

**Broadband Connectivity Service (BBCS)  
Fulfillment Interface Specification**

|                  |                                        |
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**Checklist of changes**

| int.Version | Date       | Changed by   | Comments / nature of the change                                                                                                                                                                                                                                                                                                            |
|-------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30          | 21.02.2011 | HP           | Version WSG-8.3 / Mar11<br><ul style="list-style-type: none"> <li>- BB Schema update: <ul style="list-style-type: none"> <li>- ISP_CHANGE_DONOR order with new attributes;</li> <li>- some enumerations eliminated</li> </ul> </li> <li>- LoV Doc updated</li> </ul>                                                                       |
| 31          | 27.04.2011 | HP           | Version WSG-8.4 / Jun11<br><ul style="list-style-type: none"> <li>- BB Schema update: <ul style="list-style-type: none"> <li>- Ordertypes with new attributes;</li> </ul> </li> <li>- LoV Doc updated</li> </ul>                                                                                                                           |
| 32          | 20.10.2011 | HP           | Version WSG-8.6 / Nov11<br><ul style="list-style-type: none"> <li>- (SSH)Filetransfer description removed</li> <li>- BB Schema update: <ul style="list-style-type: none"> <li>- srvQualifType with new elements</li> <li>- plannedEndPoint new type</li> <li>- serviceOrderType with new elements</li> </ul> </li> </ul>                   |
| 33          | 26.03.2012 | Roland Staub | Version WSG-9.0 / Mai12<br><ul style="list-style-type: none"> <li>- BB Schema update: <ul style="list-style-type: none"> <li>- firstInHouse added for fiberQualifAnswer</li> </ul> </li> <li>- added termination, sessionType to customerOrderType</li> <li>- Added dslamName to element endPoint in method getSrvServiceStatus</li> </ul> |
| 34          | 17.09.2012 | Roland Staub | Version 9.2 / Oct12<br><ul style="list-style-type: none"> <li>- BB Schema update: <ul style="list-style-type: none"> <li>- Create/modify/get/cancel changeTicket</li> </ul> </li> <li>- getCpeReports</li> <li>- added cpeInfo in qualifAnswer, getServiceStatusResponseType</li> </ul>                                                    |
| 35          | 25.09.2012 | Roland Staub | Updated password policy in Chapter 7.5                                                                                                                                                                                                                                                                                                     |
| 36          | 24.04.2012 | Roland Staub | Version 9.4 / Mai13<br><ul style="list-style-type: none"> <li>-BB Schema update.</li> <li>-added Vectoring info</li> <li>-Added addtribute processWithLowPrio to all operations</li> <li>-reorganized endPoint (added instead of dnOffice, bbDeviceLocation, siteCategory in (qualifHistResponseResData)</li> </ul>                        |

|    |            |              |                                                                                    |
|----|------------|--------------|------------------------------------------------------------------------------------|
| 37 | 27.05.2013 | Roland Staub | Updated, hasFreecapacity was still present, but was deleted on interfacedefinition |
| 38 | 15.07.2013 | Roland Staub | Version 9.5 Aug13                                                                  |
| 39 | 15.07.2013 | Roland Staub | Version 9.6 Nov13                                                                  |
| 40 | 15.07.2013 | Roland Staub | Version 9.7 Feb14                                                                  |
| 41 | 25.04.2014 | Roland Staub | Version 9.8 Mai14                                                                  |
| 42 | 08.08.2014 | Roland Staub | Version 9.9 Mai14                                                                  |
| 43 | 21.01.2015 | Roland Staub | Version 9.11 März15                                                                |
| 44 | 19.05.2015 | Roland Staub | Version 9.12 June15                                                                |
| 45 | 14.10.2015 | Roland Staub | Version 9.12 November15                                                            |
| 46 | 15.01.2016 | Roland Staub | Version 9.15 Februar 15                                                            |
| 47 | 29.04.2016 | Roland Staub | Version 9.16 Mai 16                                                                |
| 48 | 28.09.2016 | Roland Staub | Version 9.18 Nov 16                                                                |
| 49 | 08.02.2016 | Roland Staub | Version 9.19 Mar 17                                                                |
| 50 | 17.05.2017 | Roland Staub | Version 17.06 June 17                                                              |
| 50 | 17.05.2017 | Roland Staub | Version 17.09 Sept 17                                                              |
| 52 | 18.09.2017 | Roland Staub | Version 17.10 Oct 17                                                               |

### Release

| int.Version | Date       | Released by           | Comments / nature of the change          |
|-------------|------------|-----------------------|------------------------------------------|
| 10          | 20.07.2007 | R. Seltmann           | Released for WSG-6.6 (June 2007)         |
| 17          | 06.12.2007 | R. Seltmann           | Released for BBCS Contract Version 12.21 |
| 18          | 11.12.2007 | R. Seltmann           | Released for BBCS Contract Version 12.3  |
| 19          | 12.02.2008 | R. Seltmann           | Released for BBCS Contract Version 12.4  |
| 20          | 21.04.2008 | R. Seltmann           | Released for BBCS Contract Version 13    |
| 21          | 20.10.2008 | R. Seltmann           | Released for BBCS Contract Version 13-2  |
| 22          | 26.02.2009 | R. Seltmann           | Released for BBCS Contract Version 13-3  |
| 23          | 26.10.2009 | R. Seltmann           | Released for BBCS Contract Version 13-31 |
| 24          | 03.03.2010 | R. Seltmann           | Released for BBCS Contract Version 13-31 |
| 25          | 17.03.2010 | Ch. Wäger             | Released for BBCS Contract Version 13-31 |
| 28          | 11.05.2010 | R. Seltmann           | Released for BBCS Contract Version 13-4  |
| 29          | 12.10.2010 | H. Künzi              | Released for WSG-8.2 (Nov 2010)          |
| 30          | 21.02.2011 | A. Studerus (iarope1) | Released for WSG-8.3 (Mar 2011)          |
| 31          | 03.05.2011 | H. Künzi              | Released for WSG-8.4 (Jun 2011)          |

|    |             |         |                                   |
|----|-------------|---------|-----------------------------------|
| 32 | 25.10.2011  | H.Künzi | Released for WSG-8.6 (Nov 2011)   |
| 33 | 27.03.2012  | H.Künzi | Released for WSG-9.0 (Mai 2012)   |
| 35 | 25.09.2012  | H.Künzi | Released for WSG-9.2 (Oct 2012)   |
| 36 | 14.05.2013  | H.Künzi | Released for WSG-9.4 (Mai 2013)   |
| 37 | 28.05.2013  | H.Künzi | Document update                   |
| 38 | 16.07..2013 | H.Künzi | Released for WSG-9.5 (Aug2013)    |
| 39 | 28.10.2013  | H.Künzi | Released for WSG-9.6 (Nov2013)    |
| 40 | 10.02.2014  | H.Künzi | Released for WSG-9.7 (Nov2014)    |
| 41 | 01.05.2014  | H.Künzi | Released for WSG-9.8 (Mai2014)    |
| 42 | 08.08.2014  | H.Künzi | Released for WSG-9.9 (Aug 2014)   |
| 43 | 17.02.2015  | H.Künzi | Released for WSG-9.11 (Mar 2015)  |
| 44 | 26.05.2015  | H.Künzi | Released for WSG-9.12 (June 2015) |
| 45 | 15.10.2015  | H.Künzi | Released for WSG-9.14 (Nov 2015)  |
| 46 | 20.01.2016  | H.Künzi | Released for WSG-9.15 (Feb 2016)  |
| 47 | 04.05.2016  | H.Künzi | Released for WSG-9.16 (Mai 2016)  |
| 48 | 31.10.2016  | H.Künzi | Released for WSG-9.18 (Nov 2016)  |
| 49 | 13.02.2017  | H.Künzi | Released for WSG-9.19 (Mar 2017)  |
| 50 | 22.05.2017  | H.Künzi | Released for WSGJun17 (Jun 2017)  |
| 52 | 26.09.2017  | H.Künzi | Released for WSG1710 (Oct2017)    |

## 1 Introduction

### 1.1 General

This document describes the business-to-business interface for broadband services of the WSG application: it contains detailed technical specification for the implementation of web service (using the SOAP protocol) processes to execute orders, tickets or information requests.

### 1.2 References

- [1] WSG Messages
- [2] B2B BB Assurance Interface Specification

- [3] ISP BBCS Fulfillment User Manual
- [4] B2B Speed Profiles
- [5] Actual interface definition **wsgBb\_v34.0.1.zip**
- [6] LOV document (LOV\_ID\_Definitions.XLS, included in the " Actual interface definition ZIP-file")

The actual documents are downloadable as PDF files from the WSG application.

The format of the file names is: <document-name>\_V<nn>.pdf

### **1.3 Document updates**

In case of changes of this interface Swisscom will provide the ISPs with the latest update of this document at least three weeks before the changes becomes effective.

## 2 Business Processes

### 2.1 Overview

This business processes provided by this interface are described by WSDL and XSD files. These files are packed in the ZIP-File

**wsgBb\_v34.0.1.zip [5]**

This ZIP-File contains:

- Readme.txt general information on this file (contents)
- ChangeLog.txt the details of the changes per released version (change-history).
- schema/\* the schema definition as well as the web-service definition
  - wsgBbOutbound.wsdl Web Service Definition for WSG Outbound (B2B Interface)
  - wsgLqsSaq.wsdl Web Service Definition for LQS Outbound (SAQ Interface)
- doc/
  - WsgWebOutbound.html a HTML-based documentation of the B2B Interface
  - ServiceAvailabilityQualification.html a HTML-based documentation of the SAQ Interface

How to use samples can be found in the B2B\_Web\_Service\_Tutorial.doc

The XML schemas are shared by two Web Service Definitions (WSDL):

- **wsgBbOutbound.wsdl**: Defines the B2B services. This services provides the The server implementation of this services is deployed on **WSG Outbound** (URL: <https://webservices.swisscom.com/wsg/prod/bb/WsgBbVxxx>)
- **wsgLqsSaq.wsdl**: Defines the Service Availability Services (SAQ) The SAQ provides a quick Qualification of a possible broadband connections. The SAQ gives a first overview. The server implementation of this services is deployed on **LQS Outbound** (URL: <https://webservices.swisscom.com/wsg/prod/lqs/LqsQualiVxxx>)

The following table provides an overview of the available business processes (operations) for B2B-Fulfillment and there deployment as web services:

| Business Process / Operation    | B2B Web Service | SAQ Web Service |
|---------------------------------|-----------------|-----------------|
| srvQualifByNumber               | <b>X</b>        | <b>X</b>        |
| srvQualifByAddress              | <b>X</b>        | <b>X</b>        |
| srvQualifByLlid                 | <b>X</b>        | <b>X</b>        |
| srvQualifByStartPoint           | <b>X</b>        | <b>X</b>        |
| srvQualifBySocket               | <b>X</b>        | <b>X</b>        |
| srvQualifByBindingId            | <b>X</b>        | <b>X</b>        |
| getQualifHistory                | <b>X</b>        |                 |
| srvQualifByLocationId           |                 | <b>X</b>        |
| getSrvStatus                    | <b>X</b>        |                 |
| createCustomerOrder             | <b>X</b>        |                 |
| getTransactionOverview          | <b>X</b>        |                 |
| getOrderDetail                  | <b>X</b>        |                 |
| getTdmMsgDetail                 | <b>X</b>        |                 |
| getOrderGroupNr                 | <b>X</b>        |                 |
| cancelPendingOrder              | <b>X</b>        |                 |
| getInstallationTicketDetail     | <b>X</b>        |                 |
| createInstallationTicket        | <b>X</b>        |                 |
| modifyPendingInstallationTicket | <b>X</b>        |                 |
| cancelPendingInstallationTicket | <b>X</b>        |                 |
| getBusinessLines                | <b>X</b>        |                 |
| createChangeTicket              | <b>X</b>        |                 |
| modifyPendingChangeTicket       | <b>X</b>        |                 |
| cancelPendingChangeTicket       | <b>X</b>        |                 |
| getChangeTicketOverview         | <b>X</b>        |                 |
| getChangeTicketDetail           | <b>X</b>        |                 |
| readPredecessor                 | <b>X</b>        |                 |
| addPredecessorEntity            | <b>X</b>        |                 |
| updatePredecessorEntity         | <b>X</b>        |                 |
| removePredecessorEntity         | <b>X</b>        |                 |

|                    |          |  |
|--------------------|----------|--|
| lookUpPredecessors | <b>X</b> |  |
|--------------------|----------|--|

### 3 Interface Descripton

Below is listed the generated documtentation with the highlighted changes. You can use the HTML documentation which is in the archive **[5]** in the doc directory for better browsing capabilities.

#### 3.1 Operations

##### 3.1.1 **srvQualifByNumber**

**Description:** *This operation returns service qualification and resource availability statements for a given request by number.*

| Input message                            | Output message                            |
|------------------------------------------|-------------------------------------------|
| <a href="#">srvQualifByNumberRequest</a> | <a href="#">srvQualifByNumberResponse</a> |

[Top](#)

##### 3.1.2 **srvQualifByAddress**

**Description:** *This operation returns service qualification and resource availability statements for a given request by addres.*

| Input message                             | Output message                             |
|-------------------------------------------|--------------------------------------------|
| <a href="#">srvQualifByAddressRequest</a> | <a href="#">srvQualifByAddressResponse</a> |

[Top](#)

##### 3.1.3 **srvQualifByLlid**

**Description:** *This operation returns service qualification and resource availability statements for a given request by LLID.*

| Input message                          | Output message                          |
|----------------------------------------|-----------------------------------------|
| <a href="#">srvQualifByLlidRequest</a> | <a href="#">srvQualifByLlidResponse</a> |

[Top](#)

##### 3.1.4 **srvQualifByStartPoint**

**Description:** *This operation returns service qualification and resource availability statements for a given request by Start Point.*

| Input message                                | Output message                                |
|----------------------------------------------|-----------------------------------------------|
| <a href="#">srvQualifByStartPointRequest</a> | <a href="#">srvQualifByStartPointResponse</a> |

[Top](#)

##### 3.1.5 **srvQualifBySocket**

**Description:** *This operation returns service qualification and resource availability statements for a given request by Socket ID or Cooperation ID.*

| Input message                            | Output message                            |
|------------------------------------------|-------------------------------------------|
| <a href="#">srvQualifBySocketRequest</a> | <a href="#">srvQualifBySocketResponse</a> |

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### 3.1.6 **srvQualifByBindingId**

**Description:** This operation returns service qualification and resource availability statements for a given request by bindingId.

| Input message                               | Output message                               |
|---------------------------------------------|----------------------------------------------|
| <a href="#">srvQualifByBindingIdRequest</a> | <a href="#">srvQualifByBindingIdResponse</a> |

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### 3.1.7 **getSrvStatus**

**Description:** Obtain status information on a currently installed product or service.

| Input message                       | Output message                       |
|-------------------------------------|--------------------------------------|
| <a href="#">getSrvStatusRequest</a> | <a href="#">getSrvStatusResponse</a> |

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### 3.1.8 **getTransactionOverview**

**Description:** Create a transaction overview over the various WSG transactions overtime.

| Input message                                 | Output message                                 |
|-----------------------------------------------|------------------------------------------------|
| <a href="#">getTransactionOverviewRequest</a> | <a href="#">getTransactionOverviewResponse</a> |

[Top](#)

### 3.1.9 **getOrderDetail**

**Description:** Lookup an order in the WSG DB.

| Input message                         | Output message                         |
|---------------------------------------|----------------------------------------|
| <a href="#">getOrderDetailRequest</a> | <a href="#">getOrderDetailResponse</a> |

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### 3.1.10 **getInstallationTicketDetail**

**Description:** Lookup an installation ticket in the WSG DB.

| Input message                                      | Output message                                      |
|----------------------------------------------------|-----------------------------------------------------|
| <a href="#">getInstallationTicketDetailRequest</a> | <a href="#">getInstallationTicketDetailResponse</a> |

[Top](#)

### 3.1.11 **getTdmMsgDetail**

**Description:** Lookup a (APV) voice message in the WSG DB.

| Input message                          | Output message                          |
|----------------------------------------|-----------------------------------------|
| <a href="#">getTdmMsgDetailRequest</a> | <a href="#">getTdmMsgDetailResponse</a> |

[Top](#)

### 3.1.12 **getOrderGroupNr**

**Description:** Fetch a new ORDER\_GROUP\_NR from the WSG DB.

| Input message                          | Output message                          |
|----------------------------------------|-----------------------------------------|
| <a href="#">getOrderGroupNrRequest</a> | <a href="#">getOrderGroupNrResponse</a> |

[Top](#)

### 3.1.13 getQualifHistory

**Description:** get the qualificaiton history

| Input message                           | Output message                           |
|-----------------------------------------|------------------------------------------|
| <a href="#">getQualifHistoryRequest</a> | <a href="#">getQualifHistoryResponse</a> |

[Top](#)

### 3.1.14 createCustomerOrder

**Description:** Place a new customer order.

| Input message                              | Output message                              |
|--------------------------------------------|---------------------------------------------|
| <a href="#">createCustomerOrderRequest</a> | <a href="#">createCustomerOrderResponse</a> |

[Top](#)

### 3.1.15 cancelPendingOrder

**Description:** Cancel a pending customer order or order.

| Input message                             | Output message                             |
|-------------------------------------------|--------------------------------------------|
| <a href="#">cancelPendingOrderRequest</a> | <a href="#">cancelPendingOrderResponse</a> |

[Top](#)

### 3.1.16 createInstallationTicket

**Description:** Create an Installation Ticket

| Input message                                   | Output message                                   |
|-------------------------------------------------|--------------------------------------------------|
| <a href="#">createInstallationTicketRequest</a> | <a href="#">createInstallationTicketResponse</a> |

[Top](#)

### 3.1.17 modifyPendingInstallationTicket

**Description:** Modify a pending Installation Ticket

| Input message                                          | Output message                                          |
|--------------------------------------------------------|---------------------------------------------------------|
| <a href="#">modifyPendingInstallationTicketRequest</a> | <a href="#">modifyPendingInstallationTicketResponse</a> |

[Top](#)

### 3.1.18 cancelPendingInstallationTicket

**Description:** Cancel a pending Installation Ticket

| Input message                                          | Output message                                          |
|--------------------------------------------------------|---------------------------------------------------------|
| <a href="#">cancelPendingInstallationTicketRequest</a> | <a href="#">cancelPendingInstallationTicketResponse</a> |

[Top](#)

### 3.1.19 getBusinessLines

**Description:** Get a report for all business lines related to a DDI number

| Input message                           | Output message                           |
|-----------------------------------------|------------------------------------------|
| <a href="#">getBusinessLinesRequest</a> | <a href="#">getBusinessLinesResponse</a> |

[Top](#)

### 3.1.20 createChangeTicket

**Description:** create a Change Ticket

| Input message                             | Output message                             |
|-------------------------------------------|--------------------------------------------|
| <a href="#">createChangeTicketRequest</a> | <a href="#">createChangeTicketResponse</a> |

[Top](#)

### 3.1.21 modifyPendingChangeTicket

**Description:** *Modifies a still pending Change Ticket*

| Input message                                    | Output message                                    |
|--------------------------------------------------|---------------------------------------------------|
| <a href="#">modifyPendingChangeTicketRequest</a> | <a href="#">modifyPendingChangeTicketResponse</a> |

[Top](#)

### 3.1.22 cancelPendingChangeTicket

**Description:** *Cancel a still pending Change Ticket*

| Input message                                    | Output message                                    |
|--------------------------------------------------|---------------------------------------------------|
| <a href="#">cancelPendingChangeTicketRequest</a> | <a href="#">cancelPendingChangeTicketResponse</a> |

[Top](#)

### 3.1.23 getChangeTicketOverview

**Description:** *gets a list of change Tickets*

| Input message                                  | Output message                                  |
|------------------------------------------------|-------------------------------------------------|
| <a href="#">getChangeTicketOverviewRequest</a> | <a href="#">getChangeTicketOverviewResponse</a> |

[Top](#)

### 3.1.24 getChangeTicketDetail

**Description:** *gets all detail of one change ticket*

| Input message                                | Output message                                |
|----------------------------------------------|-----------------------------------------------|
| <a href="#">getChangeTicketDetailRequest</a> | <a href="#">getChangeTicketDetailResponse</a> |

[Top](#)

### 3.1.25 readPredecessor

**Description:** *Read own predecessor Entity*

| Input message                                | Output message                                |
|----------------------------------------------|-----------------------------------------------|
| <a href="#">readPredecessorEntityRequest</a> | <a href="#">readPredecessorEntityResponse</a> |

[Top](#)

### 3.1.26 addPredecessorEntity

| Input message                               | Output message                               |
|---------------------------------------------|----------------------------------------------|
| <a href="#">addPredecessorEntityRequest</a> | <a href="#">addPredecessorEntityResponse</a> |

[Top](#)

### 3.1.27 updatePredecessorEntity

| Input message                                  | Output message                                  |
|------------------------------------------------|-------------------------------------------------|
| <a href="#">updatePredecessorEntityRequest</a> | <a href="#">updatePredecessorEntityResponse</a> |

[Top](#)

### 3.1.28 removePredecessorEntity

| Input message | Output message |
|---------------|----------------|
|---------------|----------------|

|                                                |                                                 |
|------------------------------------------------|-------------------------------------------------|
| <a href="#">removePredecessorEntityRequest</a> | <a href="#">removePredecessorEntityResponse</a> |
|------------------------------------------------|-------------------------------------------------|

[Top](#)

### 3.1.29 lookUpPredecessors

**Description:** Search all predecessors for a specific phoneNr or location. You can use the locationId as search attribute in case of you get predecessorAddresses with multiple locationid in the response to have a more precise lookup.

| Input message                             | Output message                             |
|-------------------------------------------|--------------------------------------------|
| <a href="#">lookUpPredecessorsRequest</a> | <a href="#">lookUpPredecessorsResponse</a> |

[Top](#)

## 3.2 Messages

### 3.2.1 srvQualifByNumberRequest

| Element    | Type                              | Occ  | Comment |
|------------|-----------------------------------|------|---------|
| parameters | <a href="#">srvQualifByNumber</a> | 1..1 |         |

[Top](#)

### 3.2.2 srvQualifByNumberResponse

| Element    | Type                                      | Occ  | Comment |
|------------|-------------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByNumberResponse</a> | 1..1 |         |

[Top](#)

### 3.2.3 srvQualifByAddressRequest

| Element    | Type                               | Occ  | Comment |
|------------|------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByAddress</a> | 1..1 |         |

[Top](#)

### 3.2.4 srvQualifByAddressResponse

| Element    | Type                                       | Occ  | Comment |
|------------|--------------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByAddressResponse</a> | 1..1 |         |

[Top](#)

### 3.2.5 srvQualifByLlidRequest

| Element    | Type                            | Occ  | Comment |
|------------|---------------------------------|------|---------|
| parameters | <a href="#">srvQualifByLlid</a> | 1..1 |         |

[Top](#)

### 3.2.6 srvQualifByLlidResponse

| Element    | Type                                    | Occ  | Comment |
|------------|-----------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByLlidResponse</a> | 1..1 |         |

[Top](#)

### 3.2.7 srvQualifByStartPointRequest

| Element    | Type                                  | Occ  | Comment |
|------------|---------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByStartPoint</a> | 1..1 |         |

[Top](#)

### 3.2.8 srvQualifByStartPointResponse

| Element    | Type                                          | Occ  | Comment |
|------------|-----------------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByStartPointResponse</a> | 1..1 |         |

[Top](#)

### 3.2.9 srvQualifBySocketRequest

| Element    | Type                              | Occ  | Comment |
|------------|-----------------------------------|------|---------|
| parameters | <a href="#">srvQualifBySocket</a> | 1..1 |         |

[Top](#)

### 3.2.10 srvQualifBySocketResponse

| Element    | Type                                      | Occ  | Comment |
|------------|-------------------------------------------|------|---------|
| parameters | <a href="#">srvQualifBySocketResponse</a> | 1..1 |         |

[Top](#)

### 3.2.11 srvQualifByBindingIdRequest

| Element    | Type                                 | Occ  | Comment |
|------------|--------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByBindingId</a> | 1..1 |         |

[Top](#)

### 3.2.12 srvQualifByBindingIdResponse

| Element    | Type                                         | Occ  | Comment |
|------------|----------------------------------------------|------|---------|
| parameters | <a href="#">srvQualifByBindingIdResponse</a> | 1..1 |         |

[Top](#)

### 3.2.13 getSrvStatusRequest

| Element    | Type                         | Occ  | Comment |
|------------|------------------------------|------|---------|
| parameters | <a href="#">getSrvStatus</a> | 1..1 |         |

[Top](#)

### 3.2.14 getSrvStatusResponse

| Element    | Type                                 | Occ  | Comment |
|------------|--------------------------------------|------|---------|
| parameters | <a href="#">getSrvStatusResponse</a> | 1..1 |         |

[Top](#)

### 3.2.15 getTransactionOverviewRequest

| Element    | Type                                   | Occ  | Comment |
|------------|----------------------------------------|------|---------|
| parameters | <a href="#">getTransactionOverview</a> | 1..1 |         |

[Top](#)

### 3.2.16 getTransactionOverviewResponse

| Element    | Type                                           | Occ  | Comment |
|------------|------------------------------------------------|------|---------|
| parameters | <a href="#">getTransactionOverviewResponse</a> | 1..1 |         |

[Top](#)

### 3.2.17 getOrderDetailRequest

| Element    | Type                           | Occ  | Comment |
|------------|--------------------------------|------|---------|
| parameters | <a href="#">getOrderDetail</a> | 1..1 |         |

[Top](#)

### 3.2.18 getOrderDetailResponse

| Element    | Type                                   | Occ  | Comment |
|------------|----------------------------------------|------|---------|
| parameters | <a href="#">getOrderDetailResponse</a> | 1..1 |         |

[Top](#)

### 3.2.19 getInstallationTicketDetailRequest

| Element    | Type                                        | Occ  | Comment |
|------------|---------------------------------------------|------|---------|
| parameters | <a href="#">getInstallationTicketDetail</a> | 1..1 |         |

[Top](#)

### 3.2.20 getInstallationTicketDetailResponse

| Element    | Type                                                | Occ  | Comment |
|------------|-----------------------------------------------------|------|---------|
| parameters | <a href="#">getInstallationTicketDetailResponse</a> | 1..1 |         |

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### 3.2.21 getTdmMsgDetailRequest

| Element    | Type                            | Occ  | Comment |
|------------|---------------------------------|------|---------|
| parameters | <a href="#">getTdmMsgDetail</a> | 1..1 |         |

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### 3.2.22 getTdmMsgDetailResponse

| Element    | Type                                    | Occ  | Comment |
|------------|-----------------------------------------|------|---------|
| parameters | <a href="#">getTdmMsgDetailResponse</a> | 1..1 |         |

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### 3.2.23 getOrderGroupNrRequest

| Element    | Type                            | Occ  | Comment |
|------------|---------------------------------|------|---------|
| parameters | <a href="#">getOrderGroupNr</a> | 1..1 |         |

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### 3.2.24 getOrderGroupNrResponse

| Element    | Type                                    | Occ  | Comment |
|------------|-----------------------------------------|------|---------|
| parameters | <a href="#">getOrderGroupNrResponse</a> | 1..1 |         |

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### 3.2.25 getQualifHistoryRequest

| Element    | Type                             | Occ  | Comment |
|------------|----------------------------------|------|---------|
| parameters | <a href="#">getQualifHistory</a> | 1..1 |         |

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### 3.2.26 getQualifHistoryResponse

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|            |                                          |      |  |
|------------|------------------------------------------|------|--|
| parameters | <a href="#">getQualifHistoryResponse</a> | 1..1 |  |
|------------|------------------------------------------|------|--|

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### 3.2.27 createCustomerOrderRequest

| Element    | Type                                | Occ  | Comment |
|------------|-------------------------------------|------|---------|
| parameters | <a href="#">createCustomerOrder</a> | 1..1 |         |

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### 3.2.28 createCustomerOrderResponse

| Element    | Type                                        | Occ  | Comment |
|------------|---------------------------------------------|------|---------|
| parameters | <a href="#">createCustomerOrderResponse</a> | 1..1 |         |

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### 3.2.29 cancelPendingOrderRequest

| Element    | Type                               | Occ  | Comment |
|------------|------------------------------------|------|---------|
| parameters | <a href="#">cancelPendingOrder</a> | 1..1 |         |

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### 3.2.30 cancelPendingOrderResponse

| Element    | Type                                       | Occ  | Comment |
|------------|--------------------------------------------|------|---------|
| parameters | <a href="#">cancelPendingOrderResponse</a> | 1..1 |         |

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### 3.2.31 createInstallationTicketRequest

| Element    | Type                                     | Occ  | Comment |
|------------|------------------------------------------|------|---------|
| parameters | <a href="#">createInstallationTicket</a> | 1..1 |         |

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### 3.2.32 createInstallationTicketResponse

| Element    | Type                                             | Occ  | Comment |
|------------|--------------------------------------------------|------|---------|
| parameters | <a href="#">createInstallationTicketResponse</a> | 1..1 |         |

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### 3.2.33 modifyPendingInstallationTicketRequest

| Element    | Type                                            | Occ  | Comment |
|------------|-------------------------------------------------|------|---------|
| parameters | <a href="#">modifyPendingInstallationTicket</a> | 1..1 |         |

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### 3.2.34 modifyPendingInstallationTicketResponse

| Element    | Type                                                    | Occ  | Comment |
|------------|---------------------------------------------------------|------|---------|
| parameters | <a href="#">modifyPendingInstallationTicketResponse</a> | 1..1 |         |

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### 3.2.35 cancelPendingInstallationTicketRequest

| Element    | Type                                            | Occ  | Comment |
|------------|-------------------------------------------------|------|---------|
| parameters | <a href="#">cancelPendingInstallationTicket</a> | 1..1 |         |

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### 3.2.36 cancelPendingInstallationTicketResponse

| Element    | Type                                                    | Occ  | Comment |
|------------|---------------------------------------------------------|------|---------|
| parameters | <a href="#">cancelPendingInstallationTicketResponse</a> | 1..1 |         |

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### 3.2.37 getBusinessLinesRequest

| Element    | Type                             | Occ  | Comment |
|------------|----------------------------------|------|---------|
| parameters | <a href="#">getBusinessLines</a> | 1..1 |         |

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### 3.2.38 getBusinessLinesResponse

| Element    | Type                                     | Occ  | Comment |
|------------|------------------------------------------|------|---------|
| parameters | <a href="#">getBusinessLinesResponse</a> | 1..1 |         |

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### 3.2.39 createChangeTicketRequest

| Element    | Type                               | Occ  | Comment |
|------------|------------------------------------|------|---------|
| parameters | <a href="#">createChangeTicket</a> | 1..1 |         |

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### 3.2.40 createChangeTicketResponse

| Element    | Type                                       | Occ  | Comment |
|------------|--------------------------------------------|------|---------|
| parameters | <a href="#">createChangeTicketResponse</a> | 1..1 |         |

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### 3.2.41 modifyPendingChangeTicketRequest

| Element    | Type                                      | Occ  | Comment |
|------------|-------------------------------------------|------|---------|
| parameters | <a href="#">modifyPendingChangeTicket</a> | 1..1 |         |

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### 3.2.42 modifyPendingChangeTicketResponse

| Element    | Type                                              | Occ  | Comment |
|------------|---------------------------------------------------|------|---------|
| parameters | <a href="#">modifyPendingChangeTicketResponse</a> | 1..1 |         |

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### 3.2.43 cancelPendingChangeTicketRequest

| Element    | Type                                      | Occ  | Comment |
|------------|-------------------------------------------|------|---------|
| parameters | <a href="#">cancelPendingChangeTicket</a> | 1..1 |         |

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### 3.2.44 cancelPendingChangeTicketResponse

| Element    | Type                                              | Occ  | Comment |
|------------|---------------------------------------------------|------|---------|
| parameters | <a href="#">cancelPendingChangeTicketResponse</a> | 1..1 |         |

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### 3.2.45 getChangeTicketOverviewRequest

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|            |                                         |      |  |
|------------|-----------------------------------------|------|--|
| parameters | <a href="#">getChangeTicketOverview</a> | 1..1 |  |
|------------|-----------------------------------------|------|--|

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### 3.2.46 getChangeTicketOverviewResponse

| Element    | Type                                            | Occ  | Comment |
|------------|-------------------------------------------------|------|---------|
| parameters | <a href="#">getChangeTicketOverviewResponse</a> | 1..1 |         |

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### 3.2.47 getChangeTicketDetailRequest

| Element    | Type                                             | Occ  | Comment |
|------------|--------------------------------------------------|------|---------|
| parameters | <a href="#">getChangeTicketDetailRequestType</a> | 1..1 |         |

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### 3.2.48 getChangeTicketDetailResponse

| Element    | Type                                          | Occ  | Comment |
|------------|-----------------------------------------------|------|---------|
| parameters | <a href="#">getChangeTicketDetailResponse</a> | 1..1 |         |

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### 3.2.49 readPredecessorEntityRequest

| Element    | Type                                         | Occ  | Comment |
|------------|----------------------------------------------|------|---------|
| parameters | <a href="#">readPredecessorEntityRequest</a> | 1..1 |         |

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### 3.2.50 readPredecessorEntityResponse

| Element    | Type                                          | Occ  | Comment |
|------------|-----------------------------------------------|------|---------|
| parameters | <a href="#">readPredecessorEntityResponse</a> | 1..1 |         |

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### 3.2.51 addPredecessorEntityRequest

| Element    | Type                                        | Occ  | Comment |
|------------|---------------------------------------------|------|---------|
| parameters | <a href="#">addPredecessorEntityRequest</a> | 1..1 |         |

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### 3.2.52 addPredecessorEntityResponse

| Element    | Type                                         | Occ  | Comment |
|------------|----------------------------------------------|------|---------|
| parameters | <a href="#">addPredecessorEntityResponse</a> | 1..1 |         |

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### 3.2.53 updatePredecessorEntityRequest

| Element    | Type                                           | Occ  | Comment |
|------------|------------------------------------------------|------|---------|
| parameters | <a href="#">updatePredecessorEntityRequest</a> | 1..1 |         |

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### 3.2.54 updatePredecessorEntityResponse

| Element    | Type                                            | Occ  | Comment |
|------------|-------------------------------------------------|------|---------|
| parameters | <a href="#">updatePredecessorEntityResponse</a> | 1..1 |         |

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### 3.2.55 removePredecessorEntityRequest

| Element    | Type                                           | Occ  | Comment |
|------------|------------------------------------------------|------|---------|
| parameters | <a href="#">removePredecessorEntityRequest</a> | 1..1 |         |

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### 3.2.56 removePredecessorEntityResponse

| Element    | Type                                            | Occ  | Comment |
|------------|-------------------------------------------------|------|---------|
| parameters | <a href="#">removePredecessorEntityResponse</a> | 1..1 |         |

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### 3.2.57 lookUpPredecessorsRequest

| Element    | Type                                      | Occ  | Comment |
|------------|-------------------------------------------|------|---------|
| parameters | <a href="#">lookUpPredecessorsRequest</a> | 1..1 |         |

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### 3.2.58 lookUpPredecessorsResponse

| Element    | Type                                       | Occ  | Comment |
|------------|--------------------------------------------|------|---------|
| parameters | <a href="#">lookUpPredecessorsResponse</a> | 1..1 |         |

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## 3.3 Root elements

### 3.3.1 srvQualifByNumber

**Description:** Get information on possible broadband connections to a given destination by DN/VN/NSN.

| Element | Type                                  | Occ  | Comment                                                                                |
|---------|---------------------------------------|------|----------------------------------------------------------------------------------------|
| request | <a href="#">srvQualifByNumberType</a> | 1..1 | Get information on possible broadband connections to a given destination by DN/VN/NSN. |

### 3.3.2 srvQualifByNumberResponse

| Element  | Type                                  | Occ  | Comment                                                                     |
|----------|---------------------------------------|------|-----------------------------------------------------------------------------|
| response | <a href="#">qualifAcknowledgeType</a> | 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.3.3 srvQualifByAddress

**Description:** Get information on possible broadband connections to a given destination by address.

| Element | Type                                   | Occ  | Comment                                                                              |
|---------|----------------------------------------|------|--------------------------------------------------------------------------------------|
| request | <a href="#">srvQualifByAddressType</a> | 1..1 | Get information on possible broadband connections to a given destination by address. |

### 3.3.4 srvQualifByAddressResponse

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|          |                                       |      |                                                                             |
|----------|---------------------------------------|------|-----------------------------------------------------------------------------|
| response | <a href="#">qualifAcknowledgeType</a> | 1..1 | The acknowledge message returned after processing an qualification request. |
|----------|---------------------------------------|------|-----------------------------------------------------------------------------|

### 3.3.5 **srvQualifByLlid**

**Description:** Get information on possible broadband connections to a given destination by LLID.

| ElementType | OccComment                          |      |                                                                                   |
|-------------|-------------------------------------|------|-----------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifByLlidType</a> | 1..1 | Get information on possible broadband connections to a given destination by LLID. |

### 3.3.6 **srvQualifByLlidResponse**

| ElementType | OccComment                            |      |                                                                             |
|-------------|---------------------------------------|------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> | 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.3.7 **srvQualifByStartPoint**

**Description:** Get information on possible broadband connections to a given destination by start point.

| ElementType | OccComment                                |      |                                                                                          |
|-------------|-------------------------------------------|------|------------------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifByStartPointType</a> | 1..1 | Get information on possible broadband connections to a given destination by start point. |

### 3.3.8 **srvQualifByStartPointResponse**

| ElementType | OccComment                            |      |                                                                             |
|-------------|---------------------------------------|------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> | 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.3.9 **srvQualifBySocket**

**Description:** Get information on possible broadband connections to a given destination by Socket Id.

| ElementType | OccComment                            |      |                                                                                                             |
|-------------|---------------------------------------|------|-------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifBySocketType</a> | 1..1 | Get information on possible broadband connections to a given destination by socket ID (and opt. by PlugNr). |

### 3.3.10 **srvQualifBySocketResponse**

| ElementType | OccComment                            |      |                                                                             |
|-------------|---------------------------------------|------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> | 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.3.11 **srvQualifByBindingId**

**Description:** Get information on possible broadband connections to a given destination by bindingId.

| ElementType | OccComment                               |      |                                                                                                     |
|-------------|------------------------------------------|------|-----------------------------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifByBindingIdType</a> | 1..1 | Get information on possible broadband connections to a given destination by binding ID (accesssId). |

### 3.3.12 srvQualifByBindingIdResponse

| ElementType |                                       | OccComment |                                                                             |
|-------------|---------------------------------------|------------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> | 1..1       | The acknowledge message returned after processing an qualification request. |

### 3.3.13 getSrvStatus

| ElementType |                                             | OccComment |                                                                                                                                                                                                                                         |
|-------------|---------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">getServiceStatusRequestType</a> | 1..1       | Purpose: Obtain status information on a currently installed product or service. Directory number to get the state of the service for. In case of PABX with DDI, VN has to be used. In case of broadband type SDSL a NSN has to be used. |

### 3.3.14 getSrvStatusResponse

| ElementType |                                         | OccComment |                                                                                                                                                           |
|-------------|-----------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getServiceStatusAckType</a> | 1..1       | Acknowledge response for the GET_SERVICE_STATUS command. Provides status information on a currently installed product or service. Service status response |

### 3.3.15 getTransactionOverview

| Element | Type                                              | Occ  | Comment                     |
|---------|---------------------------------------------------|------|-----------------------------|
| request | <a href="#">getTransactionOverviewRequestType</a> | 1..1 | Purpose: List transactions. |

### 3.3.16 getTransactionOverviewResponse

| ElementType |                                               | OccComment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|-----------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getTransactionOverviewAckType</a> | 1..1       | This class represents a response message returned by the getTransactionOverview operation. A list of selected transaction records sorted descending by time. This class represents a transaction record documenting any action on a WORK_ORDER, a VOICE_MESSAGE, an ACCESS_TICKET, a WORK_TICKET or an ALARM. Timestamp of last modification. (not null) The name of the user that performed the last modification. (not null) if transType1 = WORK_ORDER, then transType2 = 1001 if transType1 = VOICE_MESSAGE, then transType2 = 1201 if transType1 = VOICE_MESSAGE, then transType2 = 1201 if transType1 = ACCESS_TICKET, then transType2 = empty if transType1 = WORK_TICKET, then transType2 = 4002 The transaction ID. (e.g. if transType1:=WORK_ORDER then transId:=ORDER_ID) (not null) The transaction state. (e.g. if transType1=WORK_ORDER then transType2:=ORDER_STATE hence |

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | transType2=2 means 'HOLDING') (not null) The ID of the ISP involved in the transaction. (not null) The name of the ISP involved in the transaction. (not null) The ID of a second ISP involved in the transaction. The name of a second ISP involved in the transaction. The DN/VN/NSN associated to that transaction. (not null) A second DN/VN/NSN associated to that transaction. A transaction response message. |
|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.3.17 getOrderDetail

| Element | Type                                 | Occ  | Comment                                   |
|---------|--------------------------------------|------|-------------------------------------------|
| request | <a href="#">getDetailRequestType</a> | 1..1 | Purpose: Get details of a customer order. |

### 3.3.18 getOrderDetailResponse

| Element  | Type                             | Occ  | Comment                                          |
|----------|----------------------------------|------|--------------------------------------------------|
| response | <a href="#">getDetailAckType</a> | 1..1 | Acknowledge response for the GET_DETAIL command. |

### 3.3.19 getInstallationTicketDetail

| Element | Type                                                   | Occ  | Comment                                         |
|---------|--------------------------------------------------------|------|-------------------------------------------------|
| request | <a href="#">getInstallationTicketDetailRequestType</a> | 1..1 | Purpose: Get details of an installation ticket. |

### 3.3.20 getInstallationTicketDetailResponse

| Element  | Type                                               | Occ  | Comment                                                                                                      |
|----------|----------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
| response | <a href="#">getInstallationTicketDetailAckType</a> | 1..1 | LIST-response for the GET_INSTALLATION_TICKET_DETAIL command. Lists a bunch of matching installation ticket. |

### 3.3.21 getTdmMsgDetail

| Element | Type                                           | Occ  | Comment                                            |
|---------|------------------------------------------------|------|----------------------------------------------------|
| request | <a href="#">getTdmMessageDetailRequestType</a> | 1..1 | Purpose: Get a TDM message with a specific log ID. |

### 3.3.22 getTdmMsgDetailResponse

| Element  | Type                                       | Occ  | Comment |
|----------|--------------------------------------------|------|---------|
| response | <a href="#">getTdmMessageDetailAckType</a> | 1..1 |         |

### 3.3.23 getOrderGroupNr

| Element | Type                                       | Occ  | Comment                                                                                                                                                                                                                                         |
|---------|--------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request | <a href="#">getOrderGroupNrRequestType</a> | 1..1 | Purpose: Obtain a unique number for grouping customer orders. Order group numbers can be used by the ISP to identify related customer orders, e.g. in a LIST_ORDERS command. The resulting order group number will be returned in the ack file. |

### 3.3.24 getOrderGroupNrResponse

| ElementType |                                      | OccComment |                                                                              |
|-------------|--------------------------------------|------------|------------------------------------------------------------------------------|
| response    | <a href="#">customerOrderAckType</a> | 1..1       | The acknowledge message returned after processing an customer order request. |

### 3.3.25 getQualifHistory

| ElementType |                                             | OccComment |                                                              |
|-------------|---------------------------------------------|------------|--------------------------------------------------------------|
| request     | <a href="#">getQualifHistoryRequestType</a> | 1..1       | Get qualification history from initially or re-qualification |

### 3.3.26 getQualifHistoryResponse

| ElementType |                                         | OccComment |                                                               |
|-------------|-----------------------------------------|------------|---------------------------------------------------------------|
| response    | <a href="#">getQualifHistoryAckType</a> | 1..1       | Get qualification history from initially or re- qualification |

### 3.3.27 createCustomerOrder

| ElementType |                                          | OccComment |                                                                                                                                                                                                                                                                                                                                                      |
|-------------|------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">customerOrderRequestType</a> | 1..1       | Purpose: Place a customer order. Data structure for wrapping related detail orders. Restriction: A customer order can contain at most 1 detail order related to a base product (BASIS_CREATE, BASIS_MODIFY, BASIS_DISCONNECT or ISP_CHANGE). The number of service related detail orders is not restricted. Only one basis order may be listed here. |

### 3.3.28 createCustomerOrderResponse

| ElementType |                                      | OccComment |                                                                              |
|-------------|--------------------------------------|------------|------------------------------------------------------------------------------|
| response    | <a href="#">customerOrderAckType</a> | 1..1       | The acknowledge message returned after processing an customer order request. |

### 3.3.29 cancelPendingOrder

| Element | Type                                     | Occ  | Comment                          |
|---------|------------------------------------------|------|----------------------------------|
| request | <a href="#">cancelPendingRequestType</a> | 1..1 | Purpose: Cancel a pending order. |

### 3.3.30 cancelPendingOrderResponse

| ElementType |                                      | OccComment |                                                            |
|-------------|--------------------------------------|------------|------------------------------------------------------------|
| response    | <a href="#">cancelPendingAckType</a> | 1..1       | Acknowledge response for the CANCEL_PENDING_ORDER command. |

### 3.3.31 createInstallationTicket

| ElementType |                                                     | OccComment |                                                                                                                                                                                                                                                                                                                                            |
|-------------|-----------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">createInstallationTicketRequestType</a> | 1..1       | Purpose: creates a new installation ticket. WSG order number. This order number identifies the service creation order to which the installation ticket belongs. Required if itIdWsgRef and dnVnNsn is missing [LOV-ID: 0320] Contract Element ID. Required if refOrderNr and itIdWsgRef are missing. Reference to installation ticket (2nd |

|  |  |  |                                                                                                                                                                                                                       |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | intervention). Required if refOrderNr and dnVnNsn is missing DN, VN or NSN. Required if refOrderNr and itIdWsgRef is missing [LOV-ID: 4003] Onsite support. "None" is not allowed. Required if contrEleId is missing. |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.3.32 createInstallationTicketResponse

| Element  | Type                                            | Occ  | Comment                                                          |
|----------|-------------------------------------------------|------|------------------------------------------------------------------|
| response | <a href="#">createInstallationTicketAckType</a> | 1..1 | Acknowledge response for the CREATE_INSTALLATION_TICKET command. |

### 3.3.33 modifyPendingInstallationTicket

| Element | Type                                                       | Occ  | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request | <a href="#">modifyPendingInstallationTicketRequestType</a> | 1..1 | Purpose: Modify a pending installation ticket. WSG order number. This order number identifies the service creation order to which the installation ticket belongs. Requested Contract Element ID. Only relevant if the ticket has no reference by itIdWsgRef or refOrderNr. If missing, onsiteSupport is required. [LOV-ID: 0276] Broadband type. Required if contrEleId is specified. DN, VN or NSN. Only relevant if ticket has no reference by refOrderNr and itIdWsgRef. [LOV-ID: 4003] Onsite support. "None" is not allowed. Required if contrEleId is missing. |

### 3.3.34 modifyPendingInstallationTicketResponse

| Element  | Type                                                   | Occ  | Comment                                                                  |
|----------|--------------------------------------------------------|------|--------------------------------------------------------------------------|
| response | <a href="#">modifyPendingInstallationTicketAckType</a> | 1..1 | Acknowledge response for the MODIFY_PENDING_INSTALLATION_TICKET command. |

### 3.3.35 cancelPendingInstallationTicket

| Element | Type                                                       | Occ  | Comment                                        |
|---------|------------------------------------------------------------|------|------------------------------------------------|
| request | <a href="#">cancelPendingInstallationTicketRequestType</a> | 1..1 | Purpose: cancel a pending installation ticket. |

### 3.3.36 cancelPendingInstallationTicketResponse

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|          |                                                        |      |                                                                          |
|----------|--------------------------------------------------------|------|--------------------------------------------------------------------------|
| response | <a href="#">cancelPendingInstallationTicketAckType</a> | 1..1 | Acknowledge response for the CANCEL_PENDING_INSTALLATION_TICKET command. |
|----------|--------------------------------------------------------|------|--------------------------------------------------------------------------|

### 3.3.37 getBusinessLines

| ElementType | OccComment                                  |      |                                                                       |
|-------------|---------------------------------------------|------|-----------------------------------------------------------------------|
| request     | <a href="#">getBusinessLinesRequestType</a> | 1..1 | Purpose: Get a report for all business lines related to a DDI number. |

### 3.3.38 getBusinessLinesResponse

| ElementType | OccComment                              |      |                                                                                                                   |
|-------------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getBusinessLinesAckType</a> | 1..1 | Acknowledge response for the GET_BUSINESS_LINES command. Provides business lines related to a STNR or DDI number. |

### 3.3.39 createChangeTicket

| ElementType | OccComment                                    |      |                                                                                                                                                                                                                        |
|-------------|-----------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">createChangeTicketRequestType</a> | 1..1 | Input for the createChangeTicket Operation This contact information is used to send the reminder This contact informations is used to send the 2nd reminder (if not present customerContact1 is used for 2nd reminder) |

### 3.3.40 createChangeTicketResponse

| ElementType | OccComment                                     |      |                                                                           |
|-------------|------------------------------------------------|------|---------------------------------------------------------------------------|
| response    | <a href="#">createChangeTicketResponseType</a> | 1..1 | Output createChangeTicket Operation The change Ticket ID generated by WSG |

### 3.3.41 modifyPendingChangeTicket

| ElementType | OccComment                                           |      |                                                   |
|-------------|------------------------------------------------------|------|---------------------------------------------------|
| request     | <a href="#">modifyPendingChangeTicketRequestType</a> | 1..1 | Input for the modifyPendingChangeTicket Operation |

### 3.3.42 modifyPendingChangeTicketResponse

| ElementType | OccComment                                            |      |                                            |
|-------------|-------------------------------------------------------|------|--------------------------------------------|
| response    | <a href="#">modifyPendingChangeTicketResponseType</a> | 1..1 | Output modifyPendingChangeTicket Operation |

### 3.3.43 cancelPendingChangeTicket

| ElementType | OccComment                                           |      |                                           |
|-------------|------------------------------------------------------|------|-------------------------------------------|
| request     | <a href="#">cancelPendingChangeTicketRequestType</a> | 1..1 | Input cancelPendingChangeTicket Operation |

### 3.3.44 cancelPendingChangeTicketResponse

| ElementType | OccComment                                            |      |                                            |
|-------------|-------------------------------------------------------|------|--------------------------------------------|
| response    | <a href="#">cancelPendingChangeTicketResponseType</a> | 1..1 | Output cancelPendingChangeTicket Operation |

### 3.3.45 getChangeTicketOverview

| ElementType |                                                    | OccComment |                                         |
|-------------|----------------------------------------------------|------------|-----------------------------------------|
| request     | <a href="#">getChangeTicketOverviewRequestType</a> | 1..1       | Input getChangeTicketOverview Operation |

### 3.3.46 getChangeTicketOverviewResponse

| ElementType |                                                     | OccComment |                                          |
|-------------|-----------------------------------------------------|------------|------------------------------------------|
| response    | <a href="#">getChangeTicketOverviewResponseType</a> | 1..1       | Output getChangeTicketOverview Operation |

### 3.3.47 getChangeTicketDetailRequestType

**Used by:** [getChangeTicketDetailRequestType](#)

| Element Type |                                                  | Occ Comment |                                       |
|--------------|--------------------------------------------------|-------------|---------------------------------------|
| request      | <a href="#">getChangeTicketDetailRequestType</a> | 1..1        | Input getChangeTicketDetail Operation |

### 3.3.48 getChangeTicketDetailResponse

| ElementType |                                                   | OccComment |                                                                                                                                           |
|-------------|---------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getChangeTicketDetailResponseType</a> | 1..1       | Output getChangeTicketDetail Operation<br>the requested change ticket List of the work log entries all previous data of the change ticket |

### 3.3.49 readPredecessorEntityRequest

| Element Type |                                                  | Occ Comment |                                      |
|--------------|--------------------------------------------------|-------------|--------------------------------------|
| request      | <a href="#">readPredecessorEntityRequestType</a> | 1..1        | Purpose: search predecessor entities |

### 3.3.50 readPredecessorEntityResponse

| ElementType |                                              | OccComment |                                                                                           |
|-------------|----------------------------------------------|------------|-------------------------------------------------------------------------------------------|
| response    | <a href="#">readPredecessorEntityAckType</a> | 1..1       | The acknowledge message returned after processing an readPredecessorEntity order request. |

### 3.3.51 addPredecessorEntityRequest

| Element Type |                                                 | Occ Comment |                                   |
|--------------|-------------------------------------------------|-------------|-----------------------------------|
| request      | <a href="#">addPredecessorEntityRequestType</a> | 1..1        | Purpose:Add a predecessor Entity. |

### 3.3.52 addPredecessorEntityResponse

| ElementType |                                             | OccComment |                                                                                          |
|-------------|---------------------------------------------|------------|------------------------------------------------------------------------------------------|
| response    | <a href="#">addPredecessorEntityAckType</a> | 1..1       | The acknowledge message returned after processing an addPredecessorEntity order request. |

### 3.3.53 updatePredecessorEntityRequest

| Element Type |                                                    | Occ Comment |                                      |
|--------------|----------------------------------------------------|-------------|--------------------------------------|
| request      | <a href="#">updatePredecessorEntityRequestType</a> | 1..1        | Purpose:update a predecessor Entity. |

### 3.3.54 updatePredecessorEntityResponse

| ElementType |  | OccComment |  |
|-------------|--|------------|--|
|-------------|--|------------|--|

|          |                                                |      |                                                                                       |
|----------|------------------------------------------------|------|---------------------------------------------------------------------------------------|
| response | <a href="#">updatePredecessorEntityAckType</a> | 1..1 | The acknowledge message returned after processing an updatePredecessorEntity request. |
|----------|------------------------------------------------|------|---------------------------------------------------------------------------------------|

### 3.3.55 removePredecessorEntityRequest

| Element Type | Occ                                                | Comment                                   |
|--------------|----------------------------------------------------|-------------------------------------------|
| request      | <a href="#">removePredecessorEntityRequestType</a> | 1..1 Purpose:remove a predecessor Entity. |

### 3.3.56 removePredecessorEntityResponse

| Element Type | Occ                                            | Comment                                                                                    |
|--------------|------------------------------------------------|--------------------------------------------------------------------------------------------|
| response     | <a href="#">removePredecessorEntityAckType</a> | 1..1 The acknowledge message returned after processing an removePredecessorEntity request. |

### 3.3.57 lookUpPredecessorsRequest

| Element Type | Occ                                          | Comment                                   |
|--------------|----------------------------------------------|-------------------------------------------|
| request      | <a href="#">lookUpPredecessorRequestType</a> | 1..1 Purpose:search predecessor entrires. |

### 3.3.58 lookUpPredecessorsResponse

| Element Type | Occ                                       | Comment                                                                                       |
|--------------|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| response     | <a href="#">lookUpPredecessorsAckType</a> | 1..1 The acknowledge message returned after processing an addPredecessorEntity order request. |

## 3.4 Types

### 3.4.1 srvQualifByNumber

**Description:** Get information on possible broadband connections to a given destination by DN/VN/NSN.

| Element Type | Occ                                   | Comment                                                                                     |
|--------------|---------------------------------------|---------------------------------------------------------------------------------------------|
| request      | <a href="#">srvQualifByNumberType</a> | 1..1 Get information on possible broadband connections to a given destination by DN/VN/NSN. |

### 3.4.2 srvQualifByNumberResponse

| Element Type | Occ                                   | Comment                                                                          |
|--------------|---------------------------------------|----------------------------------------------------------------------------------|
| response     | <a href="#">qualifAcknowledgeType</a> | 1..1 The acknowledge message returned after processing an qualification request. |

### 3.4.3 srvQualifByAddress

**Description:** Get information on possible broadband connections to a given destination by address.

| Element Type | Occ                                    | Comment                                                                                   |
|--------------|----------------------------------------|-------------------------------------------------------------------------------------------|
| request      | <a href="#">srvQualifByAddressType</a> | 1..1 Get information on possible broadband connections to a given destination by address. |

### 3.4.4 **srvQualifByAddressResponse**

| ElementType | Occ                                        | Comment                                                                     |
|-------------|--------------------------------------------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.4.5 **srvQualifByLlid**

**Description:** Get information on possible broadband connections to a given destination by LLID.

| ElementType | Occ                                      | Comment                                                                           |
|-------------|------------------------------------------|-----------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifByLlIdType</a> 1..1 | Get information on possible broadband connections to a given destination by LLID. |

### 3.4.6 **srvQualifByLlidResponse**

| ElementType | Occ                                        | Comment                                                                     |
|-------------|--------------------------------------------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.4.7 **srvQualifByStartPoint**

**Description:** Get information on possible broadband connections to a given destination by start point.

| ElementType | Occ                                            | Comment                                                                                  |
|-------------|------------------------------------------------|------------------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifByStartPointType</a> 1..1 | Get information on possible broadband connections to a given destination by start point. |

### 3.4.8 **srvQualifByStartPointResponse**

| ElementType | Occ                                        | Comment                                                                     |
|-------------|--------------------------------------------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.4.9 **srvQualifBySocket**

**Description:** Get information on possible broadband connections to a given destination by Socket Id.

| ElementType | Occ                                        | Comment                                                                                                     |
|-------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">srvQualifBySocketType</a> 1..1 | Get information on possible broadband connections to a given destination by socket ID (and opt. by PlugNr). |

### 3.4.10 **srvQualifBySocketResponse**

| ElementType | Occ                                        | Comment                                                                     |
|-------------|--------------------------------------------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> 1..1 | The acknowledge message returned after processing an qualification request. |

### 3.4.11 **srvQualifByBindingId**

**Description:** Get information on possible broadband connections to a given destination by bindingId.

| ElementType | Occ | Comment |
|-------------|-----|---------|
|-------------|-----|---------|

|         |                                          |      |                                                                                                    |
|---------|------------------------------------------|------|----------------------------------------------------------------------------------------------------|
| request | <a href="#">srvQualifByBindingIdType</a> | 1..1 | Get information on possible broadband connections to a given destination by binding ID (accessId). |
|---------|------------------------------------------|------|----------------------------------------------------------------------------------------------------|

### 3.4.12 **srvQualifByBindingIdResponse**

| ElementType |                                       | OccComment |                                                                             |
|-------------|---------------------------------------|------------|-----------------------------------------------------------------------------|
| response    | <a href="#">qualifAcknowledgeType</a> | 1..1       | The acknowledge message returned after processing an qualification request. |

### 3.4.13 **getSrvStatus**

| ElementType |                                             | OccComment |                                                                                                                                                                                                                                         |
|-------------|---------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">getServiceStatusRequestType</a> | 1..1       | Purpose: Obtain status information on a currently installed product or service. Directory number to get the state of the service for. In case of PABX with DDI, VN has to be used. In case of broadband type SDSL a NSN has to be used. |

### 3.4.14 **getSrvStatusResponse**

| ElementType |                                         | OccComment |                                                                                                                                                           |
|-------------|-----------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getServiceStatusAckType</a> | 1..1       | Acknowledge response for the GET_SERVICE_STATUS command. Provides status information on a currently installed product or service. Service status response |

### 3.4.15 **getTransactionOverview**

| Element | Type                                              | Occ  | Comment                     |
|---------|---------------------------------------------------|------|-----------------------------|
| request | <a href="#">getTransactionOverviewRequestType</a> | 1..1 | Purpose: List transactions. |

### 3.4.16 **getTransactionOverviewResponse**

| ElementType |                                               | OccComment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-----------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getTransactionOverviewAckType</a> | 1..1       | <p>This class represents a response message returned by the getTransactionOverview operation. A list of selected transaction records sorted descending by time. This class represents a transaction record documenting any action on a WORK_ORDER, a VOICE_MESSAGE, an ACCESS_TICKET, a WORK_TICKET or an ALARM. Timestamp of last modification. (not null) The name of the user that performed the last modification. (not null) if transType1 = WORK_ORDER, then transType2 = 1001 if transType1 = VOICE_MESSAGE , then transType2 = 1201 if transType1 = VOICE_MESSAGE , then transType2 = 1201 if transType1 = ACCESS_TICKET, then transType2 = empty if transType1 = WORK_TICKET , then transType2 = 4002 The transaction ID. (e.g. if transType1:=WORK_ORDER then transId:=ORDER_ID) (not null) The transaction</p> |

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | state. (e.g. if transType1=WORK_ORDER then transType2:=ORDER_STATE hence transType2=2 means 'HOLDING') (not null) The ID of the ISP involved in the transaction. (not null) The name of the ISP involved in the transaction. (not null) The ID of a second ISP involved in the transaction. The name of a second ISP involved in the transaction. The DN/VN/NSN associated to that transaction. (not null) A second DN/VN/NSN associated to that transaction. A transaction response message. |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.4.17 getOrderDetail

| Element | Type                                 | Occ  | Comment                                   |
|---------|--------------------------------------|------|-------------------------------------------|
| request | <a href="#">getDetailRequestType</a> | 1..1 | Purpose: Get details of a customer order. |

### 3.4.18 getOrderDetailResponse

| Element  | Type                             | Occ  | Comment                                          |
|----------|----------------------------------|------|--------------------------------------------------|
| response | <a href="#">getDetailAckType</a> | 1..1 | Acknowledge response for the GET_DETAIL command. |

### 3.4.19 getInstallationTicketDetail

| Element | Type                                                   | Occ  | Comment                                         |
|---------|--------------------------------------------------------|------|-------------------------------------------------|
| request | <a href="#">getInstallationTicketDetailRequestType</a> | 1..1 | Purpose: Get details of an installation ticket. |

### 3.4.20 getInstallationTicketDetailResponse

| Element  | Type                                               | Occ  | Comment                                                                                                      |
|----------|----------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
| response | <a href="#">getInstallationTicketDetailAckType</a> | 1..1 | LIST-response for the GET_INSTALLATION_TICKET_DETAIL command. Lists a bunch of matching installation ticket. |

### 3.4.21 getTdmMsgDetail

| Element | Type                                           | Occ  | Comment                                            |
|---------|------------------------------------------------|------|----------------------------------------------------|
| request | <a href="#">getTdmMessageDetailRequestType</a> | 1..1 | Purpose: Get a TDM message with a specific log ID. |

### 3.4.22 getTdmMsgDetailResponse

| Element  | Type                                       | Occ  | Comment |
|----------|--------------------------------------------|------|---------|
| response | <a href="#">getTdmMessageDetailAckType</a> | 1..1 |         |

### 3.4.23 getOrderGroupNr

| Element | Type                                       | Occ  | Comment                                                                                                                                                                                                                           |
|---------|--------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request | <a href="#">getOrderGroupNrRequestType</a> | 1..1 | Purpose: Obtain a unique number for grouping customer orders. Order group numbers can be used by the ISP to identify related customer orders, e.g. in a LIST_ORDERS command. The resulting order group number will be returned in |

|  |  |  |               |
|--|--|--|---------------|
|  |  |  | the ack file. |
|--|--|--|---------------|

### 3.4.24 getOrderGroupNrResponse

| ElementType | OccComment                           |      |                                                                              |
|-------------|--------------------------------------|------|------------------------------------------------------------------------------|
| response    | <a href="#">customerOrderAckType</a> | 1..1 | The acknowledge message returned after processing an customer order request. |

### 3.4.25 getQualifHistory

| ElementType | OccComment                                  |      |                                                              |
|-------------|---------------------------------------------|------|--------------------------------------------------------------|
| request     | <a href="#">getQualifHistoryRequestType</a> | 1..1 | Get qualification history from initially or re-qualification |

### 3.4.26 getQualifHistoryResponse

| ElementType | OccComment                              |      |                                                              |
|-------------|-----------------------------------------|------|--------------------------------------------------------------|
| response    | <a href="#">getQualifHistoryAckType</a> | 1..1 | Get qualification history from initially or re-qualification |

### 3.4.27 createCustomerOrder

| ElementType | OccComment                               |      |                                                                                                                                                                                                                                                                                                                                                      |
|-------------|------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">customerOrderRequestType</a> | 1..1 | Purpose: Place a customer order. Data structure for wrapping related detail orders. Restriction: A customer order can contain at most 1 detail order related to a base product (BASIS_CREATE, BASIS_MODIFY, BASIS_DISCONNECT or ISP_CHANGE). The number of service related detail orders is not restricted. Only one basis order may be listed here. |

### 3.4.28 createCustomerOrderResponse

| ElementType | OccComment                           |      |                                                                              |
|-------------|--------------------------------------|------|------------------------------------------------------------------------------|
| response    | <a href="#">customerOrderAckType</a> | 1..1 | The acknowledge message returned after processing an customer order request. |

### 3.4.29 cancelPendingOrder

| Element | Type                                     | Occ  | Comment                          |
|---------|------------------------------------------|------|----------------------------------|
| request | <a href="#">cancelPendingRequestType</a> | 1..1 | Purpose: Cancel a pending order. |

### 3.4.30 cancelPendingOrderResponse

| ElementType | OccComment                           |      |                                                            |
|-------------|--------------------------------------|------|------------------------------------------------------------|
| response    | <a href="#">cancelPendingAckType</a> | 1..1 | Acknowledge response for the CANCEL_PENDING_ORDER command. |

### 3.4.31 createInstallationTicket

| ElementType | OccComment                                          |      |                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request     | <a href="#">createInstallationTicketRequestType</a> | 1..1 | Purpose: creates a new installation ticket. WSG order number. This order number identifies the service creation order to which the installation ticket belongs. Required if itIdWsgRef and dnVnNsn is missing [LOV- |

|  |  |  |                                                                                                                                                                                                                                                                                                                                               |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | ID: 0320] Contract Element ID. Required if refOrderNr and itIdWsgRef are missing. Reference to installation ticket (2nd intervention). Required if refOrderNr and dnVnNsn is missing DN, VN or NSN. Required if refOrderNr and itIdWsgRef is missing [LOV-ID: 4003] Onsite support. "None" is not allowed. Required if contrEleId is missing. |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.4.32 createInstallationTicketResponse

| Element  | Type                                            | Occ  | Comment                                                          |
|----------|-------------------------------------------------|------|------------------------------------------------------------------|
| response | <a href="#">createInstallationTicketAckType</a> | 1..1 | Acknowledge response for the CREATE_INSTALLATION_TICKET command. |

### 3.4.33 modifyPendingInstallationTicket

| Element | Type                                                       | Occ  | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request | <a href="#">modifyPendingInstallationTicketRequestType</a> | 1..1 | Purpose: Modify a pending installation ticket. WSG order number. This order number identifies the service creation order to which the installation ticket belongs. Requested Contract Element ID. Only relevant if the ticket has no reference by itIdWsgRef or refOrderNr. If missing, onsiteSupport is required. [LOV-ID: 0276] Broadband type. Required if contrEleId is specified. DN, VN or NSN. Only relevant if ticket has no reference by refOrderNr and itIdWsgRef. [LOV-ID: 4003] Onsite support. "None" is not allowed. Required if contrEleId is missing. |

### 3.4.34 modifyPendingInstallationTicketResponse

| Element  | Type                                                   | Occ  | Comment                                                                  |
|----------|--------------------------------------------------------|------|--------------------------------------------------------------------------|
| response | <a href="#">modifyPendingInstallationTicketAckType</a> | 1..1 | Acknowledge response for the MODIFY_PENDING_INSTALLATION_TICKET command. |

### 3.4.35 cancelPendingInstallationTicket

| Element | Type                                                       | Occ  | Comment                                        |
|---------|------------------------------------------------------------|------|------------------------------------------------|
| request | <a href="#">cancelPendingInstallationTicketRequestType</a> | 1..1 | Purpose: cancel a pending installation ticket. |

### 3.4.36 cancelPendingInstallationTicketResponse

| Element  | Type                                                   | Occ  | Comment                                                                  |
|----------|--------------------------------------------------------|------|--------------------------------------------------------------------------|
| response | <a href="#">cancelPendingInstallationTicketAckType</a> | 1..1 | Acknowledge response for the CANCEL_PENDING_INSTALLATION_TICKET command. |

### 3.4.37 getBusinessLines

| Element | Type                                        | Occ  | Comment                                                               |
|---------|---------------------------------------------|------|-----------------------------------------------------------------------|
| request | <a href="#">getBusinessLinesRequestType</a> | 1..1 | Purpose: Get a report for all business lines related to a DDI number. |

### 3.4.38 getBusinessLinesResponse

| Element  | Type                                    | Occ  | Comment                                                                                                           |
|----------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|
| response | <a href="#">getBusinessLinesAckType</a> | 1..1 | Acknowledge response for the GET_BUSINESS_LINES command. Provides business lines related to a STNR or DDI number. |

### 3.4.39 createChangeTicket

| Element | Type                                          | Occ  | Comment                                                                                                                                                                                                                |
|---------|-----------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| request | <a href="#">createChangeTicketRequestType</a> | 1..1 | Input for the createChangeTicket Operation This contact information is used to send the reminder This contact informations is used to send the 2nd reminder (if not present customerContact1 is used for 2nd reminder) |

### 3.4.40 createChangeTicketResponse

| Element  | Type                                           | Occ  | Comment                                                                   |
|----------|------------------------------------------------|------|---------------------------------------------------------------------------|
| response | <a href="#">createChangeTicketResponseType</a> | 1..1 | Output createChangeTicket Operation The change Ticket ID generated by WSG |

### 3.4.41 modifyPendingChangeTicket

| Element | Type                                                 | Occ  | Comment                                           |
|---------|------------------------------------------------------|------|---------------------------------------------------|
| request | <a href="#">modifyPendingChangeTicketRequestType</a> | 1..1 | Input for the modifyPendingChangeTicket Operation |

### 3.4.42 modifyPendingChangeTicketResponse

| Element  | Type                                                  | Occ  | Comment                                    |
|----------|-------------------------------------------------------|------|--------------------------------------------|
| response | <a href="#">modifyPendingChangeTicketResponseType</a> | 1..1 | Output modifyPendingChangeTicket Operation |

### 3.4.43 cancelPendingChangeTicket

| Element | Type                                                 | Occ  | Comment                                   |
|---------|------------------------------------------------------|------|-------------------------------------------|
| request | <a href="#">cancelPendingChangeTicketRequestType</a> | 1..1 | Input cancelPendingChangeTicket Operation |

### 3.4.44 cancelPendingChangeTicketResponse

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|          |                                                       |      |                                            |
|----------|-------------------------------------------------------|------|--------------------------------------------|
| response | <a href="#">cancelPendingChangeTicketResponseType</a> | 1..1 | Output cancelPendingChangeTicket Operation |
|----------|-------------------------------------------------------|------|--------------------------------------------|

### 3.4.45 getChangeTicketOverview

| ElementType |                                                    | OccComment |                                         |
|-------------|----------------------------------------------------|------------|-----------------------------------------|
| request     | <a href="#">getChangeTicketOverviewRequestType</a> | 1..1       | Input getChangeTicketOverview Operation |

### 3.4.46 getChangeTicketOverviewResponse

| ElementType |                                                     | OccComment |                                          |
|-------------|-----------------------------------------------------|------------|------------------------------------------|
| response    | <a href="#">getChangeTicketOverviewResponseType</a> | 1..1       | Output getChangeTicketOverview Operation |

### 3.4.47 getChangeTicketDetailRequestType

**Used by:** [getChangeTicketDetailRequestType](#)

| Element Type |                                                  | Occ Comment |                                       |
|--------------|--------------------------------------------------|-------------|---------------------------------------|
| request      | <a href="#">getChangeTicketDetailRequestType</a> | 1..1        | Input getChangeTicketDetail Operation |

### 3.4.48 getChangeTicketDetailResponse

| ElementType |                                                   | OccComment |                                                                                                                                           |
|-------------|---------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| response    | <a href="#">getChangeTicketDetailResponseType</a> | 1..1       | Output getChangeTicketDetail Operation<br>the requested change ticket List of the work log entries all previous data of the change ticket |

### 3.4.49 readPredecessorEntityRequest

| Element Type |                                                  | Occ Comment |                                      |
|--------------|--------------------------------------------------|-------------|--------------------------------------|
| request      | <a href="#">readPredecessorEntityRequestType</a> | 1..1        | Purpose: search predecessor entities |

### 3.4.50 readPredecessorEntityResponse

| ElementType |                                              | OccComment |                                                                                           |
|-------------|----------------------------------------------|------------|-------------------------------------------------------------------------------------------|
| response    | <a href="#">readPredecessorEntityAckType</a> | 1..1       | The acknowledge message returned after processing an readPredecessorEntity order request. |

### 3.4.51 addPredecessorEntityRequest

| Element Type |                                                 | Occ Comment |                                   |
|--------------|-------------------------------------------------|-------------|-----------------------------------|
| request      | <a href="#">addPredecessorEntityRequestType</a> | 1..1        | Purpose:Add a predecessor Entity. |

### 3.4.52 addPredecessorEntityResponse

| ElementType |                                             | OccComment |                                                                                          |
|-------------|---------------------------------------------|------------|------------------------------------------------------------------------------------------|
| response    | <a href="#">addPredecessorEntityAckType</a> | 1..1       | The acknowledge message returned after processing an addPredecessorEntity order request. |

### 3.4.53 updatePredecessorEntityRequest

| Element Type |                                                    | Occ Comment |                                      |
|--------------|----------------------------------------------------|-------------|--------------------------------------|
| request      | <a href="#">updatePredecessorEntityRequestType</a> | 1..1        | Purpose:update a predecessor Entity. |

### 3.4.54 updatePredecessorEntityResponse

| ElementType                                             | OccComment                                                                                 |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------|
| response <a href="#">updatePredecessorEntityAckType</a> | 1..1 The acknowledge message returned after processing an updatePredecessorEntity request. |

### 3.4.55 removePredecessorEntityRequest

| Element Type                                               | OccComment                                |
|------------------------------------------------------------|-------------------------------------------|
| request <a href="#">removePredecessorEntityRequestType</a> | 1..1 Purpose:remove a predecessor Entity. |

### 3.4.56 removePredecessorEntityResponse

| ElementType                                             | OccComment                                                                                 |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------|
| response <a href="#">removePredecessorEntityAckType</a> | 1..1 The acknowledge message returned after processing an removePredecessorEntity request. |

### 3.4.57 lookUpPredecessorsRequest

| Element Type                                         | Occ Comment                               |
|------------------------------------------------------|-------------------------------------------|
| request <a href="#">lookUpPredecessorRequestType</a> | 1..1 Purpose:search predecessor entrires. |

### 3.4.58 lookUpPredecessorsResponse

| ElementType                                        | OccComment                                                                                    |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------|
| response <a href="#">lookUpPredecessorsAckType</a> | 1..1 The acknowledge message returned after processing an addPredecessorEntity order request. |

### 3.4.59 srvQualifByBindingIdType

**Description:** Get information on possible broadband connections to a given destination by binding ID (accesssId).

**Used by:** [srvQualifByBindingId](#)

**Extension of:** [srvQualifType](#)

| Element Type                       | Occ Comment                                 |
|------------------------------------|---------------------------------------------|
| bindingId xs:string (maxLength:15) | 1..1 The binding id (e.g. AC1.222.333.444). |

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### 3.4.60 srvQualifByNumberType

**Description:** Get information on possible broadband connections to a given destination by DN/VN/NSN.

**Used by:** [srvQualifByNumber](#)

**Extension of:** [srvQualifType](#)

| Element Type                            | Occ Comment                    |
|-----------------------------------------|--------------------------------|
| dnVnNsn xs:string (pattern:0[1-9]\d{8}) | 1..1 A DN/VN/NSN phone number. |

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### 3.4.61 srvQualifByLIIdType

**Description:** Get information on possible broadband connections to a given destination by LLID.

**Used by:** [srvQualifByLlid](#)

**Extension of:** [srvQualifType](#)

| Element | Type                                                    | Occ  | Comment            |
|---------|---------------------------------------------------------|------|--------------------|
| llId    | xs:string (minLength: <b>1</b> , maxLength: <b>13</b> ) | 1..1 | The local loop ID. |

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### 3.4.62 **srvQualifByAddressType**

**Description:** Get information on possible broadband connections to a given destination by address.

**Used by:** [srvQualifByAddress](#)

**Extension of:** [srvQualifType](#)

| Element | Type                                       | Occ  | Comment                              |
|---------|--------------------------------------------|------|--------------------------------------|
| address | <a href="#">subjectAddressEnhancedType</a> | 1..1 | A complete subject's postal address. |

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### 3.4.63 **srvQualifByLocationIdType**

**Description:** Get information on possible broadband connections to a given destination by location.

**Extension of:** [srvQualifType](#)

| Element    | Type   | Occ  | Comment                 |
|------------|--------|------|-------------------------|
| locationId | xs:int | 1..1 | A location id (GAIA ID) |

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### 3.4.64 **srvQualifByStartPointType**

**Description:** Get information on possible broadband connections to a given destination by start point.

**Used by:** [srvQualifByStartPoint](#)

**Extension of:** [srvQualifType](#)

| Element    | Type                                  | Occ  | Comment                        |
|------------|---------------------------------------|------|--------------------------------|
| startPoint | <a href="#">startPointRequestType</a> | 1..1 | start point request parameters |

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### 3.4.65 **appointmentType**

**Description:** An appointment

**Used by:** [appointment](#)

| Element                | Type                              | Occ  | Comment                                           |
|------------------------|-----------------------------------|------|---------------------------------------------------|
| appointmentId          | xs:long (totalDigits: <b>10</b> ) | 1..1 | Appointment ID referencing an existing agreement. |
| appointmentDateTime    | xs:dateTime                       | 1..1 | Date and Time of an Appointment                   |
| appointmentEndDateTime | xs:dateTime                       | 0..1 | End Date and Time of an Appointment               |

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### 3.4.66 srvQualifType

**Description:** Get information on possible broadband connections to a given destination. (abstract)

**Extended by:** [srvQualifByBindingIdType](#), [srvQualifByNumberType](#), [srvQualifByLIIdType](#), [srvQualifByAddressType](#), [srvQualifByLocationIdType](#), [srvQualifByStartPointType](#)

**Extension of:** [requestType](#)

| Element            | Type                                                    | Occ  | Comment                                                                                      |
|--------------------|---------------------------------------------------------|------|----------------------------------------------------------------------------------------------|
| basisContrEleId    | xs:int (totalDigits: <b>3</b> )                         | 1..1 | [LOV-ID: 0320] A basis contract element ID                                                   |
| contrEleId         | xs:int (totalDigits: <b>3</b> )                         | 0..n | [LOV-ID: 0320] A contract element ID.                                                        |
| bbType             | xs:int (totalDigits: <b>3</b> )                         | 0..n | [LOV-ID: 0276] The BB type.                                                                  |
| dnType             | xs:int (totalDigits: <b>3</b> )                         | 0..n | [LOV-ID: 0109] The DN type.                                                                  |
| qualifExtRef       | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> ) | 0..1 | An external reference (assigned by the ISP) for identification of the qualification request. |
| customerWishDate   | xs:date                                                 | 0..1 | The customer wish date.                                                                      |
| synchWithVoice     | xs:boolean                                              | 0..1 | Synchronize with voice.                                                                      |
| lineState          | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 1052] The copper line state.                                                        |
| newLoop            | xs:boolean                                              | 0..1 | Qualify for a new loop.                                                                      |
| sfSlaId            | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 0282] The service fulfillment SLA ID.                                               |
| hasOnp             | xs:boolean                                              | 0..1 |                                                                                              |
| businessType       | xs:int (totalDigits: <b>3</b> )                         | 0..1 |                                                                                              |
| returnSpeedAtNok   | xs:boolean                                              | 0..1 |                                                                                              |
| appointment        | <a href="#">appointmentType</a>                         | 0..1 |                                                                                              |
| customerLocationId | xs:int                                                  | 0..1 |                                                                                              |

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### 3.4.67 orderAckType

**Description:** The acknowledge message returned after processing an order request.

**Used by:** [customerOrderAckType](#)

**Extension of:** [ackType](#)

| Element | Type                                              | Occ  | Comment       |
|---------|---------------------------------------------------|------|---------------|
| orderNr | xs:string (pattern:[ <b>1-9</b> ]\d{ <b>25</b> }) | 0..1 | The order ID. |

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### 3.4.68 addPredecessorEntityAckType

**Description:** The acknowledge message returned after processing an *addPredecessorEntity* order request.

**Used by:** [addPredecessorEntityResponse](#)

**Extension of:** [ackType](#)

| Element             | Type    | Occ  | Comment                    |
|---------------------|---------|------|----------------------------|
| predecessorEntityId | xs:long | 0..1 | The predecessor entity id. |

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### 3.4.69 customerOrderAckType

**Description:** The acknowledge message returned after processing an *customer order* request.

**Used by:** [getOrderGroupNrResponse](#), [createCustomerOrderResponse](#)

**Extension of:** [ackType](#)

| Element                | Type                            | Occ  | Comment                                                             |
|------------------------|---------------------------------|------|---------------------------------------------------------------------|
| customerOrderNr        | xs:string (pattern:[1-9]\d{25}) | 0..1 | The customer order ID.                                              |
| orderGroupNr           | xs:long (totalDigits:12)        | 0..1 | The order group ID.                                                 |
| nsn                    | xs:string (pattern:010\d{7})    | 0..1 | A Net Service Number                                                |
| preOrderActivationCode | xs:string                       | 0..1 | The activation code for preOrders                                   |
| orderItem              | <a href="#">orderAckType</a>    | 0..n | The acknowledge message returned after processing an order request. |

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### 3.4.70 cancelPendingInstallationTicketAckType

**Description:** Acknowledge response for the *CANCEL\_PENDING\_INSTALLATION\_TICKET* command.

**Used by:** [cancelPendingInstallationTicketResponse](#)

**Extension of:** [ackType](#)

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### 3.4.71 cancelPendingAckType

**Description:** Acknowledge response for the *CANCEL\_PENDING\_ORDER* command.

**Used by:** [cancelPendingOrderResponse](#)

**Extension of:** [ackType](#)

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### 3.4.72 createInstallationTicketAckType

**Description:** Acknowledge response for the *CREATE\_INSTALLATION\_TICKET* command.

**Used by:** [createInstallationTicketResponse](#)

**Extension of:** [ackType](#)

| Element | Type                                 | Occ  | Comment                                |
|---------|--------------------------------------|------|----------------------------------------|
| itIdWsg | xs:decimal (totalDigits: <b>10</b> ) | 0..1 | Installation ticket id assigned by WSG |

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### 3.4.73 **getBusinessLinesAckType**

**Description:** Acknowledge response for the GET\_BUSINESS\_LINES command. Provides business lines related to a STNR or DDI number.

**Used by:** [getBusinessLinesResponse](#)

**Extension of:** [ackType](#)

| Element  | Type                     | Occ  | Comment                                                      |
|----------|--------------------------|------|--------------------------------------------------------------|
| stnr     | xs:string                | 0..1 | STNR which belongs to the PABX.                              |
| vnRecord | <a href="#">vnRecord</a> | 0..n | A business line identity (VN) (= Verrechnungsnummer) record. |

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### 3.4.74 **getDetailAckType**

**Description:** Acknowledge response for the GET\_DETAIL command.

**Used by:** [getOrderDetailResponse](#)

**Extension of:** [ackType](#)

| Element       | Type                              | Occ  | Comment                                                                         |
|---------------|-----------------------------------|------|---------------------------------------------------------------------------------|
| customerOrder | <a href="#">customerOrderType</a> | 0..1 | The generic customer order type. A list of orders (E.g. base or service order). |

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### 3.4.75 **getInstallationTicketDetailAckType**

**Description:** LIST-response for the GET\_INSTALLATION\_TICKET\_DETAIL command. Lists a bunch of matching installation ticket.

**Used by:** [getInstallationTicketDetailResponse](#)

**Extension of:** [ackType](#)

| Element | Type                   | Occ  | Comment                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ticket  | <a href="#">ticket</a> | 0..1 | An installation ticket and its details. [LOV-ID: 4003] Onsite support. "None" is not allowed. Required if contrEleId is missing. WSG order number. This order number identifies the service creation order to which the installation ticket belongs. Required if itIdWsgRef and dnVnNsn is missing DN, VN or NSN. Required if refOrderNr and itIdWsgRef is missing A history entry of the ticket |

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### 3.4.76 **getOrderGroupNrAckType**

**Description:** Acknowledge response for the GET\_ORDER\_GROUP\_NR command.

**Extension of:** [ackType](#)

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|              |                                   |      |                     |
|--------------|-----------------------------------|------|---------------------|
| orderGroupNr | xs:long (totalDigits: <b>12</b> ) | 0..1 | The order group ID. |
|--------------|-----------------------------------|------|---------------------|

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### 3.4.77 getServiceStatusAckType

**Description:** Acknowledge response for the GET\_SERVICE\_STATUS command. Provides status information on a currently installed product or service.

**Used by:** [getSrvStatusResponse](#)

**Extension of:** [ackType](#)

| Element | Type                                         | Occ  | Comment                 |
|---------|----------------------------------------------|------|-------------------------|
| status  | <a href="#">getServiceStatusResponseType</a> | 0..1 | Service status response |

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### 3.4.78 getTransactionOverviewAckType

**Description:** This class represents a response message returned by the getTransactionOverview operation.

**Used by:** [getTransactionOverviewResponse](#)

**Extension of:** [ackType](#)

| Element Type |               |                         |      | Occ                                                                                                                                                                            | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|---------------|-------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| transaction  | Element       | Type                    | Occ  | Comment                                                                                                                                                                        | A list of selected transaction records sorted descending by time. This class represents a transaction record documenting any action on a WORK_ORDER, a VOICE_MESSAGE, an ACCESS_TICKET, a WORK_TICKET or an ALARM. Timestamp of last modification. (not null) The name of the user that performed the last modification. (not null) if transType1 = WORK_ORDER, then transType2 = 1001 if transType1 = VOICE_MESSAGE, then transType2 = 1201 if transType1 = VOICE_MESSAGE, then transType2 = 1201 if transType1 = |
|              | transDateTime | xs:dateTime             | 1..1 | Timestamp of last modification. (not null)                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|              | userName      | xs:string               | 1..1 | The name of the user that performed the last modification. (not null)                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|              | transType1    | xs:int (totalDigits: 3) | 1..1 | [LOV-ID: 9001] The type of transition. (1 = WORK_ORDER; 2 = VOICE_MESSAGE; 3 = ACCESS_TICKET; 4 = WORK_TICKET; 5 = ALARM)                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|              | transType2    | xs:int (totalDigits: 3) | 0..1 | if transType1 = WORK_ORDER, then transType2 = 1001 if transType1 = VOICE_MESSAGE, then transType2 = 1201 if transType1 = VOICE_MESSAGE, then transType2 = 1201 if transType1 = |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|            |                                                                     |      |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|---------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                     |      | ACCESS_TICKET, then<br>transType2 = empty if<br>transType1 =<br>WORK_TICKET , then<br>transType2 = 4002                                                  | ACCESS_TICKET, then<br>transType2 = empty if<br>transType1 =<br>WORK_TICKET , then<br>transType2 = 4002 The<br>transaction ID. (e.g. if<br>transType1:=WORK_O<br>RDER then<br>transId:=ORDER_ID)<br>(not null) The<br>transaction state. (e.g.<br>if<br>transType1=WORK_OR<br>DER then<br>transType2:=ORDER_S<br>TATE hence<br>transType2=2 means<br>'HOLDING') (not null)<br>The ID of the ISP<br>involved in the<br>transaction. (not null)<br>The name of the ISP<br>involved in the<br>transaction. (not null)<br>The ID of a second ISP<br>involved in the<br>transaction. The name<br>of a second ISP<br>involved in the<br>transaction. The<br>DN/VN/NSN associated<br>to that transaction.<br>(not null) A second<br>DN/VN/NSN associated<br>to that transaction. A<br>transaction response<br>message. |
| transId    | xs:integer                                                          | 1..1 | The transaction ID.<br>(e.g. if<br>transType1:=WORK_O<br>RDER then<br>transId:=ORDER_ID)<br>(not null)                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| transState | xs:int<br>(totalDigits:<br><b>3</b> )                               | 1..1 | The transaction state.<br>(e.g. if<br>transType1=WORK_OR<br>DER then<br>transType2:=ORDER_S<br>TATE hence<br>transType2=2 means<br>'HOLDING') (not null) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ispId1     | xs:int<br>(totalDigits:<br><b>6</b> )                               | 1..1 | The ID of the ISP<br>involved in the<br>transaction. (not null)                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ispName1   | xs:string<br>(minLength:<br><b>1</b> ,<br>maxLength:<br><b>30</b> ) | 1..1 | The name of the ISP<br>involved in the<br>transaction. (not null)                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ispId2     | xs:int<br>(totalDigits:<br><b>6</b> )                               | 0..1 | The ID of a second ISP<br>involved in the<br>transaction.                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ispName2   | xs:string<br>(minLength:<br><b>1</b> ,<br>maxLength:<br><b>30</b> ) | 0..1 | The name of a second<br>ISP involved in the<br>transaction.                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| dnVnNsn1   | xs:string<br>(pattern: <b>0[1-9]\d{8}</b> )                         | 1..1 | The DN/VN/NSN<br>associated to that<br>transaction. (not null)                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| dnVnNsn2   | xs:string<br>(pattern: <b>0[1-9]\d{8}</b> )                         | 0..1 | A second DN/VN/NSN<br>associated to that<br>transaction.                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| response   | xs:string                                                           | 0..1 | A transaction response<br>message.                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| extRef     | xs:string                                                           | 0    | An external reference                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|  |  |                               |   |                      |  |  |
|--|--|-------------------------------|---|----------------------|--|--|
|  |  | (minLength: 1, maxLength: 80) | 1 | provided by the ISP. |  |  |
|--|--|-------------------------------|---|----------------------|--|--|

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### 3.4.79 getTdmMessageDetailAckType

**Used by:** [getTdmMsgDetailResponse](#)

**Extension of:** [ackType](#)

| Element    | Type                       | Occ  | Comment             |
|------------|----------------------------|------|---------------------|
| tdmMessage | <a href="#">tdmMessage</a> | 0..1 | TDM message (step). |

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### 3.4.80 modifyPendingInstallationTicketAckType

**Description:** Acknowledge response for the MODIFY\_PENDING\_INSTALLATION\_TICKET command.

**Used by:** [modifyPendingInstallationTicketResponse](#)

**Extension of:** [ackType](#)

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### 3.4.81 lookUpPredecessorsAckType

**Description:** The acknowledge message returned after processing an addPredecessorEntity order request.

**Used by:** [lookUpPredecessorsResponse](#)

**Extension of:** [ackType](#)

| Element                   | Type                                          | Occ  | Comment                                              |
|---------------------------|-----------------------------------------------|------|------------------------------------------------------|
| lookUpPredecessorEntities | <a href="#">lookUpPredecessorEntitiesType</a> | 1..1 | the entities for the lookUpPredecessorsEntities call |

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### 3.4.82 readPredecessorEntityAckType

**Description:** The acknowledge message returned after processing an readPredecessorEntity order request.

**Used by:** [readPredecessorEntityResponse](#)

**Extension of:** [ackType](#)

| Element           | Type                                  | Occ  | Comment              |
|-------------------|---------------------------------------|------|----------------------|
| predecessorEntity | <a href="#">predecessorEntityType</a> | 1..n | a predecessor entity |

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### 3.4.83 updatePredecessorEntityAckType

**Description:** The acknowledge message returned after processing an updatePredecessorEntity request.

**Used by:** [updatePredecessorEntityResponse](#)

**Extension of:** [ackType](#)

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### 3.4.84 removePredecessorEntityAckType

**Description:** The acknowledge message returned after processing an removePredecessorEntity request.

**Used by:** [removePredecessorEntityResponse](#)

**Extension of:** [ackType](#)

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### 3.4.85 qualifAcknowledgeType

**Description:** The acknowledge message returned after processing an qualification request.

**Used by:** [srvQualifByNumberResponse](#), [srvQualifByAddressResponse](#), [srvQualifByLlidResponse](#), [srvQualifByStartPointResponse](#), [srvQualifBySocketResponse](#), [srvQualifByBindingIdResponse](#)

**Extension of:** [ackType](#)

| Element             | Type                                        | Occ  | Comment                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|---------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dnStnr              | xs:string<br>(pattern: <b>0[1-9]\d{8}</b> ) | 0..1 | The DN "Stammnummer".                                                                                                                                                                                                                                                                                                                                                                       |
| qualificationResult | <a href="#">qualificationResult</a>         | 0..n | Represents a technology (bbType) specific quali response. Is mandatory for the B2B Interface; The LQS Service Availability Qualification Interface does not use this element A list of qualification answers for this particular BB type and service mix combination. LQS Service Availability Qualification Interface: qualifAnswer occurs only once A fiber (bbcs-f) qualification answer |

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### 3.4.86 getQualifHistoryAckType

**Description:** Get qualification history from initialy or re- qualification

**Used by:** [getQualifHistoryResponse](#)

**Extension of:** [ackType](#)

| Element              | Type                                     | Occ  | Comment                                                       |
|----------------------|------------------------------------------|------|---------------------------------------------------------------|
| qualifLogId          | xs:long (totalDigits: <b>10</b> )        | 1..1 | Qualification Log Id                                          |
| transDateTime        | xs:dateTime                              | 1..1 | The transition date/time.                                     |
| orderNr              | xs:string (pattern: <b>[1-9]\d{25}</b> ) | 0..1 | The order ID.                                                 |
| groupId              | xs:long (totalDigits: <b>10</b> )        | 0..1 | A group Id of a TDM message.                                  |
| qualifHistoryRequest | <a href="#">qualifHistoryReqDataType</a> | 1..1 | The qualification request from the history selected time slot |

|                       |                                          |      |                                             |
|-----------------------|------------------------------------------|------|---------------------------------------------|
| qualifHistoryResponse | <a href="#">qualifHistoryResDataType</a> | 1..1 | The qualification response from the history |
|-----------------------|------------------------------------------|------|---------------------------------------------|

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### 3.4.87 createChangeTicketResponseType

**Description:** Output createChangeTicket Operation

**Used by:** [createChangeTicketResponse](#)

**Extension of:** [ackType](#)

| Element        | Type                                 | Occ  | Comment |
|----------------|--------------------------------------|------|---------|
| changeTicketId | xs:decimal (totalDigits: <b>10</b> ) | 0..1 |         |

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### 3.4.88 modifyPendingChangeTicketResponseType

**Description:** Output modifyPendingChangeTicket Operation

**Used by:** [modifyPendingChangeTicketResponse](#)

**Extension of:** [ackType](#)

| Element        | Type                                 | Occ  | Comment                          |
|----------------|--------------------------------------|------|----------------------------------|
| changeTicketId | xs:decimal (totalDigits: <b>10</b> ) | 0..1 | Change Ticket ID assigned by WSG |

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### 3.4.89 cancelPendingChangeTicketResponseType

**Description:** Output cancelPendingChangeTicket Operation

**Used by:** [cancelPendingChangeTicketResponse](#)

**Extension of:** [ackType](#)

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### 3.4.90 getChangeTicketOverviewResponseType

**Description:** Output getChangeTicketOverview Operation

**Used by:** [getChangeTicketOverviewResponse](#)

**Extension of:** [ackType](#)

| Element | Type               | Occ                                  | Comment                                                       |
|---------|--------------------|--------------------------------------|---------------------------------------------------------------|
| list    | changeTicketId     | xs:decimal (totalDigits: <b>10</b> ) | 0..1 Change Ticket ID assigned by WSG                         |
|         | changeTicketStatus | xs:int (totalDigits: <b>3</b> )      | 1..1 [LOV-ID: 3021 Change Ticket Status                       |
|         | statusReason       | xs:int (totalDigits: <b>3</b> )      | 0..1 [LOV-ID: 3022] A Status Reason set by the backend system |
|         | extRef             | xs:string                            | 0..1 An external reference                                    |

|                          |                             |      |                                                                                                                                                                   |
|--------------------------|-----------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | (minLength:1, maxLength:80) | 1    | provided by the ISP.                                                                                                                                              |
| exchangeDate             | xs:date                     | 1..1 | designated date for the exchange                                                                                                                                  |
| exchangeType             | xs:int (totalDigits:3)      | 1..1 | [LOV-ID: 3020] What must be exchanged (1 = CPE Hardware: 2 = CPE Firmware)                                                                                        |
| reminderProcess          | xs:int (totalDigits:3)      | 1..1 | [LOV-ID: 9012] LOV_REMINDER_PROCESS (1 = first reminder at exchange date, second reminder after 5 days ; 2 = first reminder at exchange date, no second reminder) |
| creationDateTime         | xs:dateTime                 | 1..1 |                                                                                                                                                                   |
| lastModificationDateTime | xs:dateTime                 | 1..1 |                                                                                                                                                                   |

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### 3.4.91 getChangeTicketDetailResponseType

**Description:** Output getChangeTicketDetail Operation

**Used by:** [getChangeTicketDetailResponse](#)

**Extension of:** [ackType](#)

| Element      | Type                             | Occ  | Comment                      |
|--------------|----------------------------------|------|------------------------------|
| changeTicket | <a href="#">changeTicketType</a> | 0..1 |                              |
| workLog      | <a href="#">workLogType</a>      | 0..n | List of the work log entries |
| historyItem  | <a href="#">changeTicketType</a> | 0..n |                              |

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### 3.4.92 ackType

**Description:** The generic acknowledge response type.

**Extended by:** [orderAckType](#), [addPredecessorEntityAckType](#), [customerOrderAckType](#), [cancelPendingInstallationTicketAckType](#), [cancelPendingAckType](#), [createInstallationTicketAckType](#), [getBusinessLinesAckType](#), [getDetailAckType](#), [getInstallationTicketDetailAckType](#), [getOrderGroupNrAckType](#), [getServiceStatusAckType](#), [getTransactionOverviewAckType](#), [getTdmMessageDetailAckType](#), [modifyPendingInstallationTicketAckType](#), [lookUpPredecessorsAckType](#), [readPredecessorEntityAckType](#),

[updatePredecessorEntityAckType](#), [removePredecessorEntityAckType](#),  
[qualifAcknowledgeType](#), [getQualifHistoryAckType](#),  
[createChangeTicketResponseType](#), [modifyPendingChangeTicketResponseType](#),  
[cancelPendingChangeTicketResponseType](#),  
[getChangeTicketOverviewResponseType](#), [getChangeTicketDetailResponseType](#)

**Extension of:** [messageType](#)

| Element       | Type                                   | Occ  | Comment                                                                                    |
|---------------|----------------------------------------|------|--------------------------------------------------------------------------------------------|
| success       | xs:boolean                             | 1..1 | The result code for the transaction ("true" if request was successful, "false" otherwise). |
| reason        | xs:string (pattern:[\dA-Z]{3})         | 0..1 | A 3-letter error code (aka messageId) where "000" means "ok".                              |
| reasonComment | xs:string (minLength:1, maxLength:256) | 0..1 | Some additional textual description for the reason.                                        |

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### 3.4.93 cancelPendingRequestType

**Description:** Purpose: Cancel a pending order.

**Used by:** [cancelPendingOrder](#)

**Extension of:** [requestType](#)

| Element | Type                                   | Occ  | Comment       |
|---------|----------------------------------------|------|---------------|
| orderNr | xs:string (pattern:[1-9]\d{25})        | 1..1 | The order ID. |
| comment | xs:string (minLength:1, maxLength:256) | 0..1 | A comment.    |

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### 3.4.94 cancelPendingInstallationTicketRequestType

**Description:** Purpose: cancel a pending installation ticket.

**Used by:** [cancelPendingInstallationTicket](#)

**Extension of:** [requestType](#)

| Element | Type                                   | Occ  | Comment                                |
|---------|----------------------------------------|------|----------------------------------------|
| itIdWsg | xs:decimal (totalDigits:10)            | 1..1 | Installation ticket id assigned by WSG |
| comment | xs:string (minLength:1, maxLength:256) | 0..1 | A comment.                             |

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### 3.4.95 createInstallationTicketRequestType

**Description:** Purpose: creates a new installation ticket.

**Used by:** [createInstallationTicket](#)

**Extension of:** [requestType](#)

| Element    | Type                            | Occ  | Comment |
|------------|---------------------------------|------|---------|
| refOrderNr | xs:string (pattern:[1-9]\d{25}) | 0..1 |         |
| contrEleId | xs:int (totalDigits:3)          | 0..1 |         |
| itIdWsgRef | xs:decimal                      | 0..1 |         |

|                           |                                                          |      |                                                                                                              |
|---------------------------|----------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
|                           | (totalDigits: <b>10</b> )                                |      |                                                                                                              |
| bbType                    | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 0276] The BB type.                                                                                  |
| dnVnNsn                   | xs:string (pattern: <b>0[1-9]\d{8}</b> )                 | 0..1 |                                                                                                              |
| custBusinessNr            | xs:string (maxLength: <b>12</b> )                        | 0..1 | The customer business number.                                                                                |
| onsiteSupport             | xs:int (totalDigits: <b>3</b> )                          | 0..1 |                                                                                                              |
| ispItRef                  | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | An external reference (an ID assigned by the ISP) identifying the installation ticket                        |
| endUser                   | <a href="#">endUser</a>                                  | 1..1 | Contact information on the end user (name, phone numbers, etc)                                               |
| holdFlag                  | xs:boolean                                               | 0..1 | If set to true the Installation Ticket is hold until Hardware Delivery Date.                                 |
| hwDeliveryState           | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4007] Hardware Delivery State.                                                                      |
| hwDeliveryDate            | xs:date                                                  | 0..1 | Hardware Delivery Date.                                                                                      |
| hwDeliveryLocation        | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Hardware delivery location                                                                                   |
| hwType                    | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | CPE Description                                                                                              |
| hwExtRefReq               | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Additional Information if ONSITE_SUPPORT is not set to 1="None": CPE SAP Order-Number of equipment requested |
| installDateTimeRange      | <a href="#">dateTimeRangeType</a>                        | 0..1 | Installation frame.                                                                                          |
| installationType          | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | Additional installation description.                                                                         |
| additionalInstallationReq | xs:int (totalDigits: <b>3</b> )                          | 0..n | [LOV-ID: 4004] The requested additional installation support.                                                |
| appointmentId             | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.                                                            |
| wosId                     | xs:string (maxLength: <b>17</b> )                        | 0..1 | The work order synchronisation ID.                                                                           |

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### 3.4.96 customerOrderRequestType

**Description:** Purpose: Place a customer order. Data structure for wrapping related detail orders. Restriction: A customer order can contain at most 1 detail order related to a base product (BASIS\_CREATE, BASIS\_MODIFY, BASIS\_DISCONNECT or ISP\_CHANGE). The number of service related detail orders is not restricted.

**Used by:** [createCustomerOrder](#)

**Extension of:** [requestType](#)

| Element              | Type                                                                                                                                                                                                                                                                                                          | Occ                             | Comment                                                                                                                                                                                                    |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------|---------|---------------------------------|------|---------------------------|-----|-------------------------------|------|-----------------------------|------|--|
| customerOrderNr      | xs:string (pattern:[1-9]\d{25})                                                                                                                                                                                                                                                                               | 0..1                            | The customer order ID.                                                                                                                                                                                     |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| orderGroupNr         | xs:long (totalDigits:12)                                                                                                                                                                                                                                                                                      | 0..1                            | The order group ID.                                                                                                                                                                                        |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| wosId                | xs:string (maxLength:17)                                                                                                                                                                                                                                                                                      | 0..1                            | The work order synchronisation ID.                                                                                                                                                                         |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| qualification        | <a href="#">qualification</a>                                                                                                                                                                                                                                                                                 | 0..1                            | Required if the base product is not BBCS on TDM (Contract Element 110). The qualification Nr is optional for a base product with Contract Element 110. The qualification Nr must be valid and not expired. |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| creationType         | xs:int (totalDigits:3)                                                                                                                                                                                                                                                                                        | 1..1                            | [LOV-ID: 1003] The so-called "kind of creation" of an order.                                                                                                                                               |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| deliveryNotification | xs:boolean                                                                                                                                                                                                                                                                                                    | 0..1                            | Notification if x day before planned activation the order isn't ready.                                                                                                                                     |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| order                | <a href="#">orderRequestType</a>                                                                                                                                                                                                                                                                              | 1..n                            |                                                                                                                                                                                                            |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
| - <i>choice:</i>     | <table><tr><th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr><tr><td>dnVnNsn</td><td>xs:string (pattern:0[1-9]\d{8})</td><td>1..1</td><td>A DN/VN/NSN phone number.</td></tr><tr><td>oto</td><td><a href="#">simpleOtoType</a></td><td>1..1</td><td>Optical termination outlet.</td></tr></table> | Element                         | Type                                                                                                                                                                                                       | Occ                         | Comment | dnVnNsn | xs:string (pattern:0[1-9]\d{8}) | 1..1 | A DN/VN/NSN phone number. | oto | <a href="#">simpleOtoType</a> | 1..1 | Optical termination outlet. | 0..1 |  |
|                      | Element                                                                                                                                                                                                                                                                                                       | Type                            | Occ                                                                                                                                                                                                        | Comment                     |         |         |                                 |      |                           |     |                               |      |                             |      |  |
|                      | dnVnNsn                                                                                                                                                                                                                                                                                                       | xs:string (pattern:0[1-9]\d{8}) | 1..1                                                                                                                                                                                                       | A DN/VN/NSN phone number.   |         |         |                                 |      |                           |     |                               |      |                             |      |  |
|                      | oto                                                                                                                                                                                                                                                                                                           | <a href="#">simpleOtoType</a>   | 1..1                                                                                                                                                                                                       | Optical termination outlet. |         |         |                                 |      |                           |     |                               |      |                             |      |  |
|                      |                                                                                                                                                                                                                                                                                                               |                                 |                                                                                                                                                                                                            |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |
|                      |                                                                                                                                                                                                                                                                                                               |                                 |                                                                                                                                                                                                            |                             |         |         |                                 |      |                           |     |                               |      |                             |      |  |

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**3.4.97 getBusinessLinesRequestType**

**Description:** Purpose: Get a report for all business lines related to a DDI number.

**Used by:** [getBusinessLines](#)

**Extension of:** [requestType](#)

| Element | Type                            | Occ  | Comment                                  |
|---------|---------------------------------|------|------------------------------------------|
| stnrDdi | xs:string (pattern:0[1-9]\d{8}) | 1..1 | The base number ("Stammnummer") for DDI. |

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**3.4.98 getOrderGroupNrRequestType**

**Description:** Purpose: Obtain a unique number for grouping customer orders. Order group numbers can be used by the ISP to identify related customer orders, e.g. in a LIST\_ORDERS command. The resulting order group number will be returned in the ack file.

**Used by:** [getOrderGroupNr](#)

**Extension of:** [requestType](#)

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### 3.4.99 getServiceStatusRequestType

**Description:** Purpose: Obtain status information on a currently installed product or service.

**Used by:** [getSrvStatus](#)

**Extension of:** [requestType](#)

| ElementType |             |                                          |      | OccComment                  |      |
|-------------|-------------|------------------------------------------|------|-----------------------------|------|
| -           | ElementType |                                          | Occ  | Comment                     | 1..1 |
|             | dnVnNsn     | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1 |                             |      |
|             | oto         | <a href="#">simpleOtoType</a>            | 1..1 | Optical termination outlet. |      |

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### 3.4.100 modifyPendingInstallationTicketRequestType

**Description:** Purpose: Modify a pending installation ticket.

**Used by:** [modifyPendingInstallationTicket](#)

**Extension of:** [requestType](#)

| Element        | Type                                                    | OccComment |                                                                                |
|----------------|---------------------------------------------------------|------------|--------------------------------------------------------------------------------|
| itIdWsg        | xs:decimal (totalDigits: <b>10</b> )                    | 1..1       | Installation ticket id assigned by WSG                                         |
| itIdWsgRef     | xs:decimal (totalDigits: <b>10</b> )                    | 0..1       | Reference to installation ticket (2nd intervention)                            |
| refOrderNr     | xs:string (pattern: <b>[1-9]\d{25}</b> )                | 0..1       |                                                                                |
| contrEleId     | xs:int (totalDigits: <b>3</b> )                         | 0..1       |                                                                                |
| bbType         | xs:int (totalDigits: <b>3</b> )                         | 0..1       |                                                                                |
| dnVnNsn        | xs:string (pattern: <b>0[1-9]\d{8}</b> )                | 0..1       |                                                                                |
| custBusinessNr | xs:string (maxLength: <b>12</b> )                       | 0..1       | The customer business number.                                                  |
| onsiteSupport  | xs:int (totalDigits: <b>3</b> )                         | 0..1       |                                                                                |
| ispItRef       | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> ) | 0..1       | An external reference (an ID assigned by the ISP) identifying the installation |

|                           |                                                          |      |                                                                                                              |
|---------------------------|----------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
|                           |                                                          |      | ticket                                                                                                       |
| endUser                   | <a href="#">endUser</a>                                  | 1..1 | Contact information on the end user (name, phone numbers, etc)                                               |
| holdFlag                  | xs:boolean                                               | 0..1 | If set to true the Installation Ticket is hold until Hardware Delivery Date.                                 |
| hwDeliveryState           | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4007] Hardware Delivery State.                                                                      |
| hwDeliveryDate            | xs:date                                                  | 0..1 | Hardware Delivery Date.                                                                                      |
| hwDeliveryLocation        | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Hardware delivery location                                                                                   |
| hwType                    | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | CPE Description                                                                                              |
| hwExtRefReq               | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Additional Information if ONSITE_SUPPORT is not set to 1="None": CPE SAP Order-Number of equipment requested |
| installDateTimeRange      | <a href="#">dateTimeRangeType</a>                        | 0..1 | Installation frame.                                                                                          |
| installationType          | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | Additional installation description.                                                                         |
| additionalInstallationReq | xs:int (totalDigits: <b>3</b> )                          | 0..n | [LOV-ID: 4004] The requested additional installation support.                                                |
| appointmentId             | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.                                                            |
| wosId                     | xs:string (maxLength: <b>17</b> )                        | 0..1 | The work order synchronisation ID.                                                                           |

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### 3.4.101 **getDetailRequestType**

**Description:** Purpose: Get details of a customer order.

**Used by:** [getOrderDetail](#)

**Extension of:** [requestType](#)

| ElementType  |                 |                                                   |      |                        | OccComment |  |
|--------------|-----------------|---------------------------------------------------|------|------------------------|------------|--|
| -<br>choice: | Element         | Type                                              | Occ  | Comment                | 1..1       |  |
|              | orderNr         | xs:string (pattern:[ <b>1-9</b> ]\d{ <b>25</b> }) | 1..1 | The order ID.          |            |  |
|              | customerOrderNr | xs:string (pattern:[ <b>1-9</b> ]\d{ <b>25</b> }) | 1..1 | The customer order ID. |            |  |

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### 3.4.102 **getInstallationTicketDetailRequestType**

**Description:** Purpose: Get details of an installation ticket.

**Used by:** [getInstallationTicketDetail](#)

**Extension of:** [requestType](#)

| Element | Type                                 | Occ  | Comment                                |
|---------|--------------------------------------|------|----------------------------------------|
| itIdWsg | xs:decimal (totalDigits: <b>10</b> ) | 1..1 | Installation ticket id assigned by WSG |

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### 3.4.103 **getTdmMessageDetailRequestType**

**Description:** Purpose: Get a TDM message with a specific log ID.

**Used by:** [getTdmMsgDetail](#)

**Extension of:** [requestType](#)

| Element | Type    | Occ  | Comment                    |
|---------|---------|------|----------------------------|
| logId   | xs:long | 1..1 | A log ID of a TDM message. |

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### 3.4.104 **getTransactionOverviewRequestType**

**Description:** Purpose: List transactions.

**Used by:** [getTransactionOverview](#)

**Extension of:** [requestType](#)

| Element Type     |                                          | Occ                               | Comment                                                                                                                      |                                    |      |  |
|------------------|------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|--|
| dnVnNsn          | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1                              | A DN/VN/NSN phone number.                                                                                                    |                                    |      |  |
| transType1       | xs:int (totalDigits: <b>3</b> )          | 0..n                              | [LOV-ID: 9001]<br>The type of transition. (1 = WORK_ORDER; 2 = VOICE_MESSAGE; 3 = ACCESS_TICKET; 4 = WORK_TICKET; 5 = ALARM) |                                    |      |  |
| - <b>choice:</b> | Element                                  | Type                              | Occ                                                                                                                          | Comment                            | 0..1 |  |
|                  | transDateTimeRange                       | <a href="#">dateTimeRangeType</a> | 1..1                                                                                                                         | A range of transition dates/times. |      |  |
|                  | transDateTime                            | xs:dateTime                       | 1..1                                                                                                                         | The transition date/time.          |      |  |

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### 3.4.105 **addPredecessorEntityRequestType**

**Description:** Purpose: Add a predecessor Entity.

**Used by:** [addPredecessorEntityRequest](#)

**Extension of:** [requestType](#)

| Element         | Type                                     | Occ  | Comment                   |
|-----------------|------------------------------------------|------|---------------------------|
| dnVnNsn         | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1 | A DN/VN/NSN phone number. |
| predecessorName | <a href="#">subjectAddressNameType</a>   | 1..1 |                           |
| phoneNr         | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 0..1 | The voice phone number.   |

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### 3.4.106 **lookupPredecessorRequestType**

**Description:** Purpose: search predecessor entrires.

**Used by:** [lookupPredecessorsRequest](#)

**Extension of:** [requestType](#)

| ElementType    |         |                                          |      |                         | Occ  | Comment |
|----------------|---------|------------------------------------------|------|-------------------------|------|---------|
| <b>choice:</b> | Element | Type                                     | Occ  | Comment                 | 1..1 |         |
|                | phoneNr | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1 | The voice phone number. |      |         |

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### 3.4.107 **readPredecessorEntityRequestType**

**Description:** Purpose: search predecessor entities

**Used by:** [readPredecessorEntityRequest](#)

**Extension of:** [requestType](#)

| ElementType    |                     |                                          |      |                            | Occ  | Comment |
|----------------|---------------------|------------------------------------------|------|----------------------------|------|---------|
| <b>choice:</b> | Element             | Type                                     | Occ  | Comment                    | 1..1 |         |
|                | dnVnNsn             | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1 | A DN/VN/NSN phone number.  |      |         |
|                | phoneNr             | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1 | The voice phone number.    |      |         |
|                | predecessorEntityId | xs:long                                  | 1..1 | The predecessor entity id. |      |         |

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### 3.4.108 **removePredecessorEntityRequestType**

**Description:** Purpose: remove a predecessor Entity.

**Used by:** [removePredecessorEntityRequest](#)

**Extension of:** [requestType](#)

| Element             | Type    | Occ  | Comment                    |
|---------------------|---------|------|----------------------------|
| predecessorEntityId | xs:long | 1..1 | The predecessor entity id. |

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### 3.4.109 updatePredecessorEntityRequestType

**Description:** Purpose: update a predecessor Entity.

**Used by:** [updatePredecessorEntityRequest](#)

**Extension of:** [requestType](#)

| Element             | Type                                     | Occ  | Comment                    |
|---------------------|------------------------------------------|------|----------------------------|
| predecessorEntityId | xs:long                                  | 1..1 | The predecessor entity id. |
| predecessorName     | <a href="#">subjectAddressNameType</a>   | 1..1 |                            |
| phoneNr             | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 0..1 | The voice phone number.    |

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### 3.4.110 srvQualifBySocketType

**Description:** Get information on possible broadband connections to a given destination by socket ID (and opt. by PlugNr).

**Used by:** [srvQualifBySocket](#)

**Extension of:** [srvQualifFiberType](#)

| ElementType         |                                 |                                                             |      |         | Occ  | Comment |
|---------------------|---------------------------------|-------------------------------------------------------------|------|---------|------|---------|
| plugNr              | xs:int (totalDigits: <b>3</b> ) |                                                             |      |         | 0..1 |         |
| -<br><b>choice:</b> | Element                         | Type                                                        | Occ  | Comment | 1..1 |         |
|                     | socketId                        | xs:string (minLength: <b>13</b> ,<br>maxLength: <b>19</b> ) | 1..1 |         |      |         |
|                     | cooperationId                   | xs:string (maxLength: <b>100</b> )                          | 1..1 |         |      |         |

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### 3.4.111 srvQualifFiberType

**Description:** Get information on possible broadband connections to a given destination. (abstract)

**Extended by:** [srvQualifBySocketType](#)

**Extension of:** [requestType](#)

| Element          | Type                                                    | Occ  | Comment                                                                                      |
|------------------|---------------------------------------------------------|------|----------------------------------------------------------------------------------------------|
| basisContrEleId  | xs:int (totalDigits: <b>3</b> )                         | 1..1 | [LOV-ID: 0320] A basis contract element ID                                                   |
| contrEleId       | xs:int (totalDigits: <b>3</b> )                         | 0..n | [LOV-ID: 0320] A contract element ID.                                                        |
| bbType           | xs:int (totalDigits: <b>3</b> )                         | 0..n | [LOV-ID: 0276] The BB type.                                                                  |
| dnType           | xs:int (totalDigits: <b>3</b> )                         | 0..n | [LOV-ID: 0109] The DN type.                                                                  |
| businessType     | xs:int (totalDigits: <b>3</b> )                         | 0..1 |                                                                                              |
| qualifExtRef     | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> ) | 0..1 | An external reference (assigned by the ISP) for identification of the qualification request. |
| customerWishDate | xs:date                                                 | 0..1 | The customer wish date.                                                                      |
| sfSlaId          | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 0282] The service fulfillment SLA ID.                                               |

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**3.4.112 getQualifHistoryRequestType**

**Description:** Get qualification history from initialy or re- qualification

**Used by:** [getQualifHistory](#)

**Extension of:** [requestType](#)

| Element | Type                            | Occ  | Comment       |
|---------|---------------------------------|------|---------------|
| orderNr | xs:string (pattern:[1-9]\d{25}) | 1..1 | The order ID. |

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**3.4.113 createChangeTicketRequestType**

**Description:** Input for the createChangeTicket Operation

**Used by:** [createChangeTicket](#)

**Extension of:** [requestType](#)

| Element          | Type                                                    | Occ                                      | Comment                                                                                                                                                           |                        |
|------------------|---------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| extRef           | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> ) | 0..1                                     | An external reference provided by the ISP.                                                                                                                        |                        |
| exchangeDate     | xs:date                                                 | 1..1                                     | designated date for the exchange                                                                                                                                  |                        |
| exchangeType     | xs:int (totalDigits: <b>3</b> )                         | 1..1                                     | [LOV-ID: 3020] What must be exchanged (1 = CPE Hardware; 2 = CPE Firmware)                                                                                        |                        |
| reminderProcess  | xs:int (totalDigits: <b>3</b> )                         | 1..1                                     | [LOV-ID: 9012] LOV_REMINDER_PROCESS (1 = first reminder at exchange date, second reminder after 5 days ; 2 = first reminder at exchange date, no second reminder) |                        |
| customerContact1 | <a href="#">customerContactType</a>                     | 1..1                                     |                                                                                                                                                                   |                        |
| customerContact2 | <a href="#">customerContactType</a>                     | 0..1                                     |                                                                                                                                                                   |                        |
| - <b>choice:</b> | ElementType                                             |                                          | Occ                                                                                                                                                               | Comment                |
|                  | dnNsn                                                   | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1                                                                                                                                                              | A DN/NSN phone number. |
|                  | dslam                                                   | <a href="#">dslam</a>                    | 1..1                                                                                                                                                              |                        |
|                  |                                                         |                                          |                                                                                                                                                                   |                        |

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**3.4.114 modifyPendingChangeTicketRequestType**

**Description:** Input for the modifyPendingChangeTicket Operation

**Used by:** [modifyPendingChangeTicket](#)

**Extension of:** [requestType](#)

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|                  |                                                          |      |                                                                                                                                                                   |
|------------------|----------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| changeTicketId   | xs:decimal (totalDigits: <b>10</b> )                     | 1..1 | Change Ticket ID assigned by WSG                                                                                                                                  |
| extRef           | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.                                                                                                                        |
| exchangeDate     | xs:date                                                  | 1..1 | designated date for the exchange                                                                                                                                  |
| exchangeType     | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 3020] What must be exchanged (1 = CPE Hardware; 2 = CPE Firmware)                                                                                        |
| reminderProcess  | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 9012] LOV_REMINDER_PROCESS (1 = first reminder at exchange date, second reminder after 5 days ; 2 = first reminder at exchange date, no second reminder) |
| customerContact1 | <a href="#">customerContactType</a>                      | 1..1 | Customer Contact 1                                                                                                                                                |
| customerContact2 | <a href="#">customerContactType</a>                      | 0..1 | Customer Contact 2                                                                                                                                                |
| changeReason     | xs:string (minLength: <b>1</b> , maxLength: <b>100</b> ) | 0..1 | A reason why the ticket should be changed                                                                                                                         |

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### 3.4.115 **cancelPendingChangeTicketRequestType**

**Description:** Input cancelPendingChangeTicket Operation

**Used by:** [cancelPendingChangeTicket](#)

**Extension of:** [requestType](#)

| Element        | Type                                                     | Occ  | Comment                                     |
|----------------|----------------------------------------------------------|------|---------------------------------------------|
| changeTicketId | xs:decimal (totalDigits: <b>10</b> )                     | 1..1 | Change Ticket ID assigned by WSG            |
| cancelReason   | xs:string (minLength: <b>1</b> , maxLength: <b>100</b> ) | 1..1 | A reason why the ticket should be cancelled |

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### 3.4.116 **getChangeTicketOverviewRequestType**

**Description:** Input getChangeTicketOverview Operation

**Used by:** [getChangeTicketOverview](#)

**Extension of:** [requestType](#)

| Element                       | Type                                                    | Occ  | Comment                                    |
|-------------------------------|---------------------------------------------------------|------|--------------------------------------------|
| changeTicketId                | xs:decimal (totalDigits: <b>10</b> )                    | 0..1 | Change Ticket ID assigned by WSG           |
| extRef                        | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> ) | 0..1 | An external reference provided by the ISP. |
| dnNsnRange                    | <a href="#">dnNsnRangeType</a>                          | 0..1 |                                            |
| changeTicketStatus            | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 3021 Change Ticket Status         |
| ticketCreationDateTimeRange   | <a href="#">dateTimeRangeType</a>                       | 0..1 |                                            |
| lastModificationDateTimeRange | <a href="#">dateTimeRangeType</a>                       | 0..1 |                                            |

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### 3.4.117 **getChangeTicketDetailRequestType**

**Description:** Input *getChangeTicketDetail* Operation

**Used by:** [getChangeTicketDetailRequestType](#)

**Extension of:** [requestType](#)

| Element        | Type                                 | Occ  | Comment                          |
|----------------|--------------------------------------|------|----------------------------------|
| changeTicketId | xs:decimal (totalDigits: <b>10</b> ) | 1..1 | Change Ticket ID assigned by WSG |

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### 3.4.118 **requestType**

**Description:** The abstract generic request message type.

**Extended by:** [cancelPendingRequestType](#),  
[cancelPendingInstallationTicketRequestType](#),  
[createInstallationTicketRequestType](#), [customerOrderRequestType](#),  
[getBusinessLinesRequestType](#), [getOrderGroupNrRequestType](#),  
[getServiceStatusRequestType](#), [modifyPendingInstallationTicketRequestType](#),  
[getDetailRequestType](#), [getInstallationTicketDetailRequestType](#),  
[getTdmMessageDetailRequestType](#), [getTransactionOverviewRequestType](#),  
[addPredecessorEntityRequestType](#), [lookUpPredecessorRequestType](#),  
[readPredecessorEntityRequestType](#), [removePredecessorEntityRequestType](#),  
[updatePredecessorEntityRequestType](#), [srvQualifType](#), [srvQualifFiberType](#),  
[getQualifHistoryRequestType](#), [createChangeTicketRequestType](#),  
[modifyPendingChangeTicketRequestType](#),  
[cancelPendingChangeTicketRequestType](#),  
[getChangeTicketOverviewRequestType](#), [getChangeTicketDetailRequestType](#)

**Extension of:** [messageType](#)

| Element | Type                            | Occ  | Comment    |
|---------|---------------------------------|------|------------|
| ispId   | xs:int (totalDigits: <b>6</b> ) | 1..1 | An ISP ID. |

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### 3.4.119 **messageType**

**Description:** The abstract generic message type.

**Extended by:** [ackType](#), [requestType](#)

| Attribute     | Type      | Use      | Comment                                                                           |
|---------------|-----------|----------|-----------------------------------------------------------------------------------|
| correlationId | xs:string | optional | A unique ID to correlate request and answer(s) within a (ansynch.) batch process. |

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### 3.4.120 **qualiResultDetailType**

**Used by:** [qualiResultDetail](#)

| Element       | Type                                                   | Occ  | Comment                                 |
|---------------|--------------------------------------------------------|------|-----------------------------------------|
| resultCode    | xs:string (minLength: <b>1</b> , maxLength: <b>4</b> ) | 1..1 | Qualification Result Code               |
| resultComment | xs:string (minLength: <b>1</b> ,                       | 1..1 | Some additional textual description for |

|  |                |  |             |
|--|----------------|--|-------------|
|  | maxLength:256) |  | the result. |
|--|----------------|--|-------------|

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### 3.4.121 equippedDateHistory

**Description:** *Equipped Date History: list the last 3 changes (if there are some)*

**Used by:** [plannedEndPoint](#)

| Element                 | Type                                                            | Occ  | Comment                                                                                                                                                                                                                                                                                                                |
|-------------------------|-----------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sortNr                  | xs:int                                                          | 1..1 | Sort number: 1 (nearest) ... 3 (oldest)                                                                                                                                                                                                                                                                                |
| changeDate              | xs:string<br>(pattern:2[0-9]{3}((-[01][0-9])?)(-([0-3][0-9])?)) | 1..1 |                                                                                                                                                                                                                                                                                                                        |
| eventType               | xs:int<br>(totalDigits:3)                                       | 1..1 | [LOV-ID: 1324]<br>LOV_EQUIPPED_DATE_EVENT_TYPE<br>1=TargetDateChange;<br>2=ValidityClassException                                                                                                                                                                                                                      |
| from                    | xs:string<br>(maxLength:10)                                     | 1..1 | If EventType = 1 - TargetDateChange: Then the format is:2[0-9]{3}((-[01][0-9])?)(-([0-3][0-9])?); If EventType = 2 - ValidityClassException: Then the format is: string max length 5, example: from: GK4 to: GK98                                                                                                      |
| to                      | xs:string<br>(maxLength:10)                                     | 1..1 | If EventType = 1 - TargetDateChange: Then the format is:2[0-9]{3}((-[01][0-9])?)(-([0-3][0-9])?); If EventType = 2 - ValidityClassException: Then the format is: string max length 5, example: from: GK4 to: GK98                                                                                                      |
| changeReasonId          | xs:int                                                          | 1..1 | Example: [1] Technology change; [2] Port shortage; [3] Missing material; [4] Veto major customer; [5] Veto municipality; [6] Management re-priorisation; [7] Acquisition delay; [8] Construction delay; [9] Changed in the planning phase; [10] Changed in the construction phase; [11] Changed by cooperation partner |
| changeReasonDescription | xs:string<br>(maxLength:100)                                    | 1..1 |                                                                                                                                                                                                                                                                                                                        |

### 3.4.122 plannedEndPoint

**Used by:** [qualifAnswer](#)

**Extension of:** [endPointBaseType](#)

| Element      | Type      | Occ  | Comment                           |
|--------------|-----------|------|-----------------------------------|
| equippedDate | xs:string | 1..1 | Equipped date and target date are |

|                     |                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | (pattern:2[0-9]{3}(-[01][0-9](-[0-3][0-9])?)?) |      | synonyms. Customers are able to order the service at this date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| equippedDateQuality | xs:int (totalDigits:2)                         | 1..1 | Equipped date quality and quality class are synonyms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| equippedDateComment | xs:string                                      | 1..1 | The equippedDate embedded in a comment string                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| equippedDateHistory | <a href="#">equippedDateHistory</a>            | 0..n | Equipped Date History: list the last 3 changes (if there are some) Sort number: 1 (nearest) ... 3 (oldest) [LOV-ID: 1324] LOV_EQUIPPED_DATE_EVENT_TYPE<br>1=TargetDateChange;<br>2=ValidityClassException If EventType = 1 - TargetDateChange: Then the format is:2[0-9]{3}((-[01][0-9]))((-[0-3][0-9])); If EventType = 2 - ValidityClassException: Then the format is: string max length 5, example: from: GK4 to: GK98 If EventType = 1 - TargetDateChange: Then the format is:2[0-9]{3}((-[01][0-9]))((-[0-3][0-9])); If EventType = 2 - ValidityClassException: Then the format is: string max length 5, example: from: GK4 to: GK98 Example: [1] Technology change; [2] Port shortage; [3] Missing material; [4] Veto major customer;[5] Veto municipality; [6] Management re-priorisation; [7] Acquisition delay; [8] Construction delay; [9] Changed in the planning phase; [10] Changed in the construction phase; [11] Changed by cooperation partner |
| plannedSpeed        | <a href="#">duplexSpeedType</a>                | 1..1 | The planned bitrate (up/down).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| extensionCategory   | xs:int (totalDigits:3)                         | 1..1 | [LOV-ID: 9023]<br>LOV_EXTENSION_CATEGORY: Ausbau Kategorie: 1 = PUS Neubau; 2 = FTTS/B Neubau; 3 = Vectoring Ausbau/Aktivierung                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### 3.4.123 duplexSpeedType

**Description:** A upstream/downstream speed pair.

**Used by:** [speedProfileType](#), [effectiveSpeed](#), [plannedSpeed](#)

| Element | Type   | Occ  | Comment                     |
|---------|--------|------|-----------------------------|
| up      | xs:int | 1..1 | Upload speed in kbit/sec.   |
| down    | xs:int | 1..1 | Download speed in kbit/sec. |

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### 3.4.124 speedProfileType

**Description:** A speed profile type.

**Used by:** [fiberQualifProfileType](#), [plugType](#), [qualifProfileType](#), [serviceOrderHistoryType](#), [serviceOrderType](#), [serviceStatusServiceType](#), [tdmMessageBaseType](#), [accessSpeed](#), [speedProfile](#), [qualifAnswer](#)

| Element        | Type                                                          | Occ  | Comment                                                                                                                        |
|----------------|---------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------|
| speedProfileNr | xs:int (totalDigits: <b>3</b> )                               | 1..1 | [LOV-ID: 1010] A speed profile number.                                                                                         |
| description    | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>60</b> ) | 0..1 |                                                                                                                                |
| max            | <a href="#">duplexSpeedType</a>                               | 0..1 | A upstream/downstream speed pair. Upload speed in kbit/sec. Download speed in kbit/sec.                                        |
| min            | <a href="#">duplexSpeedType</a>                               | 0..1 | A upstream/downstream speed pair. Upload speed in kbit/sec. Download speed in kbit/sec.                                        |
| technologyType | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 9025] LOV_TECHNOLOGY_TYPE: Which standard was used for bitrate calculation: 1 = VDSL2; 2 = VDSL Vectoring; 3 = G.FAST |

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### 3.4.125 **subjectAddressEnhancedType**

**Description:** A complete subject's postal address.

**Used by:** [lookUpPredecessorRequestType](#), [srvQualifByAddressType](#)

**Extension of:** [subjectAddressType](#)

| Element            | Type                                   | Occ  | Comment                 |
|--------------------|----------------------------------------|------|-------------------------|
| subjectAddressName | <a href="#">subjectAddressNameType</a> | 0..1 | Person or company name. |

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### 3.4.126 **contactAddressType**

**Description:** Contact Information

**Used by:** [inhouseInstallationInfoType](#), [inhouseInstallationRequestType](#)

**Extension of:** [subjectAddressType](#)

| Element   | Type                                                        | Occ  | Comment                                                                                                 |
|-----------|-------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|
| firstName | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )  | 0..1 | A subject's first name.                                                                                 |
| lastName  | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )  | 0..1 | A subject's last name.                                                                                  |
| language  | xs:string                                                   | 0..1 | ISO 639-1 (Codes for the representation of names of languages) (de = german; fr = french; it = italian) |
| eMail     | xs:string (minLength: <b>5</b> ,<br>maxLength: <b>100</b> ) | 0..1 | An E-Mail address (a.b@x.com)                                                                           |
| phone     | xs:string<br>(pattern:(\+)?([0-9]){7,15})                   | 0..1 | phone number                                                                                            |
| phone2    | xs:string                                                   | 0..1 | Second phone number                                                                                     |

|         |                                        |      |                                        |
|---------|----------------------------------------|------|----------------------------------------|
|         | (pattern:(\+)?([0-9]){7,15})           |      |                                        |
| comment | xs:string (minLength:1, maxLength:256) | 0..1 | a comment to this address Informations |

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### 3.4.127 **subjectAddressType**

**Description:** A subject's postal address.

**Used by:** [predecessorAddress](#), [qualifHistoryReqDataType](#)

**Extended by:** [subjectAddressEnhancedType](#), [contactAddressType](#)

**Extension of:** [addressType](#)

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### 3.4.128 **addressType**

**Description:** An (geographical) address entity.

**Used by:** [baseProductOrderType](#), [qualifAnswer](#), [fiberQualifAnswer](#)

**Extended by:** [subjectAddressType](#)

| Element        | Type                                           | Occ  | Comment                                        |
|----------------|------------------------------------------------|------|------------------------------------------------|
| street         | xs:string (minLength:1, maxLength:30)          | 0..1 | The street name of an address.                 |
| houseNr        | xs:string (minLength:1, maxLength:12)          | 0..1 | The house number of an address.                |
| building       | xs:string (minLength:1, maxLength:30)          | 0..1 | The building information of an address.        |
| zip            | xs:int (minInclusive:1000, maxInclusive:99999) | 0..1 | The zip of an address.                         |
| city           | xs:string (minLength:1, maxLength:25)          | 0..1 | The city of an address.                        |
| additionalCity | xs:string (minLength:1, maxLength:25)          | 0..1 | The additional city information of an address. |

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### 3.4.129 **qualifProfileType**

**Description:** Represents a speed profile making up a part of a qualification result.

**Used by:** [qualifAnswer](#)

| Element         | Type                             | Occ  | Comment                                                          |
|-----------------|----------------------------------|------|------------------------------------------------------------------|
| qualifIndex     | xs:long (totalDigits:10)         | 0..1 | The index identifying a profile within a qualification response. |
| nrOfWires       | xs:int (totalDigits:2)           | 0..1 | The number of wires (only copper).                               |
| usedAccessSpeed | <a href="#">speedProfileType</a> | 0..1 | A speed profile type.                                            |
| serviceSpeed    | <a href="#">speedProfileType</a> | 1..1 | A speed profile type.                                            |
| effectiveSpeed  | <a href="#">duplexSpeedType</a>  | 0..1 | The effective speed.                                             |

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### 3.4.130 **IIDateType**

**Description:** Local Loop Date

**Used by:** [qualifAnswer](#)

| Element           | Type    | Occ  | Comment |
|-------------------|---------|------|---------|
| activationDate    | xs:date | 0..1 |         |
| disconnectionDate | xs:date | 0..1 |         |

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### 3.4.131 **qualifAnswer**

**Description:** Represents a (per start point) answerblock as part of the qualification result.

**Used by:** [qualificationResult](#)

| Element           | Type                                               | Occ  | Comment                                                                                                                                                         |
|-------------------|----------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| qualiResultState  | xs:string (Enumeration: ok, ok_stao, planned, nok) | 0..1 | State of the Qualification Result.                                                                                                                              |
| qualiResultDetail | <a href="#">qualiResultDetailType</a>              | 0..n |                                                                                                                                                                 |
| endPoint          | <a href="#">endPointType</a>                       | 0..1 | An end point (consisting of a DN office and a BB device location) and port information.                                                                         |
| plannedEndPoint   | <a href="#">plannedEndPoint</a>                    | 0..1 | A planned end point (plannedEndpoint wird abgefüllt, wenn bekannt ist, dass der Startpunkt in Zukunft von einem neuen Breitbandziel bedient wird.).             |
| cpeInfo           | <a href="#">cpeInfo</a>                            | 0..1 | Information about the CPE.                                                                                                                                      |
| maxAccessSpeed    | <a href="#">speedProfileType</a>                   | 0..1 | The speed profile identifying the maximum possible access speed.                                                                                                |
| averageFlag       | xs:int (totalDigits:3)                             | 0..1 | [LOV-ID: 1050] The average flag marking the average answer within a multi-answer qualif response (0=The non-average qualif answer; 1=The average qualif answer) |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | (strict address qualif);<br>2=The average qualif<br>answer (fuzzy address<br>qualif)). |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|-----------|------------|------|------------------------------------------------------------|--------------|---------------------------------------|------|------------------------------------------------------------------------------------------|---------------------|-------------|------|----------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nrOfWires            | xs:int (totalDigits: <b>2</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0..1                                  | The number of wires<br>(only copper).                                                  |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| billingZone          | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0..1                                  | [LOV-ID: 1503] The<br>billing zone.                                                    |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| fulfillmentTimeSlot  | <a href="#">fulfillmentTimeSlot</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0..n                                  | A list of fulfillment<br>time slots                                                    |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| startPoint           | <a href="#">startPointType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0..1                                  |                                                                                        |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| address              | <a href="#">addressType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0..1                                  | The address<br>associated with this<br>start point.                                    |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| resourceAvailability | <table><tr><th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr><tr><td>available</td><td>xs:boolean</td><td>1..1</td><td>true if the<br/>resource<br/>is<br/>available,<br/>else false.</td></tr><tr><td>resourceType</td><td>xs:int<br/>(totalDigits:<br/><b>3</b>)</td><td>1..1</td><td>[LOV-ID:<br/>1055]<br/>Resource<br/>Type (1 =<br/>Port; 2 =<br/>Copper, 3<br/>= WARP<br/>Port).</td></tr><tr><td>upgradePlanDateTime</td><td>xs:dateTime</td><td>0..1</td><td>The<br/>planned<br/>upgrade<br/>time if<br/>resource<br/>unavailabl<br/>e.</td></tr></table> | Element                               | Type                                                                                   | Occ                                                                                      | Comment | available | xs:boolean | 1..1 | true if the<br>resource<br>is<br>available,<br>else false. | resourceType | xs:int<br>(totalDigits:<br><b>3</b> ) | 1..1 | [LOV-ID:<br>1055]<br>Resource<br>Type (1 =<br>Port; 2 =<br>Copper, 3<br>= WARP<br>Port). | upgradePlanDateTime | xs:dateTime | 0..1 | The<br>planned<br>upgrade<br>time if<br>resource<br>unavailabl<br>e. | 0..n | A list of resource<br>availability<br>statements. true if the<br>resource is available,<br>else false. The<br>planned upgrade time<br>if resource<br>unavailable. |
|                      | Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type                                  | Occ                                                                                    | Comment                                                                                  |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
|                      | available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | xs:boolean                            | 1..1                                                                                   | true if the<br>resource<br>is<br>available,<br>else false.                               |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
|                      | resourceType                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | xs:int<br>(totalDigits:<br><b>3</b> ) | 1..1                                                                                   | [LOV-ID:<br>1055]<br>Resource<br>Type (1 =<br>Port; 2 =<br>Copper, 3<br>= WARP<br>Port). |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| upgradePlanDateTime  | xs:dateTime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0..1                                  | The<br>planned<br>upgrade<br>time if<br>resource<br>unavailabl<br>e.                   |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                                                                                        |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                                                                                        |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                                                                                        |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| qualifProfile        | <a href="#">qualifProfileType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0..n                                  | Represents a speed<br>profile making up a<br>part of a qualification<br>result.        |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| currentDnType        | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0..1                                  | [LOV-ID: 0109] The<br>current DnType                                                   |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |
| currentAccessSpeed   | <a href="#">speedProfileType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0..                                   | The current access                                                                     |                                                                                          |         |           |            |      |                                                            |              |                                       |      |                                                                                          |                     |             |      |                                                                      |      |                                                                                                                                                                   |

|                    |                                                         |      |                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|---------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ed                 |                                                         | 1    | speed profile                                                                                                                                                                                                                                                                                                                                                                    |
| IIId               | xs:string (minLength: <b>1</b> , maxLength: <b>13</b> ) | 0..1 | The local loop ID.                                                                                                                                                                                                                                                                                                                                                               |
| IIDate             | <a href="#">IIDateType</a>                              | 0..1 | Local Loop Date                                                                                                                                                                                                                                                                                                                                                                  |
| jumperAction       | xs:boolean                                              | 0..1 | Ueberfuehrungsrelevant (true/false).                                                                                                                                                                                                                                                                                                                                             |
| bbrRecommendation  | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 1051]<br>Broadband ready recommendation of Field Service (FS)<br>Installation: 0 = na (it is not possible to give a self install recommendation); 1 = BBR necessary (no self install recommended); 2 = no BBR necessary (selfinstall possible); 3 = no BBR necessary (selfinstall possible); 4 = BBR necessary (no self install recommended); 5 = BBR Socket installed; |
| potentialAvailable | xs:int (totalDigits: <b>1</b> )                         | 0..1 | [LOV-ID 1054]<br>Potential available that after a BBR an upgrooming could be started - so the access speed will may be higher and the quality will not be worse.                                                                                                                                                                                                                 |
| reasonOfPotential  | <a href="#">reasonOfPotential</a>                       | 0..1 | Reason of Potential - why is the Current Access Speed lower then the maximum                                                                                                                                                                                                                                                                                                     |
| technologyType     | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 9025]<br>LOV_TECHNOLOGY_TYPE: Which standard was used for bitrate calculation: 1 = VDSL2; 2 = VDSL Vectoring; 3 = G.FAST                                                                                                                                                                                                                                                |
| lineState          | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 1052] The copper line state.                                                                                                                                                                                                                                                                                                                                            |

|                 |                                 |      |                                                                                               |
|-----------------|---------------------------------|------|-----------------------------------------------------------------------------------------------|
| vectorized      | xs:boolean                      | 0..1 | true if line is currently vectorized                                                          |
| siteDevelopment | <a href="#">siteDevelopment</a> | 0..1 | site development information, quantity of basic connectivities and utilized units             |
| swisscomReady   | xs:boolean                      | 0..1 | Flag indicating if the line is currently swisscom ready, means a All-IP access is provisioned |

### 3.4.132 availableTechnologyType

**Used by:** [endPointerType](#)

| Element        | Type                   | Occ  | Comment                                                                                                                        |
|----------------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------|
| technologyType | xs:int (totalDigits:3) | 1..n | [LOV-ID: 9025] LOV_TECHNOLOGY_TYPE: Which standard was used for bitrate calculation: 1 = VDSL2; 2 = VDSL Vectoring; 3 = G.FAST |

### 3.4.133 bbPortInfoType

**Used by:** [bbPortInfo](#)

| Element        | Type                                  | Occ  | Comment                                      |
|----------------|---------------------------------------|------|----------------------------------------------|
| dslamName      | xs:string (maxLength:30)              | 0..1 | name of the DSLAM (e.g.: ipc-aar730-s-vd-05) |
| dslamType      | xs:int (totalDigits:3)                | 0..1 | [LOV-ID: 1064]: DSLAM Type.                  |
| bbPortNr       | xs:string (minLength:1, maxLength:15) | 0..4 | Splitter Port                                |
| bbAdslEmulated | xs:int (totalDigits:3)                | 0..1 | [LOV-ID: 0401]: ADSL emulated flag.          |
| bbPortLineType | xs:int (totalDigits:3)                | 0..1 | [LOV-ID: 1353] bb Port Line Type             |
| vendor         | xs:string (maxLength:32)              | 0..1 | The vendor of the DSLAM                      |

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### 3.4.134 endPointType

**Description:** An end point (consisting of a DN office and a BB device location) and port information.

**Used by:** [endPoint](#)

**Extension of:** [endPointBaseType](#)

| Element                 | Type                                    | Occ  | Comment                                 |
|-------------------------|-----------------------------------------|------|-----------------------------------------|
| availableTechnologyType | <a href="#">availableTechnologyType</a> | 0..1 | An (geographical) address entity.       |
| bbPortInfo              | <a href="#">bbPortInfoType</a>          | 0..1 | Information about the Port in the loop. |

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### 3.4.135 endPointBaseType

**Description:** An end point (consisting of a DN office and a BB device location).

**Used by:** [fiberQualifAnswer](#)

**Extended by:** [endPointType](#), [plannedEndPoint](#)

| Element          | Type                                                    | Occ  | Comment                                                                  |
|------------------|---------------------------------------------------------|------|--------------------------------------------------------------------------|
| taxRegion        | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 1504] The tax region part of a start- or end-point (e.g. "62"). |
| accessNet        | xs:string (minLength: <b>1</b> , maxLength: <b>5</b> )  | 0..1 | The access net part of a start- or end-point (e.g. "ALL").               |
| site             | xs:string (maxLength: <b>4</b> )                        | 0..1 | Site of the Broad Band Device Location.                                  |
| siteCategory     | xs:int (totalDigits: <b>3</b> )                         | 0..1 | [LOV-ID: 9008] The site categorization.                                  |
| bbDeviceLocation | xs:string (minLength: <b>1</b> , maxLength: <b>20</b> ) | 0..1 | The broad band device location. (e.g. "AES")                             |

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### 3.4.136 availability

**Used by:** [fiberQualifAnswer](#)

| Element          | Type                                                     | Occ  | Comment                                                                                                               |
|------------------|----------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------|
| availabilityDate | xs:date                                                  | 0..1 | Availability date and target date are synonyms. Customers are able to order the service at this date.                 |
| validityClass    | xs:string (minLength: <b>1</b> , maxLength: <b>12</b> )  | 1..1 | Validity class and quality class are synonyms. Possible values are: "GK1", "GK2", "GK3", "GK4", "GK5", "GK98", "GK99" |
| reason           | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 |                                                                                                                       |

### 3.4.137 events

**Used by:** [fiberQualifAnswer](#)

| Element        | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Occ     | Comment                                                                                         |     |         |           |                                   |      |                                                                                                 |                |        |      |  |                |             |      |  |      |                                   |      |  |      |                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------|-----|---------|-----------|-----------------------------------|------|-------------------------------------------------------------------------------------------------|----------------|--------|------|--|----------------|-------------|------|--|------|-----------------------------------|------|--|------|-------------------------------------------------------------------------------------------------|
| event          | <table> <tr> <th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr> <tr> <td>eventType</td><td>xs:string (maxLength:<b>32</b>)</td><td>1..1</td><td>possible values are:<br/>"1 - TargetDateChange",<br/>"2 - ValidityClassException", "99 - Reserve"</td></tr> <tr> <td>sequenceNumber</td><td>xs:int</td><td>1..1</td><td></td></tr> <tr> <td>eventTimeStamp</td><td>xs:dateTime</td><td>1..1</td><td></td></tr> <tr> <td>from</td><td>xs:string (maxLength:<b>10</b>)</td><td>0..1</td><td></td></tr> </table> | Element | Type                                                                                            | Occ | Comment | eventType | xs:string (maxLength: <b>32</b> ) | 1..1 | possible values are:<br>"1 - TargetDateChange",<br>"2 - ValidityClassException", "99 - Reserve" | sequenceNumber | xs:int | 1..1 |  | eventTimeStamp | xs:dateTime | 1..1 |  | from | xs:string (maxLength: <b>10</b> ) | 0..1 |  | 1..1 | possible values are:<br>"1 - TargetDateChange",<br>"2 - ValidityClassException", "99 - Reserve" |
| Element        | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Occ     | Comment                                                                                         |     |         |           |                                   |      |                                                                                                 |                |        |      |  |                |             |      |  |      |                                   |      |  |      |                                                                                                 |
| eventType      | xs:string (maxLength: <b>32</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1..1    | possible values are:<br>"1 - TargetDateChange",<br>"2 - ValidityClassException", "99 - Reserve" |     |         |           |                                   |      |                                                                                                 |                |        |      |  |                |             |      |  |      |                                   |      |  |      |                                                                                                 |
| sequenceNumber | xs:int                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1..1    |                                                                                                 |     |         |           |                                   |      |                                                                                                 |                |        |      |  |                |             |      |  |      |                                   |      |  |      |                                                                                                 |
| eventTimeStamp | xs:dateTime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1..1    |                                                                                                 |     |         |           |                                   |      |                                                                                                 |                |        |      |  |                |             |      |  |      |                                   |      |  |      |                                                                                                 |
| from           | xs:string (maxLength: <b>10</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0..1    |                                                                                                 |     |         |           |                                   |      |                                                                                                 |                |        |      |  |                |             |      |  |      |                                   |      |  |      |                                                                                                 |

|             |                              |      |  |
|-------------|------------------------------|------|--|
|             | )                            |      |  |
| to          | xs:string<br>(maxLength:10)  | 0..1 |  |
| eventReason | xs:string<br>(maxLength:100) | 0..1 |  |

### 3.4.138 fiberQualifAnswer

**Description:** Represents a fiber qualification answer.

**Used by:** [qualificationResult](#)

| Element           | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Oc<br>c                 | Comment                                                                                       |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------|------------|--------|------|----------------|----------|-------------------------|------|---------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|------|-----------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| qualiResultsState | xs:string (Enumeration: ok, ok_stao, planned, nok)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1..1                    | State of the Qualification Result.                                                            |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| qualiResultDetail | <a href="#">qualiResultDetailType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0..n                    |                                                                                               |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| endPoint          | <a href="#">endPointBaseType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0..1                    | An end point (consisting of a DN office and a BB device location).                            |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| address           | <a href="#">addressType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0..1                    | The address associated with this start point.                                                 |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| locationId        | xs:int                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0..1                    |                                                                                               |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| socket            | <a href="#">socketType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0..n                    | List of sockets                                                                               |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| bep               | <table><tr><th>Element</th><th>Type</th><th>Oc<br/>c</th><th>Comment</th></tr><tr><td>locationId</td><td>xs:int</td><td>1..1</td><td>A location id.</td></tr><tr><td>bepState</td><td>xs:int (totalDigits: 3)</td><td>0..1</td><td>The BEP State (connected, available, planned or not connected) possible values are: "available", "not available", "not checked"</td></tr><tr><td>availability</td><td><a href="#">availability</a></td><td>0..1</td><td>Validity class and quality class are synonyms. Possible values are: "GK1", "remote fan fibre"</td></tr></table> | Element                 | Type                                                                                          | Oc<br>c                                                                                                                         | Comment | locationId | xs:int | 1..1 | A location id. | bepState | xs:int (totalDigits: 3) | 0..1 | The BEP State (connected, available, planned or not connected) possible values are: "available", "not available", "not checked" | availability | <a href="#">availability</a> | 0..1 | Validity class and quality class are synonyms. Possible values are: "GK1", "remote fan fibre" | 0..n | Building Entry Point The BEP State (connected, available, planned or not connected) possible values are: "available", "not available", "not checked" possible values are: "SCS", "KOPA" possible values are: "standard", "remote fan fibre" |
|                   | Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Type                    | Oc<br>c                                                                                       | Comment                                                                                                                         |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
|                   | locationId                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | xs:int                  | 1..1                                                                                          | A location id.                                                                                                                  |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
|                   | bepState                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | xs:int (totalDigits: 3) | 0..1                                                                                          | The BEP State (connected, available, planned or not connected) possible values are: "available", "not available", "not checked" |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |
| availability      | <a href="#">availability</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0..1                    | Validity class and quality class are synonyms. Possible values are: "GK1", "remote fan fibre" |                                                                                                                                 |         |            |        |      |                |          |                         |      |                                                                                                                                 |              |                              |      |                                                                                               |      |                                                                                                                                                                                                                                             |

|                 |                                 |                             |      |                                                                                           |  |        |
|-----------------|---------------------------------|-----------------------------|------|-------------------------------------------------------------------------------------------|--|--------|
|                 |                                 |                             |      | "GK2", "GK3",<br>"GK4", "GK5",<br>"GK98", "GK99"                                          |  | _spot" |
|                 | inHouseAllowed                  | xs:boolean                  | 1..1 | In house installation allowed                                                             |  |        |
|                 | firstInHouse                    | xs:boolean                  | 1..1 |                                                                                           |  |        |
|                 | maxAccessSpeedKbps              | xs:int                      | 1..n |                                                                                           |  |        |
|                 | initialMountingShaftCapacity    | xs:string (maxLength:32)    | 1..1 | possible values are: "available", "not available", "not checked"                          |  |        |
|                 | bepBuilder                      | xs:string (maxLength:8)     | 0..1 | possible values are: "SCS", "KOPA"                                                        |  |        |
|                 | siteCategory                    | xs:string (maxLength:32)    | 0..1 | possible values are: "standard", "remote_fan_fibre_spot"                                  |  |        |
|                 | events                          | <a href="#">events</a>      | 0..1 | possible values are: "1 - TargetDateChange", "2 - ValidityClassException", "99 - Reserve" |  |        |
|                 | address                         | <a href="#">addressType</a> | 0..1 | An (geographical) address entity.                                                         |  |        |
| siteDevelopment | <a href="#">siteDevelopment</a> |                             | 0..1 | site development information, quantity of basic connectivities and utilized units         |  |        |

### 3.4.139 **qualificationResult**

**Description:** Represents a technology (bbType) specific quali response.

**Used by:** [qualifAcknowledgeType](#)

| Element Type |                        | OccComment                                 |
|--------------|------------------------|--------------------------------------------|
| contrEleId   | xs:int (totalDigits:3) | 0..n [LOV-ID: 0320] A contract element ID. |
| bbType       | xs:int (totalDigits:3) | 0..1 [LOV-ID: 0276] The BB                 |

|                  |                                   |                                   |       |         |      |                                       |  |
|------------------|-----------------------------------|-----------------------------------|-------|---------|------|---------------------------------------|--|
|                  |                                   |                                   | type. |         |      |                                       |  |
| dnType           | xs:int (totalDigits: <b>3</b> )   |                                   |       |         | 0..1 | [LOV-ID: 0109] The DN type.           |  |
| qualifNr         | xs:long (totalDigits: <b>10</b> ) |                                   |       |         | 0..1 |                                       |  |
| lineState        | xs:int (totalDigits: <b>3</b> )   |                                   |       |         | 0..1 | [LOV-ID: 1052] The copper line state. |  |
| - <b>choice:</b> |                                   |                                   |       |         |      | 1..1                                  |  |
|                  | Element                           | Type                              | Occ   | Comment |      |                                       |  |
|                  | qualifAnswer                      | <a href="#">qualifAnswer</a>      | 1..n  |         |      |                                       |  |
|                  | fiberQualifAnswer                 | <a href="#">fiberQualifAnswer</a> | 1..n  |         |      |                                       |  |

#### 3.4.140 **subjectAddressNameType**

**Description:** Person or company name.

**Used by:** [predecessorInfoType](#), [subjectAddressEnhancedType](#), [predecessorName](#)

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#### 3.4.141 **startPointRequestType**

**Description:** start point request parameters

**Used by:** [srvQualifByStartPointType](#), [qualifHistoryReqDataType](#)

| Element     | Type                                                   | Occ  | Comment                                                                  |
|-------------|--------------------------------------------------------|------|--------------------------------------------------------------------------|
| taxRegion   | xs:int (totalDigits: <b>3</b> )                        | 1..1 | [LOV-ID: 1504] The tax region part of a start- or end-point (e.g. "62"). |
| accessNet   | xs:string (minLength: <b>1</b> , maxLength: <b>5</b> ) | 1..1 | The access net part of a start- or end-point (e.g. "ALL").               |
| unitType    | xs:int (totalDigits: <b>3</b> )                        | 1..1 | The type of unit for UP.                                                 |
| unitNumber  | xs:int (totalDigits: <b>6</b> )                        | 1..1 | The number of unit for UP.                                               |
| sse         | xs:int (totalDigits: <b>2</b> )                        | 1..1 | The 'sse' for UP.                                                        |
| contactType | xs:int (totalDigits: <b>3</b> )                        | 0..1 | [LOV-ID: 0115] The type of contact for UP.                               |
| contactNr   | xs:int (totalDigits: <b>6</b> )                        | 0..1 | The contact number for UP.                                               |

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#### 3.4.142 **simpleOtoType**

**Description:** Socket (Fiber)

**Used by:** [oto](#)

| ElementType         |                                 |                                                             |      |                                      | Occ  | Comment  |
|---------------------|---------------------------------|-------------------------------------------------------------|------|--------------------------------------|------|----------|
| -<br><b>choice:</b> | Element                         | Type                                                        | Occ  | Comment                              | 1..1 |          |
|                     | socketId                        | xs:string (minLength: <b>13</b> ,<br>maxLength: <b>19</b> ) | 1..1 | A socket id (e.g.<br>A.123.456.789). |      |          |
|                     | cooperationId                   | xs:string<br>(maxLength: <b>100</b> )                       | 1..1 |                                      |      |          |
| plug                | xs:int (totalDigits: <b>3</b> ) |                                                             |      |                                      | 1..1 | the plug |

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### 3.4.143 **sla**

**Used by:** [createType](#), [modifyPendingBaseOrdType](#), [modifyType](#), [ispChangeType](#), [addType](#), [changeType](#), [modifyPendingSrvOrdType](#), [baseOrderType](#), [getServiceStatusResponseType](#), [orderHistoryType](#), [serviceStatusServiceType](#), [tdmMessageBaseType](#)

| Element | Type                            | Occ  | Comment                                        |
|---------|---------------------------------|------|------------------------------------------------|
| sfSlaId | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 0282] The service fulfillment SLA ID. |
| saSlaId | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 0283] The service level assurance id  |

### 3.4.144 **startPointType**

**Description:** The start point associated with this qualification result.  
(example: "79,TET,UP,2,1")

**Used by:** [startPoint](#)

| Element       | Type                                                   | Occ  | Comment                                                                                                |
|---------------|--------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------|
| taxRegion     | xs:int (totalDigits: <b>3</b> )                        | 1..1 | [LOV-ID: 1504] The tax region part of a start- or end-point (e.g. "62").                               |
| accessNet     | xs:string (minLength: <b>1</b> , maxLength: <b>5</b> ) | 1..1 | The access net part of a start- or end-point (e.g. "ALL").                                             |
| unitType      | xs:int (totalDigits: <b>3</b> )                        | 1..1 | The type of unit for UP.                                                                               |
| unitNumber    | xs:int (totalDigits: <b>6</b> )                        | 1..1 | The number of unit for UP.                                                                             |
| sse           | xs:int (totalDigits: <b>2</b> )                        | 1..1 | The 'sse' for UP.                                                                                      |
| contactType   | xs:int (totalDigits: <b>3</b> )                        | 0..1 | [LOV-ID: 0115] The type of contact for UP.                                                             |
| contactNr     | xs:int (totalDigits: <b>6</b> )                        | 0..4 | The contact number for UP.                                                                             |
| upPreparation | xs:int (totalDigits: <b>3</b> )                        | 0..1 | [LOV-ID: 1070] Copper minimal development (1 = Normal, 2 =Copper minimal development, 3...5 = Reserve) |

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### 3.4.145 **potential**

**Description:** Description of Potential

**Used by:** [reasonOfPotential](#)

| Element       | Type                                                             | Occ  | Comment                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| potentialCode | xs:int (minInclusive:- <b>9999</b> , maxInclusive: <b>9999</b> ) | 1..1 | Potential Code negative value: reason why the maximum speed is lower then the current access profile. -1000: Pending downgrooming without service impact -1001: Pending downgrooming with service impact -1100: Pending devloc change (lengthing order) -1200: The profile is set manually -1300: -1400: The access is unstable -1501: ICA problem - impact on stability: BridgeTap -1502: ICA problem - impact on stability: |

|                      |                                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                                |      | Degraded Contact -1503: ICA problem - impact on speed: Missing Splitter -1504: ICA problem - impact on stability: Missing Splitter on alarm system (Business Decision) -1505: ICA problem - impact on stability: External Interference detected -1506: ICA problem - impact on stability: Intermittent contact -1507: ICA problem - impact on stability: Loop unbalanced -1508: ICA problem - impact on stability: Untwisted in-house wiring -1509: ICA problem - impact on stability: Time varying noise (crosstalk and RFI) -1510: ICA problem - impact on stability: CPE interoperability problem -1511: ICA problem - impact on stability: Black-listed CPE -1517: ICA problem - impact on stability: Abnormal crosstalk -1518: ICA problem - impact on stability: Defect switched power supply -1519: ICA problem - impact on speed: BridgeTap on overhead line -1600: Stability reached with downgrade positive value: reason why the maximum speed is higher then the current access profile 1000: outstanding upgrooming 1100: pending devloc change (short order) 1200: the profile is set manually 1300: Old CPE hardware 1301: CPE hardware doesnt support Vectoring. 1302: CPE firmware doesnt support Vectoring |
| potentialDescription | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>256</b> ) | 1..1 | Potential Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### 3.4.146 **reasonOfPotential**

**Description:** Reason of Potential - why is the Current Access Speed lower then the maximum

**Used by:** [customerOrderType](#), [getServiceStatusResponseType](#), [qualifAnswer](#)

| ElementType | OccComment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| potential   | <p><a href="#">potential</a> 1..n</p> <p>Description of Potential Potential Code negative value: reason why the maximum speed is lower then the current access profile. -1000: Pending downgrooming without service impact -1001: Pending downgrooming with service impact -1100: Pending devloc change (lengthing order) -1200: The profile is set manually -1300: -1400: The access is unstable -1501: ICA problem - impact on stability: BridgeTap -1502: ICA problem - impact on stability: Degraded Contact -1503: ICA problem - impact on speed: Missing Splitter -1504: ICA problem - impact on stability: Missing Splitter on alarm system (Business Decision) -1505: ICA problem - impact on stability: External</p> |

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>Interference detected -1506: ICA problem - impact on stability: Intermittent contact -1507: ICA problem - impact on stability: Loop unbalanced -1508: ICA problem - impact on stability: Untwisted in-house wiring -1509: ICA problem - impact on stability: Time varying noise (crosstalk and RFI) -1510: ICA problem - impact on stability: CPE interoperability problem -1511: ICA problem - impact on stability: Black-listed CPE -1517: ICA problem - impact on stability: Abnormal crosstalk -1518: ICA problem - impact on stability: Defect switched power supply -1519: ICA problem - impact on speed: BridgeTap on overhead line -1600: Stability reached with downgrade positive value: reason why the maximum speed is higher then the current access profile 1000: outstanding upgrooming 1100: pending devloc change (short order) 1200: the profile is set manually 1300: Old CPE hardware 1301: CPE hardware doesnt support Vectoring. 1302: CPE firmware doesnt support Vectoring Potential Code negative value: reason why the maximum speed is lower then the current access profile. -1000: Pending downgrooming without service impact -1001: Pending downgrooming with service impact -1100: Pending devloc change (lengthing order) -1200: The profile is set manually -1300: -1400: The access is unstable -1501: ICA problem - impact on stability: BridgeTap -1502: ICA problem - impact on stability: Degraded Contact -1503: ICA problem - impact on speed: Missing Splitter -1504: ICA problem - impact on stability: Missing Splitter on alarm system (Business Decision) -1505: ICA problem - impact on stability: External Interference detected -1506: ICA problem - impact on stability: Intermittent contact -1507: ICA problem - impact on stability: Loop unbalanced -1508: ICA problem - impact on stability: Untwisted in-house wiring -1509: ICA problem - impact on stability: Time varying noise (crosstalk and RFI) -1510: ICA problem - impact on stability: CPE interoperability problem -1511: ICA problem - impact on stability: Black-listed CPE -1517: ICA problem - impact on stability: Abnormal crosstalk -1518: ICA problem - impact on stability: Defect switched power supply -1519: ICA problem - impact on speed: BridgeTap on overhead line -1600: Stability reached with downgrade positive value: reason why the maximum speed is higher then the current access profile 1000: outstanding upgrooming 1100: pending devloc change (short order) 1200: the profile is set manually 1300: Old CPE hardware 1301: CPE hardware doesnt support Vectoring. 1302: CPE firmware doesnt support Vectoring Potential Description</p> |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.4.147 **cableBox**

**Description:** The cable box (aka. "Ueberfuehrungspunkt", "UP").

**Used by:** [baseProductOrderType](#), [getServiceStatusResponseType](#), [tdmMessageBaseType](#), [vnRecord](#)

| Element          | Type                   | Occ  | Comment                |
|------------------|------------------------|------|------------------------|
| boardNr          | xs:int (totalDigits:6) | 1..1 | UP Board Nr.           |
| switchingPlaceNr | xs:int (totalDigits:6) | 1..1 | UP Switching Place Nr. |

|             |                                 |      |                                            |
|-------------|---------------------------------|------|--------------------------------------------|
| contactType | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 0115] The type of contact for UP. |
| contactNr   | xs:int (totalDigits: <b>6</b> ) | 1..4 | The contact number for UP.                 |
| coordinateX | xs:int (totalDigits: <b>6</b> ) | 0..1 | X coordinate of UP.                        |
| coordinateY | xs:int (totalDigits: <b>6</b> ) | 0..1 | Y coordinate of UP.                        |

### 3.4.148 **dslamTypeAllowed**

**Description:** DSLAM Type(s) which are supported from the cpe - only current Technologie is in focus

**Used by:** [cpeInfo](#)

| Element    | Type                            | Occ  | Comment                     |
|------------|---------------------------------|------|-----------------------------|
| technology | xs:int (totalDigits: <b>3</b> ) | 1..1 |                             |
| dslamType  | xs:int (totalDigits: <b>3</b> ) | 0..n | [LOV-ID: 1064]: DSLAM Type. |

### 3.4.149 **capability**

**Used by:** [cpeInfo](#)

| Element            | Type                            | Occ  | Comment                                                                                                                                              |
|--------------------|---------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| technologyType     | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 9025] LOV_TECHNOLOGY_TYPE (1 = VDSL; 2 = VDSL vectoring; 3 = G.FAST)                                                                        |
| capabilityOverall  | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 9009] LOV_CPE_CAPABILITY_OVERALL (former LOV_VECTORING_CAPABILITY) (1 = Capable; 2 = Friendly; 3 = Forced Friendly; 4 = Disturber....)      |
| capabilityHardware | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 1350] LOV_CPE_CAPABILITY Does this CPE Hardware or Firmware support the declared TechnologyType? (0 = no; 1 = yes; 2 = yes, but SFP needed) |
| capabilityFirmware | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 1350] LOV_CPE_CAPABILITY Does this CPE Hardware or Firmware support the declared TechnologyType? (0 = no; 1 = yes; 2 = yes, but SFP needed) |

### 3.4.150 **cpeInfo**

**Description:** Information about the CPE.

**Used by:** [customerOrderType](#), [getServiceStatusResponseType](#), [qualifHistoryResDataType](#), [qualifAnswer](#)

| Element          | Type                               | Occ  | Comment                                                                                                                                                                                                                    |
|------------------|------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cpeName          | xs:string (maxLength: <b>100</b> ) | 1..1 | CPE (Customer Modem) Name                                                                                                                                                                                                  |
| dslamTypeAllowed | <a href="#">dslamTypeAllowed</a>   | 0..n | DSLAM Type(s) which are supported from the cpe - only current Technologie is in focus                                                                                                                                      |
| capability       | <a href="#">capability</a>         | 0..n | CPE Capability, used in case of VDSL2 qualification to shows the TechnologyType (VDSL2 Legacy, Vectoring, g.fast) capability. [LOV-ID: 9025] LOV_TECHNOLOGY_TYPE (1 = VDSL; 2 = VDSL vectoring; 3 = G.FAST) [LOV-ID: 9009] |

|         |                                                                |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|----------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                                |      | LOV_CPE_CAPABILITY_OVERALL (former LOV_VECTORING_CAPABILITY) (1 = Capable; 2 = Friendly; 3 = Forced Friendly; 4 = Disturber....)<br>[LOV-ID: 1350] LOV_CPE_CAPABILITY Does this CPE Hardware or Firmware support the declared TechnologyType? (0 = no;1 = yes; 2 = yes, but SFP needed) [LOV-ID: 1350]<br>LOV_CPE_CAPABILITY Does this CPE Hardware or Firmware support the declared TechnologyType? (0 = no;1 = yes; 2 = yes, but SFP needed) |
| comment | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>256</b> ) | 0..1 | A comment.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### 3.4.151 **socketSmallType**

**Description:** Socket (Fiber)

**Used by:** [getServiceStatusResponseType](#)

| Element       | Type                                                        | Occ  | Comment                               |
|---------------|-------------------------------------------------------------|------|---------------------------------------|
| socketId      | xs:string (minLength: <b>13</b> ,<br>maxLength: <b>19</b> ) | 1..1 | A socket id (e.g. A.123.456.789).     |
| cooperationId | xs:string (maxLength: <b>100</b> )                          | 0..1 | A cooperation id (e.g. FreeFormText). |
| plugNr        | xs:int (totalDigits: <b>3</b> )                             | 1..1 |                                       |

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### 3.4.152 **serviceStatusServiceType**

**Description:** The service part of a service status response.

**Used by:** [getServiceStatusResponseType](#)

| Element               | Type                                                       | Occ  | Comment                                                                                                                          |
|-----------------------|------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|
| contrEleId            | xs:int (totalDigits: <b>3</b> )                            | 1..1 | [LOV-ID: 0320] A contract element ID.                                                                                            |
| sla                   | <a href="#">sla</a>                                        | 0..1 |                                                                                                                                  |
| speedProfile          | <a href="#">speedProfileType</a>                           | 0..1 | The speed profile.                                                                                                               |
| speedProfileReq       | <a href="#">speedProfileType</a>                           | 0..1 | A speed profile type.                                                                                                            |
| effectiveSpeed        | <a href="#">duplexSpeedType</a>                            | 0..1 | The effective speed.                                                                                                             |
| bbQuality             | xs:int (totalDigits: <b>3</b> )                            | 0..1 | [LOV-ID: 1009] The BB quality.                                                                                                   |
| classOfService        | xs:int (totalDigits: <b>3</b> )                            | 0..1 | [LOV-ID: 1108] The Class of Service.                                                                                             |
| fairUseSpeedProfileNr | xs:int (totalDigits: <b>3</b> )                            | 0..1 | [LOV-ID: 1109] The requested fair use profile Nr (e.g. 0 := "Restore original Service Speed Profile" 1, := "600 down / 100 up"). |
| extRef                | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>80</b> ) | 0..1 | An external reference provided by the ISP.                                                                                       |

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### 3.4.153 **getServiceStatusResponseType**

**Description:** *Reponse of a get service status*

**Used by:** [getServiceStatusAckType](#)

| Element           | Type                                                    | OccComment                                                                                                                            |
|-------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| contrEleId        | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 0320] A contract element ID.                                                                                            |
| extRef            | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> ) | 0..1 An external reference provided by the ISP.                                                                                       |
| sla               | <a href="#">sla</a>                                     | 0..1                                                                                                                                  |
| ispId             | xs:int (totalDigits: <b>6</b> )                         | 1..1 An ISP ID.                                                                                                                       |
| ispName           | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> ) | 0..1 The name of the ISP.                                                                                                             |
| dnVnNsn           | xs:string (pattern: <b>0[1-9]\d{8}</b> )                | 0..1 A DN/VN/NSN phone number.                                                                                                        |
| billingZone       | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 1503] The billing zone.                                                                                                 |
| bbType            | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 0276] The BB type.                                                                                                      |
| endPoint          | <a href="#">endPointType</a>                            | 0..1 An end point (consisting of a DN office and a BB device location) and port information.                                          |
| startPoint        | <a href="#">startPointType</a>                          | 0..1                                                                                                                                  |
| reasonOfPotential | <a href="#">reasonOfPotential</a>                       | 0..1 Reason of Potential - why is the Current Access Speed lower then the maximum                                                     |
| bbAccess          | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 0205] Info used in manual exception handling.                                                                           |
| dnType            | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 0109] The DN type.                                                                                                      |
| cableBox          | <a href="#">cableBox</a>                                | 0..1 The cable box (aka. "Ueberfuehrungspunkt", "UP").                                                                                |
| region            | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 1501] The region.                                                                                                       |
| nrOfWires         | xs:int (totalDigits: <b>2</b> )                         | 0..1 The number of wires (only copper).                                                                                               |
| accessSpeed       | <a href="#">speedProfileType</a>                        | 0..1                                                                                                                                  |
| poolType          | xs:string (minLength: <b>1</b> )                        | 0..1 The DHCP Pool-Type (named item) of the subscriber (e.g. "pool2"); the LOV-ID 1007 shows the currently available Pool-Type names. |
| cpeInfo           | <a href="#">cpeInfo</a>                                 | 0..1 Information about the CPE.                                                                                                       |
| cpeOwner          | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 4006] The CPE owner. (aka "modem owner")                                                                                |
| sessionType       | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 1005] The session type.                                                                                                 |
| interleaveMode    | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 1008] The interleave mode.                                                                                              |
| termination       | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 1006] The termination type.                                                                                             |
| vectorized        | xs:boolean                                              | 0..1 true if line is currently vectorized                                                                                             |
| technologyType    | xs:int (totalDigits: <b>3</b> )                         | 0..1 [LOV-ID: 9025] LOV_TECHNOLOGY_TYPE: Which standard was used for bitrate calculation: 1 = VDSL2; 2 = VDSL Vectoring; 3 = G.FAST   |

|          |                                          |      |                                                |
|----------|------------------------------------------|------|------------------------------------------------|
| opStatus | xs:int (totalDigits: <b>3</b> )          | 0..1 | [LOV-ID: 1014] The OP Status.                  |
| socket   | <a href="#">socketSmallType</a>          | 0..1 | A socket (fiber)                               |
| service  | <a href="#">serviceStatusServiceType</a> | 0..n | The service part of a service status response. |

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### 3.4.154 **dateTimeRangeType**

**Description:** A range of dateTimes.

**Used by:** [installDateTimeRange](#), [transDateTimeRange](#),  
[lastModificationDateTimeRange](#), [ticketCreationDateTimeRange](#)

| Element | Type        | Occ  | Comment |
|---------|-------------|------|---------|
| from    | xs:dateTime | 1..1 |         |
| to      | xs:dateTime | 1..1 |         |

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### 3.4.155 **oldConnectionType**

**Used by:** [plugType](#)

| Element         | Type                            | Occ  | Comment                                                                       |
|-----------------|---------------------------------|------|-------------------------------------------------------------------------------|
| basisContrEleId | xs:int (totalDigits: <b>3</b> ) | 1..1 |                                                                               |
| ispId           | xs:int (totalDigits: <b>6</b> ) | 0..1 |                                                                               |
| patchType       | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1334] LOV_ALO_PATCH_TYPE: Type of the cross connection (V1, V1+, V2) |

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### 3.4.156 **fiberQualifProfileType**

**Description:** Represents a fiber speed profile making up a part of a qualification result.

**Used by:** [plugType](#)

| Element         | Type                              | Occ  | Comment                                                          |
|-----------------|-----------------------------------|------|------------------------------------------------------------------|
| qualifIndex     | xs:long (totalDigits: <b>10</b> ) | 0..1 | The index identifying a profile within a qualification response. |
| usedAccessSpeed | <a href="#">speedProfileType</a>  | 0..1 | A speed profile type.                                            |
| serviceSpeed    | <a href="#">speedProfileType</a>  | 1..1 | A speed profile type.                                            |
| effectiveSpeed  | <a href="#">duplexSpeedType</a>   | 0..1 | The effective speed.                                             |

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### 3.4.157 **plugType**

**Description:** A plug on a Optical Termination Outlet OTO or Fiber Dose FD

**Used by:** [socketType](#)

| Element | Type                            | Occ  | Comment               |
|---------|---------------------------------|------|-----------------------|
| plugNr  | xs:int (totalDigits: <b>3</b> ) | 1..1 | A plug number (1..4). |

|                      |                                        |      |                                                                              |
|----------------------|----------------------------------------|------|------------------------------------------------------------------------------|
| fiberLineState       | xs:int (totalDigits: <b>3</b> )        | 0..1 | [LOV_FIBER_LINE_STATE] The state for the whole fiber line                    |
| otoState             | xs:int (totalDigits: <b>3</b> )        | 0..1 | [LOV_FIBER_LINE_STATE] The state of the OTO (optical termination outlet)     |
| availabilityDate     | xs:date                                | 0..1 |                                                                              |
| remark               | xs:string                              | 0..1 | a remark                                                                     |
| isActive             | xs:boolean                             | 0..1 | true if a service is active on this line                                     |
| activeConnectionInfo | <a href="#">oldConnectionType</a>      | 0..1 | only set in case of isActive=true                                            |
| maxAccessSpeed       | <a href="#">speedProfileType</a>       | 0..1 | access profiles                                                              |
| qualifProfile        | <a href="#">fiberQualifProfileType</a> | 0..n | qualification profiles                                                       |
| jumperAction         | xs:boolean                             | 0..1 | Ueberfuehrungsrelevant (true/false).                                         |
| fulfillmentTimeSlot  | <a href="#">fulfillmentTimeSlot</a>    | 0..n | A list of fulfillment time slots                                             |
| portState            | xs:int (totalDigits: <b>3</b> )        | 0..1 | [LOV-ID: 1111] The state of the port 1 = Connected 2 = Available 3 = Planned |
| portAvailabilityDate | xs:dateTime                            | 0..1 | Port availability date                                                       |

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### 3.4.158 **socketType**

**Description:** Socket (Fiber)

**Used by:** [customerOrderType](#), [fiberQualifAnswer](#)

| Element          | Type                                                     | Occ  | Comment                                                                                               |
|------------------|----------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------|
| flatId           | xs:string (maxLength: <b>6</b> false)                    | 0..1 | A flat id (e.g. 02.01).                                                                               |
| flatMemo         | xs:string (maxLength: <b>64</b> )                        | 0..1 |                                                                                                       |
| socketId         | xs:string (minLength: <b>13</b> , maxLength: <b>19</b> ) | 1..1 |                                                                                                       |
| cooperationId    | xs:string (maxLength: <b>100</b> )                       | 0..1 | A cooperation id (e.g. FreeFormText).                                                                 |
| fiberLineState   | xs:int (totalDigits: <b>3</b> )                          | 0..1 | State of fiber line. Populated here, if no plug exists, else under plug                               |
| otoState         | xs:int (totalDigits: <b>3</b> )                          | 0..1 | The state of the OTO (optical termination outlet). Populated here, if no plug exists, else under plug |
| firstInHouse     | xs:boolean                                               | 0..1 | Is this the first socket in the house?                                                                |
| availabilityDate | xs:date                                                  | 0..1 |                                                                                                       |
| plug             | <a href="#">plugType</a>                                 | 0..n | A list of plugs                                                                                       |

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### 3.4.159 **baseProductOrderType**

**Description:** An order for a base product.

**Used by:** [customerOrderType](#)

**Extension of:** [baseOrderType](#)

| Element           | Type                                  | Oc<br>c | Comment                                                   |
|-------------------|---------------------------------------|---------|-----------------------------------------------------------|
| disconDate        | xs:date                               | 0..1    | The date of service deactivation.                         |
| bbType            | xs:int (totalDigits:3)                | 0..1    | [LOV-ID: 0276]<br>The BB type.                            |
| startPoint        | <a href="#">startPointType</a>        | 0..1    |                                                           |
| bbAccess          | xs:int (totalDigits:3)                | 0..1    | [LOV-ID: 0205]<br>Info used in manual exception handling. |
| bbPortNr          | xs:string (minLength:1, maxLength:15) | 0..1    | Splitter Port                                             |
| dnType            | xs:int (totalDigits:3)                | 0..1    | [LOV-ID: 0109]<br>The DN type.                            |
| dnVnNsnReq        | xs:string (pattern:0[1-9]\d{8})       | 0..1    | The requested DN/VN/NSN.                                  |
| stnrDdi           | xs:string (pattern:0[1-9]\d{8})       | 0..1    | The base number ("Stammnummer") for DDI.                  |
| cableBox          | <a href="#">cableBox</a>              | 0..1    | The cable box (aka. "Ueberfuehrungspunkt", "UP").         |
| region            | xs:int (totalDigits:3)                | 0..1    | [LOV-ID: 1501]<br>The region.                             |
| address           | <a href="#">addressType</a>           | 0..1    | In case of BBCS standalone                                |
| sgMm              | xs:int (totalDigits:3)                | 0..1    | [LOV-ID: 0107]<br>The "Schalt-Merkmal".                   |
| nrOfWires         | xs:int (totalDigits:2)                | 0..1    | The number of wires (only copper).                        |
| accessSpeed       | <a href="#">speedProfileType</a>      | 0..1    |                                                           |
| accessSpeedChange | xs:int (totalDigits:3)                | 0..1    | [LOV-ID: 1064]<br>The access speed changed.               |
| poolType          | xs:string (minLength:1)               | 0..1    | The DHCP Pool-Type (named item) of the subscriber (e.g.   |

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | "pool2"); the LOV-ID 1007 shows the currently available Pool-Type names.      |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------|-----|---------|-------|---------------------------------|------|------------|--------|---------------------------------|------|--|----------------|---------------------------------|------|---------------------------------------|-----|--------------------------------------|------|----------------------|-----------|---------------------------------|------|-------------------------------------------------------------------------------|----------|------------------------------|------|-------------------------------------------------------------|------|--|
| cpeOwner                     | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0..1    | [LOV-ID: 4006] The CPE owner. (aka "modem owner")                             |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| appointmentId                | xs:long (totalDigits: <b>10</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0..1    | Appointment ID referencing an existing agreement.                             |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| appointmentDateTime          | xs:dateTime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0..1    | Date and Time of an Appointment                                               |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| selfInstall                  | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0..1    | [LOV-ID: 4005] Type of Self Installation.                                     |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| opStatus                     | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0..1    | [LOV-ID: 1014] The OP Status.                                                 |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| inhouseInstallationInfo      | <a href="#">inhouseInstallationInfoType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0..1    | Information about a fiber in house installation                               |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| previousActiveConnectionInfo | <table border="1"> <thead> <tr> <th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr> </thead> <tbody> <tr> <td>ispId</td><td>xs:int (totalDigits:<b>6</b>)</td><td>1..1</td><td>An ISP ID.</td></tr> <tr> <td>plugNr</td><td>xs:int (totalDigits:<b>3</b>)</td><td>1..1</td><td></td></tr> <tr> <td>contrElementId</td><td>xs:int (totalDigits:<b>3</b>)</td><td>1..1</td><td>[LOV-ID: 0320] A contract element ID.</td></tr> <tr> <td>nsn</td><td>xs:string (pattern:<b>010\{7}</b>)</td><td>0..1</td><td>A Net Service Number</td></tr> <tr> <td>patchType</td><td>xs:int (totalDigits:<b>3</b>)</td><td>0..1</td><td>[LOV-ID: 1334] LOV_ALO_PATCH_TYPE: Type of the cross connection (V1, V1+, V2)</td></tr> <tr> <td>breakout</td><td><a href="#">breakoutType</a></td><td>0..1</td><td>Breakout cable The name of the breakout cable Number of the</td></tr> </tbody> </table> | Element | Type                                                                          | Occ | Comment | ispId | xs:int (totalDigits: <b>6</b> ) | 1..1 | An ISP ID. | plugNr | xs:int (totalDigits: <b>3</b> ) | 1..1 |  | contrElementId | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 0320] A contract element ID. | nsn | xs:string (pattern: <b>010\{7}</b> ) | 0..1 | A Net Service Number | patchType | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1334] LOV_ALO_PATCH_TYPE: Type of the cross connection (V1, V1+, V2) | breakout | <a href="#">breakoutType</a> | 0..1 | Breakout cable The name of the breakout cable Number of the | 0..1 |  |
| Element                      | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Occ     | Comment                                                                       |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| ispId                        | xs:int (totalDigits: <b>6</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1..1    | An ISP ID.                                                                    |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| plugNr                       | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1..1    |                                                                               |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| contrElementId               | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1..1    | [LOV-ID: 0320] A contract element ID.                                         |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| nsn                          | xs:string (pattern: <b>010\{7}</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0..1    | A Net Service Number                                                          |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| patchType                    | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0..1    | [LOV-ID: 1334] LOV_ALO_PATCH_TYPE: Type of the cross connection (V1, V1+, V2) |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |
| breakout                     | <a href="#">breakoutType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0..1    | Breakout cable The name of the breakout cable Number of the                   |     |         |       |                                 |      |            |        |                                 |      |  |                |                                 |      |                                       |     |                                      |      |                      |           |                                 |      |                                                                               |          |                              |      |                                                             |      |  |

|                        |                                             |                      |                      |       |      |                                      |
|------------------------|---------------------------------------------|----------------------|----------------------|-------|------|--------------------------------------|
|                        | <input type="text"/>                        | <input type="text"/> | <input type="text"/> | Fiber |      |                                      |
| predecessorInfo        | <a href="#">predecessorInfoType</a>         |                      |                      |       | 0..1 | a predecessor information            |
| jumperAction           | xs:boolean                                  |                      |                      |       | 0..1 | Ueberfuehrungsrelevant (true/false). |
| preOrderActivationCode | xs:string                                   |                      |                      |       | 0..1 | The activation code for preOrders    |
| onpNumber              | xs:string (maxLength: <b>32</b> )           |                      |                      |       | 0..1 | ONP Nummer (I-NET order)             |
| history                | <a href="#">baseProductOrderHistoryType</a> |                      |                      |       | 0..n | An order history for a base product. |

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### 3.4.160 **ispChangeDonorOrderType**

**Description:** An isp change donor order that reports the new isp receiver to the isp donor.

**Used by:** [customerOrderType](#)

**Extension of:** [baseOrderType](#)

| Element    | Type                                                    | Occ  | Comment                                     |
|------------|---------------------------------------------------------|------|---------------------------------------------|
| newIspId   | xs:int (totalDigits: <b>6</b> )                         | 1..1 |                                             |
| newIspName | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> ) | 1..1 |                                             |
| history    | <a href="#">ispChangeDonorOrderHistoryType</a>          | 0..n | An history order of isp change donor order. |

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### 3.4.161 **serviceOrderType**

**Description:** An order for a service.

**Used by:** [customerOrderType](#)

**Extension of:** [baseOrderType](#)

| Element               | Type                             | Occ  | Comment                                  |
|-----------------------|----------------------------------|------|------------------------------------------|
| speedProfile          | <a href="#">speedProfileType</a> | 0..1 | The speed profile.                       |
| speedProfileReq       | <a href="#">speedProfileType</a> | 0..1 | A speed profile type.                    |
| accessSpeed           | <a href="#">speedProfileType</a> | 0..1 |                                          |
| accessSpeedChange     | xs:int (totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1064] The access speed changed. |
| effectiveSpeed        | <a href="#">duplexSpeedType</a>  | 0..1 | The effective speed.                     |
| bbQuality             | xs:int (totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1009] The BB quality.           |
| classOfService        | xs:int (totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1108] The Class of Service.     |
| fairUseSpeedProfileNr | xs:int (totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1109] The requested fair use    |

|         |                                         |      |                                                                                            |
|---------|-----------------------------------------|------|--------------------------------------------------------------------------------------------|
|         |                                         |      | profile Nr (e.g. 0 := "Restore original Service Speed Profile" 1, := "600 down / 100 up"). |
| history | <a href="#">serviceOrderHistoryType</a> | 0..n | An order for a service.                                                                    |

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### 3.4.162 **baseOrderType**

**Description:** The abstract order definition.

**Extended by:** [baseProductOrderType](#), [ispChangeDonorOrderType](#), [serviceOrderType](#)

**Extension of:** [abstractOrderType](#)

| Element                   | Type                                   | Occ  | Comment                                                       |
|---------------------------|----------------------------------------|------|---------------------------------------------------------------|
| creationType              | xs:int (totalDigits:3)                 | 0..1 | [LOV-ID: 1003] The so-called "kind of creation" of an order.  |
| orderNr                   | xs:string (pattern:[1-9]\d{25})        | 1..1 | The order ID.                                                 |
| contrEleId                | xs:int (totalDigits:3)                 | 0..1 | [LOV-ID: 0320] A contract element ID.                         |
| orderType                 | xs:int (totalDigits:3)                 | 1..1 | [LOV-ID: 1001] The order type.                                |
| orderState                | xs:int (totalDigits:3)                 | 1..1 | [LOV-ID: 1002] The order status.                              |
| customerWishDate          | xs:date                                | 0..1 | The customer wish date.                                       |
| estimatedDueDateTimeStart | xs:dateTime                            | 0..1 | The estimated due date and time start.                        |
| estimatedDueDateTimeEnd   | xs:dateTime                            | 0..1 | The estimated due date and time end.                          |
| transDateTime             | xs:dateTime                            | 1..1 | The transition date/time.                                     |
| comment                   | xs:string (minLength:1, maxLength:256) | 0..1 | A comment.                                                    |
| reason                    | xs:string (pattern:[\dA-Z]{3})         | 0..1 | A 3-letter error code (aka messageId) where "000" means "ok". |
| reasonComment             | xs:string (minLength:1, maxLength:256) | 0..1 | Some additional textual description for the reason.           |
| extRef                    | xs:string (minLength:1, maxLength:80)  | 0..1 | An external reference provided by the ISP.                    |
| sla                       | <a href="#">sla</a>                    | 0..1 |                                                               |

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### 3.4.163 **abstractOrderType**

**Description:** The generic order type used in responses.

**Extended by:** [baseOrderType](#)

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### 3.4.164 **inhouseAppointmentType**

**Description:** An inhouse appointment

**Used by:** [inhouseAppointment](#)

| Element                   | Type                              | Occ  | Comment                                           |
|---------------------------|-----------------------------------|------|---------------------------------------------------|
| appointmentId             | xs:long (totalDigits: <b>10</b> ) | 1..1 | Appointment ID referencing an existing agreement. |
| appointmentDateTime       | xs:dateTime                       | 0..1 | Date and Time of an Appointment                   |
| appointmentEndDateTime    | xs:dateTime                       | 0..1 | End Date and Time of an Appointment               |
| slaAppointmentDateTime    | xs:dateTime                       | 1..1 | SLA Date and Time of an Appointment               |
| slaAppointmentEndDateTime | xs:dateTime                       | 1..1 | SLA End Date and Time of an Appointment           |

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### 3.4.165 inhouseInstallationInfoType

**Description:** Information about a fiber in house installation

**Used by:** [inhouseInstallationInfo](#)

| Element            | Type                                                     | Occ  | Comment                                                                                                                                                                                                                                               |
|--------------------|----------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ContactAddress     | <a href="#">contactAddressType</a>                       | 1..1 | Customer Contact Information                                                                                                                                                                                                                          |
| InstallationNotice | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Comment for dispatching and service engineer                                                                                                                                                                                                          |
| inhouseAppointment | <a href="#">inhouseAppointmentType</a>                   | 0..1 | An inhouse Appointment                                                                                                                                                                                                                                |
| outOfSla           | xs:boolean                                               | 0..1 |                                                                                                                                                                                                                                                       |
| outOfSlaReason     | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 5009]<br>LOV_COPA_OUTOFSLA_REASON (10 = Appointment outside of SLA due to customer preference; 20 = Appointment outside of SLA caused by Installation Partner Swisscom; 30 = Appointment outside of SLA caused by Installation Partner KoPa) |
| outOfSlaComment    | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Notice text with the reason for Out of SLA                                                                                                                                                                                                            |
| earliestStartDate  | xs:date                                                  | 0..1 | earliest start date of the inhouse installation                                                                                                                                                                                                       |

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### 3.4.166 breakoutType

**Description:** Breakout cable

**Used by:** [createType](#), [baseProductOrderType](#)

| Element       | Type                                                    | Occ  | Comment                        |
|---------------|---------------------------------------------------------|------|--------------------------------|
| breakoutCable | xs:string (minLength: <b>1</b> , maxLength: <b>40</b> ) | 1..1 | The name of the breakout cable |
| breakoutFiber | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> ) | 0..1 | Number of the Fiber            |

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### 3.4.167 predecessorInfoType

**Description:** An predecessor Info

**Used by:** [predecessorInfo](#)

| Element | Type                                     | Occ  | Comment                 |
|---------|------------------------------------------|------|-------------------------|
| phoneNr | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 0..1 | The voice phone number. |
| name    | <a href="#">subjectAddressNameType</a>   | 0..1 | Person or company name. |

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### 3.4.168 baseProductOrderHistoryType

**Description:** An order history for a base product.

**Used by:** [baseProductOrderType](#)

**Extension of:** [orderHistoryType](#)

| Element           | Type                                | Occ  | Comment                                                                                                                          |
|-------------------|-------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|
| disconDate        | xs:date                             | 0..1 | The date of service deactivation.                                                                                                |
| bbType            | xs:int<br>(totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 0276] The BB type.                                                                                                      |
| accessSpeed       | <a href="#">speedProfileType</a>    | 0..1 |                                                                                                                                  |
| accessSpeedChange | xs:int<br>(totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1064] The access speed changed.                                                                                         |
| poolType          | xs:string<br>(minLength: <b>1</b> ) | 0..1 | The DHCP Pool-Type (named item) of the subscriber (e.g. "pool2"); the LOV-ID 1007 shows the currently available Pool-Type names. |
| cpeOwner          | xs:int<br>(totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 4006] The CPE owner. (aka "modem owner")                                                                                |

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### 3.4.169 ispChangeDonorOrderHistoryType

**Description:** An history order of isp change donor order.

**Used by:** [ispChangeDonorOrderType](#)

**Extension of:** [orderHistoryType](#)

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### 3.4.170 serviceOrderHistoryType

**Description:** An order for a service.

**Used by:** [serviceOrderType](#)

**Extension of:** [orderHistoryType](#)

| Element         | Type                             | Occ  | Comment                        |
|-----------------|----------------------------------|------|--------------------------------|
| speedProfile    | <a href="#">speedProfileType</a> | 0..1 | The speed profile.             |
| speedProfileReq | <a href="#">speedProfileType</a> | 0..1 | A speed profile type.          |
| effectiveSpeed  | <a href="#">duplexSpeedType</a>  | 0..1 | The effective speed.           |
| bbQuality       | xs:int (totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1009] The BB quality. |

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### 3.4.171 orderHistoryType

**Description:** The abstract order history definition.

**Extended by:** [baseProductOrderHistoryType](#),  
[ispChangeDonorOrderHistoryType](#), [serviceOrderHistoryType](#)

| Element                   | Type                                                     | Occ  | Comment                                                       |
|---------------------------|----------------------------------------------------------|------|---------------------------------------------------------------|
| orderState                | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 1002] The order status.                              |
| customerWishDate          | xs:date                                                  | 0..1 | The customer wish date.                                       |
| estimatedDueDateTimeStart | xs:dateTime                                              | 0..1 | The estimated due date and time start.                        |
| estimatedDueDateTimeEnd   | xs:dateTime                                              | 0..1 | The estimated due date and time end.                          |
| transDateTime             | xs:dateTime                                              | 1..1 | The transition date/time.                                     |
| comment                   | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                                    |
| reason                    | xs:string (pattern:[\dA-Z]{ <b>3</b> })                  | 0..1 | A 3-letter error code (aka messageId) where "000" means "ok". |
| reasonComment             | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Some additional textual description for the reason.           |
| extRef                    | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.                    |
| sla                       | <a href="#">sla</a>                                      | 0..1 |                                                               |

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### 3.4.172 customerOrderType

**Description:** The generic customer order type.

**Used by:** [getDetailAckType](#)

| Element         | Type                                                       | Occ  | Comment                                                       |
|-----------------|------------------------------------------------------------|------|---------------------------------------------------------------|
| ispId           | xs:int (totalDigits: <b>6</b> )                            | 1..1 | An ISP ID.                                                    |
| ispName         | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )    | 1..1 | The name of the ISP.                                          |
| customerOrderNr | xs:string (pattern:[ <b>1-9</b> ]\d{ <b>25</b> })          | 1..1 | The customer order ID.                                        |
| extRef          | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )    | 0..1 | An external reference provided by the ISP.                    |
| dnVnNsn         | xs:string (pattern: <b>0</b> [ <b>1-9</b> ]\d{ <b>8</b> }) | 0..1 | A DN/VN/NSN phone number.                                     |
| businessType    | xs:int (totalDigits: <b>3</b> )                            | 0..1 | [LOV-ID: 1301]<br>1=New;<br>2=Relocation;<br>3=ProductChange; |

|                                |                                                          |      |                                                                                         |
|--------------------------------|----------------------------------------------------------|------|-----------------------------------------------------------------------------------------|
|                                |                                                          |      | 4=NewOnActive;<br>5=IspChange ...                                                       |
| creationType                   | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 1003]<br>The so-called "kind of creation" of an order.                         |
| reason                         | xs:string (pattern:[\dA-Z]{3})                           | 0..1 | A 3-letter error code (aka messageId) where "000" means "ok".                           |
| reasonComment                  | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Some additional textual description for the reason.                                     |
| qualifNr                       | xs:long (totalDigits: <b>10</b> )                        | 0..1 | The qualification ID.                                                                   |
| qualifIndex                    | xs:long (totalDigits: <b>10</b> )                        | 0..1 | The index identifying a profile within a qualification response.                        |
| fulfillmentTimeSlotQualifIndex | xs:long (totalDigits: <b>10</b> )                        | 0..1 | The index identifying a profile within a qualification response.                        |
| billingZone                    | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 1503]<br>The billing zone.                                                     |
| wosId                          | xs:string (maxLength: <b>17</b> )                        | 0..1 | The work order synchronisation ID.                                                      |
| wosIdReq                       | xs:string (maxLength: <b>17</b> )                        | 0..1 | The requested work order synchronisation ID.                                            |
| endPoint                       | <a href="#">endPointType</a>                             | 0..1 | An end point (consisting of a DN office and a BB device location) and port information. |
| reasonOfPotential              | <a href="#">reasonOfPotential</a>                        | 0..1 | Reason of Potential - why is the Current Access Speed lower then the maximum            |
| cpeInfo                        | <a href="#">cpeInfo</a>                                  | 0..  | Information about                                                                       |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1       | the CPE.                                                                                                                                                                                                                                                                                         |     |         |                  |                                      |      |                                                         |              |                                  |      |                         |                     |                                         |      |                                                                        |      |                                                |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|------------------|--------------------------------------|------|---------------------------------------------------------|--------------|----------------------------------|------|-------------------------|---------------------|-----------------------------------------|------|------------------------------------------------------------------------|------|------------------------------------------------|
| socket              | <a href="#">socketType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0..1    | Socket (Fiber) A flat id (e.g. 02.01). State of fiber line. Populated here, if no plug exists, else under plug The state of the OTO (optical termination outlet). Populated here, if no plug exists, else under plug Is this the first socket in the house? an availability date A list of plugs |     |         |                  |                                      |      |                                                         |              |                                  |      |                         |                     |                                         |      |                                                                        |      |                                                |
| order               | <table> <tr> <th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr> <tr> <td>baseProductOrder</td><td><a href="#">baseProductOrderType</a></td><td>0..1</td><td>An order for a base product. In case of BBCS standalone</td></tr> <tr> <td>serviceOrder</td><td><a href="#">serviceOrderType</a></td><td>0..n</td><td>An order for a service.</td></tr> <tr> <td>ispChangeDonorOrder</td><td><a href="#">ispChangeDonorOrderType</a></td><td>0..1</td><td>An isp change donor order that reports the new isp receiver to the isp</td></tr> </table> | Element | Type                                                                                                                                                                                                                                                                                             | Occ | Comment | baseProductOrder | <a href="#">baseProductOrderType</a> | 0..1 | An order for a base product. In case of BBCS standalone | serviceOrder | <a href="#">serviceOrderType</a> | 0..n | An order for a service. | ispChangeDonorOrder | <a href="#">ispChangeDonorOrderType</a> | 0..1 | An isp change donor order that reports the new isp receiver to the isp | 1..1 | A list of orders (E.g. base or service order). |
| Element             | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Occ     | Comment                                                                                                                                                                                                                                                                                          |     |         |                  |                                      |      |                                                         |              |                                  |      |                         |                     |                                         |      |                                                                        |      |                                                |
| baseProductOrder    | <a href="#">baseProductOrderType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0..1    | An order for a base product. In case of BBCS standalone                                                                                                                                                                                                                                          |     |         |                  |                                      |      |                                                         |              |                                  |      |                         |                     |                                         |      |                                                                        |      |                                                |
| serviceOrder        | <a href="#">serviceOrderType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0..n    | An order for a service.                                                                                                                                                                                                                                                                          |     |         |                  |                                      |      |                                                         |              |                                  |      |                         |                     |                                         |      |                                                                        |      |                                                |
| ispChangeDonorOrder | <a href="#">ispChangeDonorOrderType</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0..1    | An isp change donor order that reports the new isp receiver to the isp                                                                                                                                                                                                                           |     |         |                  |                                      |      |                                                         |              |                                  |      |                         |                     |                                         |      |                                                                        |      |                                                |

|                |                                 |      |                                                                                                                                   |  |  |
|----------------|---------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------|--|--|
|                |                                 |      | donor.<br>The ISP<br>ID of<br>the new<br>ISP<br>(receiv<br>er).<br>The<br>name<br>of the<br>new<br>ISP<br>(receiv<br>er).         |  |  |
| sessionType    | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1005]<br>The session type.                                                                                               |  |  |
| termination    | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1006]<br>The termination type.                                                                                           |  |  |
| vectorized     | xs:boolean                      | 0..1 | true if line is currently vectorized                                                                                              |  |  |
| technologyType | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 9025]<br>LOV_TECHNOLOGY_TYPE: Which standard was used for bitrate calculation: 1 = VDSL2; 2 = VDSL Vectoring; 3 = G.FAST |  |  |

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### 3.4.173 additionalInstallationSupport

**Description:** The additional installation support with it's state.

**Used by:** [ticket](#)

| Element                   | Type                            | Occ  | Comment                                                       |
|---------------------------|---------------------------------|------|---------------------------------------------------------------|
| additionalInstallationReq | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: 4004] The requested additional installation support. |
| aiState                   | xs:int (totalDigits: <b>3</b> ) | 1..1 | [LOV-ID: --] The additional installation support state.       |

### 3.4.174 billingInformation

**Description:** Billing relevant informations.

**Used by:** [itHistoryType](#), [ticket](#)

| Element       | Type                                 | Occ  | Comment                                                                                 |
|---------------|--------------------------------------|------|-----------------------------------------------------------------------------------------|
| billingAction | xs:int (totalDigits: <b>3</b> )      | 1..1 | [LOV-ID: 1502] Billing actions.                                                         |
| matCost       | xs:decimal (totalDigits: <b>10</b> ) | 0..1 | Total material costs in CHF. (example: '12.25'; pattern: '10d.2d')                      |
| ppId          | xs:int (totalDigits: <b>3</b> )      | 0..1 | Flat rate code in CHF. (E.g. 7 = xxx CHF)                                               |
| ppCount       | xs:int (totalDigits: <b>3</b> )      | 0..1 | Number of flat rates per TT. (Generally 1)                                              |
| stdId         | xs:int (totalDigits: <b>3</b> )      | 0..1 | Expense ratio code. (E.g. 01=140 CHF, 02=120 CHF)                                       |
| expense       | xs:int (totalDigits: <b>5</b> )      | 0..1 | Work expense in minutes. (Conversion into hours and multiply with STD_ID rate not done) |

### 3.4.175 **itHistoryType**

**Description:** A base type for installation tickets (used for history-items).

**Used by:** [ticket](#)

| Element              | Type                                                     | Occ  | Comment                                                                                                                                         |
|----------------------|----------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| itState              | xs:int                                                   | 1..1 | [LOV-ID: 4001] The WSG state of an installation ticket: 1=ENTERED; 2=REJECTED; 3=CHECKED; 4=PROCESSING; 5=INWORK; 6=CLOSED; 7=CANCELLED).       |
| lastModifiedDateTime | xs:dateTime                                              | 1..1 | The last modification date and time of the corresponding entity.                                                                                |
| lastModifiedUsername | xs:string (minLength: <b>1</b> , maxLength: <b>60</b> )  | 1..1 | The username of the modifying user.                                                                                                             |
| responseComment      | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Text if it is necessary to give some additional detail information. Remark: same attribute as MESSAGE_TEXT in previous .vmg record definitions. |
| responseCommentCode  | xs:int (totalDigits: <b>3</b> )                          | 0..1 | The response comment code. Code of correction action taken. (LOV).                                                                              |
| progressComment      | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | An information about progress                                                                                                                   |
| progressCommentCode  | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: --] The code of the progress information.                                                                                              |
| progressDateTime     | xs:dateTime                                              | 0..1 | The date and time of the progress                                                                                                               |
| billingInformation   | <a href="#">billingInformation</a>                       | 0..1 | Billing relevant informations.                                                                                                                  |
| installDateTimeRange | <a href="#">dateTimeRangeType</a>                        | 0..1 | Installation frame.                                                                                                                             |

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### 3.4.176 **ticket**

**Description:** An installation ticket and its details.

**Used by:** [getInstallationTicketDetailAckType](#)

| Element       | Type                            | Occ  | Comment |
|---------------|---------------------------------|------|---------|
| onsiteSupport | xs:int (totalDigits: <b>3</b> ) | 0..1 |         |

|                           |                                                          |      |                                                                                                              |
|---------------------------|----------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
| ispItRef                  | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | An external reference (an ID assigned by the ISP) identifying the installation ticket                        |
| endUser                   | <a href="#">endUser</a>                                  | 1..1 | Contact information on the end user (name, phone numbers, etc)                                               |
| holdFlag                  | xs:boolean                                               | 0..1 | If set to true the Installation Ticket is hold until Hardware Delivery Date.                                 |
| hwDeliveryState           | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4007] Hardware Delivery State.                                                                      |
| hwDeliveryDate            | xs:date                                                  | 0..1 | Hardware Delivery Date.                                                                                      |
| hwDeliveryLocation        | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Hardware delivery location                                                                                   |
| hwType                    | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | CPE Description                                                                                              |
| hwExtRefReq               | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Additional Information if ONSITE_SUPPORT is not set to 1="None": CPE SAP Order-Number of equipment requested |
| installDateTimeRange      | <a href="#">dateTimeRangeType</a>                        | 0..1 | Installation frame.                                                                                          |
| installationType          | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | Additional installation description.                                                                         |
| additionalInstallationReq | xs:int (totalDigits: <b>3</b> )                          | 0..n | [LOV-ID: 4004] The requested additional installation support.                                                |
| appointmentId             | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.                                                            |
| itIdWsg                   | xs:decimal (totalDigits: <b>10</b> )                     | 1..1 | Installation ticket id assigned by WSG                                                                       |
| itIdSys                   | xs:string (maxLength: <b>30</b> )                        | 0..1 | IT system generated number identifying the installation ticket.                                              |
| refOrderNr                | xs:string (pattern: <b>[1-9]\d{25}</b> )                 | 0..1 |                                                                                                              |
| ispId                     | xs:int (totalDigits: <b>6</b> )                          | 1..1 | An ISP ID.                                                                                                   |
| ispName                   | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 1..1 | The name of the ISP.                                                                                         |
| orderType                 | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 1001] The order type.                                                                               |
| dnVnNsn                   | xs:string (pattern: <b>0[1-9]\d{8}</b> )                 | 0..1 |                                                                                                              |
| dnVnNsnReq                | xs:string (pattern: <b>0[1-9]\d{8}</b> )                 | 0..1 | The requested DN/VN/NSN.                                                                                     |
| entryDateTime             | xs:dateTime                                              | 0..1 | The entry dateTime.                                                                                          |
| closedDateTime            | xs:dateTime                                              | 0..1 | The date and time when the                                                                                   |

|                               |                                                          |      |                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |                                                          |      | ticked has been closed.                                                                                                                                                                                  |
| contrEleId                    | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 0320] A contract element ID.                                                                                                                                                                    |
| bbType                        | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 0276] The BB type.                                                                                                                                                                              |
| itIdWsgRef                    | xs:decimal (totalDigits: <b>10</b> )                     | 0..1 | Reference to installation ticket (2nd intervention)                                                                                                                                                      |
| dnType                        | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 0109] The DN type.                                                                                                                                                                              |
| speedProfileNr                | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 1010] The speed profile number.                                                                                                                                                                 |
| hwExtRefInst                  | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | CPE SAP Order-Number of equipment installed. Semicolon separate list with Number,Counter pairs. E.g. 5555.676.6,02;555.600.6,01 for 2 CPEs of Order-Number 555.676.6 and 1 CPE of Order-Number 555.600.6 |
| additionalInstallationSupport | <a href="#">additionalInstallationSupport</a>            | 0..n | The additional installation support with it's state.                                                                                                                                                     |
| fieldForceComment             | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | An information from the field force.                                                                                                                                                                     |
| wosId                         | xs:string (maxLength: <b>17</b> )                        | 0..1 | The work order synchronisation ID.                                                                                                                                                                       |
| itState                       | xs:int                                                   | 1..1 | [LOV-ID: 4001] The WSG state of an installation ticket:<br>1=ENTERED; 2=REJECTED;<br>3=CHECKED; 4=PROCESSING;<br>5=INWORK; 6=CLOSED;<br>7=CANCELLED).                                                    |
| lastModifiedDateTime          | xs:dateTime                                              | 1..1 | The last modification date and time of the corresponding entity.                                                                                                                                         |
| lastModifiedUsername          | xs:string (minLength: <b>1</b> , maxLength: <b>60</b> )  | 1..1 | The username of the modifying user.                                                                                                                                                                      |
| responseComment               | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Text if it is necessary to give some additional detail information. Remark: same attribute as MESSAGE_TEXT in previous .vmg record definitions.                                                          |
| responseCommentCode           | xs:int (totalDigits: <b>3</b> )                          | 0..1 | The response comment code. Code of correction action taken. (LOV).                                                                                                                                       |
| progressComment               | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | An information about progress                                                                                                                                                                            |

|                     |                                    |      |                                                    |
|---------------------|------------------------------------|------|----------------------------------------------------|
| progressCommentCode | xs:int (totalDigits: <b>3</b> )    | 0..1 | [LOV-ID: --] The code of the progress information. |
| progressDateTime    | xs:dateTime                        | 0..1 | The date and time of the progress                  |
| billingInformation  | <a href="#">billingInformation</a> | 0..1 | Billing relevant informations.                     |
| historyItem         | <a href="#">itHistoryType</a>      | 0..n | A history entry of the ticket                      |

### 3.4.177 **tdmMessageBaseType**

**Description:** A base type for tdm message (used for tdmMessageType and tdmMessageGroupedPartType).

**Extended by:** [tdmMessage](#)

| Element             | Type                                                           | Occ  | Comment                                                                         |
|---------------------|----------------------------------------------------------------|------|---------------------------------------------------------------------------------|
| tdmMessageType      | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>40</b> )  | 1..1 | [LOV-ID: 1201] A voice message type. (e.g. 4:="GV04")                           |
| tdmMessageRef       | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>40</b> )  | 1..1 | Reference from TERCO or other TDM application.                                  |
| dnVn1               | xs:string<br>(pattern: <b>0[1-9]\d{8}</b> )                    | 1..1 |                                                                                 |
| dnVn2               | xs:string<br>(pattern: <b>0[1-9]\d{8}</b> )                    | 0..1 |                                                                                 |
| responseComment     | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>256</b> ) | 0..1 | Text if it is necessary to give some additional detail information. (free Text) |
| transDateTime       | xs:dateTime                                                    | 0..1 |                                                                                 |
| processFlowNr       | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>20</b> )  | 1..1 | Reference from OMS or other Voice application.                                  |
| validActiDateTime   | xs:dateTime                                                    | 0..1 |                                                                                 |
| actiDateTime        | xs:dateTime                                                    | 0..1 |                                                                                 |
| validDisconDateTime | xs:dateTime                                                    | 0..1 |                                                                                 |
| disconDateTime      | xs:dateTime                                                    | 0..1 |                                                                                 |
| dnTypeOld           | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 0109] The dn type.                                                     |
| dnTypeNew           | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 0109] The dn type.                                                     |
| bbAccess            | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 0205] Info used in manual exception handling.                          |
| bbTypeOld           | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 0276] The Broadband type.                                              |
| bbTypeNew           | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 0276] The Broadband type.                                              |
| lId                 | xs:string<br>(minLength: <b>1</b> ,                            | 0..1 | The local loop ID.                                                              |

|                    |                                                               |      |                                                                                                                                 |
|--------------------|---------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------|
|                    | maxLength: <b>13</b> )                                        |      |                                                                                                                                 |
| sessionTypeOld     | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 1005] Broadband Session Type.                                                                                          |
| sessionTypeNew     | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 1005] Broadband Session Type.                                                                                          |
| backMessageText    | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>80</b> ) | 0..1 | Free text if it is necessary to give some additional detail information (e.g. port shortage).                                   |
| cableBox           | <a href="#">cableBox</a>                                      | 0..1 | The cable box (aka. "Ueberfuehrungspunkt", "UP").                                                                               |
| bbOkStatus         | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 1004] BB OK status.                                                                                                    |
| custBusinessNr     | xs:string<br>(maxLength: <b>12</b> )                          | 1..1 | The customer business number.                                                                                                   |
| groupState         | xs:int                                                        | 1..1 | [LOV-ID: 1202] The state of the tdm message group: 1=OPEN; 2=DELAYED; 3=DONE)                                                   |
| previousGroupState | xs:int                                                        | 0..1 | [LOV-ID: 1203] TDM message previous state.                                                                                      |
| groupType          | xs:int (totalDigits: <b>3</b> )                               | 1..1 | [LOV-ID: 1204] TDM message group type<br>Remark: this type can change until the "tdm message group" has reached the state DONE. |
| sla                | <a href="#">sla</a>                                           | 0..1 |                                                                                                                                 |
| bbQualityOld       | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 1009] The bbQuality.                                                                                                   |
| bbQualityNew       | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 1009] The bbQuality.                                                                                                   |
| speedProfileOld    | <a href="#">speedProfileType</a>                              | 0..1 | Old service speed profile                                                                                                       |
| speedProfileNew    | <a href="#">speedProfileType</a>                              | 0..1 | New service speed profile                                                                                                       |
| contrEleId         | xs:int (totalDigits: <b>3</b> )                               | 0..1 | [LOV-ID: 0320] A contract element ID.                                                                                           |

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### 3.4.178 **tdmMessage**

**Description:** TDM message (step).

**Used by:** [getTdmMessageDetailAckType](#)

**Extension of:** [tdmMessageBaseType](#)

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

### 3.4.179 **fulfillmentTimeSlot**

**Description:** A list of fulfillment time slots

**Used by:** [plugType](#), [qualifHistoryReqDataType](#), [qualifAnswer](#)

| Element                        | Type                                 | Occ  | Comment                                                          |
|--------------------------------|--------------------------------------|------|------------------------------------------------------------------|
| fulfillmentTimeSlotQualifIndex | xs:long<br>(totalDigits: <b>10</b> ) | 1..1 | The index identifying a profile within a qualification response. |
| fulfillmentTimeSlotStart       | xs:dateTime                          | 1..1 | Start Date Time of the Fulfillment Time Slot                     |
| fulfillmentTimeSlotEnd         | xs:dateTime                          | 0..1 | End Date Time of the Fulfillment Time Slot                       |

### 3.4.180 **qualifHistoryReqDataType**

**Description:** The qualification request from the history

**Used by:** [getQualifHistoryAckType](#)

| Element             | Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Oc<br>c                                                 | Comment                                                          |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------|--------------------------------|---------|--------|------------------------------------------|------|---------------------------|------|---------------------------------------------------------|------|--------------------|------------|---------------------------------------|------|--------------------------------|---------|------------------------------------|------|-----------------------------|-----------|-----------------------------------|------|----------------------------------------|------|--|
| qualifNr            | xs:long (totalDigits: <b>10</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1..1                                                    | The qualification ID.                                            |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| qualifIndex         | xs:long (totalDigits: <b>10</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0..1                                                    | The index identifying a profile within a qualification response. |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| fulfillmentTimeSlot | <a href="#">fulfillmentTimeSlot</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0..1                                                    |                                                                  |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| ispId               | xs:int (totalDigits: <b>6</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1..1                                                    | An ISP ID.                                                       |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| contrEleId          | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1..n                                                    | [LOV-ID: 0320]<br>A contract element ID.                         |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| bbType              | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0..n                                                    | [LOV-ID: 0276]<br>The BB type.                                   |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| dnType              | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0..1                                                    | [LOV-ID: 0109]<br>The DN type.                                   |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| <b>- choice:</b>    | <table><tr><th>Element</th><th>Type</th><th>Oc<br/>c</th><th>Comment</th></tr><tr><td>dnVnNs</td><td>xs:string (pattern:<b>0[1-9]\d{8}</b>)</td><td>1..1</td><td>A DN/VN/NSN phone number.</td></tr><tr><td>llId</td><td>xs:string (minLength:<b>1</b>, maxLength:<b>13</b>)</td><td>1..1</td><td>The local loop ID.</td></tr><tr><td>startPoint</td><td><a href="#">startPointRequestType</a></td><td>1..1</td><td>start point request parameters</td></tr><tr><td>address</td><td><a href="#">subjectAddressType</a></td><td>1..1</td><td>A subject's postal address.</td></tr><tr><td>bindingId</td><td>xs:string (maxLength:<b>15</b>)</td><td>1..1</td><td>The binding id (e.g. AC1.222.333.444).</td></tr></table> | Element                                                 | Type                                                             | Oc<br>c                        | Comment | dnVnNs | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 1..1 | A DN/VN/NSN phone number. | llId | xs:string (minLength: <b>1</b> , maxLength: <b>13</b> ) | 1..1 | The local loop ID. | startPoint | <a href="#">startPointRequestType</a> | 1..1 | start point request parameters | address | <a href="#">subjectAddressType</a> | 1..1 | A subject's postal address. | bindingId | xs:string (maxLength: <b>15</b> ) | 1..1 | The binding id (e.g. AC1.222.333.444). | 1..1 |  |
|                     | Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Type                                                    | Oc<br>c                                                          | Comment                        |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
|                     | dnVnNs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | xs:string (pattern: <b>0[1-9]\d{8}</b> )                | 1..1                                                             | A DN/VN/NSN phone number.      |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
|                     | llId                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | xs:string (minLength: <b>1</b> , maxLength: <b>13</b> ) | 1..1                                                             | The local loop ID.             |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
|                     | startPoint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">startPointRequestType</a>                   | 1..1                                                             | start point request parameters |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
|                     | address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">subjectAddressType</a>                      | 1..1                                                             | A subject's postal address.    |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| bindingId           | xs:string (maxLength: <b>15</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1..1                                                    | The binding id (e.g. AC1.222.333.444).                           |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |
| qualifExtRef        | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0..1                                                    | An external reference (assigned by the                           |                                |         |        |                                          |      |                           |      |                                                         |      |                    |            |                                       |      |                                |         |                                    |      |                             |           |                                   |      |                                        |      |  |

|                    |                                 |      |                                                                                                    |
|--------------------|---------------------------------|------|----------------------------------------------------------------------------------------------------|
|                    |                                 |      | ISP) for identification of the qualification request.                                              |
| customerWishDate   | xs:date                         | 0..1 | The customer wish date.                                                                            |
| synchWithVoice     | xs:boolean                      | 0..1 | Synchronize with voice.                                                                            |
| lineState          | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1052]<br>The copper line state.                                                           |
| newLoop            | xs:boolean                      | 0..1 | Qualify for a new loop.                                                                            |
| sfSlaId            | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 0282]<br>The service fulfillment SLA ID.                                                  |
| hasOnp             | xs:boolean                      | 0..1 | Has Operator Number Portability                                                                    |
| businessType       | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1301]<br>1=New;<br>2=Relocation;<br>3=ProductChange;<br>4=NewOnActive;<br>5=IspChange ... |
| returnSpeedAtNoK   | xs:boolean                      | 0..1 | If true speed profiles will be mapped also in case of Copper/Space Shortage                        |
| appointment        | <a href="#">appointmentType</a> | 0..1 | An Appointment                                                                                     |
| customerLocationId | xs:int                          | 0..1 |                                                                                                    |

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### 3.4.181 **siteDevelopment**

**Description:** site development information, quantity of basic connectivities and utilized units

**Used by:** [qualifHistoryResDataType](#), [qualifAnswer](#), [fiberQualifAnswer](#)

| Element        | Type       | Occ  | Comment                                  |
|----------------|------------|------|------------------------------------------|
| fullyDeveloped | xs:boolean | 1..1 | indicates if the site is fully developed |

|                         |        |      |                            |
|-------------------------|--------|------|----------------------------|
| nrOfBasicConnectivities | xs:int | 0..1 | Nr of basic connectivities |
| nrOfUtilisationUnits    | xs:int | 0..1 | Nr of utilisation units    |

### 3.4.182 **qualifHistoryResDataType**

**Description:** The qualification response from the history

**Used by:** [getQualifHistoryAckType](#)

| Element                  | Type                                                                                                                                                                                                                                                      | Occ     | Comment                                                                                 |     |         |    |                                 |      |                                        |      |  |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------|-----|---------|----|---------------------------------|------|----------------------------------------|------|--|
| qualifNr                 | xs:long (totalDigits: <b>10</b> )                                                                                                                                                                                                                         | 0..1    | The qualification ID.                                                                   |     |         |    |                                 |      |                                        |      |  |
| dnStnr                   | xs:string (pattern: <b>0[1-9]\d{8}</b> )                                                                                                                                                                                                                  | 0..1    | The DN "Stammnummer".                                                                   |     |         |    |                                 |      |                                        |      |  |
| lId                      | xs:string (minLength: <b>1</b> , maxLength: <b>13</b> )                                                                                                                                                                                                   | 0..1    | The local loop ID.                                                                      |     |         |    |                                 |      |                                        |      |  |
| serviceProfile           | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                           | 0..1    | [LOV-ID: 1010] A speed profile number.                                                  |     |         |    |                                 |      |                                        |      |  |
| availableServiceProfiles | <table border="1"> <thead> <tr> <th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr> </thead> <tbody> <tr> <td>nr</td><td>xs:int (totalDigits:<b>3</b>)</td><td>1..n</td><td>[LOV-ID: 1010] A speed profile number.</td></tr> </tbody> </table> | Element | Type                                                                                    | Occ | Comment | nr | xs:int (totalDigits: <b>3</b> ) | 1..n | [LOV-ID: 1010] A speed profile number. | 0..1 |  |
| Element                  | Type                                                                                                                                                                                                                                                      | Occ     | Comment                                                                                 |     |         |    |                                 |      |                                        |      |  |
| nr                       | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                           | 1..n    | [LOV-ID: 1010] A speed profile number.                                                  |     |         |    |                                 |      |                                        |      |  |
| dnType                   | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                           | 0..1    | [LOV-ID: 0109] The DN type.                                                             |     |         |    |                                 |      |                                        |      |  |
| endPoint                 | <a href="#">endPointType</a>                                                                                                                                                                                                                              | 0..1    | An end point (consisting of a DN office and a BB device location) and port information. |     |         |    |                                 |      |                                        |      |  |
| jumperAction             | xs:boolean                                                                                                                                                                                                                                                | 0..1    | Ueberfuehrungsrelevant (true/false).                                                    |     |         |    |                                 |      |                                        |      |  |
| socketId                 | xs:string (minLength: <b>13</b> , maxLength: <b>19</b> )                                                                                                                                                                                                  | 0..1    |                                                                                         |     |         |    |                                 |      |                                        |      |  |
| plugNr                   | xs:int (totalDigits: <b>3</b> )                                                                                                                                                                                                                           | 0..1    |                                                                                         |     |         |    |                                 |      |                                        |      |  |
| messageIdLqs             | xs:string (pattern: <b>[\dA-Z]{3}</b> )                                                                                                                                                                                                                   | 0..1    | An error code where '000' indicates 'OK'.                                               |     |         |    |                                 |      |                                        |      |  |
| messageIdQualif          | xs:string (pattern: <b>[\dA-Z]{3}</b> )                                                                                                                                                                                                                   | 0..1    | An error code where '000' indicates 'OK'.                                               |     |         |    |                                 |      |                                        |      |  |
| reasonComment            | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> )                                                                                                                                                                                                  | 0..1    | Some additional textual description for the reason.                                     |     |         |    |                                 |      |                                        |      |  |
| cpeInfo                  | <a href="#">cpeInfo</a>                                                                                                                                                                                                                                   | 0..     | Information about the                                                                   |     |         |    |                                 |      |                                        |      |  |

|                 |                                 |      |                                                                                                                                    |
|-----------------|---------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                 | 1    | CPE.                                                                                                                               |
| nrOfWires       | xs:int (totalDigits: <b>2</b> ) | 0..1 | The number of wires (only copper).                                                                                                 |
| technologyType  | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 9025]<br>LOV_TECHNOLOGY_TYPE : Which standard was used for bitrate calculation: 1 = VDSL2; 2 = VDSL Vectoring; 3 = G.FAST |
| vectorized      | xs:boolean                      | 0..1 | true if line is currently vectorized                                                                                               |
| siteDevelopment | <a href="#">siteDevelopment</a> | 0..1 | site development information, quantity of basic connectivities and utilized units                                                  |

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### 3.4.183 qualification

**Description:** Required if the base product is not BBCS on TDM (Contract Element 110). The qualification Nr is optional for a base product with Contract Element 110. The qualification Nr must be valid and not expired.

**Used by:** [customerOrderRequestType](#)

| Element                        | Type                              | Occ  | Comment                                                          |
|--------------------------------|-----------------------------------|------|------------------------------------------------------------------|
| qualifNr                       | xs:long (totalDigits: <b>10</b> ) | 1..1 | The qualification ID.                                            |
| qualifIndex                    | xs:long (totalDigits: <b>10</b> ) | 1..1 | The index identifying a profile within a qualification response. |
| fulfillmentTimeSlotQualifIndex | xs:long (totalDigits: <b>10</b> ) | 0..1 | The index identifying a profile within a qualification response. |

### 3.4.184 layer2Req

**Description:** A layer2 type with some required elements.

**Used by:** [createType](#)

| Element     | Type                             | Occ  | Comment                              |
|-------------|----------------------------------|------|--------------------------------------|
| bbType      | xs:int (totalDigits: <b>3</b> )  | 1..1 | [LOV-ID: 0276] The BB type.          |
| sessionType | xs:int (totalDigits: <b>3</b> )  | 1..1 | [LOV-ID: 1005] The session type.     |
| termination | xs:int (totalDigits: <b>3</b> )  | 0..1 | [LOV-ID: 1006] The termination type. |
| poolType    | xs:string (minLength: <b>1</b> ) | 0..1 |                                      |

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### 3.4.185 inhouseInstallationRequestType

**Description:** Information needed for a fiber in house installation

**Used by:** [inhouseInstallationRequest](#)

| Element            | Type                                                     | Occ  | Comment                                      |
|--------------------|----------------------------------------------------------|------|----------------------------------------------|
| ContactAddress     | <a href="#">contactAddressType</a>                       | 1..1 | Customer Contact Information                 |
| InstallationNotice | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | Comment for dispatching and service engineer |
| earliestStartDate  | xs:date                                                  | 0..1 |                                              |

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### 3.4.186 createType

**Description:** Part of a customer order. Purpose: Create a BBCS connection as a base for services.

**Extension of:** [orderRequestType](#)

| Element                    | Type                                                     | Occ  | Comment                                                                      |
|----------------------------|----------------------------------------------------------|------|------------------------------------------------------------------------------|
| contrEleId                 | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 0320] A contract element ID.                                        |
| extRef                     | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.                                   |
| customerWishDate           | xs:date                                                  | 0..1 | The customer wish date.                                                      |
| disconDate                 | xs:date                                                  | 0..1 | The date of service deactivation.                                            |
| comment                    | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                                                   |
| appointmentId              | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.                            |
| selfInstall                | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4005] Type of Self Installation.                                    |
| layer2                     | <a href="#">layer2Req</a>                                | 1..1 | A layer2 type with some required elements. Required if SESSION_TYPE is DHCP. |
| sla                        | <a href="#">sla</a>                                      | 0..1 |                                                                              |
| processWithLowPriority     | xs:boolean                                               | 0..1 | Process an order with low priority                                           |
| inhouseInstallationRequest | <a href="#">inhouseInstallationRequestType</a>           | 0..1 | Information needed for a fiber in house                                      |

|                      |                                     |                              |                                                                   |
|----------------------|-------------------------------------|------------------------------|-------------------------------------------------------------------|
|                      |                                     |                              | installation                                                      |
| predecessorInfo      | <a href="#">predecessorInfoType</a> | 0..1                         | a predecessor information                                         |
| activeConnectionInfo | Element                             | Type                         | Occ                                                               |
|                      | breakout                            | <a href="#">breakoutType</a> | 0..1                                                              |
|                      |                                     |                              | Comment                                                           |
|                      |                                     |                              | Breakout cable The name of the breakout cable Number of the Fiber |
|                      |                                     |                              | 0..1                                                              |
|                      |                                     |                              | used for product change ALO -> BBCS-F (Connection to disconnect)  |

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### 3.4.187 disconnectType

**Description:** Part of a customer order. Purpose: Disconnect all services and the base product.

**Extension of:** [orderRequestType](#)

| Element                | Type                                   | Occ  | Comment                                    |
|------------------------|----------------------------------------|------|--------------------------------------------|
| extRef                 | xs:string (minLength:1, maxLength:80)  | 0..1 | An external reference provided by the ISP. |
| customerWishDate       | xs:date                                | 0..1 | The customer wish date.                    |
| comment                | xs:string (minLength:1, maxLength:256) | 0..1 | A comment.                                 |
| processWithLowPriority | xs:boolean                             | 0..1 | Process an order with low priority         |

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### 3.4.188 layer2

**Description:** Layer2 information.

**Used by:** [modifyPendingBaseOrdType](#), [modifyType](#), [ispChangeType](#)

| Element     | Type                    | Occ  | Comment                              |
|-------------|-------------------------|------|--------------------------------------|
| bbType      | xs:int (totalDigits:3)  | 0..1 | [LOV-ID: 0276] The BB type.          |
| sessionType | xs:int (totalDigits:3)  | 0..1 | [LOV-ID: 1005] The session type.     |
| termination | xs:int (totalDigits:3)  | 0..1 | [LOV-ID: 1006] The termination type. |
| poolType    | xs:string (minLength:1) | 0..1 |                                      |

### 3.4.189 modifyPendingBaseOrdType

**Description:** Part of a customer order. Purpose: Modify a pending BBCS base product order.

**Extension of:** [orderRequestType](#)

| Element | Type                                  | Occ  | Comment                                    |
|---------|---------------------------------------|------|--------------------------------------------|
| extRef  | xs:string (minLength:1, maxLength:80) | 0..1 | An external reference provided by the ISP. |

|                            |                                                          |      |                                                       |
|----------------------------|----------------------------------------------------------|------|-------------------------------------------------------|
| customerWishDate           | xs:date                                                  | 0..1 | The customer wish date.                               |
| disconDate                 | xs:date                                                  | 0..1 | The date of service deactivation.                     |
| comment                    | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                            |
| appointmentId              | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.     |
| selfInstall                | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4005] Type of Self Installation.             |
| layer2                     | <a href="#">layer2</a>                                   | 0..1 | Layer2 information. Required if SESSION_TYPE is DHCP. |
| sla                        | <a href="#">sla</a>                                      | 0..1 |                                                       |
| processWithLowPriority     | xs:boolean                                               | 0..1 | Process an order with low priority                    |
| predecessorInfo            | <a href="#">predecessorInfoType</a>                      | 0..1 | a predecessor information                             |
| inhouseInstallationRequest | <a href="#">inhouseInstallationRequestType</a>           | 0..1 | Information needed for a fiber in house installation  |

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### 3.4.190 **modifyType**

**Description:** Part of a customer order. Purpose: Modify an installed BBCS base product.

**Extension of:** [orderRequestType](#)

| Element                | Type                                                     | Occ  | Comment                                               |
|------------------------|----------------------------------------------------------|------|-------------------------------------------------------|
| extRef                 | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.            |
| customerWishDate       | xs:date                                                  | 0..1 | The customer wish date.                               |
| disconDate             | xs:date                                                  | 0..1 | The date of service deactivation.                     |
| comment                | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                            |
| appointmentId          | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.     |
| selfInstall            | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4005] Type of Self Installation.             |
| layer2                 | <a href="#">layer2</a>                                   | 0..1 | Layer2 information. Required if SESSION_TYPE is DHCP. |
| sla                    | <a href="#">sla</a>                                      | 0..1 |                                                       |
| processWithLowPriority | xs:boolean                                               | 0..1 | Process an order with low priority                    |
| predecessorInfo        | <a href="#">predecessorInfoType</a>                      | 0..1 | a predecessor information                             |

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### 3.4.191 **coCreateIntType**

**Description:** Part of a customer order. Purpose: Create an onsite installation ticket as part of the customer order. Note: The whole customer order will be aborted if a CO\_CREATE\_INT detail order is submitted without a preceding order for a BBCS service (within the same customer order).

**Extension of:** [orderRequestType](#)

| Element                   | Type                                                     | Occ  | Comment                                                                                                      |
|---------------------------|----------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
| onsiteSupport             | xs:int (totalDigits: <b>3</b> )                          | 0..1 |                                                                                                              |
| ispItRef                  | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | An external reference (an ID assigned by the ISP) identifying the installation ticket                        |
| endUser                   | <a href="#">endUser</a>                                  | 1..1 | Contact information on the end user (name, phone numbers, etc)                                               |
| holdFlag                  | xs:boolean                                               | 0..1 | If set to true the Installation Ticket is hold until Hardware Delivery Date.                                 |
| hwDeliveryState           | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4007] Hardware Delivery State.                                                                      |
| hwDeliveryDate            | xs:date                                                  | 0..1 | Hardware Delivery Date.                                                                                      |
| hwDeliveryLocation        | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Hardware delivery location                                                                                   |
| hwType                    | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | CPE Description                                                                                              |
| hwExtRefReq               | xs:string (minLength: <b>1</b> , maxLength: <b>128</b> ) | 0..1 | Additional Information if ONSITE_SUPPORT is not set to 1="None": CPE SAP Order-Number of equipment requested |
| installDateTimeRange      | <a href="#">dateTimeRangeType</a>                        | 0..1 | Installation frame.                                                                                          |
| installationType          | xs:string (minLength: <b>1</b> , maxLength: <b>30</b> )  | 0..1 | Additional installation description.                                                                         |
| additionalInstallationReq | xs:int (totalDigits: <b>3</b> )                          | 0..n | [LOV-ID: 4004] The requested additional installation support.                                                |
| appointmentId             | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.                                                            |

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### 3.4.192 ispChangeType

**Description:** Part of a customer order. Purpose: Let a recipient ISP order the take over of a BBCS service currently operated by a donor ISP. Note: The ISP\_CHANGE detailorder is not sufficient for completing the ISP change operation. At least 1 SRV\_ADD must follow within the context of the same logical customer order.

**Extension of:** [orderRequestType](#)

| Element | Type | Occ | Comment |
|---------|------|-----|---------|
|---------|------|-----|---------|

|                        |                                                          |      |                                                       |
|------------------------|----------------------------------------------------------|------|-------------------------------------------------------|
| extRef                 | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.            |
| customerWishDate       | xs:date                                                  | 0..1 | The customer wish date.                               |
| comment                | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                            |
| appointmentId          | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.     |
| selfInstall            | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 4005] Type of Self Installation.             |
| layer2                 | <a href="#">layer2</a>                                   | 0..1 | Layer2 information. Required if SESSION_TYPE is DHCP. |
| sla                    | <a href="#">sla</a>                                      | 0..1 |                                                       |
| processWithLowPriority | xs:boolean                                               | 0..1 | Process an order with low priority                    |
| predecessorInfo        | <a href="#">predecessorInfoType</a>                      | 0..1 | a predecessor information                             |
| onpNumber              | xs:string (maxLength: <b>32</b> )                        | 0..1 | ONP Nummer (I-NET order)                              |

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### 3.4.193 **addType**

**Description:** Part of a customer order. Purpose: Add a service to an existing BBCS connection.

**Extension of:** [orderRequestType](#)

| Element                | Type                                                     | Occ  | Comment                                            |
|------------------------|----------------------------------------------------------|------|----------------------------------------------------|
| contrEleId             | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 0320] A contract element ID.              |
| extRef                 | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.         |
| customerWishDate       | xs:date                                                  | 0..1 | The customer wish date.                            |
| disconDate             | xs:date                                                  | 0..1 | The date of service deactivation.                  |
| comment                | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                         |
| speedProfileNrReq      | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 1010] The requested speed profile number. |
| sla                    | <a href="#">sla</a>                                      | 0..1 |                                                    |
| processWithLowPriority | xs:boolean                                               | 0..1 | Process an order with low priority                 |
| appointmentId          | xs:long (totalDigits: <b>10</b> )                        | 0..1 | Appointment ID referencing an existing agreement.  |
| classOfService         | xs:int (totalDigits: <b>3</b> )                          | 0..1 | [LOV-ID: 1108] The Class of Service.               |

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### 3.4.194 **changeType**

**Description:** Part of a customer order. Purpose: Modify an existing service.

**Extension of:** [orderRequestType](#)

| Element                | Type                                                           | Occ  | Comment                                                                                                                          |
|------------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|
| contrEleId             | xs:int (totalDigits: <b>3</b> )                                | 1..1 | [LOV-ID: 0320] A contract element ID.                                                                                            |
| extRef                 | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.                                                                                       |
| customerWishDate       | xs:date                                                        | 0..1 | The customer wish date.                                                                                                          |
| disconDate             | xs:date                                                        | 0..1 | The date of service deactivation.                                                                                                |
| comment                | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>256</b> ) | 0..1 | A comment.                                                                                                                       |
| speedProfileNrReq      | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 1010] The requested speed profile number.                                                                               |
| sla                    | <a href="#">sla</a>                                            | 0..1 |                                                                                                                                  |
| processWithLowPriority | xs:boolean                                                     | 0..1 | Process an order with low priority                                                                                               |
| appointmentId          | xs:long<br>(totalDigits: <b>10</b> )                           | 0..1 | Appointment ID referencing an existing agreement.                                                                                |
| classOfService         | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 1108] The Class of Service.                                                                                             |
| fairUseSpeedProfileNr  | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 1109] The requested fair use profile Nr (e.g. 0 := "Restore original Service Speed Profile" 1, := "600 down / 100 up"). |

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### 3.4.195 **modifyPendingSrvOrdType**

**Description:** Part of a customer order. Purpose: Change an existing service related order.

**Extension of:** [orderRequestType](#)

| Element                | Type                                                           | Occ  | Comment                                            |
|------------------------|----------------------------------------------------------------|------|----------------------------------------------------|
| contrEleId             | xs:int (totalDigits: <b>3</b> )                                | 1..1 | [LOV-ID: 0320] A contract element ID.              |
| extRef                 | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP.         |
| customerWishDate       | xs:date                                                        | 0..1 | The customer wish date.                            |
| disconDate             | xs:date                                                        | 0..1 | The date of service deactivation.                  |
| comment                | xs:string<br>(minLength: <b>1</b> ,<br>maxLength: <b>256</b> ) | 0..1 | A comment.                                         |
| speedProfileNrReq      | xs:int (totalDigits: <b>3</b> )                                | 0..1 | [LOV-ID: 1010] The requested speed profile number. |
| sla                    | <a href="#">sla</a>                                            | 0..1 |                                                    |
| processWithLowPriority | xs:boolean                                                     | 0..1 | Process an order with low priority                 |
| appointmentId          | xs:long<br>(totalDigits: <b>10</b> )                           | 0..1 | Appointment ID referencing an existing agreement.  |

|                       |                                 |      |                                                                                                                                  |
|-----------------------|---------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|
| classOfService        | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1108] The Class of Service.                                                                                             |
| fairUseSpeedProfileNr | xs:int (totalDigits: <b>3</b> ) | 0..1 | [LOV-ID: 1109] The requested fair use profile Nr (e.g. 0 := "Restore original Service Speed Profile" 1, := "600 down / 100 up"). |

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### 3.4.196 **reduceType**

**Description:** Part of a customer order. Purpose: Remove an installed service.

**Extension of:** [orderRequestType](#)

| Element                | Type                                                     | Occ  | Comment                                    |
|------------------------|----------------------------------------------------------|------|--------------------------------------------|
| contrEleId             | xs:int (totalDigits: <b>3</b> )                          | 1..1 | [LOV-ID: 0320] A contract element ID.      |
| extRef                 | xs:string (minLength: <b>1</b> , maxLength: <b>80</b> )  | 0..1 | An external reference provided by the ISP. |
| customerWishDate       | xs:date                                                  | 0..1 | The customer wish date.                    |
| comment                | xs:string (minLength: <b>1</b> , maxLength: <b>256</b> ) | 0..1 | A comment.                                 |
| processWithLowPriority | xs:boolean                                               | 0..1 | Process an order with low priority         |

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### 3.4.197 **orderRequestType**

**Description:** An abstract order request as part of a customer order request.

**Used by:** [order](#)

**Extended by:** [createType](#), [disconnectType](#), [modifyPendingBaseOrdType](#), [modifyType](#), [coCreateIntType](#), [ispChangeType](#), [addType](#), [changeType](#), [modifyPendingSrvOrdType](#), [reduceType](#)

| Attribute     | Type      | Use      | Comment                                                                          |
|---------------|-----------|----------|----------------------------------------------------------------------------------|
| correlationId | xs:string | optional | A unique ID to correlate request and answer(s) within a (asynch.) batch process. |

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### 3.4.198 **endUser**

**Description:** Contact information on the end user (name, phone numbers, etc)

**Used by:** [createInstallationTicketRequestType](#), [modifyPendingInstallationTicketRequestType](#), [coCreateIntType](#), [ticket](#)

| ElementType | Occ                                                     | Comment                                              |
|-------------|---------------------------------------------------------|------------------------------------------------------|
| name        | xs:string (minLength: <b>1</b> , maxLength: <b>60</b> ) | 0..1 A name.                                         |
| phone       | xs:string (pattern:(\+)?([0-9]){7,15})                  | 1..1 A normalized phone number (e.g. "+41312223344") |

|         |                                                              |      |  |
|---------|--------------------------------------------------------------|------|--|
| comment | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>2048</b> ) | 0..1 |  |
|---------|--------------------------------------------------------------|------|--|

### 3.4.199 vnRecord

**Description:** A business line identity (VN) (= Verrechnungsnummer) record.

**Used by:** [getBusinessLinesAckType](#)

| Element    | Type                               | Occ  | Comment                                           |
|------------|------------------------------------|------|---------------------------------------------------|
| vn         | xs:string                          | 1..1 | VN.                                               |
| cableBox   | <a href="#">cableBox</a>           | 0..1 | The cable box (aka. "Ueberfuehrungspunkt", "UP"). |
| bbAssigned | xs:boolean                         | 0..1 | BB already assigned: true="Yes", false="No".      |
| bbInfo     | xs:string (maxLength: <b>256</b> ) | 0..1 | Additional information.                           |

### 3.4.200 dslam

**Used by:** [createChangeTicketRequestType](#),  
[getChangeTicketOverviewResponseType](#), [changeTicketType](#)

| Element   | Type                              | Occ  | Comment                                      |
|-----------|-----------------------------------|------|----------------------------------------------|
| dslamName | xs:string (maxLength: <b>30</b> ) | 1..1 | name of the DSLAM (e.g.: ipc-aar730-s-vd-05) |
| dslamPort | xs:string (maxLength: <b>20</b> ) | 1..1 | DSLAM Port notation (e.g.: 1/1/2/12)         |

### 3.4.201 customerContactType

**Used by:** [customerContact1](#), [customerContact2](#)

| Element        | Type                                                                 | Occ  | Comment                                                                 |
|----------------|----------------------------------------------------------------------|------|-------------------------------------------------------------------------|
| greetingCode   | xs:int (totalDigits: <b>3</b> )                                      | 0..1 | [LOV-ID: 9011]<br>LOV_GREETING_CODE Anrede (Mr.,Ms., Firm, Unknown ...) |
| firstName      | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )           | 0..1 | A subject's first name.                                                 |
| lastName       | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )           | 1..1 | A subject's last name.                                                  |
| street         | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )           | 0..1 | The street name of an address.                                          |
| houseNr        | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>12</b> )           | 0..1 | The house number of an address.                                         |
| building       | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )           | 0..1 | The building information of an address.                                 |
| streetAppendix | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>30</b> )           | 0..1 | An additional street information (for instance: Chalet Sonneblick )     |
| zip            | xs:int (minInclusive: <b>1000</b> ,<br>maxInclusive: <b>999999</b> ) | 0..1 | The zip of an address.                                                  |
| city           | xs:string (minLength: <b>1</b> ,<br>maxLength: <b>25</b> )           | 0..1 | The city of an address.                                                 |
| eMail          | xs:string (minLength: <b>5</b> ,<br>maxLength: <b>100</b> )          | 0..1 | An email address                                                        |

|                      |                                           |      |                                                                                                         |
|----------------------|-------------------------------------------|------|---------------------------------------------------------------------------------------------------------|
| mobilePhone          | xs:string<br>(pattern:(\+)?([0-9]){7,15}) | 0..1 | Mobile phone number                                                                                     |
| language             | xs:string                                 | 1..1 | ISO 639-1 (Codes for the representation of names of languages) (de = german; fr = french; it = italian) |
| communicationChannel | xs:int (totalDigits:3)                    | 1..1 | [LOV-ID: 3020] The way the customer should be notified                                                  |

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### 3.4.202 dnNsnRangeType

**Used by:** [dnNsnRange](#)

| Element | Type                            | Occ  | Comment                                      |
|---------|---------------------------------|------|----------------------------------------------|
| from    | xs:string (pattern:0[1-9]\d{8}) | 1..1 | A nomalized phone number (e.g. "0312223344") |
| to      | xs:string (pattern:0[1-9]\d{8}) | 0..1 | A nomalized phone number (e.g. "0312223344") |

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### 3.4.203 changeTicketType

**Used by:** [changeTicket](#), [historyItem](#)

| Element            | Type                                                                                                                                                                                                                                                                                                                        | Occ     | Comment                                                  |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------|-----|---------|-------|---------------------------------|------|------------------------|-------|-----------------------|------|--|------|--|
| ispId              | xs:int (totalDigits:6)                                                                                                                                                                                                                                                                                                      | 1..1    | An ISP ID.                                               |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| changeTicketId     | xs:decimal (totalDigits:10)                                                                                                                                                                                                                                                                                                 | 1..1    | Change Ticket ID assigned by WSG                         |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| changeTicketStatus | xs:int (totalDigits:3)                                                                                                                                                                                                                                                                                                      | 1..1    | [LOV-ID: 3021 Change Ticket Status                       |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| statusReason       | xs:int (totalDigits:3)                                                                                                                                                                                                                                                                                                      | 0..1    | [LOV-ID: 3022] A Status Reason set by the backend system |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| extRef             | xs:string (minLength:1, maxLength:80)                                                                                                                                                                                                                                                                                       | 0..1    | An external reference provided by the ISP.               |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| - <b>choice:</b>   | <table border="1"> <thead> <tr> <th>Element</th><th>Type</th><th>Occ</th><th>Comment</th></tr> </thead> <tbody> <tr> <td>dnNsn</td><td>xs:string (pattern:0[1-9]\d{8})</td><td>1..1</td><td>A DN/NSN phone number.</td></tr> <tr> <td>dslam</td><td><a href="#">dslam</a></td><td>1..1</td><td></td></tr> </tbody> </table> | Element | Type                                                     | Occ | Comment | dnNsn | xs:string (pattern:0[1-9]\d{8}) | 1..1 | A DN/NSN phone number. | dslam | <a href="#">dslam</a> | 1..1 |  | 1..1 |  |
| Element            | Type                                                                                                                                                                                                                                                                                                                        | Occ     | Comment                                                  |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| dnNsn              | xs:string (pattern:0[1-9]\d{8})                                                                                                                                                                                                                                                                                             | 1..1    | A DN/NSN phone number.                                   |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| dslam              | <a href="#">dslam</a>                                                                                                                                                                                                                                                                                                       | 1..1    |                                                          |     |         |       |                                 |      |                        |       |                       |      |  |      |  |
| exchangeDate       | xs:date                                                                                                                                                                                                                                                                                                                     | 1..1    | designated date for the exchange                         |     |         |       |                                 |      |                        |       |                       |      |  |      |  |

|                          |                                     |      |                                                                                                                                                                   |
|--------------------------|-------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| exchangeType             | xs:int (totalDigits: <b>3</b> )     | 1..1 | [LOV-ID: 3020] What must be exchanged (1 = CPE Hardware: 2 = CPE Firmware)                                                                                        |
| reminderProcess          | xs:int (totalDigits: <b>3</b> )     | 1..1 | [LOV-ID: 9012] LOV_REMINDER_PROCESS (1 = first reminder at exchange date, second reminder after 5 days ; 2 = first reminder at exchange date, no second reminder) |
| customerContact1         | <a href="#">customerContactType</a> | 1..1 |                                                                                                                                                                   |
| customerContact2         | <a href="#">customerContactType</a> | 0..1 | Customer Contact 2                                                                                                                                                |
| creationDateTime         | xs:dateTime                         | 1..1 |                                                                                                                                                                   |
| lastModificationDateTime | xs:dateTime                         | 1..1 |                                                                                                                                                                   |

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### 3.4.204 **workLogType**

**Used by:** [getChangeTicketDetailResponseType](#)

| Element         | Type                                                     | Occ  | Comment                                  |
|-----------------|----------------------------------------------------------|------|------------------------------------------|
| workLogDateTime | xs:dateTime                                              | 1..1 |                                          |
| workLogSummary  | xs:string (minLength: <b>1</b> , maxLength: <b>100</b> ) | 1..1 | A summary of the work log entry.         |
| workLogNotes    | xs:string (maxLength: <b>32768</b> )                     | 0..1 | An additional comprehensive description. |

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### 3.4.205 **predecessorEntityType**

**Description:** An predecessor Entity

**Used by:** [predecessorEntity](#)

**Extension of:** [predecessorEntitySmallType](#)

| Element              | Type                                                    | Occ  | Comment                                                          |
|----------------------|---------------------------------------------------------|------|------------------------------------------------------------------|
| predecessorEntityId  | xs:long                                                 | 1..1 | The predecessor entity id.                                       |
| lastModifiedDateTime | xs:dateTime                                             | 1..1 | The last modification date and time of the corresponding entity. |
| lastModifiedUsername | xs:string (minLength: <b>1</b> , maxLength: <b>60</b> ) | 1..1 | The username of the modifying user.                              |
| entryDateTime        | xs:dateTime                                             | 1..1 | The entry dateTime.                                              |
| entryUserName        | xs:string (minLength: <b>1</b> , maxLength: <b>60</b> ) | 1..1 | The username who added the 1st                                   |

|  |               |  |        |
|--|---------------|--|--------|
|  | maxLength:60) |  | entry. |
|--|---------------|--|--------|

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### 3.4.206 predecessorEntitySmallType

**Used by:** [predecessorEntities](#)

**Extended by:** [predecessorEntityType](#)

| Element            | Type                                     | Occ  | Comment                                                 |
|--------------------|------------------------------------------|------|---------------------------------------------------------|
| dnVnNsn            | xs:string (pattern: <b>0[1-9]\d{8}</b> ) | 0..1 | A DN/VN/NSN phone number.                               |
| predecessorName    | <a href="#">subjectAddressNameType</a>   | 0..1 |                                                         |
| predecessorAddress | <a href="#">subjectAddressType</a>       | 1..1 | The address of the predecessor                          |
| locationId         | xs:int                                   | 0..1 | A location id (GAIA ID)                                 |
| lId                | xs:string (minLength:1, maxLength:13)    | 0..1 | The local loop ID.                                      |
| lastModifiedDate   | xs:date                                  | 0..1 | The last modification date of the corresponding entity. |

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### 3.4.207 predecessorAddressType

**Used by:** [predecessorAddresses](#)

| Element            | Type                               | Occ  | Comment                        |
|--------------------|------------------------------------|------|--------------------------------|
| predecessorAddress | <a href="#">subjectAddressType</a> | 1..1 | The address of the predecessor |
| locationId         | xs:int                             | 0..1 | A location id (GAIA ID)        |

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### 3.4.208 lookUpPredecessorEntitiesType

**Description:** the response for the lookup entities call

**Used by:** [lookUpPredecessorEntities](#)

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## 4 List of Values (LOVs)

See document [6] for a list of LOVs. The Id's are referenced in Annex of the WSDL definition.

Sample:

"[LOV-ID: 4004] The requested additional installation support."

## 5 TDM Message types

### 5.1 Principles

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3200.01:</b>                 | Is the Completion of the deactivation part of a Voice transaction.                                                                                                                                                                                                                                                                                                                                                     |
| <b>3200.02:</b>                 | Is the Completion of the activation part of a Voice transaction.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Copying enabled<br/>“Y”:</b> | Used in the following Message-Types: For Message Type 03 (Umzug), 04 Umzug CH-weit), 17 (Accesstype-change) and 16 (Change of number. Note: is always Yes for this message type): On request of an ISP WSG copies a BB-Service from the “old” location to the new location if possible. The ISP will be notified by Voice-Messages.                                                                                    |
| <b>Copying enabled<br/>“N”:</b> | Used in the following Message-Types: For Message Type 03 (Umzug), 04 Umzug CH-weit), 17 (Accesstype-change): On request of an ISP WSG does not copy a BB-Service from the “old” location to the new location if possible. Only the disconnection is done. The ISP will be notified by Voice-Messages about the disconnection. The ISP may create the new BB-Service on his own at the “new” location or constellation. |
| <b>Is activation “Y”:</b>       | Indicates that the order is an activation.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Is activation “N”:</b>       | Indicates that the order is a deactivation.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>PONR:</b>                    | <b>Point Of No Return.</b> From this point onwards a cancellation / annulment of the order is no longer possible.                                                                                                                                                                                                                                                                                                      |

A TDM Message (Time-Division-Multiplexing Telephone technique, formerly called “Voice Message”) is uniquely identified by a type and a reference from the producer system. The following list shows the available types and reference codes.

| Reference | Description |
|-----------|-------------|
| APVWSG    |             |

## 5.2 GV01 / Neuanschluss

| Type | Process-Flow Nr. | Description |
|------|------------------|-------------|
|------|------------------|-------------|

| GV01 /<br>Neuanschluss<br>Summary | Steps             | copying enabled                                                                                                                                                                | is activation |
|-----------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                   | 3010.11           | -                                                                                                                                                                              | Y             |
|                                   | 3091/3071/3061.09 | -                                                                                                                                                                              | Y             |
|                                   | 3091/3071/3061.09 | -                                                                                                                                                                              | Y             |
|                                   | 3190.11           | -                                                                                                                                                                              | Y             |
|                                   | 5240.05           | -                                                                                                                                                                              | Y             |
|                                   | 3200.02           | -                                                                                                                                                                              | Y             |
| GV 01 / Neuanschluss              | 3010.11           | Neuanschluss: Einschaltbegehren                                                                                                                                                |               |
|                                   |                   | Voice Message Text:<br><i>New Voice Line was assigned for DN: &lt;DN1&gt;</i>                                                                                                  |               |
|                                   | 3091.09           | Neuanschluss: 3091.09 Schaltmeldung WSG/Einschaltung terminiert                                                                                                                |               |
|                                   | 3071.09           | 3071.09 Schaltmeldung WSG/Schalt. durch Servispartner                                                                                                                          |               |
|                                   | 3061.09           | 3061.09 Schaltmeldung WSG/Schaltung durch Kunde<br><b>PONR</b> (Point of no Return)                                                                                            |               |
|                                   |                   | Voice Message Text:<br><i>PONR for DN: &lt;DN1&gt;. For this Voice-Line with synchronised DSL order the activation process has started. Cancellation not possible anymore.</i> |               |
|                                   | 3091.10           | Neuanschluss: 3091.10 Schaltbestätigung/Einschaltung terminiert                                                                                                                |               |
|                                   | 3071.10           | 3071.10 Schaltbestätigung/Schalt. durch Servispartner                                                                                                                          |               |
|                                   | 3061.10           | 3061.10 Schaltbestätigung/Schaltung durch Kunde                                                                                                                                |               |
|                                   |                   | Voice Message Text:<br><i>Physical activation for DN: &lt;DN1&gt; confirmed. Physical activation of DSL is successful done. Waiting for configuration of DSL.</i>              |               |
|                                   | 3190.11           | Neuanschluss: Annullation der Einschaltung                                                                                                                                     |               |
|                                   |                   | Voice Message Text:<br><i>Cancellation of Voice-Order for DN: &lt;DN1&gt;. A pending synchronised BB-Order has to wait until a new Voice-Order is submitted</i>                |               |
|                                   | 5240.05           | Neuanschluss: Terminverschiebung der Einschaltung                                                                                                                              |               |
|                                   |                   | Voice Message Text:<br><i>Change of Activation date to &lt;VALID_ACTI_DATE&gt;</i>                                                                                             |               |
|                                   | 3200.02           | Neuanschluss: Abschluss der Einschaltung                                                                                                                                       |               |
|                                   |                   | Voice Message Text:<br><i>Closure of Voice-transaction. DSL will be configured</i>                                                                                             |               |

### 5.3 GV14 / Kündigung

| GV14 / Kündigung<br>Summary | Steps           | copying enabled              | is activation |
|-----------------------------|-----------------|------------------------------|---------------|
|                             | 3130.06         | -                            | N             |
|                             | 3141.07/3151.07 | -                            | N             |
|                             | 3141.08/3151.08 | -                            | N             |
|                             | 3190.11         | -                            | N             |
|                             | 5240.05         | -                            | N             |
|                             | 3200.01         | -                            | N             |
| D i s c o                   | 3130.06         | Kündigung: Ausschaltbegehren |               |

|  |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                    | Voice Message Text:<br><i>Disconnect Voice: Request for voice disconnection DN: &lt;DN1&gt;. An existing DSL will automatically be disconnected.</i>                                                                                                                                                                                                                                                                                 |
|  | 3141.07<br>3151.07 | Kündigung:<br>3141.07 Ausschaltemeldung WSG/Ausschaltung durch Kunde/Servicepartner<br>3151.07 Ausschaltemeldung WSG/Ausschaltung terminiert<br><b>PONR</b> (Point of no Return)<br>Der Ausschaltungsprozess für die Voice-Kündigung wurde gestartet.<br>Voice Message Text:<br><i>Disconnection PONR for DN: &lt;DN1&gt;. For this Voice-Line with DSL the deactivation process has started. Cancellation not possible anymore.</i> |
|  | 3141.08<br>3151.08 | Kündigung:<br>3141.08 Ausschalbestätigung / Ausschaltung durch Kunde/Servicepartner<br>3151.08 Ausschalbestätigung / Ausschaltung terminiert<br>Bestätigung der physikalischen Ausschaltung des Ports.<br>Voice Message Text:<br><i>Physical deactivation for DN &lt;DN1&gt; confirmed. Physical deactivation of DSL is successful done. Waiting for deactivation of DSL.</i>                                                        |
|  | 3190.11            | Kündigung: Annullation der Ausschaltung<br>Voice Message Text:<br><i>Request of Disconnection: Cancellation of Voice-Order for DN: &lt;DN1&gt;. A pending synchronised BB-Order has to wait until a new Voice-Order is submitted</i>                                                                                                                                                                                                 |
|  | 5240.05            | Kündigung: Terminverschiebung der Ausschaltung<br>Voice Message Text:<br><i>Request for Disconnection: Change of Activation date to &lt;VALID_ACTI_DATE&gt;</i>                                                                                                                                                                                                                                                                      |
|  | 3200.01            | Kündigung: Abschluss der Ausschaltung<br>Voice Message Text:<br><i>Request for disconnection: Closure of Voice-transaction. DSL will be disconnected.</i>                                                                                                                                                                                                                                                                            |

### 5.4 GV16 / Nummerwechsel

| GV16 / Nummerwechsel<br>Summary | Steps                         | copying enabled                                                                                                                                                                                                                                                                                                                                                   | is activation |
|---------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                 | 3010.11                       | Y                                                                                                                                                                                                                                                                                                                                                                 | Y             |
|                                 | 3091/3071/3061.09             | Y                                                                                                                                                                                                                                                                                                                                                                 | Y             |
|                                 | 3091/3171/3061.10             | Y                                                                                                                                                                                                                                                                                                                                                                 | Y             |
|                                 | 3190.11                       | Y                                                                                                                                                                                                                                                                                                                                                                 | Y             |
|                                 | 3200.02                       | Y                                                                                                                                                                                                                                                                                                                                                                 | Y             |
|                                 | 3130.06                       | N                                                                                                                                                                                                                                                                                                                                                                 | N             |
|                                 | 3151.07                       | N                                                                                                                                                                                                                                                                                                                                                                 | N             |
|                                 | 3151.08                       | N                                                                                                                                                                                                                                                                                                                                                                 | N             |
|                                 | 3190.11                       | N                                                                                                                                                                                                                                                                                                                                                                 | N             |
|                                 | 3200.01                       | N                                                                                                                                                                                                                                                                                                                                                                 | N             |
| 16: Nummernwechsel              | 3010.11                       | Nummernwechsel: Einschaltbegehren                                                                                                                                                                                                                                                                                                                                 |               |
|                                 |                               | Voice Message Text:<br><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt; at &lt;VALID_ACTI_DATE&gt;: Voice Line for new DN &lt;DN2&gt; was assigned with planned activation date &lt;VALID_ACTI_DATE&gt;. DN old &lt;DN1&gt;. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i> |               |
|                                 | 3091.09<br>3071.09<br>3061.09 | Nummernwechsel:<br>3091.09 Schaltmeldung WSG/Einschaltung terminiert<br>3071.09 Schaltmeldung WSG/Schaltung durch Servispartner<br>3061.09 Schaltmeldung WSG/Schaltung durch Kunde<br><b>PONR</b> (Point of no Return)                                                                                                                                            |               |
|                                 |                               | Voice Message Text:<br><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt; at &lt;VALID_ACTI_DATE&gt;: PONR for DN new &lt;DN2&gt;. For this Voice-Line the activation process was started. Cancellation not possible anymore. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i>  |               |
|                                 |                               | Nummernwechsel:<br>3091.10 Schaltbestätigung/Einschaltung terminiert<br>3071.10 Schaltbestätigung/Schaltung durch Servispartner<br>3061.10 Schaltbestätigung/Schaltung durch Kunde                                                                                                                                                                                |               |
|                                 | 3091.10<br>3071.10<br>3061.10 | Voice Message Text:<br><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt; at &lt;VALID_ACTI_DATE&gt;: Physical activation for DN new &lt;DN2&gt; confirmed. Physical activation of DSL is successful done. Waiting for automatic configuration of DSL</i>                                                                                             |               |
|                                 |                               | Nummernwechsel: Annullation der Einschaltung                                                                                                                                                                                                                                                                                                                      |               |
|                                 | 3190.11                       |                                                                                                                                                                                                                                                                                                                                                                   |               |

|  |         |                                                                                                                                                                                                                                                                                                                            |
|--|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |         | <p>Voice Message Text:</p> <p><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt;:<br/>Cancellation of Voice-Order for DN new &lt;DN2&gt;. The automatically created pending synchronised BB-Order will also be cancelled and will only be set up again after a new Voice-Activation Order is submitted</i></p> |
|  | 3200.02 | <p>Nummernwechsel: Abschluss der Einschaltung</p> <p>Voice Message Text:</p> <p><i>Closure of Voice-Activation transaction. DSL will be configured. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i></p>                                             |

|  |         |                                                                                                                                                                                                                                                                                                                                                                                           |
|--|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 3130.06 | <p>Nummernwechsel: Ausschaltbegehren</p> <p>Voice Message Text:</p> <p><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt;:<br/>Request for disconnection of Voice service. Please check also the automatically created Broadband Disconnect order</i></p>                                                                                                                     |
|  | 3151.07 | <p>Nummernwechsel:</p> <p>3151.07      Ausschaltmeldung WSG / Ausschaltung terminiert<br/><b>PONR</b> (Point of no Return)</p> <p>Voice Message Text:</p> <p><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt;:<br/>Disconnection PONR for DN old &lt;DN1&gt;. For this Voice-Line with DSL the deactivation process has started. Cancellation not possible anymore.</i></p> |
|  | 3151.08 | <p>Nummernwechsel:</p> <p>3151.08      Ausschaltbestätigung / Ausschaltung terminiert</p> <p>Voice Message Text:</p> <p><i>Change of telephone number: fom &lt;DN1&gt; to &lt;DN2&gt;:<br/>Physical deactivation for DN old &lt;DN1&gt; confirmed.<br/>Physical deactivation of DSL is successful done. Waiting for deactivation of DSL.</i></p>                                          |
|  | 3190.11 | <p>Nummernwechsel: Annullation der Ausschaltung</p> <p>Voice Message Text:</p> <p><i>Change of telephone number: from &lt;DN1&gt; to &lt;DN2&gt;:<br/>Cancellation of Voice-Disconnect Order for DN old &lt;DN1&gt;. The automatically created synchronised BB-Disconnect Order will be cancelled and only be set up after a new Voice-Disconnect Order is submitted</i></p>              |

|  |         |                                                                                                                        |
|--|---------|------------------------------------------------------------------------------------------------------------------------|
|  | 3200.01 | Nummernwechsel: Abschluss der Ausschaltung                                                                             |
|  |         | Voice Message Text:<br><i>Closure of Voice-Disconnect transaction for DN old &lt;DN1&gt;. DSL will be disconnected</i> |

### 5.5 GV25 / Sistierung Aktivierung

| GV25 /<br>Sistierung<br>Aktivierung | Summary | Steps                                                                                                                                                                                                                                                                                                                                                                                                                                                   | copying enabled | is activation |
|-------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|
|                                     |         | 3171.05<br>3171.06<br>3200.01                                                                                                                                                                                                                                                                                                                                                                                                                           | -<br>-<br>-     | N<br>N<br>N   |
| 25.1: Sistierung aktiv              | 3171.05 | Sistierungs aktiv: Meldung des Prozess-starts für die Sistierung.                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |
|                                     |         | Voice Message Text:<br><i>Temporary disconnection of voice and Broadband: Due to temporary disconnection of the voice connection, the subscriber with the telephone number &lt;DN1&gt; will be disconnected at &lt;VALID_DISCON_DATE&gt;. Swisscom will inform the customer for the temporary Voice-disconnect by letter. Please inform the Customer about the Broadband disconnection and check the Broadband Disconnect Order for DN &lt;DN1&gt;.</i> |                 |               |
|                                     | 3171.06 | Sistierungs aktiv: Meldung des Beginns der Sistierung der Voice-Line                                                                                                                                                                                                                                                                                                                                                                                    |                 |               |
|                                     |         | Voice Message Text:<br><i>Temporary disconnection of voice and Broadband: Confirmation of Disconnection date &lt;VALID_DISCON_DATE&gt;. Swisscom will inform the customer for the temporary Voice-disconnect by letter. Please inform the Customer about the Broadband disconnection and check the Broadband Disconnect Order for DN &lt;DN1&gt;.</i>                                                                                                   |                 |               |
|                                     | 3200.01 | Sistierung aktiv: Prozessabschluss des Beginns der Sistierung                                                                                                                                                                                                                                                                                                                                                                                           |                 |               |
|                                     |         | Voice Message Text:<br><i>Temporary Disconnection: confirmation of disconnection.</i>                                                                                                                                                                                                                                                                                                                                                                   |                 |               |

| GV25 /<br>Sistierung<br>deaktiv<br>Summary | Steps   | copying enabled                                                                                                                                                                                                                                                                                                                                                                                                                    | is activation |
|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                            | 3171.05 | -                                                                                                                                                                                                                                                                                                                                                                                                                                  | Y             |
|                                            | 3171.06 | -                                                                                                                                                                                                                                                                                                                                                                                                                                  | Y             |
|                                            | 3190.11 | -                                                                                                                                                                                                                                                                                                                                                                                                                                  | Y             |
|                                            | 3200.02 | -                                                                                                                                                                                                                                                                                                                                                                                                                                  | Y             |
| 25.2: Sistierung deaktiv                   | 3171.05 | Sistierung deaktiv: Ankündigung der Reaktivierung der Voice-Linie                                                                                                                                                                                                                                                                                                                                                                  |               |
|                                            |         | Voice Message Text:<br><i>Reactivation of Temporary disconnection of voice: the temporary disconnection of the voice connection for subscriber with telephone number &lt;DN1&gt; will be reactivated at &lt;VALID_ACTI_DATE&gt;. Swisscom will inform the customer for the Voice-line by letter. Please inform the Customer that Broadband services are possible again from &lt;VALID_ACTI_DATE&gt; onwards.</i>                   |               |
|                                            | 3171.06 | Sistierung deaktiv: Mutation nicht leitungsrelevante Dienste                                                                                                                                                                                                                                                                                                                                                                       |               |
|                                            |         | Voice Message Text:<br><i>Reactivation of Temporary disconnection of voice: Confirmation that the temporary disconnection of the voice connection for subscriber with telephone number &lt;DN1&gt; will be reactivated at &lt;VALID_ACTI_DATE&gt;. Swisscom will inform the customer for the Voice-line by letter. Please inform the Customer that Broadband services are possible again from &lt;VALID_ACTI_DATE&gt; onwards.</i> |               |
|                                            | 3190.11 | Sistierung deaktiv: Annullation der Reaktivierung                                                                                                                                                                                                                                                                                                                                                                                  |               |
|                                            |         | Voice Message Text:<br><i>Cancellation of Reactivation of Temporary disconnection for &lt;DN1&gt; . A new Activation date will follow.</i>                                                                                                                                                                                                                                                                                         |               |
|                                            | 3200.02 | Sistierung deaktiv: Prozessabschluss                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                            |         | Voice Message Text:<br><i>Reactivation of Temporary disconnection of voice: Confirmation that the temporary disconnection of the voice connection for subscriber with telephone number &lt;DN1&gt; was reactivated at &lt;VALID_ACTI_DATE&gt;. From &lt;VALID_ACTI_DATE&gt; onwards Broadband can be provisioned again.</i>                                                                                                        |               |

**5.6 GV12 / Übernahme**

|                                |                      |                                                                                                                                |                      |
|--------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------|
| GV12 /<br>Übernahme<br>Summary | <b>Steps</b>         | <b>copying enabled</b>                                                                                                         | <b>is activation</b> |
|                                | 5201.01              | -                                                                                                                              | Y                    |
|                                | 3190.11              | -                                                                                                                              | Y                    |
|                                | 3200.02              | -                                                                                                                              | Y                    |
|                                | 5201.03              | -                                                                                                                              | Y                    |
| 12: Übernahme                  | 5201.01              | Übernahme: Start der Übernahme                                                                                                 |                      |
|                                |                      | Voice Message Text:<br><i>Take-over Voice connection (incl. DSL) for DN: &lt;DN1&gt;<br/>Please clarify with your customer</i> |                      |
|                                | 3190.11              | Übernahme: Annulation der Übernahme                                                                                            |                      |
|                                |                      | Voice Message Text:<br><i>Cancellation for Take-over done</i>                                                                  |                      |
|                                | 3200.02<br>(5201.03) | Übernahme: Abschluss der Übernahme                                                                                             |                      |
|                                |                      | Voice Message Text:<br><i>Closure of transaction</i>                                                                           |                      |

**5.7 GV17 / Nummerntypwechsel Deaktivierung**

|                                                                                   |                    |                                                                                                                                                                                                                                                                                 |                      |
|-----------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| GV17 / Nummern-<br>typwechsel<br>Deaktivierung<br>Summary                         | <b>Steps</b>       | <b>copying enabled</b>                                                                                                                                                                                                                                                          | <b>is activation</b> |
|                                                                                   | 3130.06            | Y/N                                                                                                                                                                                                                                                                             | N                    |
|                                                                                   | 3141.07 / 3151.07  | Y/N                                                                                                                                                                                                                                                                             | N                    |
|                                                                                   | 3141.08 / 3151.08  | Y/N                                                                                                                                                                                                                                                                             | N                    |
|                                                                                   | 3190.11            | Y/N                                                                                                                                                                                                                                                                             | N                    |
|                                                                                   | 5240.05            | Y/N                                                                                                                                                                                                                                                                             | N                    |
|                                                                                   | 3200.01            | Y/N                                                                                                                                                                                                                                                                             | N                    |
| 17: Nummerntyp Wechsel (Änderung Anschlussart)<br>(ISDN <--> PSTN), Deaktivierung | 3130.06            | Nummerntypwechsel: Ausschaltbegehren                                                                                                                                                                                                                                            |                      |
|                                                                                   |                    | Voice Message Text:<br><i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Request for disconnection of Voice service.<br/>Please check also the automatically created Broadband Disconnect order for disconnecting the BB-Service at the old location.</i> |                      |
|                                                                                   | 3141.07<br>3151.07 | Nummerntypwechsel:<br>3141.07 Ausschaltmeldung WSG / Ausschaltung durch Kunde/Servicepartner<br>3151.07 Ausschaltmeldung WSG / Ausschaltung terminiert<br><b>PONR</b> (Point of no Return)                                                                                      |                      |
|                                                                                   |                    | Voice Message Text:<br><i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Disconnection PONR for DN old &lt;DN1&gt;. For this Voice-Line with DSL the deactivation process has started. Cancellation not possible anymore.</i>                             |                      |

|                                              |                                                                                                        |                                                                                                                                                                                                                                                                                                                   |                                                  |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|                                              | 3141.08<br>3151.08                                                                                     | Nummerntypwechsel:<br>3141.08    Ausschaltbestätigung / Ausschaltung durch Kunde/Servicepartner<br>3151.08    Ausschaltbestätigung / Ausschaltung terminiert                                                                                                                                                      |                                                  |
|                                              |                                                                                                        | <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Physical deactivation for DN old &lt;DN1&gt; confirmed. Physical deactivation of DSL is successful done. Waiting for deactivation of DSL.</i>                                                                                             |                                                  |
|                                              | 3190.11                                                                                                | Nummerntypwechsel: Annullation der Ausschaltung                                                                                                                                                                                                                                                                   |                                                  |
|                                              |                                                                                                        | Voice Message Text:<br><i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Cancellation of Voice-Disconnect Order for DN old &lt;DN1&gt;. The automatically created synchronised BB-Disconnect Order will be cancelled and only be set up after a new Voice-Disconnect Order is submitted</i> |                                                  |
|                                              | 5240.05                                                                                                | Nummerntypwechsel: Terminverschiebung der Ausschaltung                                                                                                                                                                                                                                                            |                                                  |
|                                              |                                                                                                        | Voice Message Text:<br><i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Change of Deactivation date to &lt;VALID_DISCON_DATE&gt;</i>                                                                                                                                                       |                                                  |
|                                              | 3200.01                                                                                                | Nummerntypwechsel: Abschluss der Ausschaltung                                                                                                                                                                                                                                                                     |                                                  |
|                                              |                                                                                                        | Voice Message Text:<br><i>Closure of Voice-Disconnect transaction for DN old &lt;DN1&gt;. DSL will be disconnected</i>                                                                                                                                                                                            |                                                  |
| GV17 / Nummerntypwechsel Aktivierung Summary | Steps<br>3010.11<br>3091/3071/3061.09<br>3091/3071/3061.10<br>3190.11<br>5240.05<br>3200.02<br>3301.14 | copying enabled<br>Y/N<br>Y/N<br>Y/N<br>Y/N<br>Y/N<br>Y/N<br>Y/N                                                                                                                                                                                                                                                  | is activation<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y |
| chius                                        | 3010.11                                                                                                | Nummerntypwechsel: Einschaltbegehren                                                                                                                                                                                                                                                                              |                                                  |

|  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                               | <p>Copying enabled = Y: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Voice Line for new DN &lt;DN2&gt; was assigned with planned activation date &lt;VALID_ACTI_DATE&gt;. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i></p> <p>Copying enabled = N: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Voice Line for new DN &lt;DN2&gt; was assigned with planned activation date &lt;VALID_ACTI_DATE&gt;.</i></p>                                                                                                                                                                                                                                                                                           |
|  | 3091.09<br>3071.09<br>3061.09 | <p><b>Nummerntypwechsel:</b><br/> 3091.09 Schaltmeldung WSG / Einschaltung terminiert<br/> 3071.09 Schaltmeldung WSG / Schalt. durch Servispartner<br/> 3061.09 Schaltmeldung WSG / Schaltung durch Kunde<br/> <b>PONR</b> (Point of no Return)</p> <p>Copying enabled = Y: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: PONR for DN new &lt;DN2&gt;. For this Voice-Line the activation process was started. Cancellation not possible anymore. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i></p> <p>Copying enabled = N: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: PONR for DN new &lt;DN2&gt;. For this Voice-Line the activation process was started. Cancellation not possible anymore.</i></p> |
|  | 3091.10<br>3071.10<br>3061.10 | <p><b>Nummerntypwechsel:</b><br/> 3091.10 Schaltbestätigung / Einschaltung terminiert<br/> 3071.10 Schaltbestätigung / Schaltung durch Servispartner<br/> 3061.10 Schaltbestätigung / Schaltung durch Kunde</p> <p>Copying enabled = Y: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Physical activation for DN new &lt;DN2&gt; confirmed. Physical activation of DSL is successful done. Waiting for automatic configuration of DSL</i></p> <p>Copying enabled = N: / Voice Message Text:<br/> <i>Relocation: Physical activation for DN new &lt;DN2&gt; confirmed.</i></p>                                                                                                                                                                                                                                                           |
|  | 3190.11                       | Nummerntypwechsel: Annullation der Einschaltung                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                               | <p>Copying enabled = Y: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Cancellation of Voice-Order for DN new &lt;DN2&gt;. The automatically created pending synchronised BB-Order will also be cancelled and will only be set up again after a new Voice-Activation Order is submitted</i></p> <p>Copying enabled = N: / Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Cancellation of Voice-Order for DN new &lt;DN2&gt;.</i></p> |
|  | 5240.05                       | <p>Nummerntypwechsel: Terminverschiebung der Einschaltung</p> <p>Voice Message Text:<br/> <i>Change of connection type DN old &lt;DN1&gt; and DN new &lt;DN2&gt;: Change of Activation date for DN new &lt;DN2&gt; to &lt;VALID_ACTI_DATE&gt;</i></p>                                                                                                                                                                                                                                                                                      |
|  | 3200.02                       | <p>Nummerntypwechsel: Abschluss der Einschaltung</p> <p>Copying enabled = Y: / Voice Message Text:<br/> <i>Closure of Voice-Activation transaction. DSL will be configured. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i></p> <p>Copying enabled = N: / Voice Message Text:<br/> <i>Closure of Voice-Activation transaction.</i></p>                                                                                                                              |
|  | 3301.14<br><b>SPEZIALFALL</b> | <p>Nummerntypwechsel: Reine Voice-Transaktion kann die Provisionierung eines BB-Orders während der Dauer der Transaktion verhindern.</p> <p>Voice Message Text:<br/> <i>Change of configuration of Voice-line: This voice-line is currently blocked for Broadband Orders until &lt;VALID_ACTI_DATE&gt;</i></p>                                                                                                                                                                                                                             |

## 5.8 GV03 / 04 / 15 Umzug Deaktivierung

|                                                     |                                                                                                    |                                                                                                                                                                                                                                                                                                                     |                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| GV03 / 04 / 15<br>Umzug<br>Deaktivierung<br>Summary | <b>Steps</b><br>3130.06<br>3141.07 / 3151.07<br>3141.08 / 3151.08<br>3190.11<br>5240.05<br>3200.01 | <b>copying enabled</b><br>Y/N<br>Y/N<br>Y/N<br>Y/N<br>Y/N<br>Y/N                                                                                                                                                                                                                                                    | <b>is activation</b><br>N<br>N<br>N<br>N<br>N<br>N |
|                                                     |                                                                                                    |                                                                                                                                                                                                                                                                                                                     |                                                    |
| 03 / 04 / 15: Umzug (Deaktivierungsteil)            | 3130.06                                                                                            | Umzug: Ausschaltbegehren                                                                                                                                                                                                                                                                                            |                                                    |
|                                                     |                                                                                                    | Voice Message Text:<br><i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/>Request for disconnection of Voice service. Please check<br/>also the automatically created Broadband Disconnect<br/>order for disconnecting the BB-Service at the old<br/>location.</i>                                        |                                                    |
|                                                     | 3141.07<br>3151.07                                                                                 | Umzug:<br>3141.07 Ausschaltmeldung WSG / Ausschaltung durch Kunde/Servicepartner<br>3151.07 Ausschaltmeldung WSG / Ausschaltung terminiert<br><b>PONR</b> (Point of no Return)                                                                                                                                      |                                                    |
|                                                     |                                                                                                    | Voice Message Text:<br><i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/>Disconnection PONR for DN old &lt;DN1&gt;. For this<br/>Voice-Line with DSL the deactivation process has<br/>started. Cancellation not possible anymore.</i>                                                                    |                                                    |
|                                                     | 3141.08<br>3151.08                                                                                 | Umzug:<br>3141.08 Ausschaltbestätigung / Ausschaltung durch Kunde/Servicepartner<br>3151.08 Ausschaltbestätigung / Ausschaltung terminiert                                                                                                                                                                          |                                                    |
|                                                     |                                                                                                    | Voice Message Text:<br><i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/>Physical deactivation for DN old &lt;DN1&gt; confirmed.<br/>Physical deactivation of DSL is successful done. Waiting<br/>for deactivation of DSL.</i>                                                                           |                                                    |
|                                                     | 3190.11                                                                                            | Umzug: Annullation der Ausschaltung                                                                                                                                                                                                                                                                                 |                                                    |
|                                                     |                                                                                                    | Voice Message Text:<br><i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/>Cancellation of Voice-Disconnect Order for DN old<br/>&lt;DN1&gt;. The automatically created synchronised BB-<br/>Disconnect Order will be cancelled and only be set up<br/>after a new Voice-Disconnect Order is submitted</i> |                                                    |
|                                                     | 5240.05                                                                                            | Umzug: Terminverschiebung der Ausschaltung                                                                                                                                                                                                                                                                          |                                                    |
|                                                     |                                                                                                    | Voice Message Text:<br><i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/>Change of Deactivation date to<br/>&lt;VALID_DISCON_DATE&gt;</i>                                                                                                                                                                |                                                    |
|                                                     | 3200.01                                                                                            | Umzug: Abschluss der Ausschaltung                                                                                                                                                                                                                                                                                   |                                                    |

|  |  |                                                                                                                                     |
|--|--|-------------------------------------------------------------------------------------------------------------------------------------|
|  |  | Voice Message Text:<br><i>Closure of Voice-Disconnect transaction for DN old<br/>         &lt;DN1&gt;. DSL will be disconnected</i> |
|--|--|-------------------------------------------------------------------------------------------------------------------------------------|

|                                                   |                   |                        |                      |
|---------------------------------------------------|-------------------|------------------------|----------------------|
| GV03 / 04 / 15<br>Umzug<br>Aktivierung<br>Summary | <b>Steps</b>      | <b>copying enabled</b> | <b>is activation</b> |
|                                                   | 3010.11           | Y/N                    | Y                    |
|                                                   | 3091/3071/3061.09 | Y/N                    | Y                    |
|                                                   | 3091/3071/3061.10 | Y/N                    | Y                    |
|                                                   | 3190.11           | Y/N                    | Y                    |
|                                                   | 5240.05           | Y/N                    | Y                    |
|                                                   | 3200.02           | Y/N                    | Y                    |
|                                                   |                   |                        |                      |

|                                        |                               |                                                                                                                                                                                                                                                                                                             |
|----------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03 / 04 / 15: Umzug (Aktivierungsteil) | 3010.11                       | Umzug: Einschaltbegehren                                                                                                                                                                                                                                                                                    |
|                                        |                               | Copying enabled = Y / Voice Message Text:<br><i>Relocation: Voice Line for new DN &lt;DN2&gt; was assigned with planned activation date &lt;VALID_ACTI_DATE&gt;. DN old &lt;DN1&gt;. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i> |
|                                        |                               | Copying enabled = N / Voice Message Text:<br><i>Relocation: Voice Line for new DN &lt;DN2&gt; was assigned with planned activation date &lt;VALID_ACTI_DATE&gt;. DN old &lt;DN1&gt;.</i>                                                                                                                    |
|                                        | 3091.09<br>3071.09<br>3061.09 | Umzug:<br>3091.09 Schaltmeldung WSG / Einschaltung terminiert<br>3071.09 Schaltmeldung WSG / Schalt. durch Servispartner<br>3061.09 Schaltmeldung WSG / Schaltung durch Kunde<br><b>PONR</b> (Point of no Return)                                                                                           |
|                                        |                               | Copying enabled = Y / Voice Message Text:<br><i>Relocation: PONR for DN new &lt;DN2&gt;. For this Voice-Line the activation process was started. Cancellation not possible anymore. Please check also the automatically created Broadband Create order for copying the BB-Service to the new location.</i>  |
|                                        |                               | Copying enabled = N / Voice Message Text:<br><i>Relocation: PONR for DN new &lt;DN2&gt;. For this Voice-Line the activation process was started. Cancellation not possible anymore.</i>                                                                                                                     |
|                                        | 3091.10<br>3071.10<br>3061.10 | Umzug:<br>3091.10 Schaltbestätigung / Einschaltung terminiert<br>3071.10 Schaltbestätigung / Schaltung durch Servispartner<br>3061.10 Schaltbestätigung / Schaltung durch Kunde                                                                                                                             |
|                                        |                               | Copying enabled = Y / Voice Message Text:<br><i>Relocation: Physical activation for DN new &lt;DN2&gt; confirmed. Physical activation of DSL is successful done. Waiting for automatic configuration of DSL</i>                                                                                             |
|                                        |                               | Copying enabled = N / Voice Message Text:<br><i>Relocation: Physical activation for DN new &lt;DN2&gt; confirmed.</i>                                                                                                                                                                                       |
|                                        | 3190.11                       | Umzug: Annullation der Einschaltung                                                                                                                                                                                                                                                                         |

|                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03 / 04 / 15: Umzug<br>(Aktivierung) |         | <p>Copying enabled = Y / Voice Message Text:<br/> <i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/> Cancellation of Voice-Order for DN new &lt;DN2&gt;. The<br/> automatically created pending synchronised BB-Order<br/> will also be cancelled and will only be set up again after<br/> a new Voice-Activation Order is submitted.</i></p> <p>Copying enabled = N / Voice Message Text:<br/> <i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/> Cancellation of Voice-Order for DN new &lt;DN2&gt;.</i></p> |
|                                      | 5240.05 | <p>Umzug: Terminverschiebung der Einschaltung</p> <p>Voice Message Text:<br/> <i>Relocation DN old &lt;DN1&gt; and DN new &lt;DN2&gt;:<br/> Change of Activation date for DN new &lt;DN2&gt; to<br/> &lt;VALID_ACTI_DATE&gt;</i></p>                                                                                                                                                                                                                                                                                                 |
|                                      | 3200.02 | <p>Umzug: Abschluss der Einschaltung.</p> <p>Copying enabled = Y / Voice Message Text:<br/> <i>Closure of Voice-Activation transaction. DSL will be<br/> configured. Please check also the automatically created<br/> Broadband Create order for copying the BB-Service to<br/> the new location.</i></p> <p>Copying enabled = N / Voice Message Text:<br/> <i>Closure of Voice-Activation transaction.</i></p>                                                                                                                      |
|                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 5.9 05 / 06 : Zeitweiliger Anschluss

|                                  |         |                                                                                                                         |
|----------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------|
| 05 / 06 : Zeitweiliger Anschluss | 3301.00 | Zeitweiliger Anschluss: Mutation leitungsrelevanter Dienst<br>Temporary connection                                      |
|                                  | 3010.03 | Zeitweiliger Anschluss: ISLK ok.<br>Temporary connection: Line quality is good for ADSL                                 |
|                                  | 3020.01 | Zeitweiliger Anschluss: ISLK nok.<br>Temporary connection: Line quality is not sufficient for ADSL                      |
|                                  | 6010.01 | Zeitweiliger Anschluss: ISLK Rückmeldung Mutation<br>Temporary connection: Line is to be modified for the voice service |
|                                  | 6030.01 | Zeitweiliger Anschluss: Zur Zeit keine Ports verfügbar<br>Temporary connection: Currently no ports available            |
|                                  | 3200.01 | Zeitweiliger Anschluss: Anschluss ausgeschaltet<br>Temporary connection: Disconnected (closure of transaction)          |
|                                  | 3200.02 | Zeitweiliger Anschluss: Anschluss eingeschaltet<br>Temporary connection: Connection is activated                        |
|                                  | 0000.00 | Zeitweiliger Anschluss: Annullation<br>Temporary connection: Cancellation                                               |

### 5.10 37 Änderung

|             |         |                                                                                                                                                                                                                                                  |
|-------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 37 Änderung | 3272.04 | Korrektur Leitungs-Verlauf auf aktivem Anschluss<br>Voice Message Text:<br><i>Adjustment of active line, new cablebox infos.</i><br>-----<br><i>NSN</i> <DN><br><i>Prozess Flow Nr.</i> 3272.04<br><i>Transaction Date/Time</i> <TRANS_DATETIME> |
|             | 3272.05 | Korrektur Leitungs-Verlauf auf aktivem Anschluss<br>Voice Message Text:<br><i>Adjustment of active line, new Port Nr. infos</i><br>-----<br><i>NSN</i> <DN><br><i>Prozess Flow Nr.</i> 3272.05<br><i>Transaction Date/Time</i> <TRANS_DATETIME>  |

## **5.11 GV11 Korrektur Voice**

|                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |
|---------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| GV11<br>Korrektur<br>Voice<br>Summary | Steps   | copying enabled                                                                                                                                                                                                                                                                                                                                                                                                                  | is activation |
|                                       | 3301.14 | -                                                                                                                                                                                                                                                                                                                                                                                                                                | Y             |
|                                       | 3190.11 | -                                                                                                                                                                                                                                                                                                                                                                                                                                | Y             |
|                                       | 3200.02 | -                                                                                                                                                                                                                                                                                                                                                                                                                                | Y             |
| 11 Korrektur Voice                    | 3301.14 | Voice Message Text:<br><i>KORR: Currently a Voice-Order is inhibiting Broadband Orders to be provisioned. Information about finishing of KORR will be sent with Message 3200.02 or 3190.11</i>                                                                                                                                                                                                                                   |               |
|                                       | 3190.11 | Voice Message Text:<br><i>Cancellation for Take-over done</i>                                                                                                                                                                                                                                                                                                                                                                    |               |
|                                       | 3200.02 | Voice Message Text:<br><i>KORR: the Voice-Order KORR is done. Provsioning of BB-Orders again possible</i>                                                                                                                                                                                                                                                                                                                        |               |
| 11 Special<br>Voice-<br>Messages      | 3010.90 | Voice Message Text:<br><i>"Broadband not possible at new location for DN: &lt;DN2&gt;. Please contact your customer."</i><br><b>Important Note:</b> This voice-message is generated when the flag Copying Enabled = Yes is set but at the new location it is not possible to provide the same service as before (For example: VDSL at "old" place, but at new place only ADSL or "no Broadband" is possible)                     |               |
|                                       | 3010.91 | Voice Message Text:<br><i>"This voice-line does not allow BB because of S21 fix. DN: &lt;DN2&gt;."</i><br><b>Important Note:</b> This voice-message is generated when the flag Copying Enabled = Yes is set but at the new location it is not possible to provide the BB-service because of S21 Fix, which inhibits the provision of BB-Services.                                                                                |               |
|                                       | 3010.92 | Voice Message Text:<br><i>"For this DN &lt;DN2&gt; WSG will open a voice-driven order at &lt;HOLD_DATE&gt;."</i><br><b>Important Note:</b> This voice-message is generated when WSG identifies in the south-bound Fulfillment system a pending voice-Order but will <b>not yet open</b> the order due to technical restrictions. In this case WSG notifies the date, when (Date) the automatically created order will be opened. |               |

## **6 Web Service Interface**

### **6.1 Security**

The following sections describe the implemented precautions aiming to improve the security of data transport in terms of confidentiality and non-repudiation.

#### **6.1.1 Encryption**

To meet the confidentiality aspect of information security the data transport between the web service client and its server is protected using the https schema.

Https is a URI scheme equivalent to the http scheme, originally intended to be used with the HTTP protocol, but with added encryption layer. The URI structure is the same, except that URIs begins with "https:" rather than "http:". The scheme was invented by Netscape Communications Corporation to provide authentication and encrypted communication and is widely used on the Web for security-sensitive communication, such as payment transactions.

Instead of using plain text socket communication, the session data is encrypted using either a version of the SSL (Secure Socket Layer) protocol or the TLS (Transport Layer Security) protocol, thus ensuring reasonable protection from eavesdroppers, and man in the middle attacks. The default TCP port of https: is 443.

#### **6.1.2 Authentication, Authorization, and Accounting (AAA)**

To meet the accountability and non-repudiation aspects of information security each Web Service requires username tokens according to the OASIS Web Service Security (WS-Security) definition. Please consult Appendix A for further details.

## 6.2 Model: WSDL and XML Schemas

### 6.2.1 Overview

The interface is defined by the **wsgBbOutbound.wsdl (B2B)** and the **wsgLqsSaq.wsdl (SAQ)**. Both WSDL imports Data Types from XSD-files. The files are included in document in a ZIP file (see chapter 2.1 Overview)

### 6.2.2 Overview of supported Versions

The following table lists the supported versions for XML fulfillment requests

| Port         | Namespace                          | Remark                               |
|--------------|------------------------------------|--------------------------------------|
| WsgBbV034    | http://www.swisscom.com/wsg/bb/v34 | <b>current</b> fulfillment interface |
| WsgBbV029    | http://www.swisscom.com/wsg/bb/v33 | deprecated Fulfillment interface     |
| LqsQualiV034 | http://www.swisscom.com/wsg/bb/v34 | <b>current</b> SAQ interface         |
| LqsQualiV029 | http://www.swisscom.com/wsg/bb/v33 | deprecated SAQ interface             |

### 6.2.3 The WSG BB Outbound Web Service

The WSG BB Outbound Web is published under the following URLs:

| Platform   | URL                                                    | Description                                  |
|------------|--------------------------------------------------------|----------------------------------------------|
| Production | https://webservices.swisscom.com/wsg/prod/bb/WsgBbV034 | Production environment, actual version.      |
|            | https://webservices.swisscom.com/wsg/prod/bb/WsgBbV033 | Production environment, previous version.    |
| ISP-Test   | https://webservices.swisscom.com/wsg/isp/bb/WsgBbV034  | Test environment for ISPs, actual version.   |
|            | https://webservices.swisscom.com/wsg/isp/bb/WsgBbV033  | Test environment for ISPs, previous version. |

### 6.2.4 The WSG LQS Service Availability Qualification (SAQ)

The WSG LQS Service Availability Qualification is published under the following URLs:

| Platform   | URL                                                                                                                                 | Description                                  |
|------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Production | <a href="https://webservices.swisscom.com/wsg/prod/lqs/LqsQualiV034">https://webservices.swisscom.com/wsg/prod/lqs/LqsQualiV034</a> | Production environment, actual version.      |
|            | <a href="https://webservices.swisscom.com/wsg/prod/lqs/LqsQualiV033">https://webservices.swisscom.com/wsg/prod/lqs/LqsQualiV033</a> | Production environment, previous version.    |
| ISP-Test   | <a href="https://webservices.swisscom.com/wsg/isp/lqs/LqsQualiV034">https://webservices.swisscom.com/wsg/isp/lqs/LqsQualiV034</a>   | Test environment for ISPs, actual version.   |
|            | <a href="https://webservices.swisscom.com/wsg/isp/lqs/LqsQualiV033">https://webservices.swisscom.com/wsg/isp/lqs/LqsQualiV033</a>   | Test environment for ISPs, previous version. |

### 6.2.5 Deprecated Versions

With this software release a new version of the Fulfillment B2B specification is provided (according the table above); all new development activities shall use this version. The previous version (version number one level lower than the new one) remains valid, but will become deprecated as soon as a possible next version of this interface will be created and published.

### 6.2.6 Multiple Versions

The XML schemas are versioned by their namespace. The ISP have thus to provide the correct namespace within the submitted XML-request according to the version of interface which is being invoked (correct declaration of root-attribute “**xmlns**”).

Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Header>
    ...
  </soapenv:Header>
  <soapenv:Body>
    <createCustomerOrder xmlns="http://www.swisscom.com/wsg/bb/v16">
      <request correlationId="abc1234510001">
        <ispld>777710</ispld>
      </request>
    </createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    </request>
  </createCustomerOrder>
</soapenv:Body>
</soapenv:Envelope>

```

### 6.2.7 Correlation from request to response

The attribute **correlationId**, which is to provide within each **request**-element of uploaded requests and which is returned within each **response**-element, serves to correlate from a request to its response. Pay attention to provide a unique identifier to permit this correlation.

Example:

#### Request:

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:v16="http://www.swisscom.com/wsg/bb/v16" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Header>
    ...
  </soapenv:Header>
  <soapenv:Body>
    <v16:createCustomerOrder>
      <v16:request correlationId="abc1234510001">
        <v16:ispld>777710</v16:ispld>
        ...
        ...
        <v16:order xsi:type="v16:modifyType" correlationId="xyz1">
          ...
          ...
        </v16:order>
        <v16:order xsi:type="v16:addType" correlationId="zyx2">
          ...
          ...
        </v16:order>
      </v16:request>
    </v16:createCustomerOrder>
  </soapenv:Body>
</soapenv:Envelope>

```

#### Acknowledge-response:

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <createCustomerOrderResponse xmlns="http://www.swisscom.com/wsg/bb/v16">
      <response correlationId="abc1234510001">
        ...
        ...
        <orderItem correlationId="xyz1">
          ...
          ...
        </orderItem>
        <orderItem correlationId="ord2">
          ...
          ...
        </orderItem>
      </response>
    </createCustomerOrderResponse>
  </soapenv:Body>

```

</soapenv:Envelope>

## 7 General Qualification Information

This section gives special information on the use of the qualification Service

The WSG-interface to the Qualification Service enables ISPs to implement the LQS qualification as an on-line xDSL query service on their website using the BBCS Qualification Web-Service.

The term "xDSL" stands for: ADSL, SDSL, VDSL and since November 2009: BX

Definition of profile types for this document:

| Item             | Definition                                                                                                                                       |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Service-Profile  | The service-profile characterizes the product (speed) which the customer uses.<br>The price for the customer results from the used product.      |
| Access-Profile   | The access-profile characterizes the speed with that the network-access is configured. Other term wich means the same: network profile           |
| Fair Use Profile | This is a specific profile for fibre-provisioning. Technically it is a access profile but can be ordered by the ISP similar to a service profile |

### 7.1 Purpose of the xDSL check facility

The xDSL Check enables end customers to find out whether their subscriber lines are suitable for ADSL, VDSL, SDSL or BX and if so, which speed profiles are available. Availability differs for analogue (POTS) and digital (ISDN) lines, but a POTS customer can query as if he had an ISDN connection and vice versa. If the subscriber line is not suitable for ADSL, VDSL, SDSL or BX the xDSL check reports the technical limitation. The facility also detects whether or not the end customer's local exchange presently supports xDSL. If not, the xDSL check will convey the date planned for the upgrade of the central exchange, if available.

#### Advantages of the Check-Facility:

- This Service enables ISPs to meet End customer needs quickly and easily.
- As the data is always current, the responses are up to date.
- For those exchanges which do not yet support xDSL, the customer is informed of the anticipated implementation date, if it is scheduled
- The xDSL Check Facility is provided free of charge by FWS.

## **7.2 Qualification**

### **7.2.1 ADSL**

The ISP can use the xDSL Check to qualify for ADSL by setting the Parameter Technology to 'ADSL' during the request. The qualification can occur using the address or the active telephone number (DN). If the address is entered without the active telephone number, the xDSL check will respond with Status OK\_STAO, meaning that ADSL is theoretically deliverable but cannot be verified for a specific line or speed profile. The effective bandwidth may differ from the speed profile indicated in the xDSL response. Further, a variety of additional customer premise equipment could hinder the implementation of ADSL at the customer site.

If the address is entered and an existing voice line can be identified, the xDSL check will respond with a Status OK meaning that ADSL is definitely qualified for this specific line. However, when the address is entered and no subscriber could be identified or no voice line exists, the xDSL check will respond with a Status OK\_STAO, meaning that ADSL is theoretically deliverable but cannot be verified for a specific line or speed profile.

Queries using the active Directory Number (DN) will always generate a definitive qualification, or Status OK.

With regard to other faults and technical limitations on the circuit, the standard message codes apply.

### **7.2.2 SDSL**

The ISP can use the xDSL Check to qualify for SDSL by setting the Parameters Technology to 'SDSL' during the request. The qualification can occur using the address, the active telephone number (DN), or the Billing number (NSN or 'Network Service Number'). If the check is performed with the address but without the name, the Status "OK\_STAO" is given. This means that SDSL is (in principle) possible but since no specific connection could be qualified the actual effective transmission rate can vary from the values provided with the check. In this case, the effective bandwidth may differ from the speed profile indicated in the xDSL response.

If the check is performed successfully with the name and address, and the subscriber exists, and has an active SDSL connection the Status "OK" is given since the connection was able to be qualified. If the check is performed with the name and address but only a voice connection is active, the status "OK\_STAO" is given since the connection could not be identified.

Queries using the active Network Service Number (NSN) with SDSL Service will always generate a definitive qualification, or Status OK.

Queries using the active Voice Number (DN) will always generate a conditional qualification, or Status OK\_STAO, because the specific circuit could not be identified.

With regard to other faults and technical limitations on the circuit, the standard message codes apply.

### **7.2.3 VDSL**

The ISP can now use the xDSL Check to qualify for VDSL by setting the Parameter Technology to 'VDSL2' during the request. The qualification can occur using the address or the active telephone number (DN).

**The ADSL rules apply also to VDSL!**

### **7.2.4 BX**

The ISP can use the xDSL Check to qualify for BX by setting the Parameter Technology to BX and

contract element to 'BBCS-F (Fiber)' during the request. The qualification can occur using the socket id and plug nr (optional). If no plug nr is entered, the xDSL check will respond with Status OK and a list of the plugs are returned. The effective bandwidth may differ from the speed profile indicated in the xDSL response. Queries using the socket id/plug nr will always generate a definitive qualification. Further, a variety of additional customer premise equipment could hinder the implementation of BX at the customer site.

With regard to other faults and technical limitations on the circuit, the standard message codes apply. Qualification by address is available by Service Availability Qualification (SAQ) only. SAQ will respond a location with the sockets, or a list of locations only, if the address is not specific enough. The SAQ response will never contain speed profiles.

### **7.2.5 Qualification with Address**

The parameter "street" in an address request is not obligatory. If there are no value for street or the parameters are not transmitted in the request (that means a request only with zip or city), the Public Check will do a Qualification with an average result of the entire city if there are not too many possible starting points.

This feature is implemented for the qualification of locations with no street names, which happens to appear in very small villages.

If there are too many possible starting points, the Public Check will return an error message.

If the result of a request with an address and the name (first / last name) includes more than one active number, than the Public Check response has the status "OK\_STAO". For example, that happens if the same person has an active voice number and an active SDSL number.

### **7.3 General Response Description**

#### **7.3.1 Speed profiles in case of positive response**

The long distance service is based upon a max. 1000 Kbps downstream / 100 Kbps upstream profile that operates in adaptive rate mode. This means that the xDSL modem and the DSLAM select in minimum the highest possible bandwidth between 600 Kbps downstream / 100 Kbps upstream and 300 Kbps downstream / 50 Kbps upstream.

The business offering for xDSL contains four profiles: 300 Kbps downstream / 300 Kbps upstream, max. 600 Kbps downstream / 600 Kbps upstream and 6000 Kbps downstream / 600 Kbps upstream. For each main profile, there is a fallback profile, which shall be applied if the main profile cannot be offered to the customer for distance reasons. The highest possible profile within a profile group will be delivered. The actual delivered profile may or may not be shown to the ISP or End customer.

For a list of possible speed profiles please refer the document [4] B2B Speed Profiles.

### **7.4 Possible reasons for a negative response**

The system may provide a negative qualification result ("nok") and a specific error code (Q<nn>).

Please refer the document [1] WSG Messages for a list of possible qualification error codes and their meaning.

## 8 Appendix A

### 8.1 Securing a WEB-Service with Powergate

A WEB-Service can be secured by using WSS Security (ref. OASIS Standard <http://www.oasis-open.org/specs/index.php#wssv1.0>). WSS Security Tokens have to be included in the header of the SOAP Requests. Realizing this feature is dependent of the implementation of the WS Clients.

The header has to look as follows:

```
<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>586221</wsse:Username>
      <wsse:Password>xxxxxx</wsse:Password>
    </wsse:UsernameToken>
  </wsse:Security>
</soapenv:Header>
```

Concerning "Username" and "Password" please refer to 8.5 Login .

### 8.2 Setting up a new WEB-Service

1. Determining the URL for the WEB-Service
2. Implementing the client in such a way that the WSS Security Tokens are included in the SOAP (see following example).

### 8.3 Sample Client with wss4j

wss4j will be used for creating the WSS Header (ref. <http://ws.apache.org/wss4j/>). The called service offers the method "list()" which will return the received header as a string.

```
public String[] doCall(
    com.swisscom.powergate.ws.TestwsSoapBindingStub binding)
    throws Exception {

    String userName = "58622141964";
    String pwd = "tXVLsD43";

    Stub bindingStub = (Stub) binding;

    Document doc = DocumentBuilderFactory.newInstance()
        .newDocumentBuilder().newDocument();
```

```

Element element = doc.createElementNS(WSConstants.WSSE_NS_OASIS_1_0,
    "wsse:" + WSConstants.USERNAME_TOKEN_LN);

WSSecurityUtil.setNamespace(element, WSConstants.WSSE_NS_OASIS_1_0,
    WSConstants.WSSE_PREFIX);

// create username element
Element elementUsername = doc.createElementNS(
    WSConstants.WSSE_NS_OASIS_1_0, "wsse:"
        + WSConstants.USERNAME_LN);
WSSecurityUtil.setNamespace(elementUsername,
    WSConstants.WSSE_NS_OASIS_1_0, WSConstants.WSSE_PREFIX);
elementUsername.appendChild(doc.createTextNode(userName));
element.appendChild(elementUsername);

// create password element
Element elementPassword = doc.createElementNS(
    WSConstants.WSSE_NS_OASIS_1_0, "wsse:"
        + WSConstants.PASSWORD_LN);
WSSecurityUtil.setNamespace(elementPassword,
    WSConstants.WSSE_NS_OASIS_1_0, WSConstants.WSSE_PREFIX);
elementPassword.appendChild(doc.createTextNode(pwd));
element.appendChild(elementPassword);

// set the header
bindingStub.setHeader(WSConstants.WSSE_NS_OASIS_1_0, "wsse:Security",
    element);
assertNotNull("binding is null", binding);

// Time out after a minute
binding.setTimeout(60000);

return binding.list();
}

public void testHeaders() throws Exception {

    com.swisscom.powergate.ws.TestwsSoapBindingStub binding;
    try {

        binding = (com.swisscom.powergate.ws.TestwsSoapBindingStub) new
com.swisscom.powergate.ws.TestWSServiceLocator()
            .gettestws(new URL(
                "https://www.zugang.ch:44300/bg/services/testws"));

        Stub bindingStub = (Stub) binding;

        // keep session
        bindingStub.setMaintainSession(true);

        System.out.println("\n\rCALL 1");
        String[] headers = doCall(binding);
        for (int i = 0; i < headers.length; i++) {
            System.out.println(headers[i]);
        }

        System.out.println("\n\rCALL 2");
        headers = doCall(binding);
        for (int i = 0; i < headers.length; i++) {
            System.out.println(headers[i]);
        }

    } catch (javax.xml.rpc.ServiceException jre) {

```

```

        if (jre.getLinkedCause() != null)
            jre.getLinkedCause().printStackTrace();
        throw new junit.framework.AssertionFailedError(
            "JAX-RPC ServiceException caught: " + jre);
    }
    assertNotNull("binding is null", binding);

    // Time out after a minute
    binding.setTimeout(60000);

}

```

## 8.4 Errors

### Authentication error

In case of an authentication error the system will return *HTTP Status 403 Forbidden*. The error will be returned inside the SOAP body as <SOAP-ENV:Fault:

```

<SOAP-ENV:Fault>
  <faultcode>SOAP-ENV:Client</faultcode>
  <faultstring>Authentication required (realm='soap')</faultstring>
</SOAP-ENV:Fault>

```

### Backend Server not available:

```

HTTP/1.1 502 Bad Gateway
Date: Thu, 20 Apr 2006 11:49:22 GMT
Server: Apache
Pragma: no-cache
Connection: close
Cache-Control: no-cache
Content-Type: text/xml

```

```

<?xml version="1.0" encoding="utf-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Server</faultcode>
      <faultstring>Upstream server is not available</faultstring>
      <faultactor>https://wstest.swisscom.com/wsg/omso1/bb/WsgBb</faultactor>
      <detail>Upstream server is not available</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### Error on the Backend Server

Here an example in the form of a standard http error:

```

HTTP/1.1 500 Internal Server Error
Date: Wed, 19 Apr 2006 14:27:03 GMT
Server: Apache

```

Set-Cookie: Navajo=AUCaUVoasEVIDVm29EUVyRYuqxwWRG4ozwlKJEewSpvKoVwVEz9mjIclAEQ0goaIH3ZnB9g/RXA-; path=/; secure; HttpOnly  
Set-Cookie: JSESSIONID=AEC47F88F1B35E4329C5C58F40841B4E; path=/wsg/e2e/bb/wsg-outbound; secure; HttpOnly  
Content-Type: text/xml; charset=utf-8  
Connection: close

```
<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <soapenv:Fault>
      <faultcode xmlns:ns1="http://xml.apache.org/axis/">
        ns1:Client
      </faultcode>
      <faultstring>No such operation 'list'</faultstring>
      <detail>
        <ns2:hostname xmlns:ns2="http://xml.apache.org/axis/">
          sbe18304.swissptt.ch
        </ns2:hostname>
      </detail>
    </soapenv:Fault>
  </soapenv:Body>
</soapenv:Envelope>
```

### Wrong URL (Webservice not existing)

HTTP/1.1 404 Not Found  
Date: Wed, 19 Apr 2006 14:30:38 GMT  
Server: Apache  
Pragma: no-cache  
Connection: close  
Cache-Control: no-cache  
Content-Type: text/xml

```
<?xml version="1.0" encoding="utf-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring>mapping for request URI '/wsgdf/e2e/bb/WsgBb' not found</faultstring>
      <faultactor>https://wstest.swisscom.com/wsgdf/e2e/bb/WsgBb</faultactor>
      <detail>mapping for request URI '/wsgdf/e2e/bb/WsgBb' not found</detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### No authorisation for the service but valid Login

HTTP/1.1 403 Forbidden  
Date: Wed, 19 Apr 2006 14:31:40 GMT  
Server: Apache  
Pragma: no-cache  
Connection: close  
Cache-Control: no-cache  
Content-Type: text/xml

```
<?xml version="1.0" encoding="utf-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
```

```
<faultcode>SOAP-ENV:Client</faultcode>
<faultstring>Your are not authorized to access the requested resource</faultstring>
<faultactor>https://wstest.swisscom.com/wsg/prod/bb/WsgBb</faultactor>
<detail>Your are not authorized to access the requested resource</detail>
</SOAP-ENV:Fault>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

## 8.5 Login from the user point of view

Two possibilities can be used for Login:

- Login with **PUI** (Personal User Identification: 11-digit number) and **Password** (4 – 15 characters). The PUI will be sent to the user by email or letter after registration. It has to be used for the first Login.  
The password will be sent to the user by letter and can be changed arbitrarily by the user after the first Login.
- Login with username (unique alphanumeric identification) and **Password** (4 – 15 digits).  
The username (formerly also known as synonym) can be created by the user after the first login with the PUI. It must start with an alphabetic character, must be 8-20 characters in length and must be unique. Maybe the user needs several trials till a unique and not yet used name could be found.  
The password will be sent to the user by letter and can be changed arbitrarily by the user after the first Login.