI: - Dn Type: Economy Line			Current Endpoint DN Office: 64BRE BB Device Location: BRE Site: BRE Site Category: RUS Available Technology Type: VDSL Vectoring DSLAM Name: ipohuq4e5-s-vd-01 DSLAM Type: CAN Technology Type: VDSL Vectoring Vectorized: Yes																																				
ISP / Order Nr Info ISP: 777710 Testaccount WSG Team Customer Order Nr: 77771020180502000018020000 Order Nr: 77771020180502000018000000 Order Group Nr: -			Date Info Customer Wish Date: 02/05/2018 Estimated Due Date/Time Start: 02/05/2018 00:00 Estimated Due Date/Time End: 02/05/2018 00:00 Termination Date: -																																							
WOS ID WOS ID (Requested): - WOS ID: -			Qualification Info Qualification Nr: - Qualification Index: - Fulfillment Time Slot Index: -																																							
References External Reference: Regression WS Internal Reference: -																																										
Layer 1 / Basis Contr Element: BBCS_on_TOM Level Of Supp: Standard																																										
Layer 2 BB Type: VDSL BB ADSL Emulated: No Session Type: DHCP Termination: @FWS Interleave Mode: Interleave Medium Pool Type: - Access Speed: 50000 down / 10000 up Access Speed Changed: - Op Status: Open Pipe Measure			Layer 2 / Cable Box UP Board Nr: 334 UP Switching Place Nr: 0 UP Type of Contact: UPK UP Contact Nr: 1 UP Coordinate X: - UP Coordinate Y: - BB Port: 04-540			Layer 2 / Address / Starting Point Region: - Billing Zone: - Street, Nr, Building: - ZIP, City: - Starting Point: 64-BRE.3.334.0 Contact Type: 1 Contact Number: 1 BB Number Of Wires: 2 Reason of Potential: -																																				
Further Details Appointment Id: - Calculated max. Bitrate: - Measured max. Bitrate: - Appointment Date/Time: - Onsite Support: - Self Install: - Modem Owner: Unknown BB Access: -																																										
Comment Last Comment:																																										
History <table border="1"> <thead> <tr> <th>User name</th> <th>Order State</th> <th>DN (STNR) / VN / NSN</th> <th>Response</th> <th>Transaction Date/Time</th> <th>BB Type</th> <th>Speed Profile Nr</th> <th>Comment</th> <th>Customer Wish Date</th> <th>Estimated Due Date/Time Start</th> <th>Estimated Due Date/Time End</th> </tr> </thead> <tbody> <tr> <td>Pol</td> <td>COMPLETED</td> <td>0719875577</td> <td></td> <td>02/05/2018 10:30:05.500</td> <td>VDSL</td> <td></td> <td></td> <td>02/05/2018</td> <td>02/05/2018 00:00</td> <td>02/05/2018 00:00</td> </tr> <tr> <td>ISP User</td> <td>ENTERED</td> <td>0719875577</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										User name	Order State	DN (STNR) / VN / NSN	Response	Transaction Date/Time	BB Type	Speed Profile Nr	Comment	Customer Wish Date	Estimated Due Date/Time Start	Estimated Due Date/Time End	Pol	COMPLETED	0719875577		02/05/2018 10:30:05.500	VDSL			02/05/2018	02/05/2018 00:00	02/05/2018 00:00	ISP User	ENTERED	0719875577								
User name	Order State	DN (STNR) / VN / NSN	Response	Transaction Date/Time	BB Type	Speed Profile Nr	Comment	Customer Wish Date	Estimated Due Date/Time Start	Estimated Due Date/Time End																																
Pol	COMPLETED	0719875577		02/05/2018 10:30:05.500	VDSL			02/05/2018	02/05/2018 00:00	02/05/2018 00:00																																
ISP User	ENTERED	0719875577																																								

3.3.4 Notifications

During the whole processing, the orders can be tracked by retrieving notifications from the Notification Service.

See Appendix A: Notifications created for which shows all notifications produced during the processing of the orders above.

3.4 Modification of Base Product (Access) and Addition of Streaming Service

Existing subscriptions can be modified to satisfy the new needs of a customer. In this example the Streaming service (TV) is added to an existing subscription. Note that this addition makes it necessary to modify the Base Product's session type to "DHCP" and the BB type to "VDSL". Please note you need to perform a qualification beforehand to create a modification.

3.4.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <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>
    <v39:createCustomerOrder>
      <v39:request correlationId="Regression WS change Type">
        <v39:ispId>777710</v39:ispId>
        <v39:creationType>1</v39:creationType>
        <v39:dnVnNsn>0719875579</v39:dnVnNsn>
        <v39:order xsi:type="v39:modifyType" correlationId="1">
          <v39:extRef>extRef RegressionWs modify Type</v39:extRef>
          <v39:layer2>
            <v39:bbType>2</v39:bbType>
            <v39:sessionType>2</v39:sessionType>
          </v39:layer2>
          <v39:processWithLowPriority>false</v39:processWithLowPriority>
        </v39:order>
        <v39:order xsi:type="v39:addType" correlationId="2">
          <v39:contrEleId>9</v39:contrEleId>
          <v39:extRef>extRef RegressionSrvTst</v39:extRef>
          <v39:speedProfileNrReq>0</v39:speedProfileNrReq>
          <v39:processWithLowPriority>false</v39:processWithLowPriority>
        </v39:order>
      </v39:request>
    </v39:createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

3.4.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v39:createCustomerOrderResponse xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
      <v39:response correlationId="Regression WS change Type">
        <v39:success>true</v39:success>
        <v39:operationLogId>432688391</v39:operationLogId>
        <v39:customerOrderNr>7777102018050200009000000</v39:customerOrderNr>
        <v39:orderItem correlationId="1">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000008000000</v39:orderNr>
        </v39:orderItem>
        <v39:orderItem correlationId="2">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000010000000</v39:orderNr>
        </v39:orderItem>
      </v39:response>
    </v39:createCustomerOrderResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

3.4.3 GUI

The following Screenshots show the Service Status of a subscriber after both orders are completed:

Order Info Order Type BB_CTS_GETSTATUS Order State COMPLETED Creation Type New Response - SI Elvopt Prio - Delivery Notification -			DN Info DN / VN / NSN (Requested) 0108410750 DN (STNR) / VN / NSN 0108410750 STNR DDI - Dn Type Netservices number			Current Endpoint DN Office 64BOL BB Device Location BOL Site BOL Site Category RUG Available Technology Type VDSL2_VDSL_Vectoring DSLAM Name IPC-SUR710-S-DM-04 DSLAM Type CAN Technology Type VDSL2 Vectorized No				
ISP / Order Nr Info ISP 999999 OM Customer Order Nr 99999920170210000047000000 Order Nr 99999920170210000047000000 Order Group Nr -			Date Info Customer Wish Date 10/02/2017 Estimated Due Date/Time Start 10/02/2017 00:00 Estimated Due Date/Time End 10/02/2017 00:00 Termination Date -							
WOS ID WOS ID (Requested) - WOS ID -			Qualification Info Qualification Nr - Qualification Index - Fulfillment Time Slot Index -							
References External Reference - Internal Reference -										
Layer 1 / Basis Contr Element BB_CTS_StandaloneLevel Of SuppStandard										
Layer 2 (NPA/TIBCO) BB Type VDSL BB ADSL Emulated No Session Type DHCP Termination @FWS Interleave Mode Interleave Low Pool Type pool1 Access Speed 50000 down / 10000 up Access Speed Changed - Op Status Open Pipe Manual			Layer 2 (APV) / Cable Box UP Board Nr 334 UP Switching Place Nr 0 UP Type of Contact UPK UP Contact Nr 1 UP Coordinate X 200100 UP Coordinate Y 600100 Jumper Action - BB Port 04-640			Layer 2 (LQS) / Address / Starting Point Region - Billing Zone - Street Nr. Building - ZIP, City - Gaia Id 1238442 Starting Point 64-BOL-3.334-0 Contact Type 1 Contact Number 1 BB Number Of Wires 2 Reason of Potential 1000 - Pending upgrooming				
Further Details Appointment Id - Calculated max. Btrate - Measured max. Btrate -			Appointment Date/Time - Onsite Support - Self Install -			Modem Owner Unknown BB Access -				
Comment Last Comment ISP 777710 - Testaccount WSG Team										
History										
User name	Order State	DN (STNR) / VN / NSN	Response	Transaction Date/Time	BB Type	Speed Profile Nr	Comment	Customer Wish Date	Estimated Due Date/Time Start	Estimated Due Date/Time End
Detail Pal	COMPLETED	0108410750		10/02/2017 11:33:12.000	VDSL		ISP 777710 - Testaccount WSG Team	10/02/2017	10/02/2017 00:00	10/02/2017 00:00
Detail Swisscom SPOC	ENTERED	0108410750		10/02/2017 11:33:11.999				10/02/2017	10/02/2017 00:00	10/02/2017 00:00

3.4.4 Order Details

If, at any stage of the processing, the data retrieved via the Notification Service is not sufficient, then all of the order data can be retrieved by using the “getOrderDetail” operation of the Web service.

3.4.5 Notifications

During the whole processing, the orders can be tracked by retrieving notifications from the Notification Service.

See Appendix A: Notifications created for which shows all notifications produced during the processing of the orders above .

3.5 Change of Best Effort Service (Speed) and Reduction of Streaming Service

It is also possible to only change services and leave the Base Product as it is. The following example changes the speed of the Internet and removes the Streaming Service.

3.5.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <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>
    <v39:createCustomerOrder>
      <v39:request correlationId="Regression WS change Type">
        <v39:ispId>777710</v39:ispId>
        <v39:creationType>1</v39:creationType>
        <v39:dnVnNsn>0719875579</v39:dnVnNsn>
        <v39:order xsi:type="v39:changeType" correlationId="1">
          <v39:contrEleId>100</v39:contrEleId>
          <v39:extRef>extRef RegressionWs change Type</v39:extRef>
          <v39:speedProfileNrReq>209</v39:speedProfileNrReq>
        </v39:order>
        <v39:order xsi:type="v39:reduceType" correlationId="2">
          <v39:contrEleId>9</v39:contrEleId>
          <v39:extRef>extRef RegressionSrvTst</v39:extRef>
        </v39:order>
      </v39:request>
    </v39:createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

3.5.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v39:createCustomerOrderResponse xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
      <v39:response correlationId="Regression WS change Type">
        <v39:success>true</v39:success>
        <v39:operationLogId>432688406</v39:operationLogId>
        <v39:customerOrderNr>77771020180502000012000000</v39:customerOrderNr>
        <v39:orderItem correlationId="1">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000011000000</v39:orderNr>
        </v39:orderItem>
        <v39:orderItem correlationId="2">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000013000000</v39:orderNr>
        </v39:orderItem>
      </v39:response>
    </v39:createCustomerOrderResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

3.5.2.1 GUI

The following Screenshots show the Service Status of the subscriber after both orders are completed:

Detail Order			
Main Services CPE Info			
Order Info Order Type: BBCS_GETSTATUS Order State: COMPLETED Creation Type: New Response: - SF Exempt Prio: - Delivery Notification: -		DN Info DN / VN / NSN (Requested): 0710875577 DN (STNR) / VN / NSN: 0710875577 STNR DDI: - Dn Type: Economy Line Date Info Customer Wish Date: 02/05/2016 Estimated Due Date/Time Start: 02/05/2016 00:00 Estimated Due Date/Time End: 02/05/2016 00:00 Termination Date: -	
ISP / Order Nr Info ISP: 777710 Testaccount WSG Team Customer Order Nr: 77771020180502000100000000 Order Nr: 77771020180502000100000000 Order Group Nr: -		Current Endpoint DN Office: 04BRE BB Device Location: BRE Site: BRE Site Category: RUS Available Technology Type: VDSL Vectoring DSLAM Name: ipo-huq4w5-svd-01 Dslam Type: CAN Technology Type: VDSL Vectoring Vectorized: Yes	
WOS ID WOS ID (Requested): - WOS ID: -		Qualification Info Qualification Nr: - Qualification Index: - Fulfilment Time Slot Index: -	
References External Reference: extRef Regression/Wa modify Type Internal Reference: -			
Layer 1 / Basis Contr Element: BBCS_en_TDM Level Of Supp: Standard			
Layer 2 BB Type: VDSL BB ACS: Emulated Session Type: DHCP Termination: @FWS Interleave Mode: Interleave Medium Pool Type: - Access Speed: 50000 down / 10000 up Access Speed Changed: - Op Status: Open Pipe Measure		Layer 2 / Cable Box UP Board Nr: 334 UP Switching Piece Nr: 0 UP Type of Contact: UPK UP Contact Nr: 1 UP Coordinate X: - UP Coordinate Y: - BB Port: 04-540	
Layer 2 / Address / Starting Point Region: - Billing Zone: - Street Nr Building: - ZIP City: - Starting Point: 04.BRE.3.334.0 Contact Type: 1 Contact Number: 1 BB Number Of Wires: 2 Reason of Potential: -			
Further Details Appointment Id: - Calculated max. Btrate: - Measured max. Btrate: - Appointment Date/Time: - Onsite Support: - Self install: - Modem Owner: Unknown BB Access: -			
Comment Last Comment:			

3.5.3 Notifications

During the whole processing, the orders can be tracked by retrieving notifications from the Notification Service.

See Appendix A: Notifications created for which shows all notifications produced during the processing of the orders above.

3.6 Change of Internet Service Provider

It is possible to change the internet service provider for a subscription. The following example shows a change of the ISP from 100008 to 777710. Note: a prior qualification is needed. See 3.2.

3.6.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
  <soapenv:Header/>
  <soapenv:Body>
    <v39:createCustomerOrder>
      <v39:request correlationId="Regression WS change ISP">
        <v39:ispId>777710</v39:ispId>
        <v39:creationType>1</v39:creationType>
        <v39:qualification>
          <v39:qualifNr>147110115</v39:qualifNr>
          <v39:qualifIndex>21</v39:qualifIndex>
        </v39:qualification>
        <v39:dnVnNsn>0108261922</v39:dnVnNsn>
        <v39:order xsi:type="v39:ispChangeType" correlationId="1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
          <v39:extRef>isptest</v39:extRef>
          <v39:customerWishDate>2018-05-03+02:00</v39:customerWishDate>
          <v39:comment>WS-Tutorial</v39:comment>
          <v39:layer2>
            <v39:bbType>2</v39:bbType>
            <v39:sessionType>2</v39:sessionType>
            <v39:termination>2</v39:termination>
            <v39:poolType>pool1</v39:poolType>
          </v39:layer2>
          <v39:selfInstall>1</v39:selfInstall>
          <v39:sla>
            <v39:sfSlaId>1</v39:sfSlaId>
            <v39:saSlaId>1</v39:saSlaId>
          </v39:sla>
        </v39:order>
      </v39:request>
    </v39:createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

3.6.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
  <soapenv:Body>
    <v39:createCustomerOrderResponse xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
      <v39:response correlationId="Regression WS change ISP">
        <v39:success>true</v39:success>
        <v39:operationLogId>432688416</v39:operationLogId>
        <v39:customerOrderNr>77771020180502000017000000</v39:customerOrderNr>
        <v39:orderItem correlationId="1">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000016000000</v39:orderNr>
        </v39:orderItem>
      </v39:response>
    </v39:createCustomerOrderResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

3.6.3 Notifications

During the whole processing, the orders can be tracked by retrieving notifications from the Notification Service. See Appendix A: Notifications created for which shows all notifications produced during the processing of the orders above.

3.7 Deprovisioning (Disconnect)

If the BBCS subscription is no longer needed it can be deprovisioned as shown in the following example.

3.7.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v39="http://www.swisscom.com/wsg/bb/v39" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <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>
    <v39:createCustomerOrder>
      <v39:request correlationId="Regression WS Disconnect">
        <v39:ispId>777710</v39:ispId>
        <v39:creationType>1</v39:creationType>
        <v39:dnVnNsn>0719875579</v39:dnVnNsn>
        <v39:order xsi:type="v39:disconnectType" correlationId="1">
          <v39:extRef>Regression WS</v39:extRef>
        </v39:order>
      </v39:request>
    </v39:createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

3.7.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v39:createCustomerOrderResponse xmlns:v39="http://www.swisscom.com/wsg/bb/v39">
      <v39:response correlationId="Regression WS Disconnect">
        <v39:success>true</v39:success>
        <v39:operationLogId>432688427</v39:operationLogId>
        <v39:customerOrderNr>77771020180502000024000000</v39:customerOrderNr>
        <v39:orderItem correlationId="1">
          <v39:success>true</v39:success>
          <v39:orderNr>77771020180502000023000000</v39:orderNr>
        </v39:orderItem>
      </v39:response>
    </v39:createCustomerOrderResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

3.7.3 GUI

The following Screenshots show the Service Status of the subscriber after both orders are completed:

Service Status

ISP 777710 Testaccount WSG Team

DN / VN / NSN * (0314445566)

Service Status

Operation failed

Message No broadband access or service found

3.8 Products, Restrictions and Dependencies

"Swisscom Wholesale" offers some products (also known as "Contract Elements") which can be ordered by an ISP/PTS. The description of these products/Contract Elements is available in the appropriate marketing documentation and also contains some business restrictions.

The following chapters give you an overview of the orderable products and some restrictions/dependencies which are important in the order process.

3.8.1 List of Contract Elements (Swisscom Wholesale Products)

CE-Id	Contract Element	CE-Type	possible BB-Types	mandatory Service	Add-on Services	Fulfillment SLA	Assurance SLA
110	BBCS-on-TDM	BBCS-Basis	ADSL, VDSL	Best Effort	Streaming, RealTime	Basic	Standard
120	BBCS-Standalone	BBCS-Basis	ADSL, VDSL, SDSL	Best Effort	Streaming (not SDSL); RealTime	Basic,	Standard
100	Best Effort	BBCS-Service	ADSL, VDSL, SDSL	n/a	n/a	Basic,	Standard, Plus *
9	Streaming	BBCS-Service (Add-on)	ADSL, VDSL	n/a	n/a	Premium	Intermediate, Plus
12	Real Time	BBCS-Service (Add-on)	ADSL, VDSL, SDSL	n/a	n/a	Basic	Standard
420	BBCS-F (Fiber)	BBCS-Basis	BX	Best Effort on Fiber	n/a	Basic	Standard
101	Best Effort on Fiber	BBCS-Service	BX	n/a	Attribut "Class-of-Service"	Basic	Standard, Plus *
19	Full-Access	FA (ULL)	(1 - 9)	n/a	n/a	Basic	Standard
22	Full-Access Subloop	FA (ULL)	(1 - 9)	n/a	n/a	Basic	Standard

* For the Contract-Element "Best Effort" the Fulfillment-SLA und the Assurance-SLA depend on the chosen service speed

3.8.2 Restrictions and Dependencies

- a) The BBCS copper basis products "BBCS-on-TDM" and "BBCS-Standalone" must always be provisioned with the BBCS service product "Best Effort".
- b) The BBCS base product is without any BBCS service product is known as "Bit-Stream-Access" and cannot be ordered via B2B interface.
- c) The BBCS BB-Type "SDSL" is only possible on "BBCS-Standalone" (not possible on "BBCS-on-TDM").
- d) The BBCS add-on services "Streaming (TV)" and "realtime" require a session type "DHCP" and a termination "@FWS" which must be implemented (created or modified) on the base service (If using only the "Best Effort" service, the usual session type is "PPP" and the termination is "@ISP").
- e) The BBCS fiber base product "BBCS-F" is only possible with the BB-type "BX" and the session type "DHCP" and requires the mandatory (and only possible) service "Best Effort on Fiber"; this service can be provided with "Class-of-Service" which enables the ISP/PTS to implement its own "add-on services".
- f) The ULL (unbundling local loop) products "Full-Access" and "Full-Access Subloop" are layer 1 only implementations which cannot have any services.

3.9 Get Order Detail

3.10 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v29="http://www.swisscom.com/wsg/tt/v29">
  <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>
    <v29:getDetailTroubleTicket>
      <v29:request correlationId="getDetailTroubleTicket">
        <v29:ispId>777710</v29:ispId>
        <v29:ttIdWsg>2647600</v29:ttIdWsg>
      </v29:request>
    </v29:getDetailTroubleTicket>
  </soapenv:Body>
</soapenv:Envelope>
```

3.11 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v29:getDetailTroubleTicketResponse xmlns:v29="http://www.swisscom.com/wsg/tt/v29">
      <v29:response>
        <v29:success>true</v29:success>
        <v29:ticket>
          <v29:ttState>6</v29:ttState>
          <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
          <v29:lastModifiedDateTime>2017-05-22T13:02:33.000+02:00</v29:lastModifiedDateTime>
          <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
          <v29:responseComment>IP-Access Swisscom O.K.</v29:responseComment>
          <v29:responseCommentCode>207</v29:responseCommentCode>
          <v29:problemDescription>\r\t\b \ \ \b \t \r </v29:problemDescription>
          <v29:billingAction>2</v29:billingAction>
          <v29:ttIdWsg>2647600</v29:ttIdWsg>
          <v29:ttIdSys>SIM1232647600</v29:ttIdSys>
          <v29:ispTtRef>WS TEST 13</v29:ispTtRef>
          <v29:ispId>777710</v29:ispId>
          <v29:ispName>Testaccount WSG Team</v29:ispName>
          <v29:ispPhoneNr>0584443593</v29:ispPhoneNr>
          <v29:comment>any comment</v29:comment>
          <v29:closedDateTime>2010-03-22T11:11:00.000+01:00</v29:closedDateTime>
          <v29:contrEleId>100</v29:contrEleId>
          <v29:errorCategory>541</v29:errorCategory>
          <v29:problemDateTime>2009-09-01T09:30:00.000+02:00</v29:problemDateTime>
          <v29:endUser>
            <v29:street>Schorenstrasse</v29:street>
            <v29:houseNr>68e</v29:houseNr>
            <v29:building>1a</v29:building>
            <v29:zip>3000</v29:zip>
            <v29:city>Bern</v29:city>
            <v29:endUserName>EndUserName</v29:endUserName>
            <v29:endUserLogin>REndUserLogin</v29:endUserLogin>
            <v29:endUserPhoneNr>0794140426</v29:endUserPhoneNr>
          </v29:endUser>
        </v29:ticket>
      </v29:response>
    </v29:getDetailTroubleTicketResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<v29:contactInfo>
  <v29:firstName>Hans</v29:firstName>
  <v29:lastName>Meier</v29:lastName>
  <v29:phoneNr>0313220033</v29:phoneNr>
  <v29:notificationType>Sms</v29:notificationType>
  <v29:notificationAddress>im Haus</v29:notificationAddress>
  <v29:language>de</v29:language>
</v29:contactInfo>
<v29:dnVnNsn>0108728519</v29:dnVnNsn>
<v29:dnVnNsnReq>0108728519</v29:dnVnNsnReq>
<v29:dnType>13</v29:dnType>
<v29:bbType>2</v29:bbType>
<v29:serviceSpeedProfileNr>203</v29:serviceSpeedProfileNr>
<v29:serviceSpeedProfileNrReq>203</v29:serviceSpeedProfileNrReq>
<v29:cableBox>
  <v29:boardNr>334</v29:boardNr>
  <v29:switchingPlaceNr>0</v29:switchingPlaceNr>
  <v29:contactType>1</v29:contactType>
  <v29:contactNr>1</v29:contactNr>
</v29:cableBox>
<v29:lastLoginDateTime>2009-09-01T08:30:00.000+02:00</v29:lastLoginDateTime>
<v29:ttSaSla>1</v29:ttSaSla>
<v29:wsgSaSla>1</v29:wsgSaSla>
<v29:bbcsEquipment>Equipment</v29:bbcsEquipment>
<v29:suspended>false</v29:suspended>
<v29:nrofWires>2</v29:nrofWires>
<v29:ppCount>1</v29:ppCount>
<v29:stdId>160</v29:stdId>
<v29:expense>142</v29:expense>
<v29:lineMeasurementData>
  <v29:noiseMarginUp>11.1</v29:noiseMarginUp>
  <v29:noiseMarginDown>14</v29:noiseMarginDown>
  <v29:actualBitrateUp>16504</v29:actualBitrateUp>
  <v29:actualBitrateDown>55040</v29:actualBitrateDown>
  <v29:attainableBitrateUp>23728</v29:attainableBitrateUp>
  <v29:attainableBitrateDown>16.8</v29:attainableBitrateDown>
  <v29:attenuationDown>14.8</v29:attenuationDown>
  <v29:nrSpontaneousResyncs>1</v29:nrSpontaneousResyncs>
  <v29:calculatedLineLength>862</v29:calculatedLineLength>
  <v29:correctionDbLineLength>872</v29:correctionDbLineLength>
  <v29:xdslLineState>up</v29:xdslLineState>
  <v29:lastStatusChange>1970-01-01T01:00:00.000+01:00</v29:lastStatusChange>
  <v29:icaResult>
    <v29:analysisDate>2016-03-15T14:46:15.000+01:00</v29:analysisDate>
    <v29:analysisDate26h>2016-03-10T14:46:15.000+01:00</v29:analysisDate26h>
    <v29:analysisState>6</v29:analysisState>
    <v29:analysisType>1</v29:analysisType>
    <v29:problemDetected>0</v29:problemDetected>
    <v29:potentialAttainBitrateDown>-1</v29:potentialAttainBitrateDown>
    <v29:potentialAttainBitrateUp>-1</v29:potentialAttainBitrateUp>
    <v29:potentialAccessProfileNr>0</v29:potentialAccessProfileNr>
    <v29:accessSpeedGainDown>-1</v29:accessSpeedGainDown>
    <v29:accessSpeedGainUp>-1</v29:accessSpeedGainUp>
    <v29:accessProblemType>0</v29:accessProblemType>
    <v29:bbrSocketInstalled>false</v29:bbrSocketInstalled>
    <v29:bbrSocketInstallationDate>1970-01-
01T02:00:00.000+01:00</v29:bbrSocketInstallationDate>
  <v29:icaProblems>
    <v29:description>1</v29:description>
    <v29:descriptionText>BridgeTap</v29:descriptionText>
    <v29:confidence>90</v29:confidence>
    <v29:impact>reduced.attainable.rate.us.ds.quantified 6968 1528
kb/s</v29:impact>
    <v29:impactAttainBitrateDown>0</v29:impactAttainBitrateDown>
    <v29:impactAttainBitrateUp>0</v29:impactAttainBitrateUp>

```

```

        </v29:icaProblems>
        <v29:icaProblems>
            <v29:description>2</v29:description>
            <v29:descriptionText>Degraded Contact</v29:descriptionText>
            <v29:confidence>91</v29:confidence>
            <v29:impact>reduced.attainable.rate.us.ds.quantified 6968 1528
kb/s</v29:impact>
            <v29:impactAttainBitrateDown>0</v29:impactAttainBitrateDown>
            <v29:impactAttainBitrateUp>0</v29:impactAttainBitrateUp>
        </v29:icaProblems>
    </v29:icaResult>
</v29:lineMeasurementData>
<v29:opStatus>2</v29:opStatus>
<v29:ispApplicationId>100900</v29:ispApplicationId>
<v29:bbAdslEmulated>1</v29:bbAdslEmulated>
<v29:measuredIspValues>Measurements ISP</v29:measuredIspValues>
<v29:reasonOfPotential>
    <v29:potential>
        <v29:potentialCode>1000</v29:potentialCode>
        <v29:potentialDescription>Pending upgrooming</v29:potentialDescription>
    </v29:potential>
    <v29:potential>
        <v29:potentialCode>1001</v29:potentialCode>
        <v29:potentialDescription>old CPE Firmware</v29:potentialDescription>
    </v29:potential>
    <v29:potential>
        <v29:potentialCode>-1000</v29:potentialCode>
        <v29:potentialDescription>stability issue - outstanding downgrooming
(ServiceImpact)</v29:potentialDescription>
    </v29:potential>
</v29:reasonOfPotential>
<v29:historyItem>
    <v29:ttState>6</v29:ttState>
    <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
    <v29:lastModifiedDateTime>2017-05-
22T13:02:32.000+02:00</v29:lastModifiedDateTime>
    <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
    <v29:responseComment>closed confirmed</v29:responseComment>
    <v29:problemDescription>\r\t\b  \b  \t  \r </v29:problemDescription>
    <v29:progressCommentCode>64</v29:progressCommentCode>
    <v29:progressDateTime>2010-03-22T11:11:00.000+01:00</v29:progressDateTime>
    <v29:billingAction>1</v29:billingAction>
</v29:historyItem>
<v29:historyItem>
    <v29:ttState>5</v29:ttState>
    <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
    <v29:lastModifiedDateTime>2017-05-
22T13:02:32.000+02:00</v29:lastModifiedDateTime>
    <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
    <v29:responseComment>done</v29:responseComment>
    <v29:problemDescription>\r\t\b  \b  \t  \r </v29:problemDescription>
    <v29:progressCommentCode>58</v29:progressCommentCode>
    <v29:progressDateTime>2010-03-22T11:11:00.000+01:00</v29:progressDateTime>
    <v29:billingAction>1</v29:billingAction>
</v29:historyItem>
<v29:historyItem>
    <v29:ttState>5</v29:ttState>
    <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
    <v29:lastModifiedDateTime>2017-05-
22T13:02:32.000+02:00</v29:lastModifiedDateTime>
    <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
    <v29:responseComment>dispatching</v29:responseComment>
    <v29:problemDescription>\r\t\b  \b  \t  \r </v29:problemDescription>
    <v29:progressCommentCode>60</v29:progressCommentCode>
    <v29:progressDateTime>2010-03-20T18:01:00.000+01:00</v29:progressDateTime>

```

```

        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:historyItem>
        <v29:ttState>5</v29:ttState>
        <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
        <v29:lastModifiedDateTime>2017-05-
22T13:02:31.000+02:00</v29:lastModifiedDateTime>
        <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
        <v29:responseComment>Processing by TT system</v29:responseComment>
        <v29:problemDescription>\r\t\b  \ \b  \t  \r </v29:problemDescription>
        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:historyItem>
        <v29:ttState>4</v29:ttState>
        <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
        <v29:lastModifiedDateTime>2017-05-
22T13:02:31.000+02:00</v29:lastModifiedDateTime>
        <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
        <v29:responseComment>Received by TT system</v29:responseComment>
        <v29:problemDescription>\r\t\b  \ \b  \t  \r </v29:problemDescription>
        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:historyItem>
        <v29:ttState>4</v29:ttState>
        <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
        <v29:lastModifiedDateTime>2017-05-
22T13:02:26.000+02:00</v29:lastModifiedDateTime>
        <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
        <v29:responseComment>Sent to TT system</v29:responseComment>
        <v29:problemDescription>\r\t\b  \ \b  \t  \r </v29:problemDescription>
        <v29:progressDateTime>2017-05-22T13:02:26.000+02:00</v29:progressDateTime>
        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:historyItem>
        <v29:ttState>4</v29:ttState>
        <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
        <v29:lastModifiedDateTime>2017-05-
22T13:02:20.000+02:00</v29:lastModifiedDateTime>
        <v29:lastModifiedUsername>Pol</v29:lastModifiedUsername>
        <v29:problemDescription>\r\t\b  \ \b  \t  \r </v29:problemDescription>
        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:historyItem>
        <v29:ttState>3</v29:ttState>
        <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
        <v29:lastModifiedDateTime>2017-05-
22T13:02:00.000+02:00</v29:lastModifiedDateTime>
        <v29:lastModifiedUsername>Batch</v29:lastModifiedUsername>
        <v29:problemDescription>\r\t\b  \ \b  \t  \r </v29:problemDescription>
        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:historyItem>
        <v29:ttState>1</v29:ttState>
        <v29:entryDateTime>2017-05-22T13:02:00.000+02:00</v29:entryDateTime>
        <v29:lastModifiedDateTime>2017-05-
22T13:02:00.000+02:00</v29:lastModifiedDateTime>
        <v29:lastModifiedUsername>HP Tester</v29:lastModifiedUsername>
        <v29:problemDescription>\r\t\b  \ \b  \t  \r </v29:problemDescription>
        <v29:billingAction>1</v29:billingAction>
    </v29:historyItem>
    <v29:detailedWorkReport>Arbeitsbeschrieb 2</v29:detailedWorkReport>
    <v29:endPoint>
        <v29:dnOffice>64BOL</v29:dnOffice>
        <v29:site>BOL</v29:site>
        <v29:bbDeviceLocation>BOL</v29:bbDeviceLocation>

```

```

        <v29:siteCategory>6</v29:siteCategory>
        <v29:availableTechnologyTypes>
          <v29:technologyType>1</v29:technologyType>
          <v29:technologyType>2</v29:technologyType>
        </v29:availableTechnologyTypes>
      </v29:endPoint>
    <v29:cpeInfo>
      <v29:cpeName>Motorola HGW5 7347-44-20SC WIAD "CPE5 WIAD (POTS)", FW 7.8.6r5,
IKNS r71</v29:cpeName>
      <v29:dslamTypeAllowed>
        <v29:technology>2</v29:technology>
        <v29:dslamType>2</v29:dslamType>
        <v29:dslamType>3</v29:dslamType>
      </v29:dslamTypeAllowed>
      <v29:capability>
        <v29:technologyType>1</v29:technologyType>
        <v29:capabilityOverall>7</v29:capabilityOverall>
        <v29:capabilityHardware>1</v29:capabilityHardware>
        <v29:capabilityFirmware>2</v29:capabilityFirmware>
      </v29:capability>
      <v29:capability>
        <v29:technologyType>2</v29:technologyType>
        <v29:capabilityOverall>1</v29:capabilityOverall>
        <v29:capabilityHardware>2</v29:capabilityHardware>
        <v29:capabilityFirmware>0</v29:capabilityFirmware>
      </v29:capability>
      <v29:capability>
        <v29:technologyType>3</v29:technologyType>
        <v29:capabilityOverall>2</v29:capabilityOverall>
        <v29:capabilityHardware>0</v29:capabilityHardware>
        <v29:capabilityFirmware>1</v29:capabilityFirmware>
      </v29:capability>
      <v29:comment>CPE Info Comment</v29:comment>
    </v29:cpeInfo>
    <v29:vectorized>false</v29:vectorized>
    <v29:technologyType>1</v29:technologyType>
  </v29:ticket>
</v29:response>
</v29:getDetailTroubleTicketResponse>
</soapenv:Body>
</soapenv:Envelope>

```

4 Fulfillment (ULL Orders)

For a detailed interface definition see [5].

For a process overview see chapter 3.1.

4.1 Qualification

The qualification delivers the capabilities (e.g. available speeds) of a location and should be used to determine if a certain service can be ordered at that location. The following example shows a qualification for an address without Full Access

4.1.1 Request

```

<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
  <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>hp_ws_test_777720</wsse:Username>
    <wsse:Password>Hp_wstest_09</wsse:Password>
  </wsse:UsernameToken>
</wsse:Security>
</soapenv:Header>
<soapenv:Body>
  <v15:qualifyByAddress>
    <v15:request correlationId="--- WS faQualifyByAddress">
      <v15:ptsId>777710</v15:ptsId>
      <v15:contrEleId>19</v15:contrEleId>
      <v15:poaFaId>?</v15:poaFaId>
      <v15:customerWishDateTime>2010-12-08T15:58:01+02:00</v15:customerWishDateTime>
      <v15:extRef>Regr Test FA QualifByAddr</v15:extRef>
      <v15:faTechnology>1</v15:faTechnology>
      <v15:faTechnology>2</v15:faTechnology>
      <v15:faBusinessCase>1</v15:faBusinessCase>
      <v15:lineState>1</v15:lineState>
      <v15:address>
        <v15:street>Street</v15:street>
        <v15:houseNr>12</v15:houseNr>
        <v15:building>Building</v15:building>
        <v15:zip>4004</v15:zip>
        <v15:city>City</v15:city>
        <v15:firstName>First Name</v15:firstName>
        <v15:lastName>Last Name</v15:lastName>
      </v15:address>
    </v15:request>
  </v15:qualifyByAddress>
</soapenv:Body>
</soapenv:Envelope>
```

4.1.2 Response

```
<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v15:qualifyByAddressResponse xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
      <v15:response correlationId="--- WS faQualifyByAddress">
        <v15:success>true</v15:success>
        <v15:operationLogId>432709250</v15:operationLogId>
        <v15:qualifResult>
          <v15:qualifNr>147112118</v15:qualifNr>
          <v15:contrEleId>19</v15:contrEleId>
          <v15:qualifAnswer>
            <v15:qualiResultState>ok</v15:qualiResultState>
            <v15:qualiResultDetail>
              <v15:resultCode>Q00</v15:resultCode>
              <v15:resultComment>This line is suitable for Full Access</v15:resultComment>
            </v15:qualiResultDetail>
            <v15:qualifIndex>1</v15:qualifIndex>
            <v15:faTechnology>1</v15:faTechnology>
            <v15:address>
              <v15:street>Schönstrasse</v15:street>
              <v15:houseNr>1a</v15:houseNr>
              <v15:building>Chalet</v15:building>
              <v15:zip>307400</v15:zip>
              <v15:city>Aarau</v15:city>
              <v15:firstName>Hans</v15:firstName>
              <v15:lastName>Müller</v15:lastName>
            </v15:address>
            <v15:startPoint>
```



```

        <v15:taxRegion>62</v15:taxRegion>
        <v15:accessNet>MOR</v15:accessNet>
        <v15:unitType>3</v15:unitType>
        <v15:unitNumber>10000</v15:unitNumber>
        <v15:sse>1</v15:sse>
        <v15:contactType>1</v15:contactType>
        <v15:contactNr>62</v15:contactNr>
    </v15:startPoint>
    <v15:endPoint>
        <v15:taxRegion>62</v15:taxRegion>
        <v15:accessNet>MOR</v15:accessNet>
        <v15:site>MORS</v15:site>
        <v15:siteCategory>6</v15:siteCategory>
        <v15:bbDeviceLocation>MOR</v15:bbDeviceLocation>
    </v15:endPoint>
    <v15:lineLength>
        <v15:correction>4</v15:correction>
        <v15:segment04>493</v15:segment04>
        <v15:segment05>0</v15:segment05>
        <v15:segment06>368</v15:segment06>
        <v15:segment08>0</v15:segment08>
        <v15:segment10>0</v15:segment10>
    </v15:lineLength>
    <v15:cableSize>400</v15:cableSize>
    <v15:lineState>1</v15:lineState>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>1</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
05T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
05T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>2</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
06T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
06T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>3</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
07T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
07T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>4</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
08T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
08T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>5</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
09T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
09T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:currentDnType>1</v15:currentDnType>
    <v15:siteDevelopment>
        <v15:nrOfLinesTotal>32</v15:nrOfLinesTotal>
        <v15:nrOfLinesUsable>24</v15:nrOfLinesUsable>
    </v15:siteDevelopment>

```

```

    </v15:qualifAnswer>
  </v15:qualifResult>
<v15:qualifResult>
  <v15:qualifNr>147112118</v15:qualifNr>
  <v15:contrEleId>19</v15:contrEleId>
  <v15:qualifAnswer>
    <v15:qualiResultState>ok</v15:qualiResultState>
    <v15:qualiResultDetail>
      <v15:resultCode>Q00</v15:resultCode>
      <v15:resultComment>This line is suitable for Full Access</v15:resultComment>
    </v15:qualiResultDetail>
    <v15:qualifIndex>2</v15:qualifIndex>
    <v15:faTechnology>2</v15:faTechnology>
    <v15:address>
      <v15:street>Schönstrasse</v15:street>
      <v15:houseNr>1a</v15:houseNr>
      <v15:building>Chalet</v15:building>
      <v15:zip>307400</v15:zip>
      <v15:city>Aarau</v15:city>
      <v15:firstName>Hans</v15:firstName>
      <v15:lastName>Müller</v15:lastName>
    </v15:address>
    <v15:startPoint>
      <v15:taxRegion>62</v15:taxRegion>
      <v15:accessNet>MOR</v15:accessNet>
      <v15:unitType>3</v15:unitType>
      <v15:unitNumber>10000</v15:unitNumber>
      <v15:sse>1</v15:sse>
      <v15:contactType>1</v15:contactType>
      <v15:contactNr>62</v15:contactNr>
    </v15:startPoint>
    <v15:endPoint>
      <v15:taxRegion>62</v15:taxRegion>
      <v15:accessNet>MOR</v15:accessNet>
      <v15:site>MORS</v15:site>
      <v15:siteCategory>6</v15:siteCategory>
      <v15:bbDeviceLocation>MOR</v15:bbDeviceLocation>
    </v15:endPoint>
    <v15:lineLength>
      <v15:correction>4</v15:correction>
      <v15:segment04>493</v15:segment04>
      <v15:segment05>0</v15:segment05>
      <v15:segment06>368</v15:segment06>
      <v15:segment08>0</v15:segment08>
      <v15:segment10>0</v15:segment10>
    </v15:lineLength>
    <v15:cableSize>400</v15:cableSize>
    <v15:lineState>1</v15:lineState>
    <v15:fulfillmentTimeSlot>
      <v15:fulfillmentTimeSlotQualifIndex>6</v15:fulfillmentTimeSlotQualifIndex>
      <v15:fulfillmentTimeSlotStart>2018-03-
05T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
      <v15:fulfillmentTimeSlotEnd>2018-03-
05T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
      <v15:fulfillmentTimeSlotQualifIndex>7</v15:fulfillmentTimeSlotQualifIndex>
      <v15:fulfillmentTimeSlotStart>2018-03-
06T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
      <v15:fulfillmentTimeSlotEnd>2018-03-
06T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
      <v15:fulfillmentTimeSlotQualifIndex>8</v15:fulfillmentTimeSlotQualifIndex>

```

```

        <v15:fulfillmentTimeSlotStart>2018-03-
07T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
07T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>9</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
08T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
08T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:fulfillmentTimeSlot>
        <v15:fulfillmentTimeSlotQualifIndex>10</v15:fulfillmentTimeSlotQualifIndex>
        <v15:fulfillmentTimeSlotStart>2018-03-
09T12:12:00.000+01:00</v15:fulfillmentTimeSlotStart>
        <v15:fulfillmentTimeSlotEnd>2018-03-
09T14:12:00.000+01:00</v15:fulfillmentTimeSlotEnd>
    </v15:fulfillmentTimeSlot>
    <v15:currentDnType>1</v15:currentDnType>
    <v15:siteDevelopment>
        <v15:nrOfLinesTotal>32</v15:nrOfLinesTotal>
        <v15:nrOfLinesUsable>24</v15:nrOfLinesUsable>
    </v15:siteDevelopment>
    </v15:qualifAnswer>
    </v15:qualifResult>
  </v15:response>
</v15:qualifyByAddressResponse>
</soapenv:Body>
</soapenv:Envelope>

```

4.2 Creating a Full Access subscription

After the successful qualification, the order for the desired BBCS subscription can be sent to WSG. The following example shows an order for a Full Access. Note the reference to the qualification result of the previous interaction with WSG. (Chapter 4.1)

4.2.1 Request

```

<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
  <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>hp_ws_test_777720</wsse:Username>
        <wsse:Password>Hp_wstest_09</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v15:create>
      <v15:request correlationId="--- WS faCreate">
        <v15:ptsId>777710</v15:ptsId>
        <v15:qualifNr>147112118</v15:qualifNr>
        <v15:qualifIndex>1</v15:qualifIndex>
        <v15:customerWishDateTime>2018-02-19T00:00:00.000+01:00</v15:customerWishDateTime>
        <v15:contactName>SOAP_UI</v15:contactName>
        <v15:contactPhoneNr>0793143367</v15:contactPhoneNr>
        <v15:faPortNr>1</v15:faPortNr>
        <v15:fulfillmentTimeSlotQualifIndex>1</v15:fulfillmentTimeSlotQualifIndex>
      </v15:request>
    </v15:create>
  </soapenv:Body>
</soapenv:Envelope>

```

```
</v15:request>  
</v15:create>  
</soapenv:Body>  
</soapenv:Envelope>
```

4.2.2 Response

```
<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v15:createResponse xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
      <v15:response correlationId="--- WS faCreate">
        <v15:success>true</v15:success>
        <v15:operationLogId>432709255</v15:operationLogId>
        <v15:orderNr>77771020180219000004000000</v15:orderNr>
      </v15:response>
    </v15:createResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

4.2.3 GUI

The order is visible in the WSG Full Access GUI:

Order Nr	Order Type	Order State	DN / VN / NSN	POA FA Id	Customer Wish Date	Estimated Due Date/Time Start	Estimated Due Date/Time End	Transaction Timestamp	Contract Element	FA Technology	FA Device Location	DN Office	Region	External Reference
Detail 77771020130715000094000000	ACCESS_CREATE	PROCESSING	0108555261	?	15/07/2013	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:29:20.837	Full Access (TAL)	classical ADSL	MOR	62MOR	Central	

The following Screenshots show the Service Status of the subscriber after the order is completed:

Detail Order

MainDetail

PTS	777710 Testaccount Peter Rosenberger	Internal Reference	ISP-driven ORDER		
Order Nr	77771020130715000094000000	External Reference	-		
DN / VN / NSN (Requested)	0108555261	DN (STNR) / VN / NSN	0108555261		
STNR DDI	-	DN Type	-	Starting Point	62,MOR,3,10000,0
Qualification Nr	86866423	Qualification Index	1	Fulfillment Time Slot Index	1
Order Type	ACCESS_CREATE	POA FA Id	?	Appointment Id	-
Order State	PROCESSING	Response	-		
DN Office	62MOR	FA Device Location	MOR	Billing Zone	-
Contract Element	Full Access (TAL)	FA Technology	classical ADSL	FA Port Nr	-
Customer Wish Date	15/07/2013 00:00	Estimated Due Date/Time Start	29/07/2013 12:12	Estimated Due Date/Time End	29/07/2013 16:00
Last modified	15/07/2013 13:29:20.837 Pol	Termination Date	-		
Comment	-	FA Port Nr (requested)	1		
Contact Person Name	SOAP UI	Contact Person Phone	0793143367		

History

User name	Order State	DN (STNR) / VN / NSN	Customer Wish Date	Estimated Due Date/Time Start	Estimated Due Date/Time End	Transaction Date/Time	FA Technology	Comment	Response
Pol	PROCESSING	0108555261	15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:29:20.837	classical ADSL		
Batch	CHECKED	0108555261	15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:29:20.135	classical ADSL		
Batch	ENTERED	0108555261	15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:28:20.790	classical ADSL		
HP Tester	ENTERED		15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:28:12.332	classical ADSL		

Detail Order

Main	Detail
Address / Starting Point Region Central Billing Zone - Street, Nr, Building Schönstrasse, 1a, Chalet ZIP, City 307400, Gümligen Starting Point 62;MOR;3;10000;0 Contact Type 1 Contact Number 62 Number of Wires 2 wires	Cable Box UP Board Nr - UP Switching Place Nr - UP Type of Contact - UP Contact Nr - UP Coordinate X - UP Coordinate Y -
Qualification Request First Name First Name Last Name Last Name Building Building Street Street House Nr 12 ZIP 4004 City City	Further Details SG-MM - CPE Owner - Delivery Notification - BB Access - BB Port 1 Effective Speed - Calculated max. Bitrate - Measured max. Bitrate -

History

User name	Order State	DN (STNR) / VN / NSN	Customer Wish Date	Estimated Due Date/Time Start	Estimated Due Date/Time End	Transaction Date/Time	FA Technology	Comment	Response
Pol	PROCESSING	0108555261	15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:29:20.837	classical ADSL		
Batch	CHECKED	0108555261	15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:29:20.135	classical ADSL		
Batch	ENTERED	0108555261	15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:28:20.790	classical ADSL		
HP Tester	ENTERED		15/07/2013 00:00	29/07/2013 12:12	29/07/2013 16:00	15/07/2013 13:28:12.332	classical ADSL		

4.3 Modification of a Full Access description

Existing subscriptions can be modified to satisfy the new needs of a customer. In this Example the technology is changed from classical ADSL to VDSL

4.3.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
  <soapenv:Header/>
  <soapenv:Body>
    <v15:modifyPending>
      <v15:request correlationId="Regr Test faModifyPending">
        <v15:ptsId>777710</v15:ptsId>
        <v15:orderNr>77771020180219000004000000</v15:orderNr>
        <v15:qualifIndex>1</v15:qualifIndex>
        <v15:comment>WS faModifyPend Date, Qualif and Contact</v15:comment>
        <v15:qualifNr>147112118</v15:qualifNr>
        <v15:customerWishDateTime>2018-02-19T00:00:00.000+01:00</v15:customerWishDateTime>
        <v15:extRef>WS faModifyPend</v15:extRef>
        <v15:contactName>modifPend Contact</v15:contactName>
        <v15:contactPhoneNr>0584443593</v15:contactPhoneNr>
      </v15:request>
    </v15:modifyPending>
  </soapenv:Body>
</soapenv:Envelope>
```

4.3.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
  <soapenv:Body>
    <v15:modifyPendingResponse xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
      <v15:response correlationId="Regr Test faModifyPending">
        <v15:success>true</v15:success>
        <v15:operationLogId>432709256</v15:operationLogId>
        <v15:orderNr>77771020180219000004000000</v15:orderNr>
      </v15:response>
    </v15:modifyPendingResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

shows all notifications produced during the processing of the orders above.

4.4 Disconnection of a Full Access subscription

If the BBCS subscription is no longer needed it can be deprovisioned as shown in the following example

4.4.1 Request

```
<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
  <soapenv:Header/>
  <soapenv:Body>
    <v15:disconnect>
      <v15:request correlationId="Regr Test Disconnect">
        <v15:ptsId>777710</v15:ptsId>
        <v15:qualifNr>147112118</v15:qualifNr>
        <v15:dnVnNsn>0182010300</v15:dnVnNsn>
        <v15:qualifIndex>1</v15:qualifIndex>
        <v15:customerWishDateTime>2018-02-20T05:00:00.000Z</v15:customerWishDateTime>
        <v15:comment>Disconnect ohne Qualif. by WS</v15:comment>
        <v15:extRef>Regr Test extRef</v15:extRef>
        <v15:fulfillmentTimeSlotQualifIndex>1</v15:fulfillmentTimeSlotQualifIndex>
      </v15:request>
    </v15:disconnect>
  </soapenv:Body>
</soapenv:Envelope>
```

4.4.2 Response

```
<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
  <soapenv:Body>
    <v15:disconnectResponse xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
      <v15:response correlationId="Regr Test Disconnect">
        <v15:success>true</v15:success>
        <v15:operationLogId>432709271</v15:operationLogId>
        <v15:orderNr>77771020180219000005000000</v15:orderNr>
      </v15:response>
    </v15:disconnectResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

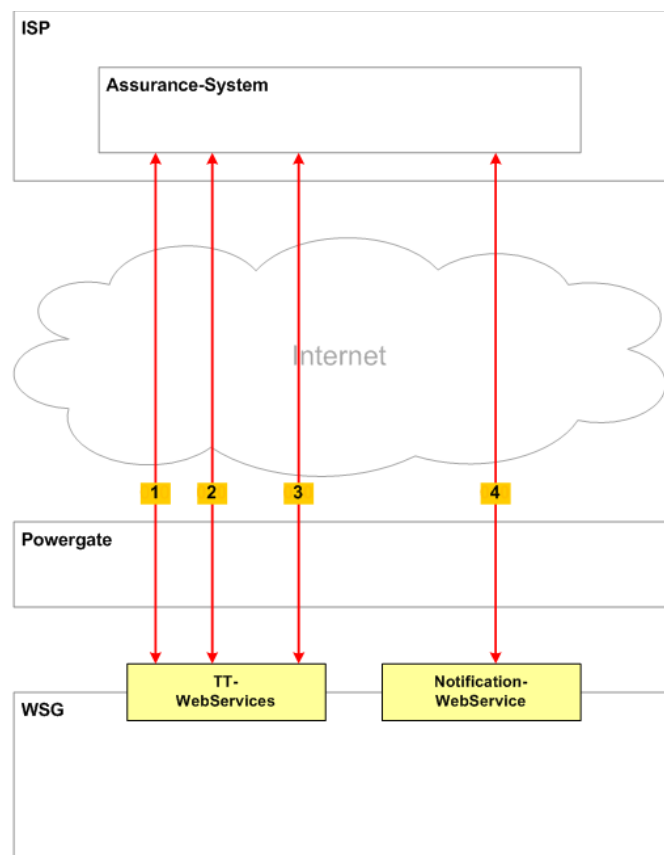

5 Assurance (BBCS Trouble Ticket)

For a detailed interface definition see[4].

5.1 Process Overview

The following picture shows the interactions between the ISP's assurance system and WSG:

- 1 xDSL Info**
ISP: Checks the current status of a subscription.
WSG: The response shows information about the subscription including line measurement data.
- 2 Trouble Ticket Creation**
ISP: A trouble ticket is sent to WSG.
WSG: WSG confirms the receipt of the trouble ticket.
- 3 Trouble Ticket Status**
ISP: The ISP can request information about the trouble ticket status at any time.
WSG: WSG returns the details of the trouble ticket.
- 4 Notifications**
ISP: The ISP can retrieve notifications about the progress of the trouble ticket processing for which he has subscribed.
WSG: The notifications that were created during the processing of the trouble ticket are returned.



5.2 Get xDSL Info

If an existing BBCS subscription does not work (any more) a get xDSL Info request show available services, network and equipment information, state, stability, measurements and charts (Traffic Light, repair action, ICA Result, ICA Problems, DSLAM alarms, NA measurements. MELT data) For details see B2B XDSL Info Function and Assurance User Manual too.

5.2.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
  <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-secect-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>${Header.Username}</wsse:Username>
        <wsse:Password>${Header.Password}</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v34:getXdslInfo>
      <v34:request correlationId="getXdslinfo WS Tutorial">
        <v34:dnVnNsn>0108284947</v34:dnVnNsn>
        <v34:fetchMeasurementHistoryData>true</v34:fetchMeasurementHistoryData>
        <v34:fetchAlarmData>true</v34:fetchAlarmData>
        <v34:fetchMeltData>true</v34:fetchMeltData>
      </v34:request>
    </v34:getXdslInfo>
  </soapenv:Body>
</soapenv:Envelope>
```

5.2.2 Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v34:getXdslInfoResponse xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
      <v34:response correlationId="getXdslinfo WS Tutorial">
        <v34:success>true</v34:success>
        <v34:operationLogId>432688615</v34:operationLogId>
        <v34:xdslInfo>
          <v34:actualBitrateUp>16504</v34:actualBitrateUp>
          <v34:actualBitrateDown>55040</v34:actualBitrateDown>
          <v34:actualBitrateUnit>kb/s</v34:actualBitrateUnit>
          <v34:attainableBitrateUp>23728</v34:attainableBitrateUp>
          <v34:attainableBitrateDown>83904</v34:attainableBitrateDown>
          <v34:attainableBitrateUnit>kb/s</v34:attainableBitrateUnit>
          <v34:attenuationUp>16.8</v34:attenuationUp>
          <v34:attenuationDown>14.8</v34:attenuationDown>
          <v34:attenuationUnit>db</v34:attenuationUnit>
          <v34:capacityOccupationUp>64</v34:capacityOccupationUp>
          <v34:capacityOccupationDown>81</v34:capacityOccupationDown>
          <v34:capacityOccupationUnit>%</v34:capacityOccupationUnit>
          <v34:bbType>2</v34:bbType>
          <v34:contrEleId>120</v34:contrEleId>
          <v34:calculatedLineLength>862</v34:calculatedLineLength>
          <v34:correctionDbLineLength>872</v34:correctionDbLineLength>
          <v34:dnType>13</v34:dnType>
          <v34:dnVnNsn>0108284947</v34:dnVnNsn>
          <v34:interleaveMode>2</v34:interleaveMode>
        </v34:xdslInfo>
      </v34:response>
    </v34:getXdslInfoResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<v34:ispId>100008</v34:ispId>
<v34:ispIdProvider>100068</v34:ispIdProvider>
<v34:lastStatusChange>1970-01-01T01:00:00.000+01:00</v34:lastStatusChange>
<v34:lineStateId>23684264</v34:lineStateId>
<v34:noiseMarginUp>11.1</v34:noiseMarginUp>
<v34:noiseMarginDown>14</v34:noiseMarginDown>
<v34:noiseMarginUnit>db</v34:noiseMarginUnit>
<v34:nrSpontaneousResyncs>1</v34:nrSpontaneousResyncs>
<v34:requestDate>2018-06-01T17:39:26.000+02:00</v34:requestDate>
<v34:responseDate>2018-06-01T17:39:33.000+02:00</v34:responseDate>
<v34:responseMessage>TIBCO/NC-CIA: 000: OK: NA: 000: OK</v34:responseMessage>
<v34:sessionType>1</v34:sessionType>
<v34:accessProfile>
  <v34:speedProfileDescription>50000 down / 10000
up</v34:speedProfileDescription>
  <v34:speedProfileName>50000 down / 10000 up</v34:speedProfileName>
  <v34:accessSpeedProfileNr>59</v34:accessSpeedProfileNr>
  <v34:technologyType>2</v34:technologyType>
  <v34:accessProfileType>3</v34:accessProfileType>
</v34:accessProfile>
<v34:xdslInfoLight>green</v34:xdslInfoLight>
<v34:xdslLineState>up</v34:xdslLineState>
<v34:opStatus>4</v34:opStatus>
<v34:cpeType>ADB V226N1 Centro Grande</v34:cpeType>
<v34:cpeInfo>
  <v34:cpeName>Motorola HGW5 7347-44-20SC WIAD "CPE5 WIAD (POTS)", FW 7.8.6r5,
IKNS r71</v34:cpeName>
  <v34:dslamTypeAllowed>
    <v34:technology>2</v34:technology>
    <v34:dslamType>2</v34:dslamType>
    <v34:dslamType>3</v34:dslamType>
  </v34:dslamTypeAllowed>
  <v34:capability>
    <v34:technologyType>1</v34:technologyType>
    <v34:capabilityOverall>7</v34:capabilityOverall>
    <v34:capabilityHardware>1</v34:capabilityHardware>
    <v34:capabilityFirmware>2</v34:capabilityFirmware>
  </v34:capability>
  <v34:capability>
    <v34:technologyType>2</v34:technologyType>
    <v34:capabilityOverall>1</v34:capabilityOverall>
    <v34:capabilityHardware>2</v34:capabilityHardware>
    <v34:capabilityFirmware>0</v34:capabilityFirmware>
  </v34:capability>
  <v34:capability>
    <v34:technologyType>3</v34:technologyType>
    <v34:capabilityOverall>2</v34:capabilityOverall>
    <v34:capabilityHardware>0</v34:capabilityHardware>
    <v34:capabilityFirmware>1</v34:capabilityFirmware>
  </v34:capability>
  <v34:comment>CPE Info Comment</v34:comment>
</v34:cpeInfo>
<v34:stabilityInfo>
  <v34:overallStability>3</v34:overallStability>

<v34:codingViolationDownstreamStability>3</v34:codingViolationDownstreamStability>
  <v34:codingViolationUpstreamStability>3</v34:codingViolationUpstreamStability>

<v34:severelyErrorSecondsDownstreamStability>3</v34:severelyErrorSecondsDownstreamStability>

<v34:severelyErrorSecondsUpstreamStability>3</v34:severelyErrorSecondsUpstreamStability>
  <v34:spontaneousResyncsStability>1</v34:spontaneousResyncsStability>
  <v34:attainableActualBitrateRatio>2</v34:attainableActualBitrateRatio>
</v34:stabilityInfo>
<v34:icaResult>

```

```

<v34:analysisDate>2016-03-15T14:46:15.000+01:00</v34:analysisDate>
<v34:analysisDate24h>2016-03-10T14:46:15.000+01:00</v34:analysisDate24h>
<v34:analysisState>6</v34:analysisState>
<v34:analysisType>1</v34:analysisType>
<v34:problemDetected>0</v34:problemDetected>
<v34:potentialAttainBitrateDown>-1</v34:potentialAttainBitrateDown>
<v34:potentialAttainBitrateUp>-1</v34:potentialAttainBitrateUp>
<v34:potentialAccessProfileNr>0</v34:potentialAccessProfileNr>
<v34:accessSpeedGainDown>-1</v34:accessSpeedGainDown>
<v34:accessSpeedGainUp>-1</v34:accessSpeedGainUp>
<v34:accessProblemType>0</v34:accessProblemType>
<v34:bbrSocketInstalled>>false</v34:bbrSocketInstalled>
<v34:bbrSocketInstallationDate>1970-01-
01T02:00:00.000+01:00</v34:bbrSocketInstallationDate>
<v34:icaProblems>
  <v34:description>1</v34:description>
  <v34:descriptionText>BridgeTap</v34:descriptionText>
  <v34:confidence>90</v34:confidence>
  <v34:impact>reduced.attainable.rate.us.ds.quantified 6968 1528
kb/s</v34:impact>
  <v34:impactAttainBitrateDown>0</v34:impactAttainBitrateDown>
  <v34:impactAttainBitrateUp>0</v34:impactAttainBitrateUp>
</v34:icaProblems>
<v34:icaProblems>
  <v34:description>2</v34:description>
  <v34:descriptionText>Degraded Contact</v34:descriptionText>
  <v34:confidence>91</v34:confidence>
  <v34:impact>reduced.attainable.rate.us.ds.quantified 6968 1528
kb/s</v34:impact>
  <v34:impactAttainBitrateDown>0</v34:impactAttainBitrateDown>
  <v34:impactAttainBitrateUp>0</v34:impactAttainBitrateUp>
</v34:icaProblems>
</v34:icaResult>
<v34:endPoint>
  <v34:dnOffice>64BOL</v34:dnOffice>
  <v34:site>BOL</v34:site>
  <v34:bbDeviceLocation>BOL</v34:bbDeviceLocation>
  <v34:siteCategory>28</v34:siteCategory>
  <v34:availableTechnologyTypes>
    <v34:technologyType>1</v34:technologyType>
    <v34:technologyType>2</v34:technologyType>
  </v34:availableTechnologyTypes>
</v34:endPoint>
<v34:problemDescription>BridgeTap</v34:problemDescription>
<v34:proposedRepairAction>If the stability and performance is ok, then do nothing.
Else check and correct the inhouse cabling (install broad band ready).</v34:proposedRepairAction>
<v34:dslamAlarm>
  <v34:dslamAlarmType>CAN-Card</v34:dslamAlarmType>
  <v34:startDateTime>2018-06-01T16:29:29.000+02:00</v34:startDateTime>
  <v34:expectedRepairTime>48</v34:expectedRepairTime>
</v34:dslamAlarm>
<v34:dslamAlarm>
  <v34:dslamAlarmType>CAN-Card</v34:dslamAlarmType>
  <v34:startDateTime>2018-05-29T16:29:29.000+02:00</v34:startDateTime>
  <v34:endDateTime>2018-05-31T16:29:29.000+02:00</v34:endDateTime>
  <v34:expectedRepairTime>48</v34:expectedRepairTime>
</v34:dslamAlarm>
<v34:dslamAlarm>
  <v34:dslamAlarmType>CAN-Card</v34:dslamAlarmType>
  <v34:startDateTime>2018-05-25T16:29:29.000+02:00</v34:startDateTime>
  <v34:endDateTime>2018-05-27T16:29:29.000+02:00</v34:endDateTime>
  <v34:expectedRepairTime>48</v34:expectedRepairTime>
</v34:dslamAlarm>
<v34:measurementHistoryItem>
  <v34:date>2018-05-31T12:00:00.000+02:00</v34:date>

```

```
<v34:nrSpontaneousResyncs>1</v34:nrSpontaneousResyncs>
<v34:codingViolationsUp>3</v34:codingViolationsUp>
<v34:codingViolationsDown>27</v34:codingViolationsDown>
<v34:noiseMarginUp>16</v34:noiseMarginUp>
<v34:noiseMarginDown>9</v34:noiseMarginDown>
<v34:noiseMarginUnit>dB</v34:noiseMarginUnit>
<v34:actualBitrateUp>16512</v34:actualBitrateUp>
<v34:actualBitrateDown>88064</v34:actualBitrateDown>
<v34:actualBitrateUnit>kb/s</v34:actualBitrateUnit>
<v34:attainableBitrateUp>32428</v34:attainableBitrateUp>
<v34:attainableBitrateDown>300010</v34:attainableBitrateDown>
<v34:attainableBitrateUnit>kb/s</v34:attainableBitrateUnit>
<v34:attenuationUp>6</v34:attenuationUp>
<v34:attenuationDown>6</v34:attenuationDown>
<v34:attenuationUnit>dB</v34:attenuationUnit>
<v34:dslamName>ipc-bol640-s-vd-01</v34:dslamName>
<v34:bbLogPortNr>1/2/3/4</v34:bbLogPortNr>
<v34:measuredTime>86400</v34:measuredTime>
<v34:serialNumber>24c9ccc4e0 7647-47 9010226</v34:serialNumber>
<v34:severelyErrorSecDown>5</v34:severelyErrorSecDown>
<v34:severelyErrorSecUp>0</v34:severelyErrorSecUp>

<v34:codingViolationsDown15Minutes>51;54;57;59;96;4;44;30;8;1;15;19;38;11;5;7;12;11;22;58;69;89;9
0;53;66;54;60;4;33;28;22;20;6;4;1;26;47;41;30;18;90;0;87;14;18;19;11;6;4;19;5;3;6;7;12;7;72;48;61
;98;20;5;1;57;65;8;33;20;0;4;18;5;0;65;45;68;77;15;89;24;9;11;56;33;14;23;5;6;12;10;48;1;18;76;22
;1</v34:codingViolationsDown15Minutes>

<v34:codingViolationsUp15Minutes>0;13;23;32;63;3;38;30;8;2;21;32;81;36;50;34;15;4;0;14;28;49;59;4
1;58;53;65;5;47;47;48;65;60;23;1;10;0;9;12;9;59;0;76;14;20;24;15;10;8;62;46;16;7;2;0;1;29;26;40;7
5;18;5;1;71;93;14;71;65;3;19;22;2;0;15;18;37;51;12;77;24;10;14;80;56;30;75;51;30;15;3;0;0;7;41;14
;1</v34:codingViolationsUp15Minutes>

<v34:severelyErrorSecDown15Minutes>83;67;54;43;52;1;9;1;1;0;10;21;69;40;73;68;44;25;36;71;66;65;4
9;20;13;1;9;1;22;31;41;72;87;44;4;60;77;50;29;13;49;0;18;0;2;7;7;6;7;68;66;33;22;16;20;8;68;35;33
;37;4;0;0;21;44;9;60;72;5;38;65;11;0;80;43;50;42;5;18;0;1;4;38;36;26;83;74;59;44;22;78;1;17;56;12
;0</v34:severelyErrorSecDown15Minutes>

<v34:severelyErrorSecUp15Minutes>83;75;68;63;91;4;33;19;4;0;3;1;19;17;41;46;35;22;36;80;83;95;86;
45;49;35;31;1;6;1;11;32;49;30;3;53;77;56;36;19;86;0;65;9;9;7;2;0;2;30;38;22;18;15;20;9;86;51;58;8
3;15;3;0;21;13;0;17;32;3;26;52;10;0;90;54;73;74;13;66;16;5;4;11;2;7;36;42;40;35;20;78;1;21;82;21;
1</v34:severelyErrorSecUp15Minutes>
<v34:accessSpeedProfileNr>190</v34:accessSpeedProfileNr>
<v34:interleaveMode>2</v34:interleaveMode>
<v34:psdClass>20</v34:psdClass>
</v34:measurementHistoryItem>
<v34:measurementHistoryItem>
  <v34:date>2018-05-30T12:00:00.000+02:00</v34:date>
  <v34:nrSpontaneousResyncs>1</v34:nrSpontaneousResyncs>
  <v34:codingViolationsUp>4</v34:codingViolationsUp>
  <v34:codingViolationsDown>28</v34:codingViolationsDown>
  <v34:noiseMarginUp>17</v34:noiseMarginUp>
  <v34:noiseMarginDown>10</v34:noiseMarginDown>
  <v34:noiseMarginUnit>dB</v34:noiseMarginUnit>
  <v34:actualBitrateUp>16512</v34:actualBitrateUp>
  <v34:actualBitrateDown>88064</v34:actualBitrateDown>
  <v34:actualBitrateUnit>kb/s</v34:actualBitrateUnit>
  <v34:attainableBitrateUp>32438</v34:attainableBitrateUp>
  <v34:attainableBitrateDown>300011</v34:attainableBitrateDown>
  <v34:attainableBitrateUnit>kb/s</v34:attainableBitrateUnit>
  <v34:attenuationUp>7</v34:attenuationUp>
  <v34:attenuationDown>7</v34:attenuationDown>
  <v34:attenuationUnit>dB</v34:attenuationUnit>
  <v34:dslamName>ipc-bol640-s-vd-01</v34:dslamName>
  <v34:bbLogPortNr>1/2/3/4</v34:bbLogPortNr>
  <v34:measuredTime>86401</v34:measuredTime>
```

```

<v34:serialNumber>24c9ccc4e0 7647-47 9010226</v34:serialNumber>
<v34:severelyErrorSecDown>6</v34:severelyErrorSecDown>
<v34:severelyErrorSecUp>1</v34:severelyErrorSecUp>

<v34:codingViolationsDown15Minutes>65;64;63;63;98;4;42;28;7;1;11;13;19;1;10;21;21;16;28;68;77;95;
92;53;63;50;52;3;25;19;11;3;13;14;2;37;60;48;34;19;92;0;83;13;16;16;8;4;2;2;10;10;10;10;16;8;80;5
1;62;98;19;5;1;47;50;5;17;3;0;12;30;7;0;77;50;73;79;15;85;22;8;9;43;22;7;3;11;18;21;14;61;1;20;82
;22;1</v34:codingViolationsDown15Minutes>

<v34:codingViolationsUp15Minutes>18;28;36;43;78;4;42;31;8;1;20;29;69;29;37;21;6;0;7;30;44;65;73;4
7;63;56;66;4;44;43;41;52;44;14;0;2;16;21;19;13;73;0;83;14;20;23;14;9;7;49;33;10;3;0;4;3;46;35;49;
87;19;5;1;69;88;12;60;52;2;12;9;0;0;34;29;50;63;14;85;25;10;13;76;50;26;60;37;18;6;0;17;0;11;56;1
8;1</v34:codingViolationsUp15Minutes>

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5.2.3 GUI

xDSL Info																																																																																																									
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back Transaction Overview create ticket																																																																																																									
xDSL Info Alarms RA Measure History CPE Info Access Optimization Access Optimization History																																																																																																									
Day Charts 15 Min. Charts Reconfigure Line																																																																																																									
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24h DateTime	10003016 14:46:15	ICA Analysis State	Initalizable	ICA Analysis Type	LOS	ICA Problem Detected	No problem detected	Potential Adsl Bitrate Down	-1	Potential Adsl Bitrate Up	-1	Potential Access Profile	ETABLISHED	Access Speed Gain Down	-1	Access Speed Gain Up	-1	ICA Access Problem Type	no problem	BBP Socket installed	0	BBP Socket installation Date	01001970 02:00:00	ICA Problem	<table border="1"> <tr> <td>Description</td><td>BridgeTap</td></tr> <tr> <td>Description Text</td><td>BridgeTap</td></tr> <tr> <td>Confidence</td><td>90</td></tr> <tr> <td>Impact</td><td>reduced attainable rate on its quantified 0000 1528 kbit/s</td></tr> <tr> <td>Impact Adsl Bitrate Down</td><td>0</td></tr> <tr> <td>Impact Adsl Bitrate Up</td><td>0</td></tr> <tr> <td>Remaining Time (min)</td><td>-</td></tr> <tr> <td>Description</td><td>Degraded Contact</td></tr> <tr> <td>Description Text</td><td>Degraded Contact</td></tr> <tr> <td>Confidence</td><td>91</td></tr> <tr> <td>Impact</td><td>reduced 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Stability Info	<table border="1"> <tr> <td>Overall Stability</td><td>good stability/quality</td></tr> <tr> <td>Coding Violation Up</td><td>good stability/quality</td></tr> <tr> <td>Coding Violation Down</td><td>good stability/quality</td></tr> <tr> <td>Severely Error Seconds Down</td><td>good stability/quality</td></tr> <tr> <td>Severely Error Seconds Up</td><td>good stability/quality</td></tr> <tr> <td>Spontaneous Retransmits</td><td>bad stability/quality</td></tr> <tr> <td>Attainable Actual Bitrate State</td><td>High Margin</td></tr> <tr> <td>Last Status Change DateTime</td><td>01001970 01:00:00</td></tr> </table>	Overall Stability	good stability/quality	Coding Violation Up	good stability/quality	Coding Violation Down	good stability/quality	Severely Error Seconds Down	good stability/quality	Severely Error Seconds Up	good stability/quality	Spontaneous Retransmits	bad stability/quality	Attainable Actual Bitrate State	High Margin	Last Status Change DateTime	01001970 01:00:00																																																																																								
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xDSL Info	Alarms	NA Measure History	CPE Info	Access Optimization	Access Optimization History
Day Charts	15 Min. Charts	Reconfigure Line			

Request Date/Time 01/06/2018 15:21:55

Response Date/Time 01/06/2018 15:22:02

TIBCO/NC-CIA 000: OK

NA 000: OK

Access Network NOK

Begin of Fault: 01/06/2018 14:11:58

Expected repair time: 48h

Access Network History

Begin/End of Fault: 29/05/2018 14:11:58 31/05/2018 14:11:58

Begin/End of Fault: 25/05/2018 14:11:58 27/05/2018 14:11:58

xDSL Info	Alarms	NA Measure History	CPE Info	Access Optimization	Access Optimization History	Day Charts	15 Min. Charts	Reconfigure Line
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Request Date/Time 01/06/2018 15:21:55

Response Date/Time 01/06/2018 15:22:02

TIBCO/NC-CIA 000: OK

NA 000: OK

Historical Measurement Values

Measured Date	Measured Time	DSLAM Name	Logical Port	Spontaneous Resyns	Coding Violations up/down	Noise Margin up/down dB	Actual Bit Rate up/down kb/s	Attainable Bit Rate up/down kb/s	Attenuation up/down dB	Serial Number	Access Profile	Interleave Mode	BB Psd Class
31/05/2018 12:00:00	86400	ipc-bol640-s-vd-01	1/2/3/4	1	3 / 27	16 / 9	16512 / 88064	32428 / 300010	6 / 6	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a
30/05/2018 12:00:00	86401	ipc-bol640-s-vd-01	1/2/3/4	1	4 / 28	17 / 10	16512 / 88064	32438 / 300011	7 / 7	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a
29/05/2018 12:00:00	86402	ipc-bol640-s-vd-01	1/2/3/4	1	5 / 29	18 / 11	16512 / 88064	32448 / 300012	8 / 8	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a
28/05/2018 12:00:00	86403	ipc-bol640-s-vd-01	1/2/3/4	1	6 / 30	19 / 12	16512 / 88064	32458 / 300013	9 / 9	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a
27/05/2018 12:00:00	86404	ipc-bol640-s-vd-01	1/2/3/4	1	7 / 31	20 / 13	16512 / 88064	32468 / 300014	10 / 10	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a
26/05/2018 12:00:00	86405	ipc-bol640-s-vd-01	1/2/3/4	1	8 / 32	21 / 14	16512 / 88064	32478 / 300015	11 / 11	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a
25/05/2018 12:00:00	86406	ipc-bol640-s-vd-01	1/2/3/4	1	9 / 33	22 / 15	16512 / 88064	32488 / 300016	12 / 12	24c9ccc4e0 7647-47 9010226	5M-80M down / 500k-15M up	Interleave Low	Spec_VDSL2_17a

xDSL Info	Alarms	NA Measure History	CPE Info	Access Optimization	Access Optimization History
Day Charts	15 Min. Charts	Reconfigure Line			

CPE Info CPE Name Motorola HGW5 7347-44-20SC WIAD "CPE5 WIAD (POTS)", FW 7.8.6r5, IKNS r71

DSLAM Type Allowed **Technology** Dslam Type VDSL2 ISAM, CAN

Capability **Technology Type** Capability Overall Capability Hardware Capability Firmware VDSL2 Not capable yes yes, but SFP needed VDSL Vectoring capable yes, but SFP needed no G.FAST friendly no yes

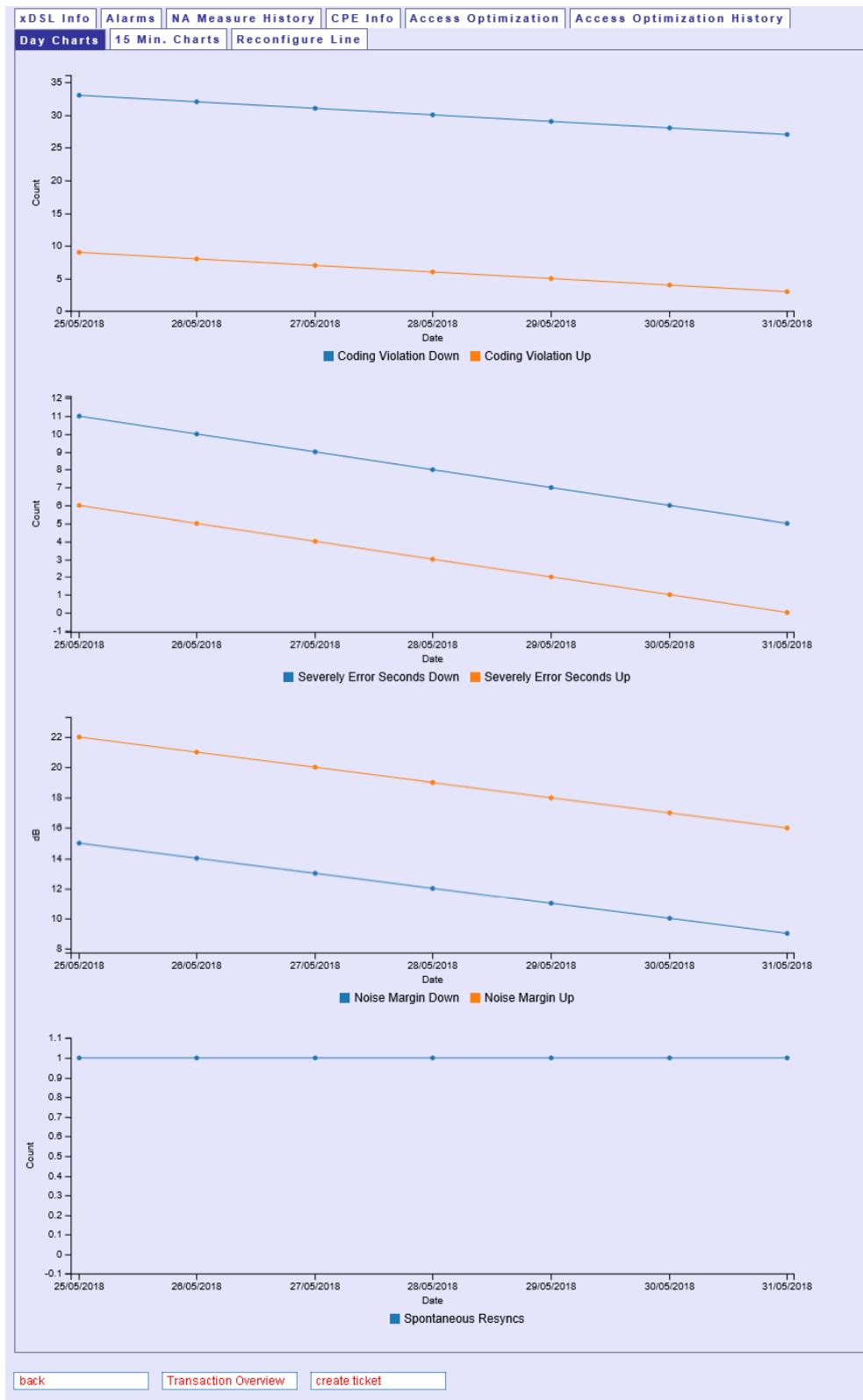
CPE Comment CPE Info Comment

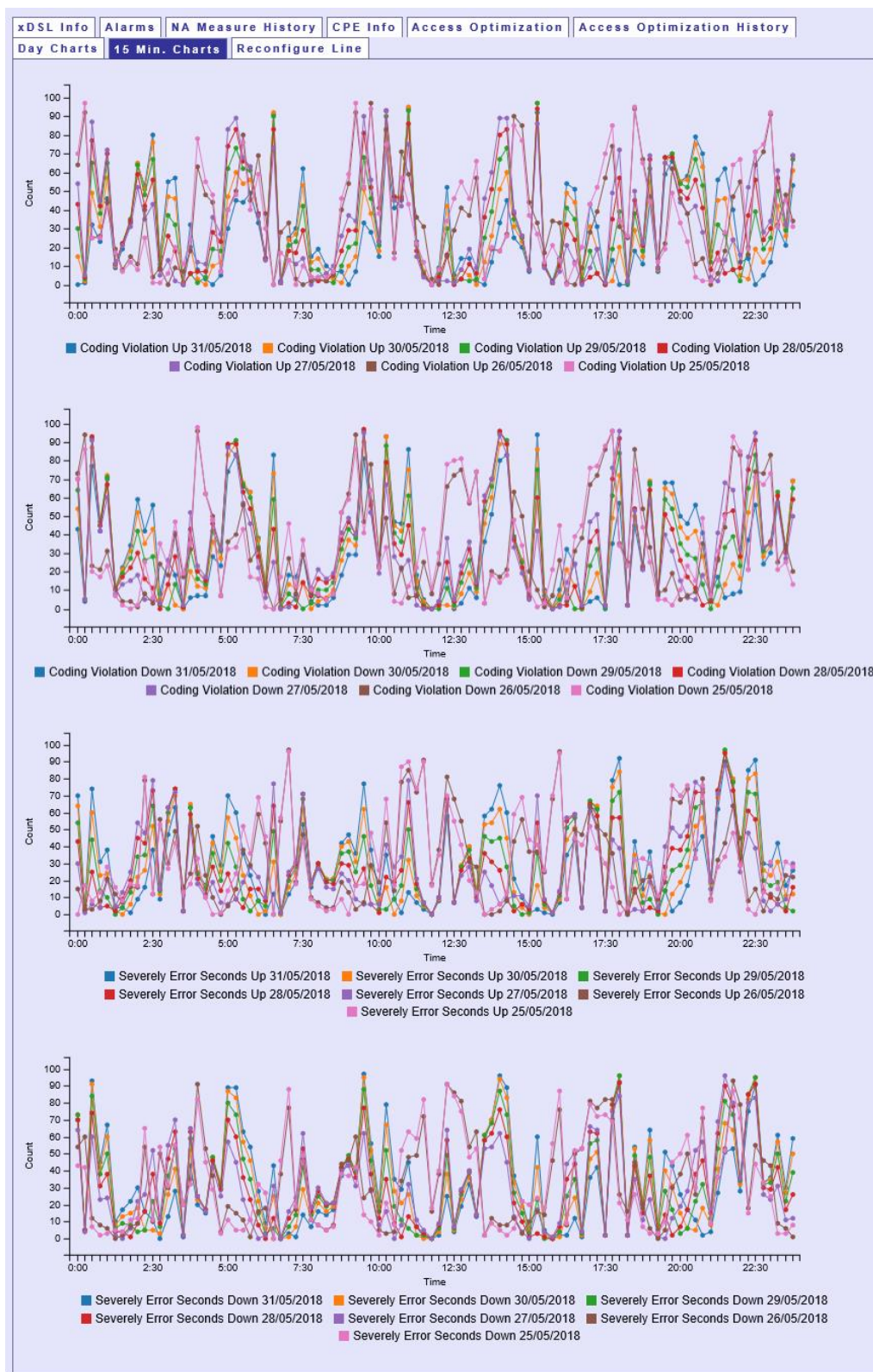
CPE Type ADB V226N1 Centro Grande

xDSL Info	Alarms	NA Measure History	CPE Info	Access Optimization	Access Optimization History
Day Charts	15 Min. Charts	Reconfigure Line			
CPE Info	CPE Name	Motorola HGW5 7347-44-20SC WIAD "CPE5 WIAD (POTS)", FW 7.8.6r5, IKNS r71			
	DSLAM Type Allowed	Technology	DSLAM Type		
		VDSL2	ISAM, CAN		
Capability		Technology Type	Capability Overall	Capability Hardware	Capability Firmware
		VDSL2	Not capable	yes	yes, but SFP needed
		VDSL Vectoring	capable	yes, but SFP needed	no
		G.FAST	friendly	no	yes
CPE Comment	CPE Info Comment				
CPE Type	ADB V226N1 Centro Grande				

xDSL Info	Alarms	NA Measure History	CPE Info	Access Optimization	Access Optimization History
Day Charts	15 Min. Charts	Reconfigure Line			
Qualification Info	LQS Max Technology Type	VDSL2			
	LQS Max Access Profile	50M down / 10M up			
	Interleave Mode	Interleave Low			
	NA Failure Type	OK			
	NA Max Technology Type	VDSL2			
	NA Max Access Profile	44M down / 10M up			
	Reason of Potential	-1000 - stability issue - outstanding downgrooming (ServiceImpact) 1000 - Pending upgrooming 1001 - old CPE Firmware			
Running Netdriven Action	Netdriven Process	aNetdrivenProcess			
	Start Date/Time	17/02/2017 10:30:47			
	Input Reason	aInputReason2			
	Current Step	aCurrentStep			
	Initiator	aInitiator2			
Last Netdriven Action	Netdriven Process	LastProcess 2			
	Run Date/Time	31/05/2018 03:22:25			
	Input Reason	aInputReason 2			
	Action	aAction 2			
	Initiator	aInitiator 2			
Port Config		After Last Action	Before Last Action		
	BB Psd Class	VDSL_CAB11_1	VDSL_CAB04_1		
	Technology	ADSL	VDSL2		
	Technology Type	VDSL Vectoring	VDSL2		
	Access Profile	25M down / 10M up	20M down / 6M up		
	Interleave Mode	Interleave Medium	Interleave Low		
	Effective Speed/Virtual Profile	500M down / 400M up	300M down / 200M up		

xDSL Info	Alarms	NA Measure History	CPE Info	Access Optimization	Access Optimization History
Day Charts	15 Min. Charts	Reconfigure Line			
Last Netdriven Action	Netdriven Process	LastProcess 2			
	Run Date/Time	31/05/2018 03:22:25			
	Input Reason	aInputReason 2			
	Action	aAction 2			
	Initiator	aInitiator 2			
Port Config		After Last Action	Before Last Action		
	BB Psd Class	VDSL_CAB11_1	VDSL_CAB04_1		
	Technology	ADSL	VDSL2		
	Technology Type	VDSL Vectoring	VDSL2		
	Access Profile	25M down / 10M up	20M down / 6M up		
	Interleave Mode	Interleave Medium	Interleave Low		
	Effective Speed/Virtual Profile	500M down / 400M up	300M down / 200M up		
Last Netdriven Action	Netdriven Process	LastProcess 1			
	Run Date/Time	30/05/2018 15:22:25			
	Input Reason	aInputReason 1			
	Action	aAction 1			
	Initiator	aInitiator 1			
Port Config		After Last Action	Before Last Action		
	BB Psd Class	VDSL_CAB11_1	VDSL_CAB04_1		
	Technology	ADSL	VDSL2		
	Technology Type	VDSL Vectoring	VDSL2		
	Access Profile	25M down / 10M up	20M down / 6M up		
	Interleave Mode	Interleave Medium	Interleave Low		
	Effective Speed/Virtual Profile	500M down / 400M up	300M down / 200M up		
Last Netdriven Action	Netdriven Process	LastProcess 0			
	Run Date/Time	30/05/2018 03:22:25			
	Input Reason	aInputReason 0			
	Action	aAction 0			
	Initiator	aInitiator 0			
Port Config		After Last Action	Before Last Action		
	BB Psd Class	VDSL_CAB11_1	VDSL_CAB04_1		
	Technology	ADSL	VDSL2		
	Technology Type	VDSL Vectoring	VDSL2		
	Access Profile	25M down / 10M up	20M down / 6M up		
	Interleave Mode	Interleave Medium	Interleave Low		
	Effective Speed/Virtual Profile	500M down / 400M up	300M down / 200M up		





5.3 Get Appointment

If a field force at the customer location is needed schedule an appointment and use it at creation of the ticket. The sequence is get available timeslots, book appointment. If reschedule is needed get available time slots with the recent appointment id and reschedule the appointment. An existing appointment may be cancelled.

5.3.1 Get Available Timeslots

5.3.1.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
  <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>${Header.Username}</wsse:Username>
        <wsse:Password>${Header.Password}</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security></soapenv:Header>
  <soapenv:Body>
    <v3:getAvailableTimeSlots>
      <v3:request correlationId="GetAvailableTimeSlots WS Tutorial">
        <v3:ispId>777710</v3:ispId>
        <v3:troubleTicketData>
          <v3:errorCategory>571</v3:errorCategory>
          <v3:dnVnNsn>0108891951</v3:dnVnNsn>
        </v3:troubleTicketData>
        <v3:fromDateTime>2018-06-02T00:00:00.000</v3:fromDateTime>
      </v3:request>
    </v3:getAvailableTimeSlots>
  </soapenv:Body>
</soapenv:Envelope>
```

5.3.1.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
  <soapenv:Body>
    <v3:getAvailableTimeSlotsResponse xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
      <v3:response correlationId="GetAvailableTimeSlots WS Tutorial">
        <v3:success>true</v3:success>
        <v3:bookingSessionId>000135111489839</v3:bookingSessionId>
        <v3:timeSlot>
          <v3:timeSlotId>13</v3:timeSlotId>
          <v3:timeSlotSize>10</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T17:00:08.895+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>true</v3:outOfSaSla>
          <v3:rank>29</v3:rank>
        </v3:timeSlot>
        <v3:timeSlot>
          <v3:timeSlotId>14</v3:timeSlotId>
          <v3:timeSlotSize>30</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T12:00:08.895+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>false</v3:outOfSaSla>
          <v3:rank>8</v3:rank>
        </v3:timeSlot>
        <v3:timeSlot>
          <v3:timeSlotId>14</v3:timeSlotId>
          <v3:timeSlotSize>30</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T12:00:08.895+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>false</v3:outOfSaSla>
          <v3:rank>8</v3:rank>
        </v3:timeSlot>
        <v3:timeSlot>
          <v3:timeSlotId>14</v3:timeSlotId>
          <v3:timeSlotSize>30</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T12:00:08.895+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>false</v3:outOfSaSla>
          <v3:rank>8</v3:rank>
        </v3:timeSlot>
      </v3:response>
    </v3:getAvailableTimeSlotsResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<v3:timeSlotId>15</v3:timeSlotId>
<v3:timeSlotSize>30</v3:timeSlotSize>
<v3:timeSlotStartDateTime>2018-06-04T13:00:08.895+02:00</v3:timeSlotStartDateTime>
<v3:timeSlotEndDateTime>2018-06-04T17:00:08.895+02:00</v3:timeSlotEndDateTime>
<v3:outOfSaSla>true</v3:outOfSaSla>
<v3:rank>98</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>16</v3:timeSlotId>
  <v3:timeSlotSize>40</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-04T10:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>false</v3:outOfSaSla>
  <v3:rank>63</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>17</v3:timeSlotId>
  <v3:timeSlotSize>40</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-04T10:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-04T12:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>false</v3:outOfSaSla>
  <v3:rank>88</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>18</v3:timeSlotId>
  <v3:timeSlotSize>40</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-04T13:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-04T15:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>false</v3:outOfSaSla>
  <v3:rank>22</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>20</v3:timeSlotId>
  <v3:timeSlotSize>10</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-05T08:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-05T17:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>true</v3:outOfSaSla>
  <v3:rank>34</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>21</v3:timeSlotId>
  <v3:timeSlotSize>30</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-05T08:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-05T12:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>true</v3:outOfSaSla>
  <v3:rank>6</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>23</v3:timeSlotId>
  <v3:timeSlotSize>40</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-05T08:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-05T10:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>true</v3:outOfSaSla>
  <v3:rank>6</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>24</v3:timeSlotId>
  <v3:timeSlotSize>40</v3:timeSlotSize>
  <v3:timeSlotStartDateTime>2018-06-05T10:00:08.895+02:00</v3:timeSlotStartDateTime>
  <v3:timeSlotEndDateTime>2018-06-05T12:00:08.895+02:00</v3:timeSlotEndDateTime>
  <v3:outOfSaSla>true</v3:outOfSaSla>
  <v3:rank>43</v3:rank>
</v3:timeSlot>
<v3:timeSlot>
  <v3:timeSlotId>25</v3:timeSlotId>
```

```

        <v3:timeSlotSize>40</v3:timeSlotSize>
        <v3:timeSlotStartDateTime>2018-06-05T13:00:08.895+02:00</v3:timeSlotStartDateTime>
        <v3:timeSlotEndDateTime>2018-06-05T15:00:08.895+02:00</v3:timeSlotEndDateTime>
        <v3:outOfSaSla>true</v3:outOfSaSla>
        <v3:rank>40</v3:rank>
    </v3:timeSlot>
    <v3:timeSlot>
        <v3:timeSlotId>29</v3:timeSlotId>
        <v3:timeSlotSize>30</v3:timeSlotSize>
        <v3:timeSlotStartDateTime>2018-06-06T13:00:08.956+02:00</v3:timeSlotStartDateTime>
        <v3:timeSlotEndDateTime>2018-06-06T17:00:08.956+02:00</v3:timeSlotEndDateTime>
        <v3:outOfSaSla>true</v3:outOfSaSla>
        <v3:rank>91</v3:rank>
    </v3:timeSlot>
    <v3:timeSlot>
        <v3:timeSlotId>31</v3:timeSlotId>
        <v3:timeSlotSize>40</v3:timeSlotSize>
        <v3:timeSlotStartDateTime>2018-06-06T10:00:08.956+02:00</v3:timeSlotStartDateTime>
        <v3:timeSlotEndDateTime>2018-06-06T12:00:08.956+02:00</v3:timeSlotEndDateTime>
        <v3:outOfSaSla>true</v3:outOfSaSla>
        <v3:rank>26</v3:rank>
    </v3:timeSlot>
    <v3:timeSlot>
        <v3:timeSlotId>32</v3:timeSlotId>
        <v3:timeSlotSize>40</v3:timeSlotSize>
        <v3:timeSlotStartDateTime>2018-06-06T13:00:08.956+02:00</v3:timeSlotStartDateTime>
        <v3:timeSlotEndDateTime>2018-06-06T15:00:08.956+02:00</v3:timeSlotEndDateTime>
        <v3:outOfSaSla>true</v3:outOfSaSla>
        <v3:rank>36</v3:rank>
    </v3:timeSlot>
</v3:response>
</v3:getAvailableTimeSlotsResponse>
</soapenv:Body>
</soapenv:Envelope>

```

5.3.2 Book Appointment

5.3.2.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
  <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>${Header.Username}</wsse:Username>
        <wsse:Password>${Header.Password}</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v3:bookAppointment>
      <v3:request correlationId="BookAppointment WS Tutorial">
        <v3:ispId>777710</v3:ispId>
        <v3:bookingSessionId>000135111489839</v3:bookingSessionId>
        <v3:timeSlot>
          <v3:timeSlotId>13</v3:timeSlotId>
          <v3:timeSlotSize>10</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T17:00:08.895+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>true</v3:outOfSaSla>
          <v3:rank>29</v3:rank>
        </v3:timeSlot>
        <v3:outOfSaSlaReason>Customer</v3:outOfSaSlaReason>
      </v3:request>
    </v3:bookAppointment>
  </soapenv:Body>
</soapenv:Envelope>

```

```
</v3:bookAppointment>
</soapenv:Body>
</soapenv:Envelope>
```

5.3.2.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v3:bookAppointmentResponse xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
      <v3:response correlationId="BookAppointement WS Tutorial">
        <v3:success>true</v3:success>
        <v3:appointment>
          <v3:appointmentId>82907</v3:appointmentId>
          <v3:timeSlotStartTime>2018-06-04T08:00:08.895+02:00</v3:timeSlotStartTime>
          <v3:timeSlotEndTime>2018-06-04T17:00:08.895+02:00</v3:timeSlotEndTime>
        </v3:appointment>
      </v3:response>
    </v3:bookAppointmentResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

5.3.2.3 GUI

Book Appointment

Fri, 01/06/2018	Sat, 02/06/2018	Sun, 03/06/2018	Mon, 04/06/2018				Tue, 05/06/2018		
			08:00-10:00	10:00-12:00	13:00-15:00	15:00-17:00	10:00-12:00	13:00-15:00	15:00-17:00
			08:00-12:00		13:00-17:00		08:00-12:00		
			08:00-17:00						

Level Of Supp: Standard
Time Slot: 04/06/2018 13:00-17:00
Out of SLA: No
Out Of Sa Sla Reason: Customer

From: 

5.3.3 Get Available Timeslots with Appointment

5.3.3.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
  <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>${Header.Username}</wsse:Username>
        <wsse:Password>${Header.Password}</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security></soapenv:Header>
  <soapenv:Body>
    <v3:getAvailableTimeSlots>
      <v3:request correlationId="GetAvailableTimeSlots with App WS Tutorial">
        <v3:ispId>777710</v3:ispId>
      </v3:request>
    </v3:getAvailableTimeSlots>
  </soapenv:Body>
</soapenv:Envelope>
```



```

        <v3:appointmentIdOld>82907</v3:appointmentIdOld>
        <v3:fromDateTime>2018-06-02T00:00:00.000</v3:fromDateTime>
      </v3:request>
    </v3:getAvailableTimeSlots>
  </soapenv:Body>
</soapenv:Envelope>

```

5.3.3.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  <soapenv:Body>
    <v3:getAvailableTimeSlotsResponse xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
      <v3:response correlationId="GetAvailableTimeSlots with App WS Tutorial">
        <v3:success>true</v3:success>
        <v3:bookingSessionId>000135111530337</v3:bookingSessionId>
        <v3:timeSlot>
          <v3:timeSlotId>13</v3:timeSlotId>
          <v3:timeSlotSize>10</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T08:00:33.366+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T17:00:33.366+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>true</v3:outOfSaSla>
          <v3:rank>99</v3:rank>
        </v3:timeSlot>
        <v3:timeSlot>
          <v3:timeSlotId>15</v3:timeSlotId>
          <v3:timeSlotSize>30</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T13:00:33.366+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T17:00:33.366+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>true</v3:outOfSaSla>
          <v3:rank>92</v3:rank>
        </v3:timeSlot>
      ...
    </v3:response>
  </v3:getAvailableTimeSlotsResponse>
</soapenv:Body>
</soapenv:Envelope>

```

5.3.4 Reschedule Appointment

5.3.4.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
  <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>${Header.Username}</wsse:Username>
        <wsse:Password>${Header.Password}</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <v3:rescheduleAppointment>
      <v3:request correlationId="reschedule WSG Tutorial">
        <v3:ispId>777710</v3:ispId>
        <v3:bookingSessionId>000135111530337</v3:bookingSessionId>
        <v3:timeSlot>
          <v3:timeSlotId>15</v3:timeSlotId>
          <v3:timeSlotSize>30</v3:timeSlotSize>
          <v3:timeSlotStartDateTime>2018-06-04T13:00:33.366+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T17:00:33.366+02:00</v3:timeSlotEndDateTime>
          <v3:outOfSaSla>true</v3:outOfSaSla>
          <v3:rank>92</v3:rank>
        </v3:timeSlot>
      </v3:request>
    </v3:rescheduleAppointment>
  </soapenv:Body>
</soapenv:Envelope>

```

```

        <v3:outOfSaSlaReason>Swisscom</v3:outOfSaSlaReason>
        <v3:appointmentIdOld>82907</v3:appointmentIdOld>
      </v3:request>
    </v3:rescheduleAppointment>
  </soapenv:Body>
</soapenv:Envelope>

```

5.3.4.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v3:bookAppointmentResponse xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
      <v3:response correlationId="reschedule WSG Tutorial">
        <v3:success>true</v3:success>
        <v3:appointment>
          <v3:appointmentId>386</v3:appointmentId>
          <v3:timeSlotStartDateTime>2018-06-04T13:00:33.366+02:00</v3:timeSlotStartDateTime>
          <v3:timeSlotEndDateTime>2018-06-04T17:00:33.366+02:00</v3:timeSlotEndDateTime>
        </v3:appointment>
      </v3:response>
    </v3:bookAppointmentResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

5.3.5 Cancel Appointment

5.3.5.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
  <soapenv:Header/>
  <soapenv:Body>
    <v3:cancelAppointment>
      <v3:request correlationId="cancelAppointmentRequest WS Tutorial">
        <v3:ispId>777710</v3:ispId>
        <v3:appointmentId>386</v3:appointmentId>
      </v3:request>
    </v3:cancelAppointment>
  </soapenv:Body>
</soapenv:Envelope>

```

5.3.5.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <v3:cancelAppointmentResponse xmlns:v3="http://www.swisscom.com/wsg/appBook/v3">
      <v3:response correlationId="cancelAppointmentRequest WS Tutorial">
        <v3:success>true</v3:success>
      </v3:response>
    </v3:cancelAppointmentResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

5.4 Creation of a Trouble Ticket

If an existing BBCS subscription does not work (any more) a trouble ticket can be submitted as shown in the following example.

5.4.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
  <soapenv:Header/>
  <soapenv:Body>
    <v34:createTroubleTicket>

```

```

<v34:request correlationId="createTroubleTicket">
  <v34:ispId>777710</v34:ispId>
  <v34:ispTtRef>WS TEST 1</v34:ispTtRef>
  <v34:ispPhoneNr>0584443593</v34:ispPhoneNr>
  <v34:endUser>
    <v34:street>Schorenstrasse</v34:street>
    <v34:houseNr>68e</v34:houseNr>
    <v34:building>1a</v34:building>
    <v34:zip>3000</v34:zip>
    <v34:city>Bern</v34:city>
    <v34:endUserName>EndUserName</v34:endUserName>
    <v34:endUserLogin>REndUserLogin</v34:endUserLogin>
    <v34:endUserPhoneNr>0794140424</v34:endUserPhoneNr>
  </v34:endUser>
  <v34:contactInfo>
    <v34:firstName>Hans</v34:firstName>
    <v34:lastName>Meier</v34:lastName>
    <v34:phoneNr>0313220133</v34:phoneNr>
    <v34:notificationType>2</v34:notificationType>
    <v34:notificationAddress>0786001221</v34:notificationAddress>
  </v34:contactInfo>
  <v34:dnVnNsn>0108542092</v34:dnVnNsn>
  <v34:dnType>13</v34:dnType>
  <v34:bbType>2</v34:bbType>
  <v34:stnrDdi/>
  <v34:problemDescription>any Problem with somewhat reason</v34:problemDescription>
  <v34:problemDateTime>2009-09-01T09:30:47.0+02:00</v34:problemDateTime>
  <v34:lastLoginDateTime>2009-09-01T08:30:47.0+02:00</v34:lastLoginDateTime>
  <v34:comment>any comment</v34:comment>
  <v34:serviceProblem>
    <v34:contrEleId>100</v34:contrEleId>
    <v34:serviceSpeedProfileNr>248</v34:serviceSpeedProfileNr>
    <v34:bbcsEquipment>Equipment</v34:bbcsEquipment>
    <v34:errorCategory>541</v34:errorCategory>
  </v34:serviceProblem>
  <v34:endUserNotificationType>Email</v34:endUserNotificationType>
  <v34:endUserNotificationAddress>WS_TEST_Notif_Addr</v34:endUserNotificationAddress>
  <v34:ispApplicationId>100900</v34:ispApplicationId>
  <v34:ispApplicationEntityId/>
  <v34:measuredIspValues>Measurements ISP</v34:measuredIspValues>
  <v34:saSlaRequested>1</v34:saSlaRequested>
</v34:request>
</v34:createTroubleTicket>
</soapenv:Body>
</soapenv:Envelope>

```


5.4.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <v34:createTroubleTicketResponse xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
      <v34:response correlationId="">
        <v34:success>true</v34:success>
        <v34:operationLogId>432688474</v34:operationLogId>
        <v34:ttIdWsg>2447600</v34:ttIdWsg>
        <v34:ttState>1</v34:ttState>
        <v34:dnType>13</v34:dnType>
        <v34:bbType>2</v34:bbType>
      </v34:response>
    </v34:createTroubleTicketResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

5.4.3 GUI

Access Trouble Ticket Detail

Main | **xDSL Info** | **Response** | **CPE Info** | **Billing**

Ticket Header Ticket ID 2447601 Ticket ID Sys SIM1232447601 Entered 12/07/2017 13:11 Closed 22/03/2010 11:11 Last modified 12/07/2017 13:12 by Pol TT State CLOSED Suspended No		DN Info DN / VN / NSN 0108542092 DN / VN / NSN (Requested) 0108542092		ISP ISP 777710 Testaccount WSG Team ISP phone 0584443593 ISP ticket ref. WS_TEST_1 ISP Application ID 100900 ISP Application Entity ID -	
SLA Contr Element Best Effort SA SLA Intermediate SA SLA (Requested) - SA SLA (Calculated) Intermediate SA SLA Overruled No		Current Endpoint DN Office 64BOL BB Device Location BOL Site BOL Site Category RUS DSLAM Name IPC-HIR710-S-DM-11 Dslam Type CAN Available Technology Type VDSL Vectoring		End User End User Login REndUserLogin End User Name EndUserName End User Phone 0794140424 End User Company - End User Street/Nr Schorenstrasse 68e Building 1a End User ZIP/City 3000 Bern	
Checklist Problem Date/Time 01/09/2009 09:30 Last successful login 01/09/2009 08:30 TT Error Category 541 - No Signal		Connection BBCS connection type Netservices number BB Type VDSL BB ADSL Emulated No Speed Profile Nr max 2M down / 400k up Service Profile (Requested) max 2M down / 400k up Op Status Open Pipe Measure Technology Type VDSL2 Vectorized No Reason of Potential -		Contact Info Contact Person First Name Hans Contact Person Last Name Meier Contact Person Phone 0313220133 Contact Notification Type SMS Contact Notification EMail/SMS-Nr im Haus	
		Fiber Info OTO Id - OTO Plug Nr - OTO Partner Label - BEP Site Category -		Site Development Fully Developed - Nr of Utilisation Units - Nr of Basic Connectivities -	
Problem description any Problem with somewhat reason					
Comment any comment					
Measured ISP Values Measurements ISP					

5.4.4 Trouble Ticket Detail

If, at any stage of the processing, the data retrieved via the Notification Service is not sufficient, then all the data of order can be retrieved by using the “getDetailBbcsTroubleTicket” operation of the Web service.

Get Detail shows an example of the data that can be retrieved.

5.4.5 Notifications

During the whole processing, the trouble tickets can be tracked by retrieving notifications from the Notification Service.

See 8 Appendix B: Notifications created for “Assurance (BBCS Trouble Ticket)” shows all notifications produced during the processing of the TT above

5.4.6 Trouble Ticket Types and Restrictions

- For BBCS copper lines, a trouble ticket is only possible on one of the implemented services ("BestEffort", "Streaming" or "RealTime"); you cannot create a trouble ticket for a BBCS base Contract Element.
- For BBCS fiber lines a trouble ticket is only possible on one of the implemented services ("BestEffort on Fiber")
- For ULL lines ("Full-Access" or "Full-Access Subloop") a trouble ticket can be created on this service itself

5.5 Get Detail

5.5.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v31="http://www.swisscom.com/wsg/tt/v31">
  <soapenv:Header/>
  <soapenv:Body>
    <v31:getDetailTroubleTicket>
      <v31:request correlationId="getDetailTroubleTicket">
        <v31:ispId>777710</v31:ispId>
        <v31:ttIdWsg>2447601</v31:ttIdWsg>
      </v31:request>
    </v31:getDetailTroubleTicket>
  </soapenv:Body>
</soapenv:Envelope>
```

5.5.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v31="http://www.swisscom.com/wsg/tt/v31">
  <soapenv:Body>
    <v31:getDetailTroubleTicketResponse xmlns:v31="http://www.swisscom.com/wsg/tt/v31">
      <v31:response>
        <v31:success>true</v31:success>
        <v31:ticket>
          <v31:ttState>3</v31:ttState>
          <v31:entryDateTime>2018-02-06T16:32:49.000+01:00</v31:entryDateTime>
          <v31:lastModifiedDateTime>2018-02-06T16:32:49.000+01:00</v31:lastModifiedDateTime>
          <v31:lastModifiedUsername>Batch</v31:lastModifiedUsername>
          <v31:problemDescription>any Problem with somewhat reason</v31:problemDescription>
          <v31:billingAction>1</v31:billingAction>
          <v31:ttIdWsg>2447601</v31:ttIdWsg>
          <v31:ispTtRef>WS TEST 1</v31:ispTtRef>
          <v31:ispId>777710</v31:ispId>
          <v31:ispName>Testaccount WSG Team</v31:ispName>
        </v31:ticket>
      </v31:response>
    </v31:getDetailTroubleTicketResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<v31:ispPhoneNr>0584443593</v31:ispPhoneNr>
<v31:comment>any comment</v31:comment>
<v31:contrEleId>100</v31:contrEleId>
<v31:errorCategory>541</v31:errorCategory>
<v31:problemDateTime>2009-09-01T09:30:00.000+02:00</v31:problemDateTime>
<v31:endUser>
  <v31:street>Schorenstrasse</v31:street>
  <v31:houseNr>68e</v31:houseNr>
  <v31:building>1a</v31:building>
  <v31:zip>3000</v31:zip>
  <v31:city>Bern</v31:city>
  <v31:endUserName>EndUserName</v31:endUserName>
  <v31:endUserLogin>REndUserLogin</v31:endUserLogin>
  <v31:endUserPhoneNr>0794140424</v31:endUserPhoneNr>
</v31:endUser>
<v31:contactInfo>
  <v31:firstName>Hans</v31:firstName>
  <v31:lastName>Meier</v31:lastName>
  <v31:phoneNr>0313220133</v31:phoneNr>
  <v31:language>de</v31:language>
  <v31:notificationType>2</v31:notificationType>
  <v31:notificationAddress>078 600 21 22</v31:notificationAddress>
  <v31:preferredContactType>1</v31:preferredContactType>
</v31:contactInfo>
<v31:dnVnNsn>0108542092</v31:dnVnNsn>
<v31:dnVnNsnReq>0108542092</v31:dnVnNsnReq>
<v31:dnType>13</v31:dnType>
<v31:bbType>2</v31:bbType>
<v31:serviceSpeedProfileNr>248</v31:serviceSpeedProfileNr>
<v31:serviceSpeedProfileNrReq>248</v31:serviceSpeedProfileNrReq>
<v31:stnrDdi>stnrDdi</v31:stnrDdi>
<v31:cableBox>
  <v31:boardNr>10000</v31:boardNr>
  <v31:switchingPlaceNr>1</v31:switchingPlaceNr>
  <v31:contactType>1</v31:contactType>
  <v31:contactNr>1</v31:contactNr>
</v31:cableBox>
<v31:lastLoginDateTime>2009-09-01T08:30:00.000+02:00</v31:lastLoginDateTime>
<v31:ttSaSla>4</v31:ttSaSla>
<v31:wsgSaSla>4</v31:wsgSaSla>
<v31:bbcsEquipment>Equipment</v31:bbcsEquipment>
<v31:suspended>>false</v31:suspended>
<v31:nrOfWires>2</v31:nrOfWires>
<v31:lineMeasurementData>
  <v31:noiseMarginUp>11.1</v31:noiseMarginUp>
  <v31:noiseMarginDown>14</v31:noiseMarginDown>
  <v31:actualBitrateUp>16504</v31:actualBitrateUp>
  <v31:actualBitrateDown>55040</v31:actualBitrateDown>
  <v31:attainableBitrateUp>23728</v31:attainableBitrateUp>
  <v31:attainableBitrateDown>16.8</v31:attainableBitrateDown>
  <v31:attenuationDown>14.8</v31:attenuationDown>
  <v31:nrSpontaneousResyncs>1</v31:nrSpontaneousResyncs>
  <v31:calculatedLineLength>862</v31:calculatedLineLength>
  <v31:correctionDbLineLength>872</v31:correctionDbLineLength>
  <v31:xdslLineState>up</v31:xdslLineState>
  <v31:lastStatusChange>1970-01-01T01:00:00.000+01:00</v31:lastStatusChange>
  <v31:icaResult>
    <v31:analysisDate>2016-03-15T14:46:15.000+01:00</v31:analysisDate>
    <v31:analysisDate24h>2016-03-10T14:46:15.000+01:00</v31:analysisDate24h>
    <v31:analysisState>6</v31:analysisState>
    <v31:analysisType>1</v31:analysisType>
    <v31:problemDetected>0</v31:problemDetected>
    <v31:potentialAttainBitrateDown>-1</v31:potentialAttainBitrateDown>
    <v31:potentialAttainBitrateUp>-1</v31:potentialAttainBitrateUp>
    <v31:potentialAccessProfileNr>0</v31:potentialAccessProfileNr>
```

```

<v31:accessSpeedGainDown>-1</v31:accessSpeedGainDown>
<v31:accessSpeedGainUp>-1</v31:accessSpeedGainUp>
<v31:accessProblemType>0</v31:accessProblemType>
<v31:bbrSocketInstalled>>false</v31:bbrSocketInstalled>
<v31:bbrSocketInstallationDate>1970-01-
01T02:00:00.000+01:00</v31:bbrSocketInstallationDate>
<v31:icaProblems>
  <v31:description>1</v31:description>
  <v31:descriptionText>BridgeTap</v31:descriptionText>
  <v31:confidence>90</v31:confidence>
  <v31:impact>reduced.attainable.rate.us.ds.quantified 6968 1528
kb/s</v31:impact>
  <v31:impactAttainBitrateDown>0</v31:impactAttainBitrateDown>
  <v31:impactAttainBitrateUp>0</v31:impactAttainBitrateUp>
</v31:icaProblems>
<v31:icaProblems>
  <v31:description>2</v31:description>
  <v31:descriptionText>Degraded Contact</v31:descriptionText>
  <v31:confidence>91</v31:confidence>
  <v31:impact>reduced.attainable.rate.us.ds.quantified 6968 1528
kb/s</v31:impact>
  <v31:impactAttainBitrateDown>0</v31:impactAttainBitrateDown>
  <v31:impactAttainBitrateUp>0</v31:impactAttainBitrateUp>
</v31:icaProblems>
</v31:icaResult>
</v31:lineMeasurementData>
<v31:opStatus>7</v31:opStatus>
<v31:ispApplicationId>100900</v31:ispApplicationId>
<v31:ispApplicationEntityId>WS TEST EntityId</v31:ispApplicationEntityId>
<v31:bbAdslEmulated>1</v31:bbAdslEmulated>
<v31:measuredIspValues>Measurements ISP</v31:measuredIspValues>
<v31:historyItem>
  <v31:ttState>1</v31:ttState>
  <v31:entryDateTime>2018-02-06T16:32:49.000+01:00</v31:entryDateTime>
  <v31:lastModifiedDateTime>2018-02-
06T16:32:49.000+01:00</v31:lastModifiedDateTime>
  <v31:lastModifiedUsername>HP Tester</v31:lastModifiedUsername>
  <v31:problemDescription>any Problem with somewhat
reason</v31:problemDescription>
  <v31:billingAction>1</v31:billingAction>
</v31:historyItem>
<v31:endPoint>
  <v31:dnOffice>64BOL</v31:dnOffice>
  <v31:site>BOL</v31:site>
  <v31:bbDeviceLocation>BOL</v31:bbDeviceLocation>
  <v31:siteCategory>6</v31:siteCategory>
  <v31:availableTechnologyTypes>
    <v31:technologyType>2</v31:technologyType>
  </v31:availableTechnologyTypes>
</v31:endPoint>
<v31:cpeInfo>
  <v31:cpeName>Motorola 7347-44 POTS rel.7.9</v31:cpeName>
</v31:cpeInfo>
  <v31:vectorized>>false</v31:vectorized>
  <v31:technologyType>1</v31:technologyType>
</v31:ticket>
</v31:response>
</v31:getDetailTroubleTicketResponse>
</soapenv:Body>
</soapenv:Envelope>

```

5.6 AccessProfile modification

You have the possibility to check the valid access Profiles for a defined line and to modify them.

5.6.1 getValidAccessProfiles

5.6.1.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
  <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>
    <v34:getValidAccessProfilesRequest>
      <v34:request correlationId="getValidAccessProfiles">
        <v34:ispId>777710</v34:ispId>
        <v34:dnVnNsn>0108542092</v34:dnVnNsn>
      </v34:request>
    </v34:getValidAccessProfilesRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

5.6.1.2 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <v34:getValidAccessProfilesResponse xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
      <v34:response correlationId="getValidAccessProfiles">
        <v34:success>true</v34:success>
        <v34:validAccessProfile>
          <v34:accessSpeedProfileNr>33</v34:accessSpeedProfileNr>
          <v34:psdClass>10</v34:psdClass>
          <v34:interleaveMode>3</v34:interleaveMode>
          <v34:bbType>2</v34:bbType>
          <v34:technologyType>1</v34:technologyType>
        </v34:validAccessProfile>
        <v34:validAccessProfile>
          <v34:accessSpeedProfileNr>33</v34:accessSpeedProfileNr>
          <v34:psdClass>20</v34:psdClass>
          <v34:interleaveMode>3</v34:interleaveMode>
          <v34:bbType>2</v34:bbType>
          <v34:technologyType>1</v34:technologyType>
        </v34:validAccessProfile>
        <v34:validAccessProfile>
          <v34:accessSpeedProfileNr>33</v34:accessSpeedProfileNr>
          <v34:psdClass>30</v34:psdClass>
          <v34:interleaveMode>3</v34:interleaveMode>
          <v34:bbType>2</v34:bbType>
          <v34:technologyType>1</v34:technologyType>
        </v34:validAccessProfile>
        <v34:validAccessProfile>
          <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
          <v34:psdClass>10</v34:psdClass>
          <v34:interleaveMode>2</v34:interleaveMode>
          <v34:bbType>2</v34:bbType>
          <v34:technologyType>1</v34:technologyType>
        </v34:validAccessProfile>
        <v34:validAccessProfile>
          <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
          <v34:psdClass>20</v34:psdClass>
          <v34:interleaveMode>2</v34:interleaveMode>
        </v34:validAccessProfile>
```

```

        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>30</v34:psdClass>
    <v34:interleaveMode>2</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>10</v34:psdClass>
    <v34:interleaveMode>3</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>20</v34:psdClass>
    <v34:interleaveMode>3</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>30</v34:psdClass>
    <v34:interleaveMode>3</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>10</v34:psdClass>
    <v34:interleaveMode>4</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>20</v34:psdClass>
    <v34:interleaveMode>4</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>30</v34:psdClass>
    <v34:interleaveMode>4</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>10</v34:psdClass>
    <v34:interleaveMode>5</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
    <v34:psdClass>20</v34:psdClass>
    <v34:interleaveMode>5</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>

```

```

</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
  <v34:psdClass>30</v34:psdClass>
  <v34:interleaveMode>5</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
  <v34:psdClass>10</v34:psdClass>
  <v34:interleaveMode>6</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
  <v34:psdClass>20</v34:psdClass>
  <v34:interleaveMode>6</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>34</v34:accessSpeedProfileNr>
  <v34:psdClass>30</v34:psdClass>
  <v34:interleaveMode>6</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
  <v34:psdClass>10</v34:psdClass>
  <v34:interleaveMode>2</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
  <v34:psdClass>20</v34:psdClass>
  <v34:interleaveMode>2</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
  <v34:psdClass>30</v34:psdClass>
  <v34:interleaveMode>2</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
  <v34:psdClass>10</v34:psdClass>
  <v34:interleaveMode>3</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
  <v34:psdClass>20</v34:psdClass>
  <v34:interleaveMode>3</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>

```



```

        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>4</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>4</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>4</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>5</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>5</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>5</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>6</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>6</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>158</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
    </v34:validAccessProfile>

```

```

        <v34:interleaveMode>6</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>2</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>2</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>2</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>5</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>168</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>5</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
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  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>187</v34:accessSpeedProfileNr>
  <v34:psdClass>10</v34:psdClass>
  <v34:interleaveMode>2</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>187</v34:accessSpeedProfileNr>
  <v34:psdClass>20</v34:psdClass>
  <v34:interleaveMode>2</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
<v34:validAccessProfile>
  <v34:accessSpeedProfileNr>187</v34:accessSpeedProfileNr>
  <v34:psdClass>30</v34:psdClass>
  <v34:interleaveMode>2</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
</v34:validAccessProfile>
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  <v34:accessSpeedProfileNr>187</v34:accessSpeedProfileNr>
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  <v34:interleaveMode>3</v34:interleaveMode>
  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
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```

```

        <v34:psdClass>20</v34:psdClass>
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        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>187</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>188</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
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        <v34:technologyType>1</v34:technologyType>
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    <v34:validAccessProfile>
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    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>188</v34:accessSpeedProfileNr>
        <v34:psdClass>30</v34:psdClass>
        <v34:interleaveMode>2</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>188</v34:accessSpeedProfileNr>
        <v34:psdClass>10</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>188</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
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        <v34:technologyType>1</v34:technologyType>
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    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>188</v34:accessSpeedProfileNr>
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    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>189</v34:accessSpeedProfileNr>
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        <v34:interleaveMode>2</v34:interleaveMode>

```

```

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    <v34:interleaveMode>2</v34:interleaveMode>
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    <v34:technologyType>1</v34:technologyType>
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    <v34:bbType>2</v34:bbType>
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    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>
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<v34:validAccessProfile>
    <v34:accessSpeedProfileNr>514</v34:accessSpeedProfileNr>
    <v34:psdClass>20</v34:psdClass>
    <v34:interleaveMode>2</v34:interleaveMode>
    <v34:bbType>2</v34:bbType>
    <v34:technologyType>1</v34:technologyType>

```

```
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  <v34:psdClass>10</v34:psdClass>
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  <v34:bbType>2</v34:bbType>
  <v34:technologyType>1</v34:technologyType>
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<v34:validAccessProfile>
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```



```

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        <v34:technologyType>1</v34:technologyType>
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    <v34:validAccessProfile>
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    <v34:validAccessProfile>
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        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
    </v34:validAccessProfile>
    <v34:validAccessProfile>
        <v34:accessSpeedProfileNr>516</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
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        <v34:technologyType>1</v34:technologyType>
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    <v34:validAccessProfile>
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        <v34:psdClass>30</v34:psdClass>

```



```

        <v34:interleaveMode>2</v34:interleaveMode>
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        <v34:technologyType>1</v34:technologyType>
      </v34:validAccessProfile>
    </v34:response>
  </v34:getValidAccessProfilesResponse>
</soapenv:Body>
</soapenv:Envelope>

```

5.6.2 modifyAccessProfile

5.6.2.1 Request

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
  <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>
    <v34:modifyAccessProfileRequest>
      <v34:request correlationId="anyCorrelation">
        <v34:ispId>777710</v34:ispId>
        <v34:dnVnNsn>0108542092</v34:dnVnNsn>
        <v34:accessSpeedProfileNr>33</v34:accessSpeedProfileNr>
        <v34:psdClass>20</v34:psdClass>
        <v34:interleaveMode>3</v34:interleaveMode>
        <v34:bbType>2</v34:bbType>
        <v34:technologyType>1</v34:technologyType>
      </v34:request>
    </v34:modifyAccessProfileRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

5.6.2.2 Response

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <v34:modifyAccessProfileResponse xmlns:v34="http://www.swisscom.com/wsg/tt/v34">
      <v34:response correlationId="anyCorrelation">
        <v34:success>true</v34:success>
        <v34:operationLogId>432688964</v34:operationLogId>
        <v34:orderNr>77771020180531000083000000</v34:orderNr>
      </v34:response>
    </v34:modifyAccessProfileResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

6 Voice Messages

Voice Messages can be used to detect if a subscriber has to be modified because of change to its voice service. If for example the subscriber moves to a new location, the BBCS subscription has to be modified too. In this case WSG automatically creates the necessary orders based on the Voice Messages.

6.1 GUI

The following Screenshots show the notifications created for the Voice Messages and the resulting Orders:

Notification Maintenance

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Number Of Entries: 30

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	Notification ID	ISP ID	Object	Object Type	Initiator	Activator	Object State	Object Step	Event	Transaction Date/Time
Detail	16622066	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ACCEPTED	PONR	Order Notification	26.10.2010 13:32:00
Detail	16622065	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ACCEPTED	PONR	Order Notification	26.10.2010 13:32:00
Detail	16622064	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ACCEPTED	Order Confirmation	Order Notification	26.10.2010 13:28:00
Detail	16622063	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ACCEPTED	Order Confirmation	Order Notification	26.10.2010 13:27:00
Detail	16622062	777710	BBCS-Order	BBCS_DISCONNECT	SCS	Order	ACCEPTED		Classical Notification	26.10.2010 13:23:00
Detail	16622061	777710	BBCS-Order	BBCS_CREATE	SCS	Order	PROCESSING		Order Notification	26.10.2010 13:22:00
Detail	16622060	777710	BBCS-Order	BBCS_CREATE	SCS	Order	PROCESSING		Order Notification	26.10.2010 13:22:00
Detail	16622059	777710	BBCS-Order	BBCS_CREATE	SCS	Order	CHECKED		Order Notification	26.10.2010 13:22:00
Detail	16622058	777710	BBCS-Order	BBCS_CREATE	SCS	Order	CHECKED		Order Notification	26.10.2010 13:22:00
Detail	16622057	777710	BBCS-Order	BBCS_DISCONNECT	SCS	Order	PROCESSING		Order Notification	26.10.2010 13:22:00
Detail	16622056	777710	BBCS-Order	BBCS_DISCONNECT	SCS	Order	CHECKED		Order Notification	26.10.2010 13:21:00
Detail	16622055	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ENTERED		Order Notification	26.10.2010 13:20:00
Detail	16622054	777710	BBCS-Order	SRV_ADD	SCS	Order	HOLDING		Order Notification	26.10.2010 13:20:00
Detail	16622053	777710	BBCS-Order	SRV_ADD	SCS	Order	ENTERED		Order Notification	26.10.2010 13:19:00
Detail	16622052	777710	BBCS-Order	BBCS_DISCONNECT	SCS	Order	HOLDING		Order Notification	26.10.2010 13:19:00
Detail	16622051	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ENTERED		Order Notification	26.10.2010 13:19:00
Detail	16622050	777710	BBCS-Order	BBCS_DISCONNECT	SCS	Order	HOLDING		Order Notification	26.10.2010 13:19:00
Detail	16622049	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ENTERED		Order Notification	26.10.2010 13:19:00
Detail	16622048	777710	BBCS-Order	SRV_ADD	SCS	Order	HOLDING		Order Notification	26.10.2010 13:19:00
Detail	16622047	777710	BBCS-Order	SRV_ADD	SCS	Order	ENTERED		Order Notification	26.10.2010 13:18:00

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Notification Maintenance

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[Refresh](#)

Number Of Entries: 30

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

	Notification ID	ISP ID	Object	Object Type	Initiator	Activator	Object State	Object Step	Event	Transaction Date/Time
Detail	16622046	777710	BBCS-Order	BBCS_CREATE	SCS	Order	ENTERED		Order Notification	26.10.2010 13:18:00
Detail	16622045	777710	BBCS-Order	BBCS_DISCONNECT	SCS	Order	ENTERED		Order Notification	26.10.2010 13:18:00
Detail	16622044	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:18:37
Detail	16622043	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:18:37
Detail	16622042	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:18:37
Detail	16622041	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:17:41
Detail	16622040	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:17:41
Detail	16622039	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:17:40
Detail	16622038	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:17:40
Detail	16622037	777710	Voice Business	GV03	SCS	Voice Business			Classical Notification	26.10.2010 13:17:40

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

6.2 Notifications

During the whole processing, the voice messages and orders can be tracked by retrieving notifications from the Notification Service.

7 Appendix A: Notifications created for order

7.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <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>
    <v20:getNotification xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:request>
        <v20:ispId>777710</v20:ispId>
        <v20:object>1</v20:object>
        <v20:notificationIdFrom>137743972</v20:notificationIdFrom>
      </v20:request>
    </v20:getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

7.2 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>
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return</v20:reasonComment>
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        <v20:coordinateY>266730</v20:coordinateY>
    </v20:cableBox>
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return</v20:reasonComment>
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        <v20:orderType>1</v20:orderType>
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        <v20:estimatedDueDateStart>2017-05-
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    <v20:customerOrderNr>77771020170522000033000000</v20:customerOrderNr>
    <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
    <v20:cableBox>
      <v20:boardNr>19</v20:boardNr>
      <v20:switchingPlaceNr>0</v20:switchingPlaceNr>
      <v20:contactType>5</v20:contactType>
      <v20:contactNr>11</v20:contactNr>
      <v20:coordinateX>694135</v20:coordinateX>
      <v20:coordinateY>266730</v20:coordinateY>
    </v20:cableBox>
    <v20:nrofWires>2</v20:nrofWires>
    <v20:dslamName>IPC-HIR710-S-DM-11</v20:dslamName>
    <v20:bbLogPortNr>ADSL-4-3-2-17</v20:bbLogPortNr>
    <v20:endPoint>
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      <v20:accessNet>BOL</v20:accessNet>
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      <v20:site>BOLQ</v20:site>
    </v20:endPoint>
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    <v20:networkType>3</v20:networkType>
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  <v20:objectType>1</v20:objectType>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>6</v20:objectState>
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    <v20:speedProfileNrAccess>170</v20:speedProfileNrAccess>
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return</v20:reasonComment>
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    <v20:orderType>1</v20:orderType>
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    <v20:estimatedDueDateEnd>2017-05-
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    <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
    <v20:cableBox>
      <v20:boardNr>19</v20:boardNr>
      <v20:switchingPlaceNr>0</v20:switchingPlaceNr>
      <v20:contactType>5</v20:contactType>
      <v20:contactNr>11</v20:contactNr>
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      <v20:coordinateY>266730</v20:coordinateY>

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            <v20:accessNet>BOL</v20:accessNet>
            <v20:bbDeviceLocation>DELOC</v20:bbDeviceLocation>
            <v20:site>BOLQ</v20:site>
        </v20:endPoint>
        <v20:psdClass>20</v20:psdClass>
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    </v20:bbcsOrder>
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    <v20:objectType>1</v20:objectType>
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    <v20:activator>1</v20:activator>
    <v20:objectState>6</v20:objectState>
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return</v20:reasonComment>
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        <v20:estimatedDueDateEnd>2017-05-
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        <v20:dnType>13</v20:dnType>
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        <v20:opStatus>7</v20:opStatus>
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            <v20:switchingPlaceNr>0</v20:switchingPlaceNr>
            <v20:contactType>5</v20:contactType>
            <v20:contactNr>11</v20:contactNr>
            <v20:coordinateX>694135</v20:coordinateX>
            <v20:coordinateY>266730</v20:coordinateY>
        </v20:cableBox>
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        <v20:bbLogPortNr>ADSL-4-3-2-17</v20:bbLogPortNr>
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            <v20:bbDeviceLocation>DELOC</v20:bbDeviceLocation>
            <v20:site>BOLQ</v20:site>
        </v20:endPoint>
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  <v20:activator>1</v20:activator>
  <v20:objectState>7</v20:objectState>
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return</v20:reasonComment>
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    <v20:bbLogPortNr>ADSL-4-3-2-17</v20:bbLogPortNr>
    <v20:endPoint>
      <v20:taxRegion>64</v20:taxRegion>
      <v20:accessNet>BOL</v20:accessNet>
      <v20:bbDeviceLocation>DELOC</v20:bbDeviceLocation>
      <v20:site>BOLQ</v20:site>
    </v20:endPoint>
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    <v20:networkType>3</v20:networkType>
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  <v20:activator>1</v20:activator>
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return</v20:reasonComment>
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            <v20:contactNr>11</v20:contactNr>
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            <v20:coordinateY>266730</v20:coordinateY>
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        <v20:endPoint>
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            <v20:accessNet>BOL</v20:accessNet>
            <v20:bbDeviceLocation>DELOC</v20:bbDeviceLocation>
            <v20:site>BOLQ</v20:site>
        </v20:endPoint>
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    <v20:objectType>1</v20:objectType>
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    <v20:activator>1</v20:activator>
    <v20:objectState>13</v20:objectState>
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        <v20:opStatus>7</v20:opStatus>
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      <v20:contactNr>11</v20:contactNr>
      <v20:coordinateX>694135</v20:coordinateX>
      <v20:coordinateY>266730</v20:coordinateY>
    </v20:cableBox>
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    <v20:endPoint>
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      <v20:accessNet>BOL</v20:accessNet>
      <v20:bbDeviceLocation>DELOC</v20:bbDeviceLocation>
      <v20:site>BOLQ</v20:site>
    </v20:endPoint>
    <v20:psdClass>20</v20:psdClass>
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  </v20:bbcsOrder>
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  <v20:activator>1</v20:activator>
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  <v20:bbcsOrder>
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        <v20:estimatedDueDateEnd>2017-05-
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available</v20:reasonComment>
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22T13:00:00.000+02:00</v20:estimatedDueDateEnd>
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        <v20:dnType>13</v20:dnType>
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        <v20:opStatus>2</v20:opStatus>
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        <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
        <v20:psdClass>20</v20:psdClass>
        <v20:networkType>3</v20:networkType>
    </v20:bbcsOrder>
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    <v20:bbcsOrder>
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return</v20:reasonComment>
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    <v20:bbcsOrder>
        <v20:orderNr>77771020170522000048000000</v20:orderNr>
        <v20:dnVnNsn>0719875577</v20:dnVnNsn>
        <v20:extRef>extRef RegressionWs modify Type</v20:extRef>
        <v20:contrEleId>110</v20:contrEleId>
        <v20:orderType>2</v20:orderType>
        <v20:customerWishDate>2017-05-22+02:00</v20:customerWishDate>
        <v20:estimatedDueDateStart>2017-05-
22T13:00:00.000+02:00</v20:estimatedDueDateStart>
        <v20:estimatedDueDateEnd>2017-05-
22T15:00:00.000+02:00</v20:estimatedDueDateEnd>
        <v20:bbType>2</v20:bbType>
        <v20:customerOrderNr>77771020170522000049000000</v20:customerOrderNr>
        <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
    </v20:bbcsOrder>
</v20:notification>
<v20:notification>
    <v20:notificationId>137744042</v20:notificationId>
    <v20:notificationDateTime>2017-05-22T12:17:29.787+02:00</v20:notificationDateTime>
    <v20:notificationEvent>1</v20:notificationEvent>
    <v20:object>1</v20:object>
    <v20:objectType>13</v20:objectType>
    <v20:initiator>1</v20:initiator>

```



```

        <v20:activator>1</v20:activator>
        <v20:objectState>1</v20:objectState>
        <v20:bbcsOrder>
            <v20:orderNr>77771020170522000050000000</v20:orderNr>
            <v20:dnVnNsn>0719875577</v20:dnVnNsn>
            <v20:extRef>extRef RegressionSrvTst</v20:extRef>
            <v20:contrEleId>9</v20:contrEleId>
            <v20:orderType>13</v20:orderType>
            <v20:customerWishDate>2017-05-22+02:00</v20:customerWishDate>
            <v20:estimatedDueDateStart>2017-05-
22T13:00:00.000+02:00</v20:estimatedDueDateStart>
            <v20:estimatedDueDateEnd>2017-05-
22T15:00:00.000+02:00</v20:estimatedDueDateEnd>
            <v20:customerOrderNr>77771020170522000049000000</v20:customerOrderNr>
            <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
            <v20:speedProfileNr>0</v20:speedProfileNr>
        </v20:bbcsOrder>
    </v20:notification>
    <v20:notification>
        <v20:notificationId>137744043</v20:notificationId>
        <v20:notificationDateTime>2017-05-22T12:19:16.747+02:00</v20:notificationDateTime>
        <v20:notificationEvent>1</v20:notificationEvent>
        <v20:object>1</v20:object>
        <v20:objectType>2</v20:objectType>
        <v20:initiator>1</v20:initiator>
        <v20:activator>1</v20:activator>
        <v20:objectState>1</v20:objectState>
        <v20:bbcsOrder>
            <v20:orderNr>77771020170522000048000000</v20:orderNr>
            <v20:dnVnNsn>0719875577</v20:dnVnNsn>
            <v20:extRef>extRef RegressionWs modify Type</v20:extRef>
            <v20:contrEleId>110</v20:contrEleId>
            <v20:orderType>2</v20:orderType>
            <v20:customerWishDate>2017-05-22+02:00</v20:customerWishDate>
            <v20:estimatedDueDateStart>2017-05-
22T13:00:00.000+02:00</v20:estimatedDueDateStart>
            <v20:estimatedDueDateEnd>2017-05-
22T15:00:00.000+02:00</v20:estimatedDueDateEnd>
            <v20:bbType>2</v20:bbType>
            <v20:dnType>1</v20:dnType>
            <v20:opStatus>2</v20:opStatus>
            <v20:customerOrderNr>77771020170522000049000000</v20:customerOrderNr>
            <v20:accessSpeedChanged>1</v20:accessSpeedChanged>
            <v20:psdClass>20</v20:psdClass>
        </v20:bbcsOrder>
    </v20:notification>
</v20:response>
</v20:getNotificationResponse>
</soapenv:Body>
</soapenv:Envelope>

```

8 Appendix B: Notifications created for iso-8859-1

```

<?xml version="1.0" encoding="iso-8859-1"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <soapenv:Body>
        <v15:disconnectResponse xmlns:v15="http://www.swisscom.com/wsg/fa/v15">
            <v15:response correlationId="Regr Test Disconnect">
                <v15:success>true</v15:success>
                <v15:operationLogId>432709271</v15:operationLogId>
                <v15:orderNr>77771020180219000005000000</v15:orderNr>
            </v15:response>
        </v15:disconnectResponse>
    </soapenv:Body>

```


</soapenv:Envelope>

9 Appendix C: Notification created for trouble ticket

9.1 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <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>
    <v20:getNotification xmlns:v20="http://www.swisscom.com/wsg/notification/v20">
      <v20:request>
        <v20:ispId>777710</v20:ispId>
        <v20:object>3</v20:object>
        <v20:notificationIdFrom>137743972</v20:notificationIdFrom>
      </v20:request>
    </v20:getNotification>
  </soapenv:Body>
</soapenv:Envelope>
```

9.2 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>137744131</v20:notificationId>
          <v20:notificationDateTime>2017-07-12T13:26:16.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>1</v20:notificationEvent>
          <v20:object>3</v20:object>
          <v20:initiator>1</v20:initiator>
          <v20:activator>1</v20:activator>
          <v20:objectState>1</v20:objectState>
          <v20:ispApplicationId>100900</v20:ispApplicationId>
          <v20:bbcsAccessTt>
            <v20:ttIdWsg>2447602</v20:ttIdWsg>
            <v20:dnVnNsn>0108542092</v20:dnVnNsn>
            <v20:extRef>WS TEST 1</v20:extRef>
            <v20:saSlaRequested>1</v20:saSlaRequested>
            <v20:speedProfileNr>248</v20:speedProfileNr>
          </v20:bbcsAccessTt>
        </v20:notification>
        <v20:notification>
          <v20:notificationId>137744132</v20:notificationId>
          <v20:notificationDateTime>2017-07-12T13:26:16.000+02:00</v20:notificationDateTime>
          <v20:notificationEvent>1</v20:notificationEvent>
          <v20:object>3</v20:object>
          <v20:initiator>1</v20:initiator>
          <v20:activator>1</v20:activator>
          <v20:objectState>3</v20:objectState>
        </v20:notification>
      </v20:response>
    </v20:getNotificationResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<v20:ispApplicationId>100900</v20:ispApplicationId>
<v20:bbcsAccessTt>
  <v20:ttIdWsg>2447602</v20:ttIdWsg>
  <v20:dnVnNsn>0108542092</v20:dnVnNsn>
  <v20:extRef>WS_TEST_1</v20:extRef>
  <v20:saSla>4</v20:saSla>
  <v20:speedProfileNr>248</v20:speedProfileNr>
  <v20:effectiveSpeed>
    <v20:up>400</v20:up>
    <v20:down>2000</v20:down>
  </v20:effectiveSpeed>
</v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744133</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:18.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>4</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>
  <v20:bbcsAccessTt>
    <v20:ttIdWsg>2447602</v20:ttIdWsg>
    <v20:dnVnNsn>0108542092</v20:dnVnNsn>
    <v20:extRef>WS_TEST_1</v20:extRef>
    <v20:saSla>4</v20:saSla>
    <v20:speedProfileNr>248</v20:speedProfileNr>
    <v20:effectiveSpeed>
      <v20:up>400</v20:up>
      <v20:down>2000</v20:down>
    </v20:effectiveSpeed>
  </v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744134</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:18.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>4</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>
  <v20:bbcsAccessTt>
    <v20:ttIdWsg>2447602</v20:ttIdWsg>
    <v20:dnVnNsn>0108542092</v20:dnVnNsn>
    <v20:extRef>WS_TEST_1</v20:extRef>
    <v20:responseComment>Sent to TT system</v20:responseComment>
    <v20:saSla>4</v20:saSla>
    <v20:speedProfileNr>248</v20:speedProfileNr>
    <v20:effectiveSpeed>
      <v20:up>400</v20:up>
      <v20:down>2000</v20:down>
    </v20:effectiveSpeed>
  </v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744135</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:23.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>4</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>

```

```

<v20:bbcsAccessTt>
  <v20:ttIdWsg>2447602</v20:ttIdWsg>
  <v20:dnVnNsn>0108542092</v20:dnVnNsn>
  <v20:extRef>WS TEST 1</v20:extRef>
  <v20:responseComment>Received by TT system</v20:responseComment>
  <v20:saSla>4</v20:saSla>
  <v20:speedProfileNr>248</v20:speedProfileNr>
  <v20:effectiveSpeed>
    <v20:up>400</v20:up>
    <v20:down>2000</v20:down>
  </v20:effectiveSpeed>
</v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744136</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:23.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>5</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>
  <v20:bbcsAccessTt>
    <v20:ttIdWsg>2447602</v20:ttIdWsg>
    <v20:dnVnNsn>0108542092</v20:dnVnNsn>
    <v20:extRef>WS TEST 1</v20:extRef>
    <v20:responseComment>Processing by TT system</v20:responseComment>
    <v20:saSla>4</v20:saSla>
    <v20:speedProfileNr>248</v20:speedProfileNr>
    <v20:effectiveSpeed>
      <v20:up>400</v20:up>
      <v20:down>2000</v20:down>
    </v20:effectiveSpeed>
  </v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744137</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:23.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>5</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>
  <v20:bbcsAccessTt>
    <v20:ttIdWsg>2447602</v20:ttIdWsg>
    <v20:dnVnNsn>0108542092</v20:dnVnNsn>
    <v20:extRef>WS TEST 1</v20:extRef>
    <v20:progressCommentCode>60</v20:progressCommentCode>
    <v20:responseComment>dispatching</v20:responseComment>
    <v20:saSla>4</v20:saSla>
    <v20:speedProfileNr>248</v20:speedProfileNr>
    <v20:effectiveSpeed>
      <v20:up>400</v20:up>
      <v20:down>2000</v20:down>
    </v20:effectiveSpeed>
  </v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744138</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:24.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>

```

```

<v20:objectState>5</v20:objectState>
<v20:ispApplicationId>100900</v20:ispApplicationId>
<v20:bbcsAccessTt>
  <v20:ttIdWsg>2447602</v20:ttIdWsg>
  <v20:dnVnNsn>0108542092</v20:dnVnNsn>
  <v20:extRef>WS_TEST_1</v20:extRef>
  <v20:progressCommentCode>58</v20:progressCommentCode>
  <v20:responseComment>done</v20:responseComment>
  <v20:saSla>4</v20:saSla>
  <v20:speedProfileNr>248</v20:speedProfileNr>
  <v20:effectiveSpeed>
    <v20:up>400</v20:up>
    <v20:down>2000</v20:down>
  </v20:effectiveSpeed>
</v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744139</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:24.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>6</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>
  <v20:bbcsAccessTt>
    <v20:ttIdWsg>2447602</v20:ttIdWsg>
    <v20:dnVnNsn>0108542092</v20:dnVnNsn>
    <v20:extRef>WS_TEST_1</v20:extRef>
    <v20:progressCommentCode>64</v20:progressCommentCode>
    <v20:responseComment>closed confirmed</v20:responseComment>
    <v20:saSla>4</v20:saSla>
    <v20:speedProfileNr>248</v20:speedProfileNr>
    <v20:effectiveSpeed>
      <v20:up>400</v20:up>
      <v20:down>2000</v20:down>
    </v20:effectiveSpeed>
  </v20:bbcsAccessTt>
</v20:notification>
<v20:notification>
  <v20:notificationId>137744140</v20:notificationId>
  <v20:notificationDateTime>2017-07-12T13:26:24.000+02:00</v20:notificationDateTime>
  <v20:notificationEvent>1</v20:notificationEvent>
  <v20:object>3</v20:object>
  <v20:initiator>1</v20:initiator>
  <v20:activator>1</v20:activator>
  <v20:objectState>6</v20:objectState>
  <v20:ispApplicationId>100900</v20:ispApplicationId>
  <v20:bbcsAccessTt>
    <v20:ttIdWsg>2447602</v20:ttIdWsg>
    <v20:dnVnNsn>0108542092</v20:dnVnNsn>
    <v20:extRef>WS_TEST_1</v20:extRef>
    <v20:responseCommentCode>207</v20:responseCommentCode>
    <v20:responseComment>IP-Access Swisscom O.K.</v20:responseComment>
    <v20:saSla>4</v20:saSla>
    <v20:speedProfileNr>248</v20:speedProfileNr>
    <v20:effectiveSpeed>
      <v20:up>400</v20:up>
      <v20:down>2000</v20:down>
    </v20:effectiveSpeed>
  </v20:bbcsAccessTt>
</v20:notification>
</v20:response>
</v20:getNotificationResponse>
</soapenv:Body>

```

`</soapenv:Envelope>`