



Chorus Integration

OOT B2B WSI SDK
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1. Overview

Summary of changes:

Order Upload Web Service	
Baseband IP Service Change	New
Baseband Move Address	New
NGA New Connection	Updated
NGA Change	Updated
Premises Network Order	Updated

Status Web Service	
OrderAdditionalInformation	Updated
Request Order Cancellation	Updated
Request RFS Date Change	Updated

Information Web Service	
NgaPlanDetails	Updated

2. Order Upload Web Service

2.1. Baseband IP Service Change

The **Baseband IP Service Change** web service method uploads a Baseband IP Service Change order.

Web Method Prototype

```
public OrderResponse BasebandIpServiceChange (
    BasebandIpServiceChangeOrderRequest basebandIpServiceChangeOrderRequest
)
```

Method Arguments

`BasebandIpServiceChangeOrderRequest`: contains the order details to upload.

Method Return

`OrderResponse`: The order upload response, including the status, `orderId` on success or error details on failure.

Request Data Schema

```
<!-- Baseband IP Service Change Order -->
<xsd:complexType name="basebandIpServiceChangeOrder">
  <xsd:sequence>
    <xsd:element name="serviceProviderDetails" type="shared:OrderSectionServiceProvider"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="customerDetails" type="shared:OrderSectionCustomerName"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="contactDetails" type="shared:OrderSectionContact"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="existingServiceDetails"
      type="shared:OrderSectionBasebandExistingServiceDetails"
      minOccurs="1" maxOccurs="1"/>
    <xsd:element name="newSipDetails" type="shared:OrderSectionBasebandIpServiceNewSipDetails"
      minOccurs="1" maxOccurs="1"/>
    <xsd:element name="workBookings" type="shared:OrderSectionWorkBookings"
      minOccurs="1" maxOccurs="1" />
  </xsd:sequence>
  <xsd:attribute name="altReference" type="xsd:string" use="required" />
</xsd:complexType>

<xsd:complexType name="OrderSectionBasebandExistingServiceDetails">
  <xsd:sequence>
    <xsd:element name="existingAsid" type="xsd:string" minOccurs="1" maxOccurs="1" />
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="OrderSectionBasebandIpServiceNewSipDetails">
  <xsd:complexContent>
    <xsd:extension base="OrderSectionBasebandIpOptions" />
  </xsd:complexContent>
</xsd:complexType>

<xsd:complexType name="OrderSectionBasebandIpOptions">
  <xsd:sequence>
    <xsd:element name="directoryNumber" type="xsd:string" minOccurs="0" maxOccurs="1" />
    <xsd:element name="sipDomain" type="xsd:string" minOccurs="0" maxOccurs="1" />
    <xsd:element name="hotlineNumber" type="xsd:string" minOccurs="0" maxOccurs="1" />
    <xsd:element name="sipUsername" type="xsd:string" minOccurs="0" maxOccurs="1" />
    <xsd:element name="sipPassword" type="xsd:string" minOccurs="0" maxOccurs="1" />
  </xsd:sequence>
</xsd:complexType>
```

Figure 1 – Baseband IP Service Change Order / Message Schemas

2.2. Baseband Move Address

The **Baseband Move Address** web service method uploads a Baseband Move Address order.

Web Method Prototype

```
public OrderResponse BasebandMoveAddress (
    BasebandMoveAddressOrderRequest basebandMoveAddressRequest
)
```

Method Arguments

BasebandMoveAddressOrderRequest: contains the order details to upload.

Method Return

OrderResponse: The order upload response, including the status, `orderId` on success or error details on failure.

Request Data Schema

```
<!-- Baseband Move Address Order -->
<xsd:complexType name="basebandMoveAddressOrder">
  <xsd:sequence>
    <xsd:element name="serviceProviderDetails" type="shared:OrderSectionServiceProvider"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="customerDetails" type="shared:OrderSectionCustomerName"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="contactDetails" type="shared:OrderSectionContact"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="existingServiceDetails"
      type="shared:OrderSectionBasebandExistingServiceDetails"
      minOccurs="1" maxOccurs="1"/>
    <xsd:element name="basebandOptions" type="shared:OrderSectionBasebandOptions"
      minOccurs="1" maxOccurs="1"/>
    <xsd:element name="broadbandOptions" type="shared:OrderSectionBroadbandOptions"
      minOccurs="1" maxOccurs="1"/>
    <xsd:element name="serviceCompanyInstructions"
      type="shared:OrderSectionServiceCompanyInstructions"
      minOccurs="1" maxOccurs="1"/>
    <xsd:element name="siteDetails" type="shared:OrderSectionSiteAddress"
      minOccurs="1" maxOccurs="1" />
    <xsd:element name="workBookings" type="shared:OrderSectionWorkBookings"
      minOccurs="1" maxOccurs="1" />
  </xsd:sequence>
  <xsd:attribute name="altReference" type="xsd:string" use="required" />
</xsd:complexType>

<xsd:complexType name="OrderSectionBasebandOptions">
  <xsd:complexContent>
    <xsd:extension base="OrderSectionBasebandIpOptions">
      <xsd:sequence>
        <xsd:element name="basebandVariant" type="OrderDetailBasebandVariant"
          minOccurs="1" maxOccurs="1"/>
        <xsd:element name="hdpTiePair" type="xsd:string"
          minOccurs="0" maxOccurs="1" />
        <xsd:element name="basebandTelephoneNumber" type="xsd:string"
          minOccurs="0" maxOccurs="1" />
        <xsd:element name="basebandBillingAccount" type="xsd:string"
          minOccurs="1" maxOccurs="1" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

<xsd:simpleType name="OrderDetailBasebandVariant">
```

```

    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Baseband Copper"></xsd:enumeration>
      <xsd:enumeration value="Baseband IP"></xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="OrderSectionBroadbandOptions">
    <xsd:sequence>
      <xsd:element name="broadbandHandling" type="OrderDetailBroadbandHandling"
        minOccurs="1" maxOccurs="1"/>
      <xsd:element name="broadbandAsid" type="xsd:string" minOccurs="0" maxOccurs="1" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="OrderDetailBroadbandHandling">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Undefined"></xsd:enumeration>
      <xsd:enumeration value="No Change to Existing"></xsd:enumeration>
      <xsd:enumeration value="Disconnect Existing"></xsd:enumeration>
      <xsd:enumeration value="No Existing"></xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="OrderSectionServiceCompanyInstructions">
    <xsd:sequence>
      <xsd:element name="premisesWiring" type="OrderDetailYesNo" minOccurs="0" maxOccurs="1" />
      <xsd:element name="additionalJackpoints" type="OrderDetailAdditionalJackpoint"
        minOccurs="0" maxOccurs="1" />
      <xsd:element name="jackpointType" type="OrderDetailJackpointType"
        minOccurs="0" maxOccurs="1" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="OrderDetailAdditionalJackpoints">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Undefined"></xsd:enumeration>
      <xsd:enumeration value="1-2 Jackpoints"></xsd:enumeration>
      <xsd:enumeration value="3-4 Jackpoints"></xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="OrderDetailJackpointType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Undefined"></xsd:enumeration>
      <xsd:enumeration value="BT"></xsd:enumeration>
      <xsd:enumeration value="RJ45"></xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>

```

Figure 2 – Baseband Move Address Order / Message Schemas

2.3. NGA New Connection

The **NGA New Connection** web service method uploads an NGA New Connection order.

Web Method Prototype

```
public OrderResponse NgaNewConnection (
    NgaNewConnectionOrderRequest ngaNewConnectionOrderRequest
)
```

Method Arguments

`NgaNewConnectionOrderRequest`: contains the order details to upload.

Method Return

`OrderResponse`: The order upload response, including the status, `orderId` on success or error details on failure.

Changes

Field definitions in `productOptions` section have been changed:

- `ataCircuitIdInsertionOption`: the `minOccurs` value has been changed from 1 to 0, and this field will not be utilised by the application, hence any value supplied for this field after Release 9.0 will be ignored.
- `cpeInstallationOptions`: data restriction value has been renamed as detailed below.
- `premisesNetworkingOption`: this takes one or more exact string as detailed below
This new field is replacing two current fields: `premisesWiring` and `premisesWiringInformation`. Any value supplied for these two fields after Release 9.0 will be ignored.

```
<!-- Order Section : Nga New Connection Product Options-->
<xsd:complexType name="OrderSectionNgaNewConnectionProductOptions">
  <xsd:sequence>
    <xsd:element name="planKey" type="xsd:string" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="highPriorityDownstream" type="xsd:string" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="untaggedUni" type="OrderDetailYesNo" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="ethernetCircuitIdInsertionOption" type="xsd:string" minOccurs="1"
      maxOccurs="1"/>
    <xsd:element name="ataCircuitIdInsertionOption" type="xsd:string" minOccurs="0"
      maxOccurs="1"/>
    <xsd:element name="enhancedSlas" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="handoverId" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="diversity" type="OrderDetailOnOff" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="diversityAdditionalInformation" type="xsd:string"
      minOccurs="0" maxOccurs="1"/>
    <xsd:element name="cpeInstallationOptions" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="premisesWiring" type="OrderDetailYesNo" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="premisesWiringInformation" type="xsd:string" minOccurs="0"
      maxOccurs="1"/>
    <xsd:element name="premisesNetworkingOption" type="xsd:string" minOccurs="0"
      maxOccurs="1"/>
    <xsd:element name="billingAccount" type="xsd:string" minOccurs="1" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>
```

Figure 3 – NGA New Connection Product Options Schema

Data Restrictions

Schema Item	Element	Restriction
NGA New Connection Product Options Section	<code>cpeInstallationOptions</code>	<p>Comma delimited string with one or more of (exact string):</p> <ul style="list-style-type: none"> ▪ Simple CPE Install (previously <i>RGW Install</i>) ▪ UPS Install ▪ Complex CPE Install (previously <i>Router Install</i>) <p>Note: if old value is used in request payload this will be translated to new value</p> <p>Cannot submit both <i>Simple CPE Install</i> and <i>Complex CPE Install</i></p>
	<code>premisesNetworkingOption</code>	<p>Comma delimited string with one or more of (exact string):</p> <ul style="list-style-type: none"> ▪ Jackpoint Install ▪ Small Enclosure Install ▪ Medium Enclosure Install <p>Cannot submit both <i>Small Enclosure Install</i> and <i>Medium Enclosure Install</i></p>

2.4. NGA Change

The **NGA Change** web service method uploads an NGA Change order.

Web Method Prototype

```
public OrderResponse NgaChange (
    NgaChangeOrderRequest ngaChangeOrderRequest
)
```

Method Arguments

`NgaChangeOrderRequest`: contains the order details to upload.

Method Return

`OrderResponse`: The order upload response, including the status, `orderId` on success or error details on failure.

Changes

A field definition in `productOptions` section has been changed:

- `ataCircuitIdInsertionOption`: the `minOccurs` value has been changed from 1 to 0. This field will not be utilised by the application, hence any value supplied for this field after Release 9.0 will be ignored

```
<!-- Order Section : Nga Change Product Options-->
<xsd:complexType name="OrderSectionNgaChangeProductOptions">
  <xsd:sequence>
    <xsd:element name="planKey" type="xsd:string" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="highPriorityDownstream" type="xsd:string" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="untaggedUni" type="OrderDetailYesNo" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="ethernetCircuitIdInsertionOption" type="xsd:string" minOccurs="1"
      maxOccurs="1"/>
    <xsd:element name="ataCircuitIdInsertionOption" type="xsd:string" minOccurs="0"
      maxOccurs="1"/>
    <xsd:element name="enhancedSlas" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="handoverId" type="xsd:string" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>
```

Figure 4 – NGA Change Product Options Schema

2.5. Premises Network Order

The **Premises Network** web service method uploads a Premises Network order.

Web Method Prototype

```
public OrderResponse PremisesNetworkOrder (
    PremisesNetworkOrderRequest premisesNetworkOrderRequest
)
```

Method Arguments

`PremisesNetworkOrderRequest`: contains the order details to upload.

Method Return

`OrderResponse`: The order upload response, including the status, `orderId` on success or error details on failure.

Changes

Field definitions in productOptions section have been changed:

1. Data restriction for `cpeInstallationOptions` field have been extended as detailed below.
2. A new optional field `premisesNetworkingOption` has been added, which replaces two existing fields – `premisesWiring` and `premisesWiringInformation`. Any value supplied for these two fields after Release 9.0 will be ignored.
3. Validation message changes when selected product is NGA, and no value supplied for `diversity`, `cpeInstallationOptions` and `premisesWiring` fields.

Current validation message:

Either Diversity must be On, a CPE Installation Option selected, or Premises Wiring requested when Product is NGA.

New validation message:

Either Diversity must be On, a CPE Installation Option selected, or a Premises Networking Options selected when Product is NGA

```
<!-- Order Section : Order Section Premises Network Product Options-->
<xsd:complexType name="OrderSectionPremisesNetworkProductOptions">
  <xsd:sequence>
    <xsd:element name="diversity" type="OrderDetailOnOff" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="diversityAdditionalInformation" type="xsd:string"
      minOccurs="0" maxOccurs="1"/>
    <xsd:element name="cpeInstallationOptions" type="xsd:string" minOccurs="1" maxOccurs="1"/>
    <xsd:element name="premisesWiring" type="OrderDetailYesNo" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="premisesWiringInformation" type="xsd:string"
      minOccurs="0" maxOccurs="1"/>
    <xsd:element name="premisesNetworkingOption" type="xsd:string" minOccurs="0"
      maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>
```

Figure 5 – Premises Network Order Product Options Schema

Data Restrictions

Schema Item	Element	Restriction
Premises Network Order Product Options Section	<code>cpeInstallationOptions</code>	<p>Comma delimited string with one or more of (exact string):</p> <ul style="list-style-type: none"> ▪ RGW Install (applicable when selected product is BoF2) ▪ Router Install (applicable when selected product is BoF2) ▪ Simple CPE Install (applicable when selected product is NGA) ▪ Complex CPE Install (applicable when selected product is NGA) ▪ UPS Install <p>Note: if old value is used on request payload this will be translated to new value</p> <p>Cannot submit both <i>RGW Install</i> and <i>Router Install</i></p> <p>Cannot submit both <i>Simple CPE Install</i> and <i>Complex CPE Install</i></p>
	<code>premisesNetworkingOption</code>	<p>Comma delimited string with one or more of (exact string):</p> <ul style="list-style-type: none"> ▪ Jackpoint Install ▪ Small Enclosure Install ▪ Medium Enclosure Install <p>Cannot submit both <i>Small Enclosure Install</i> and <i>Medium Enclosure Install</i></p>

3. Status Web Service

3.1. Order Additional Information

The Order Additional Information operation has been updated to return new response type for Baseband Move Address orders, and changes for NGA New Connection and NGA Change orders

Order	Status(es) Supported	Information Returned
Baseband Move Address	RFS Confirmed Service Given Completed	Baseband ASID (new) Baseband Billing Account Number
NGA New Connection	RFS Confirmed Service Given Completed	For any new orders entered after Release 9.0 will not have the following fields populated/returned <ul style="list-style-type: none"> Ethernet Circuit ID ATA Circuit ID SIP Config XML Filename
NGA Change	Service Company Under Action	

3.2. Request Order Cancellation

The **Request Order Cancellation** operation has been updated to allow Baseband IP Service Change and Baseband Move Address orders.

Schema Item	Element	Restriction
Baseband IP Service Change	Accepted Processing Service Order Entered RFS Confirmed Support Request RFS Date Change	Cancellation Requested status of the order. On successful condition, the returned status elements will contain the following data (if present): <ul style="list-style-type: none"> • OrderId • Status • Comment • UserName • Date
Baseband Move Address	Accepted Processing Service Order Entered Waiter RFS Confirmed Service Company Under Action Support Request RFS Date Change	

3.3. Request RFS Date Change

The **Request RFS Date Change** operation has been updated to allow Baseband IP Service Change and Baseband Move Address orders.

Schema Item	Element	Restriction
Baseband IP Service Change	Accepted Processing Service Order Entered RFS Confirmed Support Request RFS Date Change	Request RFS Date Change status of the order. On successful condition, the returned status elements will contain the following data (if present): <ul style="list-style-type: none"> • OrderId • Status • Comment • UserName • Date
Baseband Move Address	Accepted Processing Service Order Entered Waiter RFS Confirmed Service Company Under Action Support Request RFS Date Change	

4. Information Web Service

4.1. NgaPlanDetails

The documentation for `NgaPlanDetails` has been updated to reflect existing implementation, previously the element name for `NgaPlanInformationCollection` has been incorrectly documented as `ngaPlan` instead of `plan`. There are no changes in service implementation.

```
<!-- Nga Plan Information -->
<xsd:complexType name="NgaPlanInformationCollection">
  <xsd:annotation>
    <xsd:documentation>Nga plan information collection.</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="ngaPlan" type="NgaPlanInformation" minOccurs="0"
      maxOccurs="unbounded" />
  </xsd:sequence>
  <xsd:attribute name="count" type="xsd:integer" use="required" />
</xsd:complexType>
```

Figure 6 – Previous incorrect NgaPlanInformationCollection Schema

```
<!-- Nga Plan Information -->
<xsd:complexType name="NgaPlanInformationCollection">
  <xsd:annotation>
    <xsd:documentation>Nga plan information collection.</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="plan" type="NgaPlanInformation" minOccurs="0"
      maxOccurs="unbounded" />
  </xsd:sequence>
  <xsd:attribute name="count" type="xsd:integer" use="required" />
</xsd:complexType>
```

Figure 7 – Updated NgaPlanInformationCollection Schema