



# hotelbeds

## BOOKING MIGRATION SYSTEM SPECIFICATION

*A developers' guide to get Hotelbeds bookings*

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## 2 DOCUMENT CONTROL

This section covers adjustments made to this document.

| Version | Release Date | Description   | Pages |
|---------|--------------|---|-------|
| 1.0.0   | 20/11/2007   | First version from BMS interface                    | 51    |
| 1.5.0   | 26/05/2009   | Document revision and some changes on the interface | 33    |
| 1.5.1   | 17/06/2009   | Document expansion                                  | 37    |
| 1.5.2   | 08/07/2009   | Document expansion                                  | 37    |
| 1.5.3   | 17/03/2010   | New functionality, new response "NOT-PROCESSED"     | 37    |
| 1.5.4   | 14/04/2010   | Possible responses reviewed                         | 37    |
| 1.5.5   | 15/11/2011   | New updated (Liberate Payment)                      | 38    |
| 1.5.6   | 01/07/2012   | Document Expansion                                  | 38    |
| 1.5.7   | 01/01/2013   | New ConfirmationNumber                              | 38    |
| 2.0.0   | 01/05/2014   | Breakdown in available regions                      | 50    |



### 3 INTRODUCTION

This manual describes the specifications of XML query and response messages sent from the online booking notification system of Hotelbeds Accommodations & Services. This documentation is addressed to the technical staff of Hotelbeds services providers or the company in charge of the technical development.

The communication between the provider's system and the interface of Hotelbeds is through XML predefined messages that are sent through Internet and its standard web protocol. Basic knowledge of XML is necessary as well as HTTP protocol.

Hotelbeds reserves the right to amend or introduce improvements into the XML specifications in the future. Hotelbeds will inform the providers of any amendments. The provider will be held responsible for any consequences of the above changes in their system.

## 4 DOCUMENTATION

This section is dedicated to analyze the structure of the documentation.

File /xml contains the complete definition of the type of data and XML structure of Hotelbeds interface.

All types of simple data in XML schema are defined in the following file /xml/BMSSimpleTypes.xsd. The associated technical guide, BMSSimpleTypes.html is in file /xsddocs.

Requests have XML schema of definition in BMS\_BookingNotifRQ.xsd which is to be found in folder /xml. There is an example in BMS\_BookingNotifRQ.xml. The technical guide related to it is in /xsddocs, with the file name BMS\_BookingNotifRQ.html.

The definition XML schema of the responses is in the following file /xml, in a file called BMS\_BookingNotifRS.xsd. There is an example XML file in BMS\_BookingNotifRS.xml. The technical guide can be found in /xsddocs, in the file BMS\_BookingNotifRS.html.

The version number is split into three parts major, minor and release.

For example version 0.9.5 is split as follows:

|               |               |         |
|---------------|---------------|---------|
| 0             | 9             | 5       |
| Major version | Minor version | Release |

**Major version:** indicates the number of the version of the interface, if this number changes the provider will need to amend the integration. It is not compatible with the previous versions.

**Minor version:** indicates minor changes made to the interface such as: new functionalities or changes in the old functionalities. This kind of changes may be compatible in some cases with the old versions but in others not. If new functionalities are added, they will be compatible with the old versions. If an existing functionality is amended it will probably be no longer compatible with the previous version.

**Release:** indicates a new version of the interface with minor changes such as optional fields added to some types, new type of connection, in any case it will be compatible with the previous version. It also indicates changes in the documentation.

## DIAGRAMS

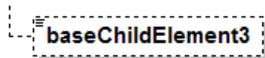
Diagrams are presented by using a XML Schema notation, which is defined by the Altova XMLSpy® software.

*Element:* A named rectangle represents the most basic part of the XML Schema notation. Each angle represents a XML Element symbol. Each Element symbol can be created with extra information as shown in the examples below.

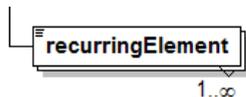
*Mandatory simple element.* The upper left angle of the rectangle indicates that this element contains data.



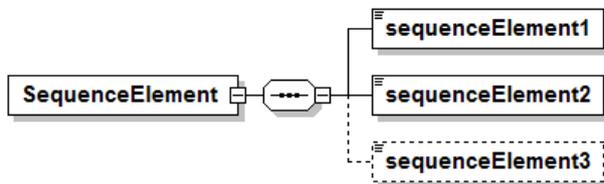
*Optional element:* An optional (non mandatory) element can be identified by its dashed lines.



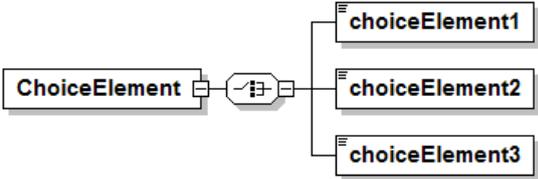
*Recurring element:* The recurring element has to occur at least once but can occur an unlimited number of times. The upper bound shows the infinity symbol.



*Sequence connector:* The connection box, called a sequence indicator, indicates that the “SequenceElement” data compounds three elements. In the following example, the first two elements are mandatory and the third element is optional.



*Choice connector:* The connection box, called a choice indicator, indicates that there is always exactly one of the child elements listed on the right.



## 5 BMS / E-MIGRATE

### 5.1 WHAT IS BMS/E-MIGRATE

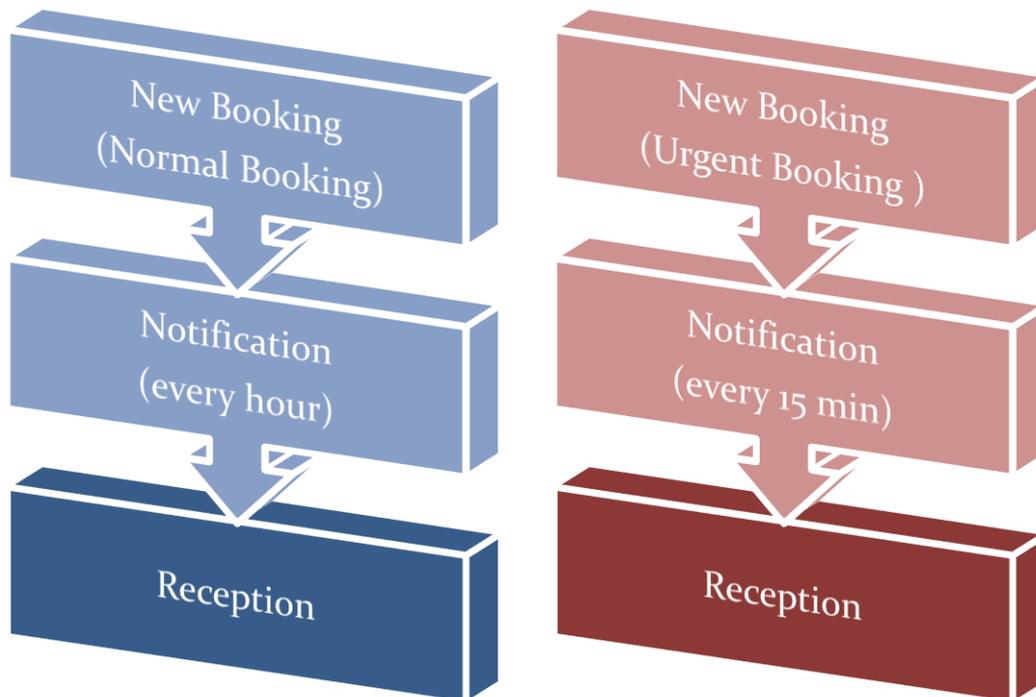
E-Migrate replaces the older way of sending bookings to our customers by e-mail or fax with a new way of communication using xml format. This way is not necessary any manipulation to input bookings on your end.

### 5.2 WHAT DO YOU NEED TO GET STARTED WITH BMS/E-MIGRATE

In order to get connection with BMS you will need a frontend capable of receive xml, process it, and send a response back to us. This front-end should be up 24 hours a day and 7 days a week. The xml containing bookigs will be sent inside a parameter called BMS\_XML.

### 5.3 HOW DOES BMS/E-MIGRATE WORKS

The service will send a message for each reservation made in the booking system of Hotelbeds. BMS buffers these bookings and send them every 15 minutes.



Each message should be processed in the provider’s system and Hotelbeds should receive a response message. In this information flow, we can have four different situations:

The provider can read and process the message correctly (Processed).

The provider cannot process the request sent through BMS (Not processed).

There is a timeout error when the message is sent (No response).

A message which specifies a type of error is sent. (Error)

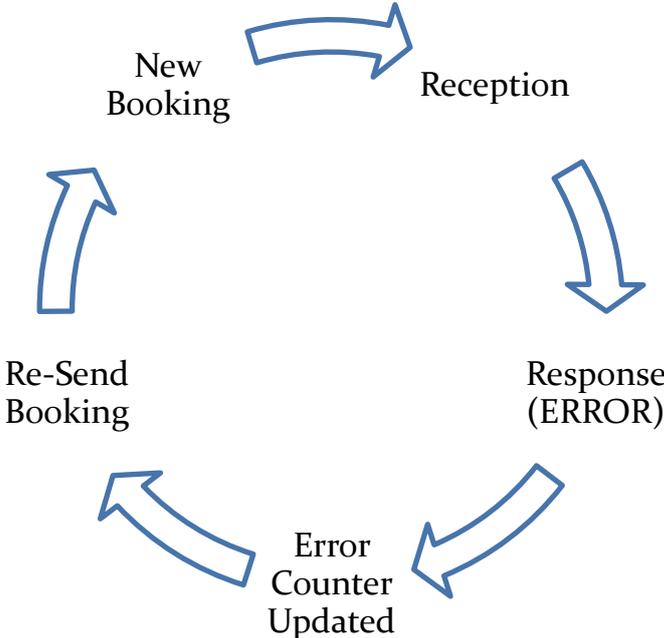
Also time\_out errors or connection problems will count as Errors. Timeout for sending is set up 10 seconds and timeout for reading is set up 60 seconds.

In case of error BMS will try to send the message again a limited number of times. If the limit is reached, BMS will be disabled temporarily (within 1 to 3 hours) and the booking notification will be sent by email or fax.

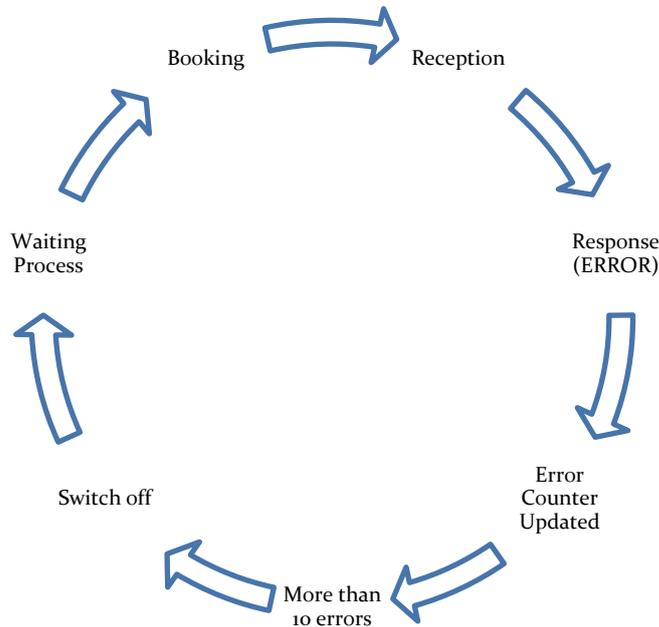
Once the provider has had its access disabled to BMS, all the pending bookings will be sent by email or fax.

BMS will try to reconnect automatically every switched off provider in a short period of time.

1 Error on Notifications Cycle



2 Disconnection Cycle



Every response to a booking, should be accompanied by the echoToken data sent on the notification request. Otherwise an error would be triggered. This way responses could be linked to their request.

5.4 STATUS FOR A BOOKING

There exist up to four types of status for a booking:

| Types    | Description                  | Usage   |
|----------|------------------------------|---|
| BOOKING  | New booking.                 | Notifies a new booking that has been done. This booking has to be stored. |
| MODIFIED | A booking has been modified. | Only part of the booking is being sent. Further info on                   |

|            |                               |   |
|------------|-------------------------------|---|
|            |                               | point 6.  |
| CANCELED   | A booking has been canceled   | The booking has been canceled. Further info on point 7.   |
| FORWARDING | A booking has been forwarded. | Hotel has asked a booking to be forwarded. This booking could be, either, accepted or rejected. |

### 5.5 REJECTION OF BOOKINGS - RESPONSE "NOT\_PROCESSED"

Additionally, the provider may request the transmission of the XML notification by email, answering "NOT\_PROCESSED" to the BMS request.

Usually, when an XML can't be processed because of existing errors in the data, or in the internal mapping, the provider should answer "ERROR".

In this case, the error counter will be increased and pending bookings will remain not notified, so the shipment will be retried again and again, causing more errors to be sent.

When the error counter reaches its threshold, the system will disconnect the supplier/hotel and all notifications will be sent by email until the service is reactivated, which will happen automatically within 1 to 3 hours.

In other cases, the booking can't be processed because it was already loaded in the customer side, this may be the case for example of a forwarded booking (FORWARDING).

In cases like this, the provider now could answer "NOT\_PROCESSED" to the conflicting booking, then the service will send the XML via email (email set in the BMS configuration. It doesn't mean the email belonging the hotel), no error counters will be increased and the booking will be flagged in our system as notified, so it won't be sent again.

So, a list of valid response values to BMS notifications, and its meanings would be like this:

| Value     | Meaning                                     |
|-----------|---|
| PROCESSED | The booking notification has been processed |

|               |  |
|---------------|--|
|               | correctly. This booking won't be sent again.   |
| NOT_PROCESSED | The booking notification hasn't been processed. This booking won't be sent again, a XML copy of this booking would be sent to the contact email. |
| ERROR         | The booking notification hasn't been processed correctly. The error counter has been increased and the booking will be sent again.               |

## 5.6 WHAT BMS/ E-MIGRATE IS NOT INTENDED TO.

BMS is not intended to:

- Showing final amounts for bookings. It will show only the amount on flexible rates (NRATE) not on signed rates. And in this case, that amount won't be final booking price unless this is available in the specific region.
- Showing supplements or discounts prices. It will show only it's quantities not it's amounts or percentages (the amount can be get in our extranet, or through our HSI tool) unless this is available in the specific region.
- Showing final state on bookings. A modification message will show only the modified part of the booking. Each partner should record each notification message to effectively build the final state in his side for each booking.

## 6 MODIFIED BOOKING NOTIFICATION

Should any amendment be made to the booking, BMS will only send that part of the booking that has been modified, that is, the part that should be notified.

It will be done as follows:

Each reservation has a reference number which is in the tag Reference:

```
<Reference>
  <FileNumber>269226</FileNumber>
  <IncomingOffice>42</IncomingOffice>
  <RefNumber>42-269226-92</RefNumber>
</Reference>
```

And matches with the combination made up of IncomingOffice and FileNumber, in this case "42-269226". Last number is a control digit, its used as a security measure on electronic payments.

Apart from that, each service included in a reservation has an id number which appears in the tag "OrderNumber" within "Room".

```
<Room code="TPL">
  ...
  <Status>BOOKING</Status>
  <OrderNumber>1</OrderNumber>
</Room>
```

Each service has an id number "Status" which indicated whether the service has been modified, cancelled or is new ("MODIFIED", "CANCELED", "BOOKING").

Whenever a new booking is notified for the first time, a full booking is sent.

When a booking is amended, only the made amendment is notified.

If a service has been modified, only the amended service will be notified.

```
<BMSBookingNotifRQ xmlns="http://messages.bms.hotelbeds.com"
echoToken="cJ1b0UBTMA+00hQqM8DU8A==" timestamp="2009-03-24
01:54:46.606">
  <Establishment xmlns="http://types.messages.bms.hotelbeds.com"
code="195">
    <Reference>
      <FileNumber>534736</FileNumber>
      <IncomingOffice>43</IncomingOffice>
      <RefNumber>43-534736-32</RefNumber>
    </Reference>
    <Status>MODIFIED</Status>
    <CreationDate date="20090316"/>
    <CheckInDate date="20090327"/>
    <LOS>9</LOS>
    <EstablishmentInfo>
      <Code>0000132411</Code>
      <Name>XXXX *****</Name>
    </EstablishmentInfo>
    <RoomList>
      <Room code="DBL">
        <Type>DOUBLE</Type>
        <BoardTypeCode>HB</BoardTypeCode>
        <BoardType>HALF BOARD</BoardType>
        <CharacteristicCode>ST</CharacteristicCode>
        <Characteristic>STANDARD</Characteristic>
        <Remarks> *** Free Text *** </Remarks>
        <BaseBoardTypeCode>HB</BaseBoardTypeCode>
        <BaseBoardType>HALF BOARD</BaseBoardType>
        <Occupancy>
          <AdultCount>2</AdultCount>
          <ChildCount>0</ChildCount>
          <BabyCount>0</BabyCount>
        </Occupancy>
        <Contract>
          <Code>30564</Code>
          <Name>CG-IN928</Name>
          <Description>Free Sell</Description>
        </Contract>
        <DateFrom date="20090403"/>
        <DateTo date="20090405"/>
      </Room>
    </RoomList>
  </Establishment>
</BMSBookingNotifRQ>
```

```
<RateList>
  <Rate code="**">
    <DateFrom date="20090403"/>
    <DateTo date="20090405"/>
    <Amount>98.42</Amount>
  </Rate>
</RateList>
<GuaranteeList/>
<SupplementList/>
<DiscountList/>
<NumberOfUnits>1</NumberOfUnits>
<Status>MODIFIED</Status>
<OrderNumber>1</OrderNumber>
</Room>
<Room code="DBL">
  <Type>DOUBLE</Type>
  <BoardTypeCode>HB</BoardTypeCode>
  <BoardType>HALF BOARD</BoardType>
  <CharacteristicCode>ST</CharacteristicCode>
  <Characteristic>STANDARD</Characteristic>
  <Remarks> *** free text *** </Remarks>
  <BaseBoardTypeCode>HB</BaseBoardTypeCode>
  <BaseBoardType>HALF BOARD</BaseBoardType>
  <Occupancy>
    <AdultCount>2</AdultCount>
    <ChildCount>0</ChildCount>
    <BabyCount>0</BabyCount>
  </Occupancy>
  <Contract>
    <Code>30564</Code>
    <Name>CG-IN928</Name>
    <Description>FROM ALLOCATION</Description>
  </Contract>
  <DateFrom date="20090327"/>
  <DateTo date="20090329"/>
  <RateList>
    <Rate code="**">
      <DateFrom date="20090327"/>
      <DateTo date="20090329"/>
      <Description>CG-IN928</Description>
```

```

        </Rate>
    </RateList>
    <GuaranteeList/>
    <SupplementList/>
    <DiscountList/>
    <NumberOfUnits>1</NumberOfUnits>
    <Status>BOOKING</Status>
    <OrderNumber>1</OrderNumber>
</Room>
</RoomList>
<Holder>HEREDERO GASCUE&#209;A, VICTORIO</Holder>
</Establishment>
<FreeList/>
<TTOO xmlns="http://types.messages.bms.hotelbeds.com"
code="44746">
    <market>SPAIN </market>
    <branch>600</branch>
    <BranchSalesName>HOTELOPIA ESPA&#209;A</BranchSalesName>
</TTOO>
<ProviderInfoList/>
</BMSBookingNotifRQ>

```

If there are two tags in the RoomList Room, but the OrderNumber is the same, it is the same service. One of them should have its Status as MODIFIED, this is what the service was like before the amendment (state of the room before the change). The other tag Room has a status BOOKING, this is what the service is like after the amendment (state of the room after the change).

In the same way, if one service is cancelled, there will be two room tags in the RoomList structure (with the same orderNumber). One of them should have the Status MODIFIED, showing the state of the room before the cancellation. The other tag Room will have the CANCELED status, showing the state of the room after the change (cancellation).

Should there be no amendment made, only a new service added, the new service will be sent as follows:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<BMSBookingNotifRQ xmlns="http://messages.bms.hotelbeds.com"
echoToken="qO2OYbPd3/uR/ZoOde3mYg==" timestamp="2009-03-25
03:31:58.282">
    <Establishment xmlns="http://types.messages.bms.hotelbeds.com"
code="447">

```

```
<Reference>
  <FileNumber>269226</FileNumber>
  <IncomingOffice>42</IncomingOffice>
  <RefNumber>42-269226-92</RefNumber>
</Reference>
<Status>MODIFIED</Status>
<CreationDate date="20090324"/>
<CheckInDate date="20090713"/>
<LOS>7</LOS>
<EstablishmentInfo>
  <Code>0000076893</Code>
  <Name>HOTEL MERC&#201;</Name>
</EstablishmentInfo>
<RoomList>
  <Room code="TPL">
    <Type>TRIPLE</Type>
    <BoardTypeCode>FB</BoardTypeCode>
    <BoardType>FULL BOARD</BoardType>
    <CharacteristicCode>ST</CharacteristicCode>
    <Characteristic>STANDARD</Characteristic>
    <BaseBoardTypeCode>BB</BaseBoardTypeCode>
    <BaseBoardType>BED AND BREAKFAST</BaseBoardType>
    <Occupancy>
      <AdultCount>2</AdultCount>
      <ChildCount>1</ChildCount>
      <BabyCount>0</BabyCount>
      <GuestList>
        <Customer type="AD">
          <Age>30</Age>
          <Name>Birgit</Name>
          <LastName>Kiilerich</LastName>
        </Customer>
      </GuestList>
    </Occupancy>
  </Room>
</RoomList>
<Contract>
  <Code>20131</Code>
  <Name>SWS-TODOS</Name>
  <Description>Free Sell</Description>
</Contract>
<DateFrom date="20090713"/>
```

```

    <DateTo date="20090720"/>
    <RateList>
      <Rate code="HBD">
        <DateFrom date="20090713"/>
        <DateTo date="20090720"/>
        <Description>HOTELBEDS</Description>
      </Rate>
    </RateList>
    <GuaranteeList/>
    <SupplementList>
      <Supplement>
        <Description>BOARD</Description>
        <AdultNumber>2</AdultNumber>
        <ChildrenNumber>1</ChildrenNumber>
      </Supplement>
      <Supplement>
        <Description>CHILD</Description>
        <AdultNumber>0</AdultNumber>
        <ChildrenNumber>1</ChildrenNumber>
      </Supplement>
    </SupplementList>
    <DiscountList/>
    <NumberOfUnits>1</NumberOfUnits>
    <Status>BOOKING</Status>
    <OrderNumber>1</OrderNumber>
  </Room>
</RoomList>
<Holder>BIRGIT KIILERICH</Holder>
</Establishment>
<FreeList/>
<TTOO xmlns="http://types.messages.bms.hotelbeds.com"
code="11876">
  <market>DENMARK </market>
  <branch>1</branch>
  <BranchSalesName>NAVELAR - DK</BranchSalesName>
</TTOO>
<ProviderInfoList/>
</BMSBookingNotifRQ>

```



## 7 CANCELED BOOKING NOTIFICATION:

In case of cancellation of the reservation, booking status should be "CANCELED" and each service will be send with its status set to "CANCELED".

Booking Cancellation notification doesn't inform much data as other notifications, for instance, doesn't contain any "GuestList", and therefore won't be indicated paxes names or ages.

An example can be seen below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<BMSBookingNotifRQ xmlns="http://messages.bms.hotelbeds.com"
echoToken="ctYN+e3ZQD537WpkScSdtA==" timestamp="2009-07-04
11:35:09.631">
  <Establishment xmlns="http://types.messages.bms.hotelbeds.com"
code="13820">
    <Reference>
      <FileNumber>671425</FileNumber>
      <IncomingOffice>1</IncomingOffice>
      <RefNumber>1-671425-53</RefNumber>
    </Reference>
    <Status>CANCELED</Status>
    <CreationDate date="20090702"/>
    <CheckInDate date="20090710"/>
    <LOS>2</LOS>
    <EstablishmentInfo>
      <Code>0000132411</Code>
      <Name>PORTAL INTERACTIV</Name>
    </EstablishmentInfo>
    <RoomList>
      <Room code="DBL">
        <Type>DOUBLE</Type>
        <BoardTypeCode>HB</BoardTypeCode>
        <BoardType>HALF BOARD</BoardType>
        <CharacteristicCode>ST</CharacteristicCode>
        <Characteristic>STANDARD</Characteristic>
        <Remarks>Llegada tarde/Late Arrival - </Remarks>
        <BaseBoardTypeCode>HB</BaseBoardTypeCode>
        <BaseBoardType>HALF BOARD</BaseBoardType>
        <Occupancy>
```

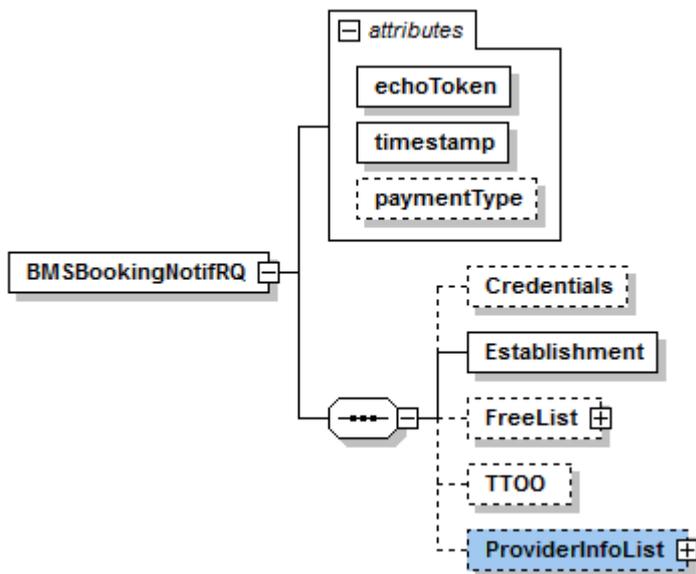
```

        <AdultCount>2</AdultCount>
        <ChildCount>0</ChildCount>
        <BabyCount>0</BabyCount>
    </Occupancy>
    <Contract>
        <Code>41325</Code>
        <Name>CGM-LATINO</Name>
        <Description>Free Sell</Description>
    </Contract>
    <DateFrom date="20090710"/>
    <DateTo date="20090712"/>
    <RateList>
        <Rate code="**">
            <DateFrom date="20090710"/>
            <DateTo date="20090712"/>
            <Description>CGM-LATINO</Description>
        </Rate>
    </RateList>
    <GuaranteeList/>
    <SupplementList/>
    <DiscountList/>
    <NumberOfUnits>1</NumberOfUnits>
    <Status>CANCELED</Status>
    <OrderNumber>1</OrderNumber>
    </Room>
</RoomList>
<Holder>JUAN ESCOBAR LUNA</Holder>
</Establishment>
<FreeList/>
<TTOO xmlns="http://types.messages.bms.hotelbeds.com"
code="27973">
    <market>SPAIN </market>
    <branch>2</branch>
    <BranchSalesName>ISBILYA TRAVEL - CENTRAL</BranchSalesName>
</TTOO>
<ProviderInfoList/>
</BMSBookingNotifRQ>

```

## 8 BMS RQ XML FORMAT

### BMSBookingNotifRQ



**BMSBookingNotifRQ/echotoken: (mandatory element)**

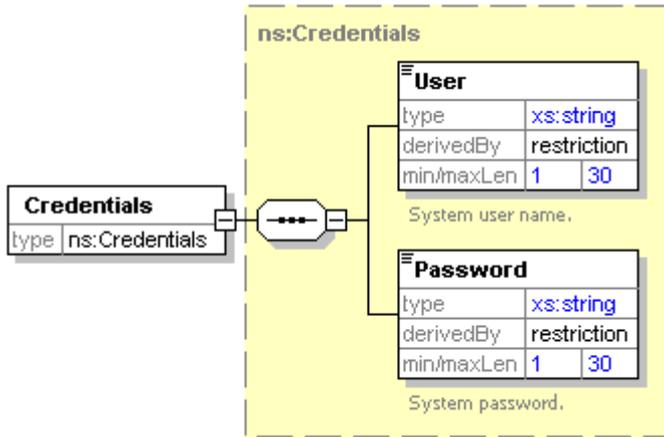
**BMSBookingNotifRQ/paymentType: (optional element)**

When the payment type of a booking is direct payment at hotel, will be informed with the characteristic PaymentType="Liberate". For bookings with agency payment this characteristic will not appear.

Unique key identifying booking, it should be returned unmodified on Response.

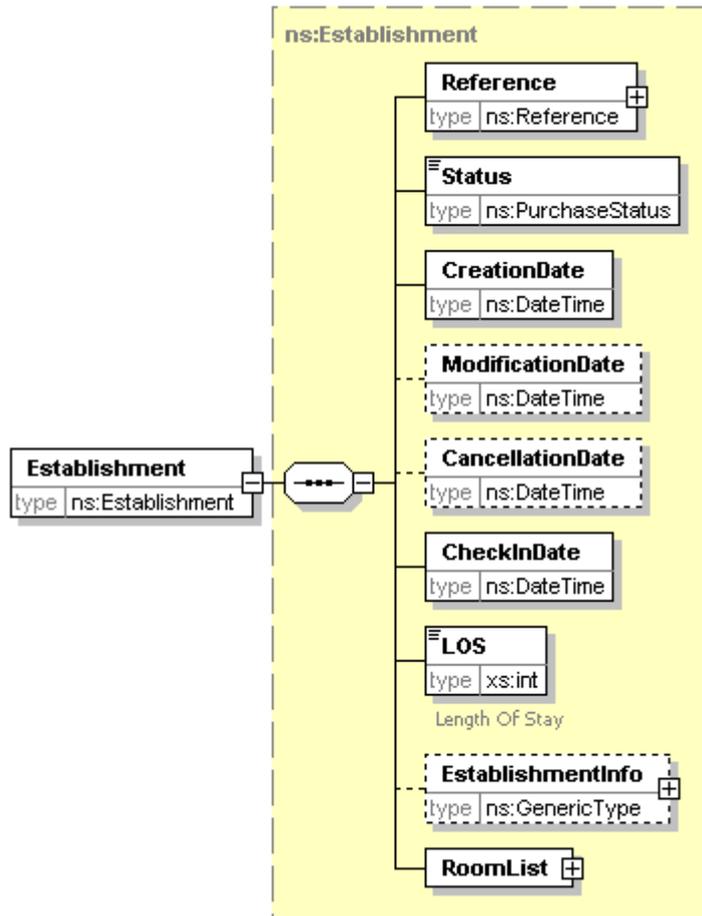
**BMSBookingNotifRQ/Credentials: (optional element)**

User name and password to access the provider’s system.



**BMSBookingNotifRQ/Establishment: (mandatory element)**

Information concerning the hotel, room types, dates, the duration of the stay and status of the booking.



```

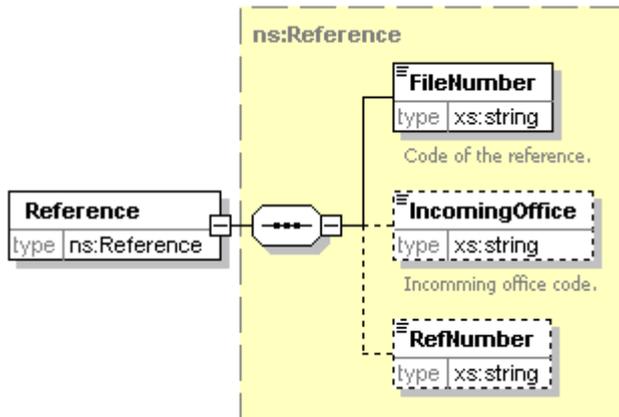
<xs:complexType name="Establishment">
  <xs:sequence>
    ...
  </xs:sequence>
  <xs:attribute name="code" type="xs:string" use="optional"/>
</xs:complexType>

```

\* The hotel code appears in the attribute "code".

Example: `<Establishment xmlns="http://types.messages.bms.hotelbeds.com" code="13820">`

Establishment/Reference: (mandatory element)



**Reference/FileNumber:** identification number of the booking in Hotelbeds' system (mandatory elements).

**Reference/IncomingOffice:** code of the office that handles the booking. (mandatory element)

**Reference/RefNumber:** Booking reference. It is made up composing three digits, first of them is Incoming Office, second is FileNumber and last a Control Digit. (mandatory element)

**Establishment/Status:** (mandatory element)

Indicates the status of the booking. It could be: 'BOOKING', 'MODIFIED', 'FORWARDING' or 'CANCELED'

**Establishment/CreationDate :** (mandatory element)

Indicates the date when the booking was made.

**Establishment/ModificationDate :** (optional element)

Indicates the date when the booking was modified.

**Establishment/CancellationDate :** (optional element)

Indicates the date when the booking was cancelled.

**Establishment/CheckInDate :** (mandatory element)

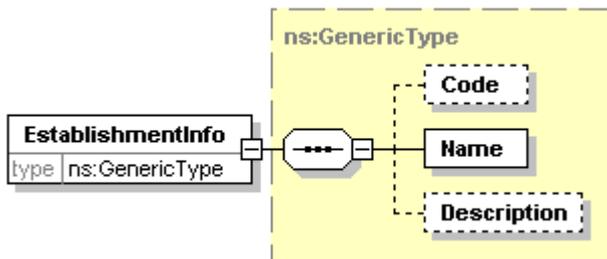
Indicates the arrival date.

**Establishment/LOS : (mandatory element)**

Indicates length of stay.

**Establishment/EstablishmentInfo : (optional element)**

Information concerning the provider.



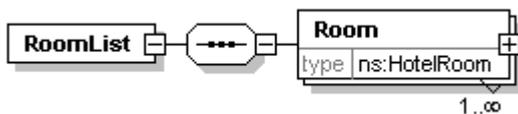
**EstablishmentInfo/Code:** provider’s code.

**EstablishmentInfo/Name:** provider’s name.

**EstablishmentInfo/Description:** provider’s description.

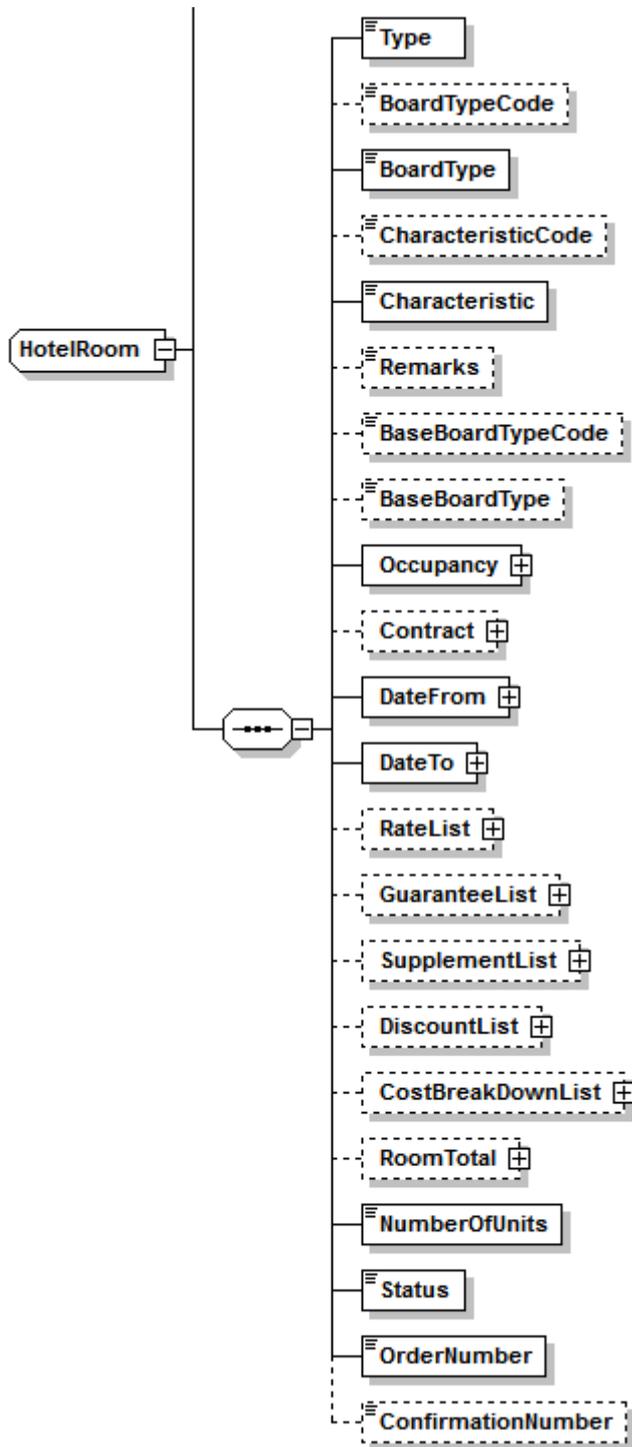
**Establishment/RoomList : (mandatory element)**

Room list of the booking. There is no limit to the number of rooms that can be booked in one booking. Each tag Room has an id room associated.



**RoomList/Room : (mandatory element)**

Information concerning a booked room, pax number, booking dates, contract, rate list, guarantees, supplements and discounts.



```
<xs:complexType name="HotelRoom">
```

```

        <xs:sequence>
            ...
        </xs:sequence>
        <xs:attribute name="code" type="xs:string" use="optional"/>
    </xs:complexType>

```

Room code is in attribute "code".

Each room shows its Status, it could be: "BOOKING", "MODIFIED" or "CANCELED".

Service identifier is "OrderNumber".

**Room/Type : (mandatory element)**

Shows room type.

**Room/BoardTypeCode :**

Code for the Boardtype.

**Room/BoardType :**

Contains the description of the board.

**Room/CharacteristicCode :**

Indicates room characteristic code.

**Room/Characteristic :**

Contains room characteristic.

**Room/Remarks :**

Includes observations of the booking ie. request of a cot.

**Room/BaseBoardTypeCode :**

Base board type code for the booking (Base Board of the contract).

**Room/BaseBoardType :**

Description of the base board of the booking.

**Room/Occupancy :**

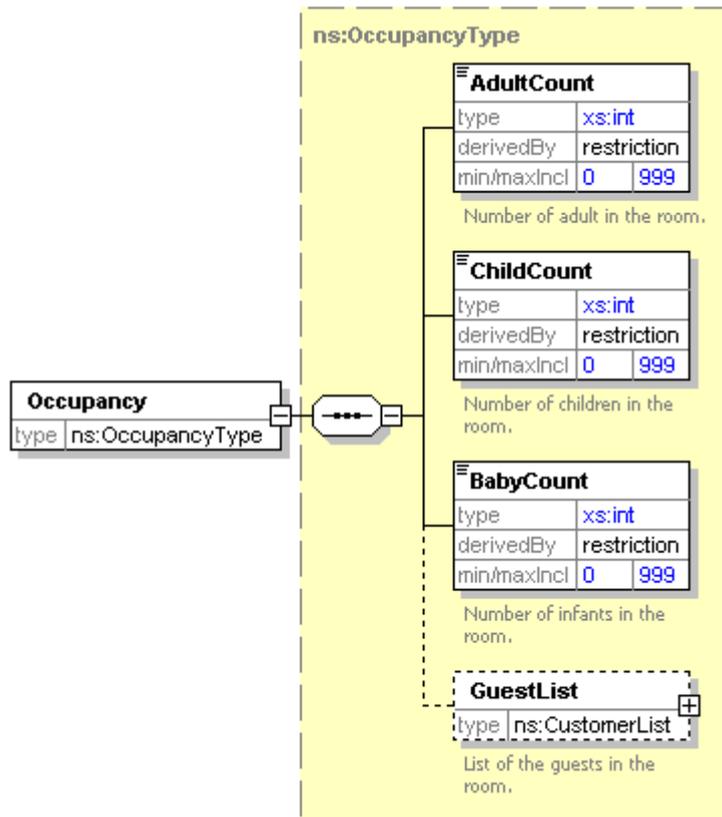
**Occupancy of the room. (mandatory element)**

**Room/ConfirmationNumber :**

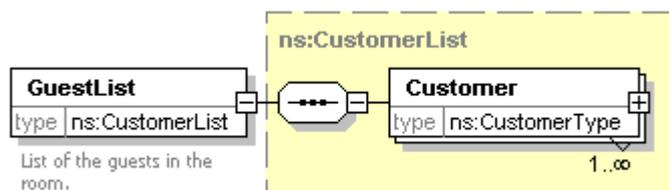
Optional tag that is informed in the modifications/cancellations in the case the Channel Manager has informed it in the BMSBookingNotifRS.



Information concerning pax in the booking

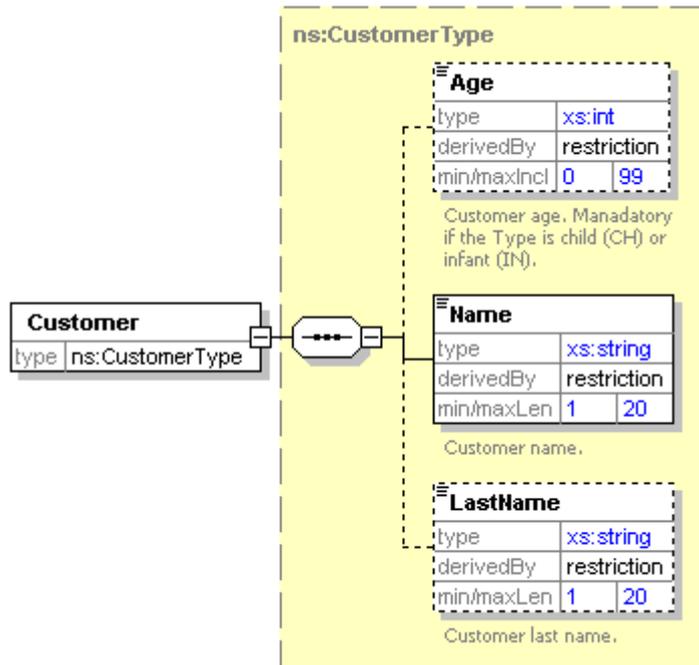


**Room/Occupancy/GuestList :**



**GuestList/Customer: (mandatory element)**

Information about a passenger in particular.



```

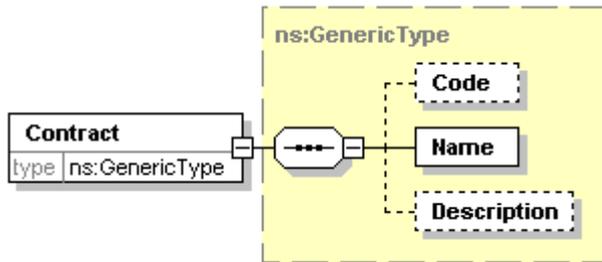
<xs:complexType name="CustomerType">
  <xs:sequence>
    ...
  </xs:sequence>
  <xs:attribute name="type" type="xs:string" use="required">
    <xs:annotation>
      <xs:documentation>Type of customer.'LD' for
booking leader, 'AD' for adult, 'CH' for child, 'IN' for
infant.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>

```

\* The type of pax is determined by 'type'. Pax tagged as LD is who made the booking and is considered to be the owner of the booking.

**Room/Contract:**

Contains contract number the reservation derives from which is made up of:



**Contract/Code:** depending on the length of stay a booking can have different contracts associated. Should there be more than 1 contract associated, the following make will be used to separate different contracts“|”.

**Contract/Name:** contains the names of all the contracts associated.

**Contract/Description:** contains a short description of each contract i.e. markets where contracts are applied to, etc.

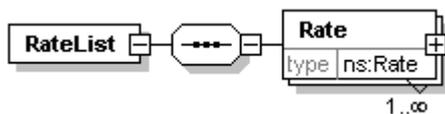
**Room/DateFrom :**

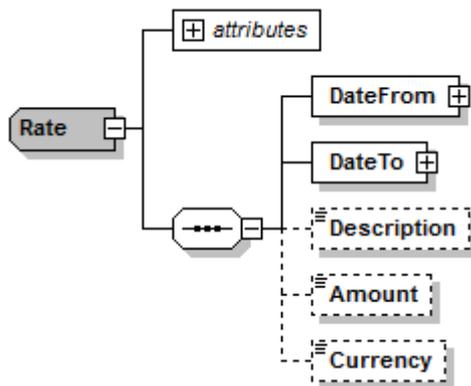
Arrival date of the booking.

**Room/DateTo :**

Departure date of the booking.

**Room/RateList :**





```

<xs:complexType name="Rate">
  <xs:sequence>
    ...
  </xs:sequence>
  <xs:attribute name="code" type="xs:string" use="optional"/>
</xs:complexType>

```

\*The rate name is tagged as “code”.

**Rate/DateFrom:** date from which the rate is applied.

**Rate/DateTo:** date until which the rate is applied.

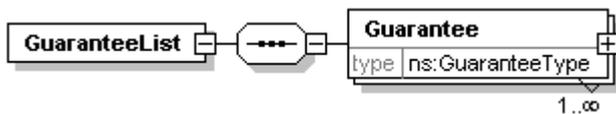
**Rate/Description:** rate description.

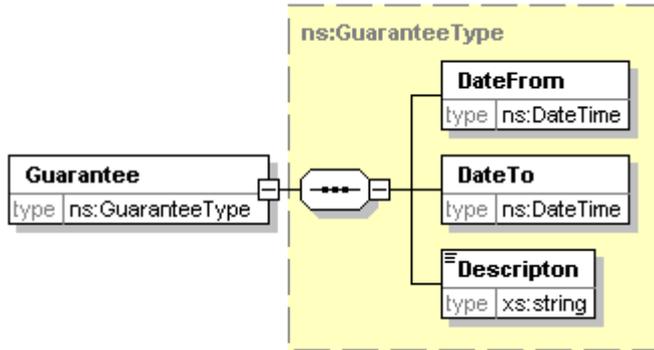
**Rate/Amount:** cost for the rate.

**Rate/Currency:** currency of the rate.

If the rate used is a specific rate the amount tag won’t appear, however if the rate used is a free rate (NRATE) the Description tag won’t appear

**Room/GuaranteeList:**





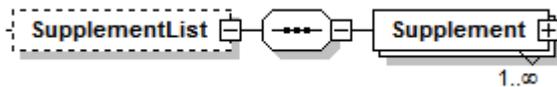
The list of guarantees associated with a room. Contains the following parameters:

**Guarantee/DateFrom:** date from which the guarantee is applied.

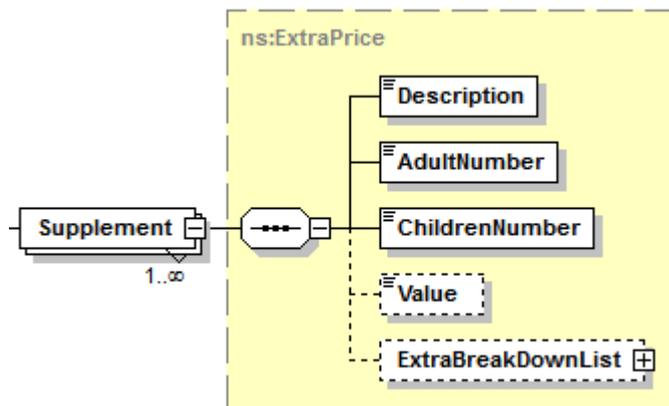
**Guarantee/DateTo:** date until which the guarantee is applied.

**Guarantee/Description:** description of the guarantee.

**Room/SupplementList:**



**SupplementList/Supplement:**



The list of supplements associated with a room. Contains the following parameters:

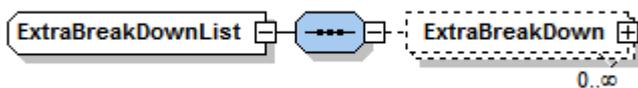
**Supplement/Description:** description of the supplement.

**Supplement/AdultNumber:** number of adults for which the supplement it's applied.

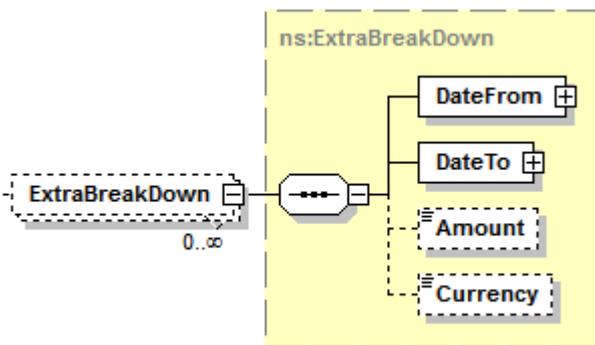
**Supplement/ChildrenNumber:** number of childs for which the supplement it's applied.

**Supplement/Value:** the value of the supplement.

**Supplement/ExtraBreakDownList:**



**ExtraBreakDownList/ExtraBreakDown:**



The list of breakdowns associated with a supplement. Contains the following parameters:

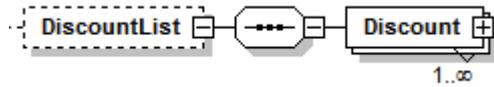
**ExtraBreakDown/DateFrom:** date when the extrabreakdown starts applying.

**ExtraBreakDown/DateTo:** date when the extrabreakdown ends applying.

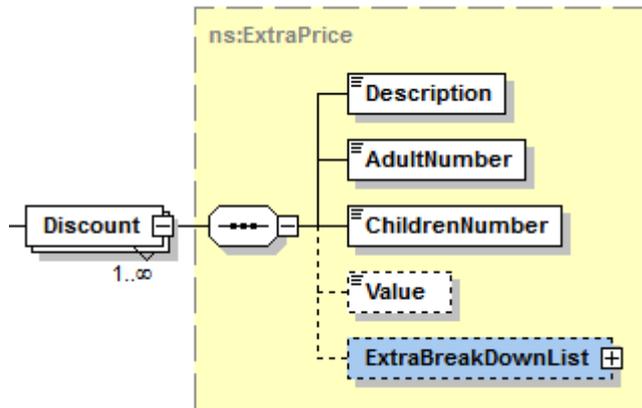
**ExtraBreakDown/Amount:** amount of the extrabreakdown.

**ExtraBreakDown/Description:** description of the extrabreakdown.

**Room/DiscountList:**



**DiscountList/Discount:**



The list of discounts associated with a room. Contains the following parameters:

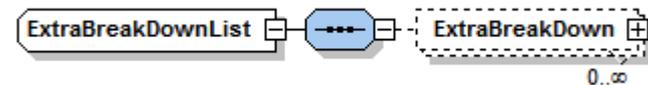
**Discount/Description:** description of the discount.

**Discount/AdultNumber:** number of adults for which the discount it's applied.

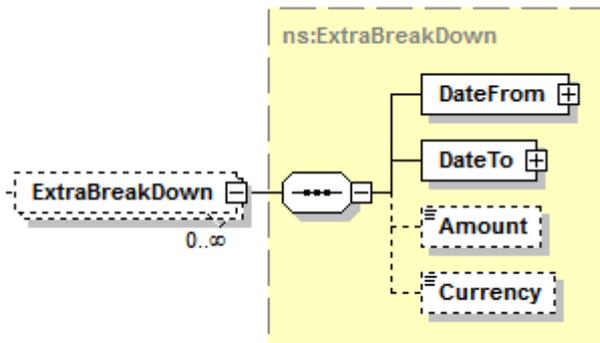
**Discount/ChildrenNumber:** number of childs for which the discount it's applied..

**Discount/Value:** description of the discount.

**Discount/ExtraBreakDownList:**



**ExtraBreakDownList/ExtraBreakDown:**



The list of breakdowns associated with a dicount. Contains the following parameters:

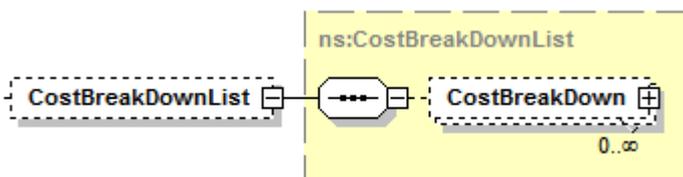
**ExtraBreakDown/DateFrom:** date when the extrabreakdown starts applying.

**ExtraBreakDown/DateTo:** date when the extrabreakdown ends applying.

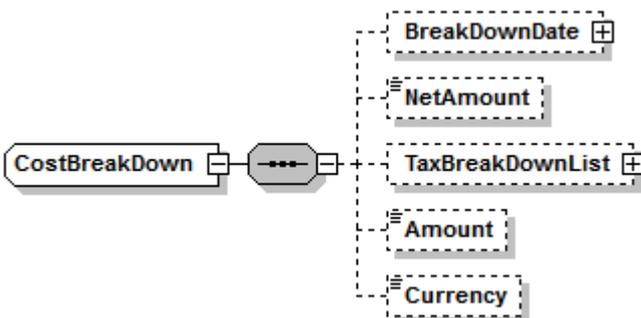
**ExtraBreakDown/Amount:** amount of the extrabreakdown.

**ExtraBreakDown/Description:** description of the extrabreakdown.

**Room/CostBreakDownList:**



**CostBreakDownList/CostBreakDown:**

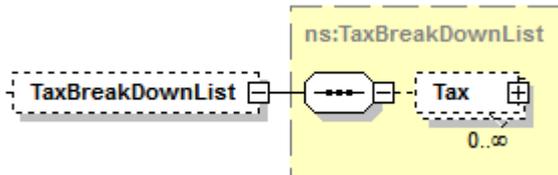


The list of costbreakdowns associated with a room. Contains the following parameters:

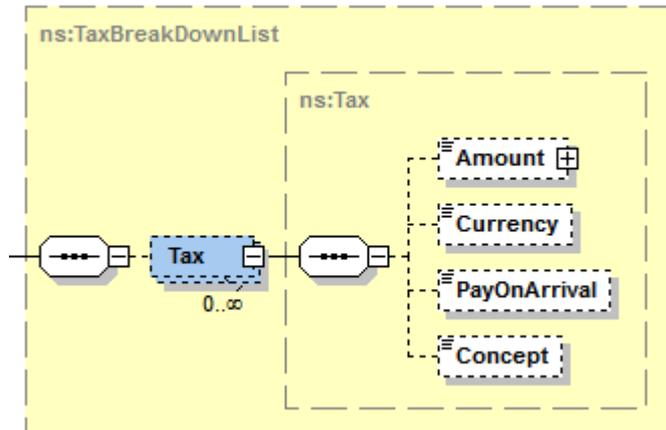
**CostBreakDown/BreakDownDate:** the date for the breakdown.

**CostBreakDown/NetAmount:** the net amount of the breakdown.

**CostBreakDown/TaxBreakDownList:**

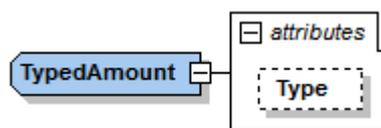


**TaxBreakDownList/TaxBreakDown:**



The list of taxbreakdowns associated with a costbreakdown. Contains the following parameters:

**Tax/Amount:**



The amount of the taxbreakdown. Contains the following parameters:

**TypedAmount/Type**: amount type. Can be Percent or Amount.

**Tax/Currency**: currency of the taxbreakdown.

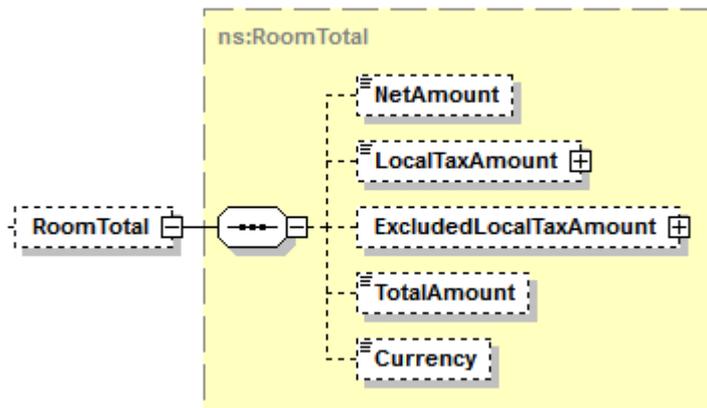
**Tax/PayOnArrival**: indicates if the amount has to be paid at the hotel.

**Tax/Concept**: concept of the taxbreakdown.

**CostBreakDown/Amount**: total amount of the breakdown.

**CostBreakDown/Currency**: currency of the breakdown

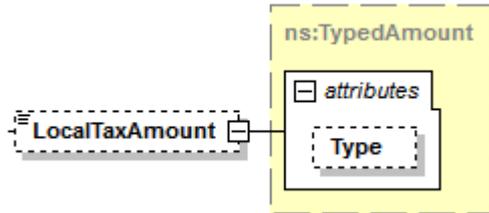
**Room/RoomTotal**:



The total for the given room. Contains the following parameters:

**RoomTotal/NetAmount**: net amount of the room.

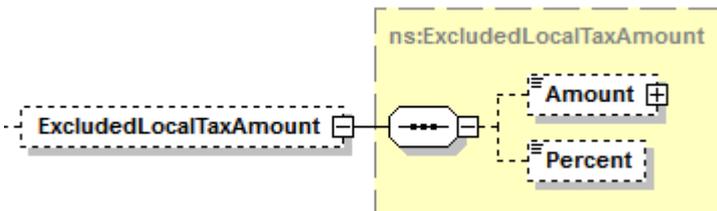
**RoomTotal/LocalTaxAmount**:



The local tax amount of the roomtotal. Contains the following parameters:

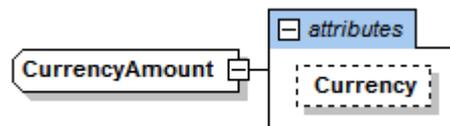
**LocalTaxAmount/Type**: indicates the type of the localtaxamount. It can be Percent or Amount.

**RoomTotal/ExcludedLocalTaxAmount**:



The excluded local tax amount of the roomtotal. Contains the following parameters:

**ExcludedLocalTaxAmount/Amount**:



The amount of the excludedlocaltaxamount. Contains the following parameters:

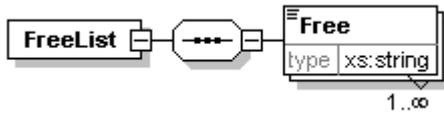
**CurrencyAmount/Currency**: Indicates the currency of the amount.

**ExcludedLocalTaxAmount/Percent**: Indicates the percent of the excludedlocaltaxamount

**RoomTotal/TotalAmount:** total amount of the room.

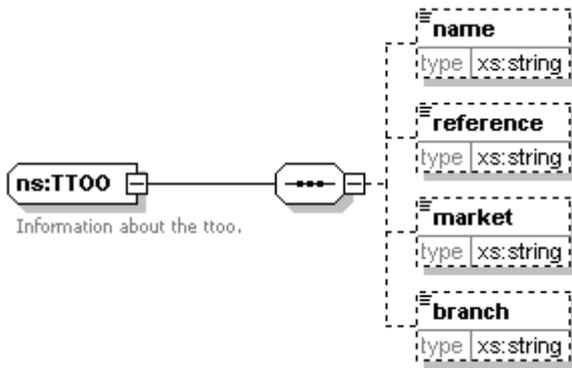
**RoomTotal/Currency:** currency of the room total.

**BMSBookingNotifRQ/FreeList :**



This element is included in the “frees” list. A chain of characters specifies what the frees consist of.

**BMSBookingNotifRQ/TT00 :**



A tour operator is defined through the following parameters:

**TT00/Name:** name of the tour operator.

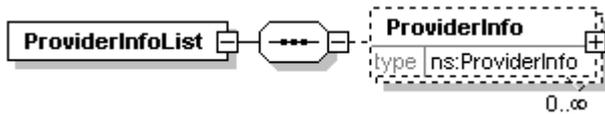
**TT00/Reference:** this code identifies the tour operator.

**TT00/Market:** indicates the market where the tour operator works.

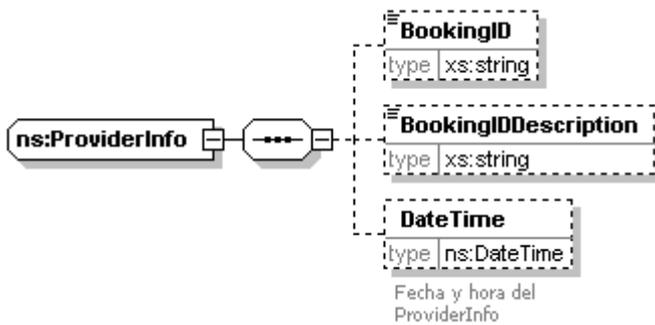
**TT00/Branch:** indicates tour operator’s office which made this booking.

**BMSBookingNotifRQ/ProviderInfoList :**

Id number of the booking in the provider’s system.



**ProviderInfoList/ProviderInfo :**



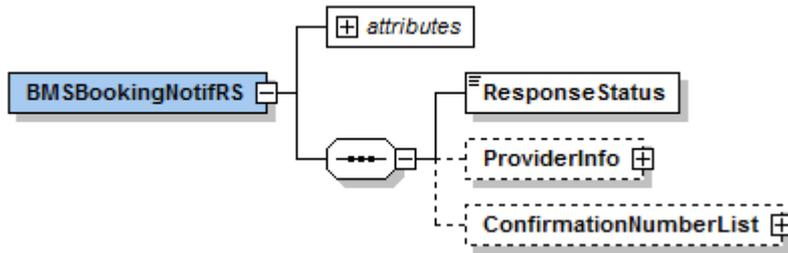
Presents the information of the tour operator about the reservation.

**ProviderInfo/Booking ID:** Id number of the booking in the third party’s system

**ProviderInfo/BookingIDDescription:** Description of the booking id.

**ProviderInfo/DateTime:** Date and time when the booking notification was received by the provider.

## 9 BMS RS XML FORMAT



**BMSBookingNotifRS/echotoken:** (mandatory element)

Unique key identifying booking, it should contain same data as on Request.

**BMSBookingNotifRS/ResponseStatus:**

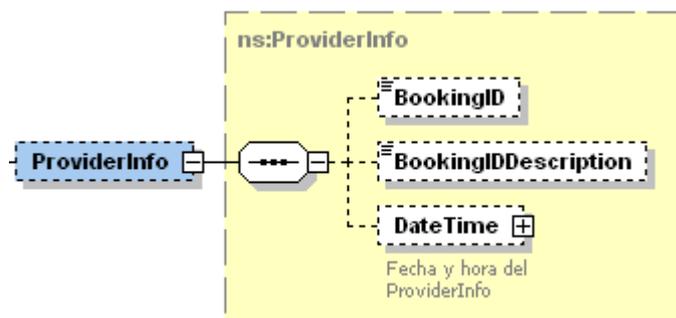
This parameter indicates whether the booking notification was received/processed correctly or if there were any problems.

There are three possible values for this parameter:

- PROCESSED
- NOT\_PROCESSED
- ERROR

An explanation of this values can be found on the section 5.5 of this document.

**BMSBookingNotifRS/ProviderInfo:**



Presents the provider's information about the reservation

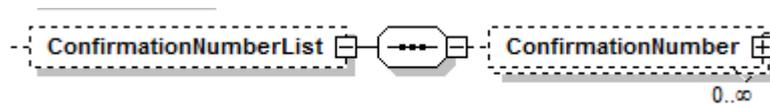
**Booking ID:** Id number of the booking in the provider’s system.

**ProviderInfo/BookingID:** The provider id for the booking

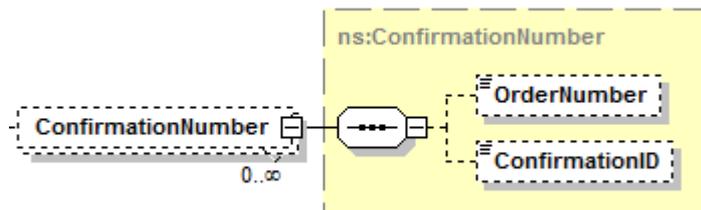
**ProviderInfo/BookingIDDescription:** Description of the above id number.

**ProviderInfo/DateTime:** Date and time of when the booking notification was received by the provider.

**BMSBookingNotifRS/ConfirmationNumberList:**



**ConfirmationNumberList/ConfirmationNumber:**



**ConfirmationNumber/OrderNumber:** Identifier of the service. You can get it from the `<OrderNumber>` tag in the BMSBookingNotifRQ

**ConfirmationNumber/ConfirmationID:** Confirmation ID from the hotel.

The confirmationNumber is only used by the hotels who need to send the confirmation to Hotelbeds.

## 10 FAQ

This part consists of most frequently asked questions:

1. ¿Does a provider need a URL address in a test environment of Hotelbeds and log in details?

A provider does not need to be connected to Hotelbeds. It will be Hotelbeds that will send test bookings via HTTP (or HTTPS) protocol and by POST to an address given by the provider.

2. How can be recovered the xml booking notificacion?

The parameter is called BMS\_XML.

3. ¿Does this service send one XML message for all the bookings or does it send a message per each reservation?

The system will generate an XML query per each booking. Once it has been completed all XML messages of pending bookings will be sent simultaneously.

4. ¿ What protocol is used to send the information?

The protocol is HTTP (or HTTPS) and it is sent through a POST method.

5. ¿Does Hotelbeds send a message when a booking has been amended or cancelled?

Yes we do. You can check whether an amendment or a cancellation was sent in an element called "Establishment". An element "Status" indicates "ModificationDate" or "CancellationDate". This info can be obtained from BMS\_BookingNotifRQ.xsd.

6. ¿What is the difference between BoardType y BaseBoardType? ¿Which one is associated with a booking?

**<BoardTypeCode>** contains board type code, **<BoardType>** contains the description of the board type. **<BaseBoardType>** represents base board type of the contract. If BoardTypeCode and BaseBoardTypeCode are different, it will mean there is a BOARD supplement.

7. When tests are about to start would you give us access to a web site where we could make test bookings or should we ask you to make them for us?

A provider cannot make test bookings. There is a tool which lets us generate test bookings which makes bookings with valid data. This way you can specify a number of hotels, types of rooms or rates.

8. If a hotel is changed in a booking, will the provider receive a booking cancellation message and a new booking notification or a message with an amendment indicating a new hotel?

A message with a booking cancellation and then another message with a new hotel would be sent.

9. If LOS element has a value of 10 and within RoomList element there can be various rooms will DateFrom and DateTo be the same for all rooms? If a total length of stay is 10 days but each room has different dates?

The LOS tag indicates the total length of stay. Let's suppose that there is a booking with 3 rooms and the following dates:

Room1:

From 2008-06-01

Until 2008-06-03 (2 nights)

Room2:

From 2008-06-02

Until 2008-06-08 (6 nights)

Room3:

From 2008-06-03

Until 2008-06-05 (2 nights)

LOS will be calculated by selecting the earliest date and the latest date that is from 2012-06-01 until 2012-06-08 (7 nights), therefore, LOS = 7.

10. Are the codes of the rates, room types, hotels and credit cards that you use created by Hotelbeds? How can we get them?

All codes have been created by Hotelbeds. All codes used in a contract can be get from our extranet or through our HSI tool (ContractDetail operation)

11. Does the booking message, <EstablishmentInfo/Code> Tag, indicates hotel code?

No, it does not. EstablishmentInfo -> Code indicates provider's code. Hotel's code is given in "code" attribute of "Establishment" tag.

12. Can multiple room types be indicated in one message in RoomList element? Would there be used a global reference number and separate reference number to identify each room a multiple booking is made up of?

There can be multiple room types indicated in RoomList in one message. Booking reference number is <FileNumber>. Room types do not have any id number. If a booking is cancelled the cancellation covers the entire booking. In order to cancel one room, the booking can be amended, in this case <STATUS> tag will contain "MODIFIED", and the room amended will be identified by the OrderNumber tag.

13. Is there a maximum number for rooms to be booked per reservation?

No, there is no maximum number per booking established.

14. In a query (BMS\_BookingNotifRQ), in the element CustomerType the following values can be indicated AD, CH, IN, or LD (Booking Leader) for the customer. Is Booking Leader in charge of the group?

The CustomerType "LD" is in charge of the group and is used to indicate who made the booking.

15. How would a payment method be indicated? (voucher or credit card) In case of payment by credit card, how the details of payment would be specified?

If the reservation have to be paid in the hotel we indicate it in the BMSBookingNotifRQ tag, with the characteristic PaymentType="Liberate".

The credit card data will be sent through fax to the hotel directly.

16. In (CreationDate date, CheckInDate date, DateFrom date, etc) is only the date sent or can the exact hour be specified too?

For arrival and departure date, the exact time will not be included in the message. The hour and date for sending the XML message booking notification will be given with the accuracy of milliseconds (timestamp, an attribute of the BMSBookingNotifRQ tag). The "ProviderInfo" tag it's only on minutes .

17. What does ProviderInfo stands for?

In ProviderInfo tag you can return us the booking id you are using in your system. When this info is set up, future notifications about the same booking will be accompanied by this ProviderInfo tag, which will show the booking id in order to allocate that booking in your system.

18. Where you can find the control digit?

Control digit required for (E-billing) in bookings sent to your system. As per the following xml example it would be **51-650374-18**

The following explains what each number stands for:

- Destination code: 51
- Booking Ref: 650374
- **Control digit: 18**

XML Sample

<Reference>

<FileNumber>650374</FileNumber>

<IncomingOffice>51</IncomingOffice>

<RefNumber>51-650374-18</RefNumber>

</Reference>