



## Standard API specifications

For Channel Connect - Version – V2.4

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**REVISION HISTORY**

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2.2	26th Jul 2017	Customized with new requirements	Chitthan R, Chiman M	
2.3	12th Dec 2107	Added Rate Plan and Restrictions	Aravind S	
2.4	26th May 2025	Revised Reviewed	Chitthan R Zahid Memon	



## Table of Contents

<b>COPYRIGHT © 2025 - ALL RIGHTS RESERVED .....</b>	<b>1</b>
<b>TRADEMARKS.....</b>	<b>1</b>
<b>DISCLAIMER.....</b>	<b>2</b>
<b>REVISION HISTORY .....</b>	<b>2</b>
<b>1 Introduction to API.....</b>	<b>5</b>
1.1 Audience.....	5
1.2 Adherence to OTA and HTNG Standards .....	5
1.3 References.....	6
<b>2. Interface Architecture .....</b>	<b>6</b>
2.1 Connectivity .....	6
2.2 Push Model.....	6
2.3 Authentication .....	6
<b>3 Room Type Service .....</b>	<b>7</b>
3.1 Room Type Request XML .....	7
3.2 Room Type Request XML Description .....	7
3.3 Room Type Response XML (Success).....	8
3.4 Room Type Response XML (Error) .....	9
3.5 Room Type Response XML Description .....	9
3.6 Delta Room Type.....	12
3.7 Delta Room Type XML Request .....	12
3.8 Delta Room Type Request XML description .....	13
3.9 Delta Room Type XML Response .....	15
<b>4 Inventory Notification Service .....</b>	<b>16</b>
4.1 Inventory Notification Request.....	16
4.2 Inventory Notification Request XML Usage Description.....	17
4.3 Inventory Notification Response.....	19
4.4 Inventory Notification Response XML Usage Description .....	19
4.5 Examples .....	20
<b>5 Booking Service.....</b>	<b>22</b>
5.1 Book/Modify/Cancel Reservation Notification Request.....	22
5.2 Book/Modify/Cancel Reservation Notification Request XML Usage Description.....	25
5.3 Book/Modify/Cancel Reservation Notification (Acknowledgement) Response.....	35



5.4 Book/Change Reservation Notification (Acknowledgement) Response XML Usage Description .....	36
5.5 Response .....	36
5.7 Book/Change Reservation Confirmation Notification Response with PMS Reservation number XML Usage Description.....	37
<b>6 Rate Plan Update .....</b>	<b>39</b>
6.1. Rate Plan Update Request:.....	39
6.2 Rate Plan Update Request XML Usage Description .....	41
6.3 Rate Plan Update Response .....	43
6.4 Hotel Rate Plan Response XML Usage Description .....	44
<b>7. Restriction/Availability Update:.....</b>	<b>45</b>
7.1 Restriction/Availability Update Request.....	46
7.2 Restriction/Availability Request XML Usage Description .....	47
7.3 Restriction/Availability Response.....	51
7.4 Restriction/Availability Response XML Usage Description .....	52



## 1 Introduction to API

This document defines the usage descriptions and technical specifications for Room Type, Delta Room Type, Inventory and Reservations based on OTA message request and response between IDSNEXT system and Partners. IDSNEXT has implemented OTA-compliant XML interfaces for enabling the data transfer between the communicating systems. This document currently describes following XML API's.

- **Room Types**
- **Delta Room Types**
- **Inventory updates**
- **Reservations**
- **Reservation Confirmation**

### 1.1 Audience

This document is for developers and managers responsible for the technical aspects of interfacing to the IDS Next. This document assumes reader also has a general understanding of hotel operation, distribution, and integration. Advance working knowledge of OTA and HTNG specifications is a useful, though not a necessary pre-requisite.

### 1.2 Adherence to OTA and HTNG Standards

To facilitate the development of hotels real-time two way interface between property management system and a host of channel partners such as Open Travel Alliance (“OTAs”), Hotel Technology Next Generation (“HTNG”) organizations, GDS and hotel’s web book engine. This allows a hotel to dynamically distribute their room inventory online and allows potential guests to book room.

The IDSNEXT interface is a standard interface, any deviation from our standard implementation may require special coding between IDSNEXT and the vendor to create an interface custom for that vendor.

New OTA/HTNG messages may be added or existing messages expanded, as the IDSNEXT functionality is enhanced, and will be done ensuring backwards compatibility. Client software using the IDSNEXT interface should be able to handle the addition of new fields in the messages without breaking.



## 1.3 References

The following documents are referenced in this document:

- 1) HTNG Property Distribution Solution Specifications
- 2) Open Travel Alliance Specifications

## 2. Interface Architecture

### 2.1 Connectivity

The IDSNEXT interface processes XML documents utilizing standard HTTPS POST method. SSL encryption of the post ensures the security of the data being transferred. IDSNEXT currently support synchronous methodology in which the IDSNEXT system can send (push) the information to the distribution system/Partner.

### 2.2 Push Model

In the push model, the sending system pushes the data to the receiving system. In order for IDSNEXT to connect to a Partner at a property using the push model, the Partner must provide a URL. If the Partner system is protected by a firewall, this URL needs to be accessible by IDSNEXT from outside of the Partner's firewall. As of now this document details the push notifications for Inventory and Booking information.

### 2.3 Authentication

IDSNEXT services are Restful with HTTP

header values as: Content-Type:

application/xml

Accept: application/xml

Authorization – Basic HTTP authentication using IDSNEXT provided username/password with base-64 encoding



### 3 Room Type Service

IDSNEXT Provides API service (End Point) to partners to get Room Types, corresponding to request xml Hotel Code, Room Types are provided

#### 3.1 Room Type Request XML

```

<RN_HotelRatePlanRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.opentravel.org/OTA/2003/05"
Version="1.2" EchoToken="879791878">
    <RoomRatePlans>
        <HotelCriteria HotelCode="4747" />
    </RoomRatePlans>
</RN_HotelRatePlanRQ>

```

#### 3.2 Room Type Request XML Description

Element   @Attribute	Data Type	Occurrences	Description	Validation
RN_HotelRatePlanRQ	N/A	1	Root element of the message	
@EchoToken	String	1	Token to uniquely identify the request. Generate a unique number and pass along the request	
@Version	String	1	Version is a mandatory attribute. Identifies the version of specifications . Set this to "1.2"	



RN_HotelRatePlanRQ/RoomRatePlans/HotelCriteria	N/A			
@HotelCode	String	1	The hotel code which partners want to get Room Type details	

### 3.3 Room Type Response XML (Success)

```

<RN_HotelRatePlanRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.opentravel.org/OTA/2003/05"
Version="1.2" EchoToken="879791878">
    <Success />
    <HotelCriteria HotelCode="4747" />
    <RoomTypes>
        <RoomType InvTypeCode="CLB" Name="Club Room" Quantity="12" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="DLS" Name="Deluxe Room - Standard" Quantity="98"
IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="JST" Name="Junior Suite" Quantity="9" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="LUX" Name="LUXURY" Quantity="23" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="OBS" Name="ONE BED SUITE" Quantity="12" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="OSR" Name="ORCHID SUITE" Quantity="9" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="RCR" Name="ROYAL CLUB" Quantity="50" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
        <RoomType InvTypeCode="RSR" Name="ROYAL SUITE" Quantity="3" IsRoomActive="1">
            <RoomDescription />
        </RoomType>
    </RoomTypes>
    <RatePlans>

```



```

<RatePlan RatePlanCode="5" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="Rack Rate" Description="Rack Rate" InvTypeCode="CLB" MealPlanCode="CP"
MealPlanDesc="CONTINENTAL PLAN" Start="2017-04-18" End="2018-04-18"
CurrencyCode="RUP" />
    <RatePlan RatePlanCode="5" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="Rack Rate" Description="Rack Rate" InvTypeCode="JST" MealPlanCode="CP"
MealPlanDesc="CONTINENTAL PLAN" Start="2017-04-18" End="2018-04-18"
CurrencyCode="RUP" />
</RatePlans>
<Inclusions>
    <Inclusion MealPlanCode="EP" MealPlanDesc="EUROPEAN PLAN" />
    <Inclusion MealPlanCode="AP" MealPlanDesc="AMERICAN PLAN" />
    <Inclusion MealPlanCode="CP" MealPlanDesc="CONTINENTAL PLAN" />
    <Inclusion MealPlanCode="MAP" MealPlanDesc="MODIFIED AMERICAN PLAN" />
</Inclusions>
</RN_HotelRatePlanRS>

```

### 3.4 Room Type Response XML (Error)

```

<RN_HotelRatePlanRS xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
xmlns:xsd='http://www.w3.org/2001/XMLSchema' Version='1.2' EchoToken=''
xmlns='http://www.opentravel.org/OTA/2003/05'>
    <Errors>
        <Error>Attempted to perform an unauthorized operation.</Error>
    </Errors>
</RN_HotelRatePlanRS>

```

### 3.5 Room Type Response XML Description

Element   @Attribute	Data Type	Occurrences	Description	Validations
RN_HotelRatePlanRS	N/A	1	Root element of the message	
@EchoToken	String	1	Token to uniquely identify the request. Generate a unique number and pass along the request	
@Version	String	1	Version is a mandatory attribute. Identifies the version of	



			specifications. Set this to "1.2"	
<Success />	N/A	0 to1	If request processed successful	
RN_HotelRatePlanRS/Errors/@Error	String	0 to1	If any error occur	

RN_HotelRatePlanRS/ HotelCriteria	N/A	1		
@HotelCode	String	1	Hotel code which IDS providing RoomTypes	
RN_HotelRatePlanRS/ RoomTypes	N/A	1 to n		
RN_HotelRatePlanRS/ RoomTypes/RoomType	N/A	1	Describes Room Type Details	
@ InvTypeCode	String	1	RoomType code	
@Name	String	1	RoomType Description	
@Quantity	String	1	Corresponding to Room Type Total Rooms Available	
@IsRoomActive	Int	1	Room Type is active or deactive 1=active,0 = deactive	
RN_HotelRatePlanRS/ RatePlans/ RatePlan	N/A	1 to n		
@RatePlanCode	String	1	Describes Rate Plan code	



@InvTypeCode	String	1	Room Type corresponding to Rate Plan	
@RatePlanCategory	String	1	This element tell about RatePlan Category	
@RatePlanStatusType	String	1	Rateplan is active or deactive. 1=active,2 =deactive	
@RatePlanName	String	1	Rate Plan Name like Rack Rate	
@Description	String	1	Description of Rate Plan Name	
@MealPlanCode	String	1	Meal Plan code like “CP”	

@MealPlanDesc	String	1	Description of meal plan	
@Start	String	1	Start Date of RatePlan “yyyy-mm-dd”	
@End	String	1	End Date of RatePlan “yyyy-mm-dd”	
@CurrencyCode	String	1	Currency Code “INR”	
/inclusions/Inclusion	N/A	0 to 1		
@MealPlanCode	String	1	MealPlanCode “CP”	
@MealPlanDesc	String	1	Meal Plan code description.	



## 3.6 Delta Room Type

Delta Room Type come into Picture when hotel side room type change. For Delta Room Type Partner have to provide End Point(Service) where IDS NEXT push Changed Room Type.

## 3.7 Delta Room Type XML Request

```
<RN_HotelRatePlanRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.opentravel.org/OTA/2003/05"
Version="1.2" EchoToken="996732">
    <HotelCriteria HotelCode="4747" />
    <RoomTypes>
        <RoomType InvTypeCode="DLX" Name="DELUXE SUITES" BaseOccupancy="0" MaxOccupancy="0"
Quantity="56" IsRoomActive="1">
            <RoomDescription >

                </RoomType>
        </RoomTypes>
        <RatePlans>
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="DLX" MealPlanCode="AP"
MealPlanDesc="AMERICAN PLAN" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="DLX" MealPlanCode="CP"
MealPlanDesc="continental plan" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="DLX" MealPlanCode="EP"
MealPlanDesc="EUROPEAN PLAN" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="555" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="MAP" Description="MAP" InvTypeCode="DLX" MealPlanCode="MAP" MealPlanDesc="MAP
PLAN" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="DLX" MealPlanCode="AP"
MealPlanDesc="AMERICAN PLAN" Start="2017-07-02" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="DLX" MealPlanCode="CP"
MealPlanDesc="continental plan" Start="2017-07-02" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="DLX" MealPlanCode="EP"
MealPlanDesc="EUROPEAN PLAN" Start="2017-07-02" End="2020-07-31" CurrencyCode="INR" />
            <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="PRM" MealPlanCode="AP"
MealPlanDesc="AMERICAN PLAN" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
```



```

<RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="PRM" MealPlanCode="CP"
MealPlanDesc="continental plan" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
    <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="PRM" MealPlanCode="EP"
MealPlanDesc="EUROPEAN PLAN" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
    <RatePlan RatePlanCode="555" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="MAP" Description="MAP" InvTypeCode="PRM" MealPlanCode="MAP" MealPlanDesc="MAP
PLAN" Start="2016-07-31" End="2020-07-31" CurrencyCode="INR" />
    <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="PRM" MealPlanCode="AP"
MealPlanDesc="AMERICAN PLAN" Start="2017-07-02" End="2020-07-31" CurrencyCode="INR" />
    <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="PRM" MealPlanCode="CP"
MealPlanDesc="continental plan" Start="2017-07-02" End="2020-07-31" CurrencyCode="INR" />
    <RatePlan RatePlanCode="1" RatePlanCategory="RACK" RatePlanStatusType="1"
RatePlanName="CP PLAN" Description="CP PLAN" InvTypeCode="PRM" MealPlanCode="EP"
MealPlanDesc="EUROPEAN PLAN" Start="2017-07-02" End="2020-07-31" CurrencyCode="INR" />
</RatePlans>
<Inclusions>
    <Inclusion MealPlanCode="MAP" MealPlanDesc="MAP PLAN" />
    <Inclusion MealPlanCode="CP" MealPlanDesc="continental plan" />
    <Inclusion MealPlanCode="EP" MealPlanDesc="EUROPEAN PLAN" />
    <Inclusion MealPlanCode="AP" MealPlanDesc="AMERICAN PLAN" />
</Inclusions>
</RN_HotelRatePlanRQ>

```

### 3.8 Delta Room Type Request XML description

<u>Element   @Attribute</u>	Data Type	Occurrences	Description	Validations
RN_HotelRatePlanRQ	N/A	1	Root element of the message	
@EchoToken	String	1	Token to uniquely identify the request. Generate a unique number and pass along the request	



@Version	String	1	Version is a mandatory attribute. Identifies the version of specifications. Set this to "1.2"	
<Success />	N/A	0 to 1	If request processed successful	
RN_HotelRatePlanRQ/Errors/@Error	String	0 to 1	If any error occur	
RN_HotelRatePlanRQ/ HotelCriteria	N/A	1		
@HotelCode	String	1	Hotel code which IDS providing RoomTypes	
RN_HotelRatePlanRQ/ RoomTypes	N/A	1 to n		
RN_HotelRatePlanRQ/ RoomTypes/RoomType	N/A	1	Describes Room Type Details	
@ InvTypeCode	String	1	RoomType code	

@Name	String	1	RoomType description	
@Quantity	String	1	Corresponding to Room Type Total Rooms Available	
@IsRoomActive	Int	1	Room Type is active or deactive 1=active,0 = deactive	
RN_HotelRatePlanRQ/ RatePlans/ RatePlan	N/A	1 to n		
@RatePlanCode	String	1	Describes Rate Plan code	
@InvTypeCode	String	1	Room Type corresponding to Rate	



			Plan	
@RatePlanCategory	String	1	This element tell about RatePlan Category	
@RatePlanStatusType	String	1	Rateplan is active or deactive. 1=active,2 =deactive	
@RatePlanName	String	1	Rate Plan Name like Rack Rate	
@Description	String	1	Description of Rate Plan Name	
@MealPlanCode	String	1	Meal Plan code like “CP”	
@MealPlanDesc	String	1	Description of meal plan	
@Start	String	1	Start Date of RatePlan “yyyy-mm-dd”	
@End	String	1	End Date of RatePlan “yyyy-mm-dd”	
@CurrencyCode	String	1	Currency Code “INR”	
/inclusions/Inclusion	N/A	0 to 1		
@MealPlanCode	String	1	MealPlanCode “CP”	
@MealPlanDesc	String	1	Meal Plan code description.	

### 3.9 Delta Room Type XML Response

```

<ProductSyncSuccessResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" Version="1.2" EchoToken="996732">
    <Success />
</ProductSyncSuccessResponse>

```



## 4 Inventory Notification Service

IDSNEXT push inventory to partners interface. This service pushes inventory availability settings, day wise availability updates at room level for each hotel.

Following sections explains how to use interface and what information can be uploaded through it.

### 4.1 Inventory Notification Request

IDS will send the inventory information using this message. This is a push message from IDSNEXT to partner.

Sample Request: Inventory Count Request

```
<OTA_HotelInvCountNotifRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.opentravel.org/OTA/2003/05" Version="1.2"TimeStamp="2017-07-24T17:16:03"
  EchoToken="3333">
  <Inventories HotelCode="4747">
    <Inventory>
      <StatusApplicationControl Start="2018-07-05" End="2018-07-05" InvTypeCode="LUX"
    />
    <InvCounts>
      <InvCount CountType="2" Count="97" />
    </InvCounts>
  </Inventory>
  <Inventory>
    <StatusApplicationControl Start="2018-07-06" End="2018-07-06" InvTypeCode="LUX"
  />
    <InvCounts>
      <InvCount CountType="2" Count="97" />
    </InvCounts>
  </Inventory>
</Inventories>
</OTA_HotelInvCountNotifRQ>
```



## 4.2 Inventory Notification Request XML Usage Description

<u>Element   @Attribute</u>	Data Type	Occurrences	Description	Validations
OTA_HotelInvCountNotifRQ	N/A	1	Root element of the message	
@EchoToken	String	0 to 1	Optional. Token to uniquely identify the request. Generate a unique number and pass along the request	
@TimeStamp	Date Time	1	Optional. Timestamp of the transaction	
@Version	String	1	Optional. Version is a mandatory attribute. Identifies the version of specifications. Set this to "1.2" If Version is not passed, the latest version	

			specifications to be used	
OTA_HotelInvCountNotifRQ / Inventories	N/A	1	A collection of Inventory. Hotel identification information are the attributes of this element. Request is to update inventory for one hotel at a time	
@ HotelCode	String	1	Mandatory. This is the PMS code of the property as setup in IDSNEXT system.	
OTA_HotelInvCountNotifRQ / Inventories / Inventory	N/A	1 to N	This is the inventory information for a given room type  This element can be <b>repeated</b> if inventory is to be updated for multiple room types or for different date ranges	
OTA_HotelInvCountNotifRQ / Inventories / Inventory / StatusApplicationControl	N/A	0 to N	Information on what the InvCountNotif Message applies to (i.e. the combination of inventory	



			and the period of application)	
@Start, @End	Date	1	Mandatory. The first and last dates for which the availability update is being sent.  Start/End Date Format : YYYY-MM-DD	Start date <= End Date Start Date >= Today End Date <=

				Today + 2 years
@InvTypeCode	String	1	This is the room type code (as setup in IDSNEXT system) for which the update is being sent.	
OTA_HotelInvCountNotifRQ / Inventories / Inventory / InvCounts	N/A	1	A collection of inventory counts	
OTA_HotelInvCountNotifRQ / Inventories / Inventory / InvCounts / InvCount	N/A	1 to N	Individual inventory count (e.g. Physical, Available, Sold, OOO, and NAFS). Can be <b>repeated</b> to update inventory count for Physical, Available, Sold inventory etc. But we only allow definitive availability updates.	
@CountType	Integer	1	This identifies the type of inventory count being reported. 2 - Definitive availability	Allowed (2}
@Count	Integer	1	Number of rooms of this type available for sale. Total number of rooms made available for this room type, for each day specified by “DateRange” element.	

#### 4.3 Inventory Notification Response

Partner system should respond to this request by sending OTA\_HotelInvCountNotifRS message. This message should be returned synchronously and it should return one of  
 {‘Success’, ’Success with Warning messages’, ’Error message’}

##### Sample Response: Inventory Count

```
<OTA_HotelInvCountNotifRS xmlns="http://www.opentravel.org/OTA/2003/05"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" EchoToken="3333"TimeStamp="2017-07-24T11:45:46.4352782Z" Version="1.2">
<Success />
</OTA_HotelInvCountNotifRS>
```

#### 4.4 Inventory Notification Response XML Usage Description

<u>Element   @Attribute</u>	<b>Data Type</b>	<b>Occurrences</b>	<b>Description</b>
OTA_HotelInvCountNotifRS	N/A	1	Root element of the message
@EchoToken	String	0 to 1	Optional. Token sent during the request should be updated here
@TimeStamp	Date Time	1	Timestamp of the transaction
@Version	String	1	Optional. Version is a mandatory attribute. Identifies the version of specifications. Set this to "1.2" If Version is not passed, the latest version specifications to be used
OTA_HotelInvCountNotifRS / Success	N/A	0 to 1	This is the annotation that the Inventory Count request was received successfully. It could be combined with warning messages if some of the messages in the batch had issues. Element appears if the request to update Inventory was successful. If this element is present, Error node(s) does not



			appear. Not everything from the request was successfully processed if warnings are also returned.
OTA_HotelInvCountNotifRS / Error	NA	0 to 1	Optional. If included, this element will indicate that the request message could not be processed. Either a Success element or an Errors element is required in every response.

## 4.5 Examples

### Scenario:

Request to update the inventory data for Hotel Code ‘4747’ for the period between July 05, 2018 and July 06, 2018 for room type code ‘LUX’.

Definitive availability – 97

### Request XML:

```

<OTA_HotelInvCountNotifRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.opentravel.org/OTA/2003/05" Version="1.2"TimeStamp="2017-07-24T17:16:03"
  EchoToken="3333">
  <Inventories HotelCode="4747">
    <Inventory>
      <StatusApplicationControl Start="2018-07-05" End="2018-07-05" InvTypeCode="LUX" />
      <InvCounts>
        <InvCount CountType="2" Count="97" />
      </InvCounts>
    </Inventory>
    <Inventory>
      <StatusApplicationControl Start="2018-07-06" End="2018-07-06" InvTypeCode="LUX" />
      <InvCounts>
        <InvCount CountType="2" Count="97" />
      </InvCounts>
    </Inventory>
  </Inventories>
</OTA_HotelInvCountNotifRQ>
```



Response:

Success

```
<OTA_HotelInvCountNotifRS xmlns:xsdtt="" xmlns:xsittEchoToken="3333"
TimeStamp="2017-07-24T11:45:46.4352782Z" Version="1.2">
<Success />
</OTA_HotelInvCountNotifRS>
```



## 5 Booking Service

IDSNEXT provide an interface for receiving updates on Reservations. This service supports:

“Pushing” booking related information to IDS Next Platform. The push model is the method of reservation delivery defined by the HTNG reservation v.1 and v.2 specification. Partner system to push reservation notifications by sending an OTA\_HotelResNotifRQ. IDSNEXT will then process the notification and reply with an OTA\_HotelResNotifRS. This is only a receiving acknowledgement, not for reservation confirmation.

After few sec/min, IDSNEXT will send the reservation confirmation along with PMS Reservation Number reply by OTA\_NotifyReportRQ. Partner send only one hotel code per reservation. Multiple rooms are allowed in one reservation request.

### 5.1 Book/Modify/Cancel Reservation Notification Request

The reservation notification usage profile covers the basic use-case in which Partner systems is notifying OTA of their activity. The intent of the messages exchanged is to keep PMS up-to-date on all reservations. Using this message, Partner systems can update new booking, modify or cancel a reservation.

#### Sample Request: Book/Modify Reservation Notification Request

```
<OTA_HotelResNotifRQ xmlns:xsitt="" xmlns:xsdtt="" xmlns:stt="" EchoToken="f65b2d0b-b772-4496-a138-45267d1c3ae9"TimeStamp="2017-07-21T15:21:27.6653618+05:30" Version="3.002" ResStatus="Commit">
<POS>
    <Source>
        <RequestorID Type="22" ID="CHANNELMANAGERNAME" />
        <BookingChannel Type="CHANNEL">
            <CompanyName Code="BKNG">Booking.comAPI</CompanyName>
        </BookingChannel>
    </Source>
</POS>
<HotelReservations>
    <HotelReservation CreateDateTime="2017-07-20">
        <UniqueID Type="14" ID="IDSNext_20170720_1" ID_Context="CHANNELMANAGERNAME" />
        <RoomStays>
```



```

<RoomStay>
    <RoomTypes>
        <RoomType NumberOfUnits="1" RoomTypeCode="LUX" />
    </RoomTypes>
    <RatePlans>
        <RatePlan RatePlanCode="Rack" />
    </RatePlans>
    <RoomRates>
        <RoomRate RoomTypeCode="LUX" RatePlanCode="Rack">
            <Rates>
                <Rate EffectiveDate="2017-09-06" ExpireDate="2017-09-07"
RateTimeUnit="Day" UnitMultiplier="1">
                    <Base AmountBeforeTax="83.39" CurrencyCode="USD" />
                </Rate>
                <Rate EffectiveDate="2017-09-07" ExpireDate="2017-09-08"
RateTimeUnit="Day" UnitMultiplier="1">
                    <Base AmountBeforeTax="83.39" CurrencyCode="USD" />
                </Rate>
            </Rates>
        </RoomRate>
    </RoomRates>
    <GuestCounts IsPerRoom="true">
        <GuestCount AgeQualifyingCode="10" Count="2" />
    </GuestCounts>
    <TimeSpan Start="2017-09-06" End="2017-09-08" />
    <Guarantee>
        <GuaranteesAccepted>
            <GuaranteeAccepted>
                <PaymentCard CardCode="VI" CardNumber="4891135203278591"
SeriesCode="574" ExpireDate="0917">
                    <CardHolderName>Martine Van Hoecke</CardHolderName>
                </PaymentCard>
            </GuaranteeAccepted>
        </GuaranteesAccepted>
    </Guarantee>
    <Total AmountBeforeTax="166.78" CurrencyCode="USD" />
    <BasicPropertyInfo HotelCode="4747" />
    <ResGuestRPHs>
        <ResGuestRPH RPH="1" />
    </ResGuestRPHs>
    <Comments>
        <Comment>
            <Text>
                You have a booker that prefers communication by email Hello
                Can we have a quiet room please, thank you ! regards from Belgium
                Martine || RateID[2857524] 15% Off
            </Text>
        </Comment>
    </Comments>

```



```

<Comment>
    <Text>Flag Details: booker_is_genius</Text>
</Comment>
<Comment>
    <Text>GuaranteeCode: RoomID[100587302] Condiciones sobre
depósitos: No se cargará ningún depósito.</Text>
</Comment>
<Comment Name="NonSmoking">
    <Text>Habitación Doble - 2 camas[100587302] Smoking: No</Text>
</Comment>
</Comments>
</RoomStay>
</RoomStays>
<ResGuests>
    <ResGuest ResGuestRPH="1">
        <Profiles>
            <ProfileInfo>
                <Profile ProfileType="1">
                    <Customer>
                        <PersonName>
                            <GivenName>Martine</GivenName>
                            <Surname>Van Hoecke</Surname>
                        </PersonName>
                        <Telephone PhoneTechType="1" PhoneNumber="++32477799122"
FormattedInd="false" DefaultInd="true" />
                        <Email
EmailType="1">mhoeck.463598@guest.booking.com</Email>
                        <Address>
                            <AddressLine>Chipsan Street</AddressLine>
                            <CityName>London</CityName>
                            <CountryName Code="be">Belgium</CountryName>
                        </Address>
                    </Customer>
                </Profile>
            </ProfileInfo>
        </Profiles>
    </ResGuest>
</ResGuests>
</HotelReservation>
</HotelReservations>
</OTA_HotelResNotifRQ>

```



## 5.2 Book/Modify/Cancel Reservation Notification Request XML Usage Description

Element   @Attribute	Data Type	Occurrences	Description	Validations
OTA_HotelResNotifRQ	N/A	1	Root element of the message.	
@EchoToken	string	1	Echo-token can be used to match requests with responses to simulate session state	Less than a 100 digit number
@ResStatus	string	1	The message. Supported values are: “Commit” – New reservation “Modify” – Modified reservation “Cancel” – Cancelled reservation	
@Version	Float	1	Identifies the version of specifications. Set this to "1.005"	
@TimeStamp	DateTime	1	Time of the transaction in xml schema	Date time format
OTA_HotelResNotifRQ / POS / Source / RequestorID	N/A	1	To identify the system sending the reservation request	
@Type	string	1	Supported values: “22” – ERSP (Electronic reservation service provider)	
@ID	String	1	The ID used to identify the requestor (either name or ID to be passed).  Supported values: 1. Channel ID 2. PMS	



OTA_HotelResNotifRQ / POS / Source / BookingChannel	N/A	1 to 2	This element is used to pass the booking source for the reservation. If a secondary booking channel information is to be passed, then the entire source element to be repeated	
@Type	string	1	<p>Type is mandatory in OpenTravel Alliance and indicates the type of booking channel. Refers to OpenTravel Alliance code list BCT (Booking Channel Type). Pass the following based on the type,</p> <p>Supported values:</p> <ul style="list-style-type: none"> <li>“1” – Global Distribution System (GDS)</li> <li>“2” – Alternative Distribution System (ADS)</li> <li>“4” – Property Management System (PMS)</li> <li>“5” – Central Reservation System (CRS)</li> <li>“7” – Internet</li> </ul>	
OTA_HotelResNotifRQ / POS / Source / BookingChannel / CompanyName	String	1	Name of the booking channel	
@Code	String	1	Code of the booking channel	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation	N/A	1	Details of the reservation.	

@CreateDateTime	Date Time	1	This is the date when the reservation was first made. Mandatory if ResStatus is Commit,Modify or Cancel	Data Time format
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / UniqueID	N/A	1	The unique identifier of the reservation in the system which sent the message	
@Type	string	1	Supported Values: “10” – Hotel. Used to identify the PMS identifier  “14” – Reservation. Used to identify the Channel ID CRS identifier.	
ID_Context	String	1	Channel Manager name ='ChannelManagerName'	
@ID	String	1	ID is the actual confirmation number	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation /RoomStays	N/A	1		
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay	N/A	1 to N	One instance of RoomStay per Room Type booked.	

OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / RatePlans /	N/A	1	This indicates rate plans associated with the booking.	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / RatePlans / RatePlan	N/A	1	Defines the rate plan used for this booking	
/				
@RatePlanCode	string	1	Rateplan code	Length - 20
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / RoomTypes	N/A	1		
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / RoomTypes / RoomType /	N/A	1	One instance of RoomType per one RoomStay	
@RoomTypeCode	string	1	This is the room type code booked in the reservation.	Length - 20
@NumberOfUnits	Integer	1	Supported Values: 1	Allowed {1}
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays /	N/A	1	Details the daily rates	



RoomStay / RoomRates / RoomRate /Rates				
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays /	N/A	1 to N	Contains the day rate breakdown	
RoomStay / RoomRates / RoomRate /Rates/Rate				
@EffectiveDate	DateTime	1	Indicates starting date for the rate	
@ExpireDate	DateTime	1	Indicates the ending date for the rate	
@RateTimeUnit	string	1	Supported Values: "Day"	
@UnitMultiplier	Integer	1	Shows the number of rate time units such as "3 Days"	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / RoomRates / RoomRate /Rates/Rate/Base	N/A	1	Contains the total day rate amount	
@AmountAfterTax	Float	1	Rate for this day including all associated taxes	
@AmountBeforeTax	Float	1	Float 1 Rate for this day excluding all associated taxes	
@CurrencyCode	string	1	The code specifying a monetary unit. Use ISO 4217, three alpha code.	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / RoomRates / RoomRate /Rates/Rate/Base/Taxes	N/A	0 to 1	To hold the tax information for the day	
@Amount	Float	1	Indicates the total tax amount for the day	



@CurrencyCode	string	1	The code specifying a monetary unit. Use ISO 4217, three alpha code.	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / GuestCounts / GuestCount	N/A	1 to N	Contains the type and number of guests included in the reservation for this room stay	
@AgeQualifyingCode	string	1	The two codes used from the OpenTravel Alliance AQC code list. Supported Values: “10” – Adult “8” - Child	
@Count	string	1	The actual count for this type of guest	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / TimeSpan	N/A	1	These are the check-in and check-out dates of this stay	
@Start	DateTime	1	Arrival date	
@End	DateTime	1	Departure date	
OTA_HotelResNotifRQ/HotelReservations/HotelReservation/RoomStays/Roo mStay/Guarantee	N/A	1	Note: This element is not required for ‘Cancellation’ notification messages.	
@GuaranteeType	String	1	Supported values: “GuaranteeRequired” “None”	
@GuaranteeCode	String	1	Guarantee code.	



OTA_HotelResNotifRQ/HotelReservations/HotelReservation/RoomStays/Roo mStay/Guarantee/GuaranteesAccepted/GuaranteeAccepted/PaymentCard	N/A	1	*Required if GuaranteeAccepted is included.	
@CardType	String	1	Supported values: “1” - Credit	
@CardCode	String	1	The 2 character code of the credit card issuer. OTA Code list.	
@ExpireDate	DateTime	1	Shows the expiration date on the card.	
CardHolderName	String	1	Name of the card holder.	
OTA_HotelResNotifRQ/HotelReservations/HotelReservation/RoomStays/Roo mStay/Guarantee/GuaranteeDescription/	String	1		
Text	String	1	This will be used to pass the details of the guarantee for non credit card guarantees. For credit card guarantees the guarantee description will be included.	
OTA_HotelResNotifRQ/HotelReservations/HotelReservation/RoomStays/Roo mStay/DepositPayments/GuaranteePayment	N/A	0 or 1		



OTA_HotelResNotifRQ/HotelReservations/HotelReservation/RoomStays/RoomStay/DepositPayments/GuaranteePayment/AmountPercent	N/A	1		
@Amount	Decimal	1	A monetary amount. This is the amount charged as a deposit for the booking.  *If an AmountPercent element is included an Amount, Percent or  NumberOfNights attribute is required.	
@CurrencyCode	String	1	The code specifying a monetary unit. Use ISO 4217, three alpha code.  *This is required if the Amount attribute is included.	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / Total	N/A	1	Contains the room total amount	
@AmountBeforeTax	Float	1	The total amount excluding all associated taxes for room	
@AmountAfterTax	Float	1	Total Amount including taxes	
@AmountIncludingMarkup	Float	1	Total Amount including taxes	
@CurrencyCode	string	1	The code specifying a monetary unit. Use ISO 4217, three alpha code.	



OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / Taxes	N/A	1	Contains this room stay total tax amount	
@Amount	Float	1	The total tax amount associated for this room	
@CurrencyCode	string	1	The code specifying a monetary unit. Use ISO 4217, three alpha code.	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / BasicPropertyInfo	N/A	1	Details of the property for which booking is passed for.	
@HotelCode	string	1	The code for the Hotel for which the booking was made Echo Hotel from the response of “Search – Hotel details” request	Length-20
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / RoomStays / RoomStay / ResGuestRPHs / ResGuestRPH /	N/A	1 to N	Index identifying which guests occupy this room	
@RPH	Integer	1	Customer info. The value link to the ResGuest	
OTA_HotelResNotifRQ/HotelReservations/HotelReservation/RoomStays/Roo mStay/Comments/ Comment/	N/A	0 to N	Note: This element is not required for ‘Cancellation’ notification messages.	



Text	String		This will be the comment text. In addition to general comments, this element will also contain guest deposit information, when applicable.	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / ResGuests / ResGuest /	N/A	1 to N	Contains the guest information.  Note: This element is not required for 'Cancellation' notification messages	
@ResGuestRPH	Integer	1	This is a reference placeholder, used as an index for this guest in this reservation.	
@PrimaryIndicator	Boolean	0 to 1	This indicates the primary guest on a reservation. In the case of multiple guests on a reservation, the guest responsible for payment, etc. will be	
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / ResGuests / ResGuest / Profiles / ProfileInfo / Profile /	N/A	1		
@ProfileType	string	1	Supported values: “1” – Customer “3” – Corporation “4” – Travel Agent	



OTA_HotelResNotifRQ / HotelReservations / HotelReservation / ResGuests / ResGuest / Profiles / ProfileInfo /	N/A	1	Contains the guest profile information	
Profile / Customer				
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / ResGuests / ResGuest / Profiles / ProfileInfo / Profile / Customer / PersonName	N/A	0 to 1		
GivenName	String	1	The first name of the customer.	
Surname	String	1	Last name of the customer	

### 5.3 Book/Modify/Cancel Reservation Notification (Acknowledgement) Response

IDSNEXT should respond to this request using the OTA\_HotelResNotifRS message.

#### Sample Response: Reservation Notification (Acknowledgement)

Response:

```
<OTA_HotelResNotifRS ResStatus="Commit" Version="3.002"
TimeStamp="2017-07-21T15:21:47" EchoToken="f65b2d0b-b772-
4496-a138-45267d1c3ae9"> <Success /></OTA_HotelResNotifRS>
```

## 5.4 Book/Change Reservation Notification (Acknowledgement) Response XML Usage Description

Element   @Attribute	Data Type	Occurrences	Description/Contents
OTA_HotelResNotifRS	N/A	1	Root element of the message.
@Version	String	1	Echo version from request
@TimeStamp	Date Time	1	Echo timestamp from request
@ ResStatus	String	1	Supported values: “Commit” – New reservation response “Modify” – Modified reservation response “Cancel” – Cancelled reservation response
@ EchoToken	String	1	Same EchoToken which is got from reservation
<Success />	String	0 or 1	Status of the acknowledgement if reservation stored successfully
<Error><Error>			If error occurs than Status of the acknowledgement

## 5.5 Response

Book/Modify/Cancel Reservation Confirmation Notification with PMS Reservation number Response

IDSNEXT should respond to each reservation request using the OTA\_HotelResNotifRS message.

### Sample Response: Reservation Notification (Acknowledgement) Response (Success)

```

<OTA_NotifyReportRQ xmlns="http://www.opentravel.org/OTA/2003/05"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"TimeStamp="2017-07-24T13:00:27" Version="1.0"
EchoToken="3339">
    <Success />
    <NotifyDetails>
        <HotelNotifyReport>
            <HotelReservations>
                <HotelReservation CreateDateTime="14-07-2017 00:00:00"
CreatorID="Booking.comAPI" LastModifierID="Booking.comAPI" LastModifyDateTime="14-07-2017
00:00:00">
                    <UniqueID ID="IDSNext_20170714_8" Type="14" />
                    <TPA_Extensions>
                        <BasicPropertyInfo HotelCode="4747" />
                    </TPA_Extensions>
                </HotelReservation>
            </HotelReservations>
        </HotelNotifyReport>
    </NotifyDetails>
</OTA_NotifyReportRQ>
    
```



```

<ResGlobalInfo>
    <HotelReservationIDs>
        <HotelReservationID ResID_Type="14" ResID_Value="200407" />
    </HotelReservationIDs>
</ResGlobalInfo>
</HotelReservation>
</HotelReservations>
</HotelNotifReport>
</NotifDetails>
</OTA_NotifReportRQ>

```

Reservation Confirmation (Acknowledgement) Response (Error) Sample

```

<OTA_NotifReportRQ xmlns="http://www.opentravel.org/OTA/2003/05"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"TimeStamp="2017-07-24T13:00:27" Version="1.0"
EchoToken="3339">
    <Error>InvType Code is invalid</Error>
    <NotifDetails>
        <HotelNotifReport>
            <HotelReservations>
                <HotelReservation CreateDateTime="14-07-2017 00:00:00"
CreatorID="Booking.comAPI" LastModifierID="Booking.comAPI" LastModifyDateTime="14-07-2017
00:00:00">
                    <UniqueID ID="IDSNext_20170714_8" Type="14" />
                </HotelReservation>
            </HotelReservations>
        </HotelNotifReport>
    </NotifDetails>
</OTA_NotifReportRQ>

```

## 5.7 Book/Change Reservation Confirmation Notification Response with PMS Reservation number XML

### Usage Description

Element   @Attribute	Data Type	Occurrences	Description/Contents
OTA_HotelResNotifRS	N/A	1	Root element of the message.
@Version	String	1	Echo version from request
@TimeStamp	Date Time	1	Echo timestamp from request
OTA_HotelResNotifRS/Success	N/A	0 to 1	Mandatory if no Errors were sent. This is the annotation that the reservation batch was received successfully.
OTA_HotelResNotifRS/@Error		0 to 1	If Error Occur



OTA_HotelResNotifRS/NotifDetails/ HotelNotifReport/ HotelReservations/		1	Reservation details like CreateDateTime
@CreateDateTime		1	Attribute define create DateTime.
@CreatorID		1	OTA name like 'MakeMyTrip'
OTA_HotelResNotifRS / NotifDetails/ HotelNotifReport/ HotelReservations/ HotelReservation/UniqueID		0 to 1	This element contains channel manager details like reservation number.
@Type	Integer	1	Type is assigned values from the UIT code list. If the original system was a CRS: Type = 14 – Reservation ID is the actual confirmation number If it was a PMS:
@ID	String	1	ID is the CRS confirmation number (or PMS number if the reservation was originated in the PMS).
OTA_HotelResNotifRS / NotifDetails/ HotelNotifReport/ HotelReservations/ HotelReservation/TPA_Extensions/ BasicPropertyInfo/@HotelCode	String	1	Hotel code
OTA_HotelResNotifRQ / HotelReservations / HotelReservation / ResGlobalInfo / HotelReservationIDs / HotelReservationID	N/A	1 to n	Available only if reservation is successful. This is the confirmation number associated by the system which received the booking.
@ResID_Type	Integer	1	ResID_Type is assigned values from the UIT code list. 10 – Reservation Server 3 – Internet Broker Reservation Broker Cancellation 24 – Travel Agent PNR Associated reservation (travelling with) sociated itinerary reservation 34 – Master Itinerary For any other type of system the implementing partners should agree on the appropriate code from the OpenTravel Alliance UIT code list.
@ResID_Value	String	1	ResID_Value is the actual confirmation number.



## 6 Rate Plan Update

Rate Plan Update updates the partner system with rate of an existing or a new rate plan present in PMS. Rate Plan up dated includes the single,double,triple,quadruple occupancy rate along with additional adult and child rates with meal plans.

Rate Plan Update for a single Rate Plan Code with rates for specific date range will be pushed to the third party system.

### 6.1. Rate Plan Update Request:

```
<OTA_HotelRatePlanNotifRQ EchoToken="20171211143911947335"TimeStamp="2017-12-11T14:39:11" Version="1" MessageContentCode="8" xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance">
    <RatePlans HotelCode="4747">
        <RatePlan RatePlanNotifType="Overlay" RatePlanCode="5" RatePlanCategory="RACK" Start="2017-04-18" End="2018-04-18" CurrencyCode="RUP">
            <Rates>
                <Rate RateTimeUnit="Day" UnitMultiplier="1" InvTypeCode="CLB" MealPlanCode="CP" CurrencyCode="RUP" Sun="1" Mon="1" Tue="1" Weds="1" Thur="1" Fri="1" Sat="0" Start="2017-04-18" End="2018-04-18">
                    <BaseByGuestAmts>
                        <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="1" AmountBeforeTax="12000.000"></BaseByGuestAmt>
                        <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="2" AmountBeforeTax="14500.000"></BaseByGuestAmt>
                        <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="3" AmountBeforeTax="18000.000"></BaseByGuestAmt>
                        <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="4" AmountBeforeTax="0.000"></BaseByGuestAmt>
                    </BaseByGuestAmts>
                    <AdditionalGuestAmounts>
                        <AdditionalGuestAmount Amount="1500.000" AgeQualifyingCode="8"></AdditionalGuestAmount>
                        <AdditionalGuestAmount Amount="2500.000" AgeQualifyingCode="10"></AdditionalGuestAmount>
                    </AdditionalGuestAmounts>
                </Rate>
                <Rate RateTimeUnit="Day" UnitMultiplier="1" InvTypeCode="JST" MealPlanCode="CP" CurrencyCode="RUP" Sun="1" Mon="1" Tue="1" Weds="1" Thur="1" Fri="1" Sat="1" Start="2017-04-18" End="2018-04-18">
```



```

<BaseByGuestAmts>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="1"
AmountBeforeTax="12000.000"></BaseByGuestAmt>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="2"
AmountBeforeTax ="14500.000"></BaseByGuestAmt>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="3"
AmountBeforeTax ="18000.000"></BaseByGuestAmt>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="4"
AmountBeforeTax="0.000"></BaseByGuestAmt>
</BaseByGuestAmts>
<AdditionalGuestAmounts>
    <AdditionalGuestAmount Amount="1500.000"
AgeQualifyingCode="8"></AdditionalGuestAmount>
    <AdditionalGuestAmount Amount="2500.000"
AgeQualifyingCode="10"></AdditionalGuestAmount>
</AdditionalGuestAmounts>
</Rate>
<Rate RateTimeUnit="Day" UnitMultiplier="1" InvTypeCode="CLB"
MealPlanCode="AP" CurrencyCode="RUP" Sun="0" Mon="0" Tue="0" Weds="0" Thur="0" Fri="0"
Sat="1" Start="2017-04-18" End="2018-04-18">
<BaseByGuestAmts>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="1"
AmountBeforeTax="12000.000"></BaseByGuestAmt>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="2"
AmountBeforeTax ="14500.000"></BaseByGuestAmt>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="3"
AmountBeforeTax ="18000.000"></BaseByGuestAmt>
    <BaseByGuestAmt AgeQualifyingCode="10" NumberOfGuests="4"
AmountBeforeTax="0.000"></BaseByGuestAmt>
</BaseByGuestAmts>
<AdditionalGuestAmounts>
    <AdditionalGuestAmount Amount="1500.000"
AgeQualifyingCode="8"></AdditionalGuestAmount>
    <AdditionalGuestAmount Amount="2500.000"
AgeQualifyingCode="10"></AdditionalGuestAmount>
</AdditionalGuestAmounts>
</Rate>
</Rates>
</RatePlan>
</RatePlans>
</OTA_HotelRatePlanNotifRQ>

```



## 6.2 Rate Plan Update Request XML Usage Description

<b>Element   @Attribute</b>	<b>DataType</b>	<b>Num</b>	<b>Description/Contents</b>
OTA_HotelRatePlanNotifRQ	N/A	1	Root element of the message.
@EchoToken	String	1	To identify the request.
@Timestamp	DateTime	1	Time of the transaction/request.
@Version		1	Specify the version of the request
@MessageContentCode	Integer	1	Set to 8 for Rate Plan Update
OTA_HotelRatePlanNotifRQ / RatePlans	N/A	1	Element grouping the rate plans to be transferred.
@HotelCode	String	1	This is the code of the property whose rate plan is being updated.
OTA_HotelRatePlanNotifRQ / RatePlans / RatePlan	N/A	1	Element defining rate plan being sent. One Rate Plan details will be sent
@RatePlanCode	String	1	This is the rate plan which is being sent.
@RatePlanCategory	String	0..1	This is the segment/category to which the rate being sent belongs.
<b>Element   @Attribute</b>	<b>DataType</b>	<b>Num</b>	<b>Description/Contents</b>
@RatePlanNotifType	String	1	<p>This enumeration indicates whether the upload/download is meant to overwrite existing data or delete it. Possible enumerations are:</p> <p>Overlay</p> <p>Overlay - Use for overriding existing rate plan details. Like increasing rate values over all effective time periods of a rate plan. IDS will send an overlay of the entire rate plan</p>
@Start, @End	Date	1	In general, the Start and End attributes used at the RatePlan level should be used as follows: the Start attribute should be equal to the earliest Start attribute at the Rate level, and the End attribute should be equal to the latest End attribute at the Rate level
<b>Element   @Attribute</b>	<b>DataType</b>	<b>Num</b>	<b>Description/Contents</b>
OTA_HotelRatePlanNotifRQ / RatePlans / RatePlan / Rates	N/A	0..1	Includes all rates loaded for the rate plan.



OTA_HotelRatePlanNotifRQ / RatePlans / RatePlan / Rates / Rate	N/A	1..n	Rate
@Start, @End	Date	0..1	Start date and end date for which rate is updated for in the request
@CurrencyCode	String	1	This is the currency associated to the rate that is being uploaded/downloaded – it could be different to the currency loaded for the property.
@Mon,@Tue,@Weds,@Thur, @Fri,@Sat,@Sun	Boolean	0..1 per day	Element is used to indicate on which day of the week, from the date range specified in the element from date to to-date the updates should be applied.
@InvTypeCode	String	1	This is the room type code for which the rates are transferred.
@MealPlanCode	String	1	This is the meal plan code for which rates are transferred

Element @Attribute	DataType	Num	Description/Contents
@RateTimeUnit, @UnitMultiplier	@RateTimeUnit - String @UnitMultiplier – Integer	0..1	If NOT sent the default assumed is always 1 day (i.e., the rate is based on a nightly rate).  Rate Time unit is an Enumeration of time units upon which the RateAmount is based (e.g., daily, weekly, single rate for full stay).  UnitMultiplier is the number of RateTimeUnits that the rate Amount is based upon (e.g., rate for one day in case of nightly rates).
OTA_HotelRatePlanNotifRQ / RatePlans / RatePlan / Rates / Rate / BaseByGuestAmnts / BaseByGuestAmt	N/A	1..n	Base charge for a given number of guests for a given age qualifying code.  At least one instance of this element is mandatory for the RatePlanNotifType Overlay. Can be repeated for multiple Guests.

<code>@AgeQualifyingCode</code>	Integer	0..1	<code>@AgeQualifyingCode - 8 = child, 10 = adult.</code>
<code>@NumberOfGuests</code>	Integer	1	Occupancy of the room to which the rate specified applies (not related to base occupancy). The NumberOfGuests Attribute indicates what type of rate is being passed – if NumberOfGuests is = 1 then we are transmitting a single rate, if higher than 1 then it is a double occupancy rate
<code>@AmountBeforTax</code>	Decimal	1	Rate for occupancy.
<code>OTA_HotelRatePlanNotifRQ / RatePlans / RatePlan / Rates / Rate / AdditionalGuestAmounts / AdditionalGuestAmount</code>	N/A	0..n	Used to transfer extra adult and extra child information.
<code>@AgeQualifyingCode</code>	Integer	0..1	<code>@AgeQualifyingCode - 8 = child, 10 = adult.</code>
<code>@Amount</code>	Decimal	0..1	If <code>@Amount</code> is passed then it's a Fixed amount.

### 6.3 Rate Plan Update Response

Response for the rate plan update request defined above is sent using the OTA\_HotelRatePlanNotifRS message. The status can either be success or error. If successful, it can contain warnings. Response messages indicating failures must contain at least one error element. It is possible to return more than one error element.

#### Sample Response: Hotel Rate Plan

```

<OTA_HotelRatePlanNotifRS xmlns="http://www.opentravel.org/OTA/2003/05"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.opentravel.org/OTA/2003/05
        OTA_HotelRatePlanNotifRS.xsd" Version="1" EchoToken="1e7dce3730fb542fe5ad10460c3"
   TimeStamp="2005-
        0803T09:30:47-05:00" MessageContentCode="8" >
    <Success/>
</OTA_HotelRatePlanNotifRS>
```



## 6.4 Hotel Rate Plan Response XML Usage Description

<u>Element   @Attribute</u>	Data Type	Occurrences	Description
OTA_HotelRatePlanNotifRS	N/A	1	Root element of the message
@EchoToken	String	0 to 1	Token sent during the request should be sent back in the Response
@TimeStamp	Date Time	1	Time stamp of the transaction
@Version	String	1	Request Version.
OTA_HotelRatePlanNotifRS / Success	N/A	0 to 1	This is the annotation that the rate plan message batch was received successfully. It could be combined with warning messages if some of the messages in the batch had issues. One of Success, Errors element should be available
OTA_HotelRatePlanNotifRS / Warnings	N/A	0 to 1	Detailed description of a warning. When this element appears, anything that is not listed in the warning list is assumed to be successfully processed and updated.
OTA_HotelRatePlanNotifRS / Warnings / Warning	N/A	1 to 99	Mandatory. This element can be repeated to update multiple warnings
@ Type	Integer	1	Refers to Open Travel Alliance EWT list (Refer error warning type in the Appendix)
@ Code	Integer	0 to 1	Optional. Refer for Open Travel Alliance ERR list. Refer Error code in the Appendix
@ RecordID	Integer	0 to 1	If the receiving system is able to identify within a batch of rate plan status messages which specific message failed, the UniqueID of the message should be reported here.
OTA_HotelRatePlanNotifRS / Errors	N/A	0 to 1	Optional. If included, this element will indicate that the request message could not be processed.  Either a Success element or an Errors element is required in every response.



OTA_HotelRatePlanNotifR S / Errors / Error	N/A	1 to 99	Mandatory. Description of cause for a fatal problem during request message processing. If an Error element is included, at least one Error element is required.  Can have multiple errors
@ Type	Integer	1	Refers to Open Travel Alliance EWT list (Refer error warning type in the Appendix)
@ Code	Integer	0 to 1	Optional. Refer for Open Travel Alliance ERR list. Refer Error code in the Appendix
@ RecordID	Integer	0 to 1	If the receiving system is able to identify within a batch of rate plan status messages which specific message failed, the UniqueID of the message should be reported here.

## 7. Restriction/Availability Update:

Restriction/Availability Update is used to update the Room / Rate availability of a Room Type. The request will have partial updates. Third party system will overwrite only the values which are specifically passed in the update and retain previously set values for other Availability information. If any element or attribute is missing, they are assumed to retain their previously set values. For example, if availability information is not passed in the update, then third party system will continue to apply the previously set values of availability for the dates specified. It should be noted that the third party system could have different values set previously for the dates specified in the update and they should all be retained as is.



## 7.1 Restriction/Availability Update Request

```

<?xml version="1.0" encoding="utf-8" ?>
<OTA_HotelAvailNotifRQ xmlns="http://www.opentravel.org/OTA/2003/05"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Version="1" EchoToken="54638383"
TransactionIdentifier="938383"TimeStamp="2017-07-07T11:11:38.05" MessageContentCode="3">
    <AvailStatusMessages HotelCode="4747">
        <AvailStatusMessage>
            <StatusApplicationControl Start="2017-10-11" End="2017-10-13" InvTypeCode="LUX"
Mon="0" Tue="0" Weds="0" Thur="0" Fri="1" Sat="1" Sun="1" RatePlanCode="Rack"
MealPlanCode="CP">
                </StatusApplicationControl>
                <RestrictionStatus Restriction="Master" Status="Open"/>
                <LengthsOfStay>
                    <LengthOfStay Time="3" TimeUnit="Day" MinMaxMessageType="SetMinLOS" />
                    <LengthOfStay Time="10" TimeUnit="Day" MinMaxMessageType="SetMaxLOS" />
                </LengthsOfStay>
                <UniqueID Type="16" ID="1"></UniqueID>
            </AvailStatusMessage>
            <AvailStatusMessage>
                <StatusApplicationControl Start="2017-10-14" End="2017-10-15" InvTypeCode="LUX"
Mon="0" Tue="0" Weds="0" Thur="0" Fri="1" Sat="1" Sun="1" RatePlanCode="Rack"
MealPlanCode="CP">
                </StatusApplicationControl>
                <RestrictionStatus Restriction="Arrival" Status="Open"/>
                <LengthsOfStay>
                    <LengthOfStay Time="3" TimeUnit="Day" MinMaxMessageType="SetMinLOS" />
                    <LengthOfStay Time="10" TimeUnit="Day" MinMaxMessageType="SetMaxLOS" />
                </LengthsOfStay>
                <UniqueID Type="16" ID="1"></UniqueID>
            </AvailStatusMessage>
            <AvailStatusMessage>
                <StatusApplicationControl Start="2017-10-16" End="2017-10-17" InvTypeCode="LUX"
Mon="0" Tue="0" Weds="0" Thur="0" Fri="1" Sat="1" Sun="1" RatePlanCode="Rack"
MealPlanCode="CP">
                </StatusApplicationControl>
                <RestrictionStatus Restriction="Departure" Status="Open"/>
                <LengthsOfStay>
                    <LengthOfStay Time="3" TimeUnit="Day" MinMaxMessageType="SetMinLOS" />
                    <LengthOfStay Time="10" TimeUnit="Day" MinMaxMessageType="SetMaxLOS" />
                </LengthsOfStay>
                <UniqueID Type="16" ID="1"></UniqueID>
            </AvailStatusMessage>
        </AvailStatusMessages>
    </OTA_HotelAvailNotifRQ>

```



## 7.2 Restriction/Availability Request XML Usage Description

Element   @Attribute	Data Type	Occurrences	Description	Validations
OTA_HotelAvailNotifRQ	N/A	1	Root element of the message	
@EchoToken	String	1	Optional. Token to uniquely identify the request	
TimeStamp	Date	1	Time of the transaction/request pushed	
@Version	String	1	Identifies the version of specifications. Set this to "1.0".	
@TransactionIdentifier	String	0 to 1	Optional. If the availability update is the result of a reservation upload, the reservation number should be indicated in this field.	
@MessageContentCode	Integer	1	The attribute refers to OpenTravel Alliance code list MCC. Set this to 3( Room/Rate availability )	Allowed {3}
OTA_HotelAvailNotifRQ / AvailStatusMessages	N/A	1	The element is used to transfer the ARI information for a Room/Rate/Segment for a date range (with day of week applicability)	

@HotelCode	String	1	Mandatory. This is the hotel/property code	
OTA_HotelAvailNotifRQ / AvailStatusMessages / AvailStatusMessage / UniqueID	N/A	0 to 1	Used to uniquely track for any errors that might happen. Each ARI message to have an unique code which the receiver responds back in the response for troubleshooting purposes	

@Type	Integer	1	Refers to OpenTravel Alliance code list UIT – nr 16 = Reference. This is used to identify each single availability status message for error reporting purposes.	Only 16 is allowed
@ID	Integer	1	A unique incremental number for each availability message that identifies that specific message.	
OTA_HotelAvailNotifRQ / AvailStatusMessages / AvailStatusMessage / StatusApplicationControl	N/A	1	Element defining application of controls being sent.	
@Start, @End	Date	1	<p>Mandatory. The first and last dates for which the availability update is being sent.</p> <p>Specify dates on which inventory/availability information provided in this message applies. A 'Start' and an 'End' date must be specified. They can be equal if the partner wants to update only one date.</p> <p>This element can be repeated more than once if there is a need to update non-consecutive dates or date ranges.</p> <p>Start/End Date Format : YYYY-MM-DD</p>	Format: YYYY-MM-DD Start Date <= End Date End Date <= Current Date + 2 Years
@Mon,@Tue,@Weds,@Thur , @Fri,@Sat,@Sun	Boolean	0 to 1	These 7 attributes are used to indicate on which day of the week, from the date range specified in the “Start”“End” attributes, the updates should be applied. If none of the 7 attributes are specified, updates will apply to all days of the week. As	Allowed {1, 0}



			soon as one attribute is specified, the updates will only apply to the days where the attribute value is set to 1.  If 'Sun' set to 1, apply update for each Sunday in the specified date interval.	
@RatePlanCode	String	1	This will represent Rate Plan Code as setup in PMS	
@InvTypeCode	String	1	This is the room type code for which the update is being sent.	
@MealPlanCode	String	1	This is the meal plan code associated with the rateplan code	

OTA_HotelAvailNotifRQ /  AvailStatusMessages /  AvailStatusMessage	N/A	1 to N	<p>Optional. Although restriction is optional, at least one of limit or restriction should be sent for the message to have any meaning. This element can be repeated.</p> <p>one of Fields/attributes in AvailStatusMessage - RestrictionStatus or Length of Stay elements should be present for the message to have any meaning. If Restriction Status is not present then Length of Stay should be present</p>	
--	-----	--------	--	--



OTA_HotelAvailNotifRQ / AvailStatusMessages / AvailStatusMessage / RestrictionStatus	N/A	0 to 1	<p>This element contains rules like open/close room, open/close room for arrival and open/close room for departure.</p> <p>Conditionally Mandatory. One of Fields/attributes in Status (in RestrictionStatus element) element, Length of Stay elements should be present for the message to have any meaning.</p>	
@Restriction	String	1	Used as a stop sell, close to departure and close to arrival.	Allowed {Master, Arrival, Departure}
@Status	String	1	Enumeration; possible values ="Open", "Close". Works in conjunction with @Restriction.	Allowed {Open, Close}
OTA_HotelAvailNotifRQ / AvailStatusMessages / AvailStatusMessage / LengthsOfStay	N/A	0 to 1	Optional. If no Status restriction is sent, then the LengthsOfStay field must be sent with some LOS restrictions in order for the message to be meaningful	
OTA_HotelAvailNotifRQ / AvailStatusMessages / AvailStatusMessage / LengthsOfStay /	N/A	1 to N	Conditionally mandatory. If LengthsOfStay is available then at least one LengthOfStay should be available.	



LengthOfStay				
@MinMaxMessageType =SetMaxLOS, @Time @TimeUnit	@MinMax MessageT ype - String @Time - Integer @TimeUni t – String	1	<p>@MinMaxMessageType: Specifies minimum or maximum length of stay required to qualify for this rate. Guest has to stay at least this number of nights to benefit from rate. If not specified, the minimum length of stay will be set to a default value configured in OTA systems (1 might be the default, but it can be changed).</p> <p>@Time :</p> <p>Indicates the length of stay in terms of number of days</p> <p>If sending SetMinLOS then set time to the MinLOS value</p> <p>If sending SetMaxLOS then set time to the MaxLOS</p>	<p>@MinMax MessageTy pe: Allowed Value</p> <p>{SetMinLOS ,</p> <p>SetMaxLOS}</p> <p>@TimeUnit: Allowed Value {Day}</p>
			<p>value</p> <p>@TimeUnit – Supports only ‘Day’ time unit</p>	

### 7.3 Restriction/Availability Response

The response for the request defined above is sent using the OTA\_HotelAvailNotifRS message. The status can either be success or Error. If successful, it can contain warnings. Response messages indicating failures must contain at least one error element. It is possible to return more than one error element.

#### Sample Response: Availability Response

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



```

<OTA_HotelAvailNotifRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Version="1"
EchoToken="54638383" TransactionIdentifier="938383"TimeStamp="2015-03-10T09:30:47-05:00">
    <Success />
</OTA_HotelAvailNotifRS>
    
```

## 7.4 Restriction/Availability Response XML Usage Description

<u>Element   @Attribute</u>	Data Type	Occurrences	Description
OTA_HotelAvailNotifRS	N/A	1	Root element of the message
@EchoToken	String	1	Token sent during the request should be updated here
@Version	String	1	Identifies the version of specifications. Set this to "1.0"
TimeStamp	Date Time	1	Time Response sent
@MessageContentCode	Integer	1	The attribute refers to OpenTravel Alliance code list MCC. Set this to 3( Room/Rate availability )
OTA_HotelAvailNotifRS / Success	N/A	0 to 1	This is the annotation that the availability status message batch was received successfully. It could be combined with warning messages if some of the messages in the batch had issues. Either a Success element or an Error element is required in every response.
OTA_HotelAvailNotifRS / Warnings	N/A	0 to 1	Detailed description of a warning. When this element appears, anything that is not listed in the warning list is assumed to be successfully processed and updated.



OTA_HotelAvailNotifRS / Warnings / Warning	N/A	1 to 99	Mandatory. This element can be repeated to update multiple warnings
@Type	Integer	1	Refers to Open Travel Alliance EWT list
@Code	Integer	0 to 1	Optional. Refer for Open Travel Alliance ERR list
@RecordID	Integer	0 to 1	If the receiving system is able to identify within a batch of availability status messages which specific message failed, the UniqueID of the message should be reported here.
OTA_HotelAvailNotifRS / Errors	N/A	0 to 1	Optional. If included, this element will indicate that the request message could not be processed. Either a Success element or an Errors element is required in every response.
OTA_HotelAvailNotifRS / Errors / Error	N/A	1 to 99	Mandatory. Description of cause for a fatal problem during request message processing. If an Error element is included, at least one Error element is required. Can have multiple errors
@Type	Integer	1	Refers to Open Travel Alliance EWT list
@Code	Integer	0 to 1	Optional. Refer for Open Travel Alliance ERR list
@RecordID	Integer	0 to 1	If the receiving system is able to identify within a batch of availability status messages which specific message failed, the UniqueID of the message should be reported here.

