

Changed occupancy feature

Please note that our V4 system returns rates with a **changed occupancy**. The changed occupancy options will appear any time the system creates a rate that does not match the exact searched criteria. You must take this into consideration and generalize the way you interpret these rates so that you can correctly pass the corresponding occupancy elements via XML in the confirmBooking request and successfully book rates with a changed occupancy.

The rates with a changed occupancy are one of the main characteristics starting from V3 and if you decide on filtering them out based on the assumption that they are not what the user asked for please note that this is not true: all these rates perfectly accommodate the occupancy/criteria searched by the user, otherwise the system would not return them as available. For example, please take into consideration that such a rate might be a rate that includes an extra bed in which a child or an adult from the requested occupancy is accommodated, or a rate in which the child age is greater than the range setup by the hotel, case in which that child will be accommodated as an adult, etc. Our system provides multiple choices for the user's search criteria.

In the following part we will explain on some actual examples how all the changed occupancy related elements must be interpreted and populated.

In latest versions the system will decide if a passenger is treated as a child or not, based on their age. **You can now pass as child age values from 1 to 21 included**, and the system, based on some child age restrictions that are customizable by the hotels for each roomType entered in the system will categorize the passengers as adults or children accordingly.

Therefore please see exemplified below some cases of changed occupancy rates.

Let assume we are searching for 1 room with the below occupancy

```
<room runno="0">
  <adultsCode>2</adultsCode>
  <children no="3">
    <child runno="0">2</child>
    <child runno="1">6</child>
    <child runno="2">12</child>
  </children>
  <rateBasis>-1</rateBasis>
  <passengerNationality>66</passengerNationality>
  <passengerCountryOfResidence>88</passengerCountryOfResidence>
</room>
```

The system might return as an option the below rate with a changed occupancy:

```
<roomType runno="0" roomtypecode="165902">
  <name>TWO BEDROOM SUITE</name>
  <twin>no</twin>
  <roomInfo>
    <maxOccupancy>6</maxOccupancy>
    <maxAdultWithChildren>4</maxAdultWithChildren>
    <minChildAge>0</minChildAge>
    <maxChildAge>11</maxChildAge>
    <maxAdult>4</maxAdult>
    <maxExtraBed>0</maxExtraBed>
    <maxChildren>5</maxChildren>
  </roomInfo>
  <specials count="1">
    <special runno="0">
```

```

        <type>stayXGetDiscountPromotion</type>
        <specialName>25 % Off</specialName>
        <discount>25</discount>
        <stay>1</stay>
    </special>
</specials>
<rateBases count="3">
    <rateBasis runno="0" id="0" description="Room Only">
        <validForOccupancy>
            <adults>3</adults> <!-- because the system identified the fact that this
roomType has a child age restriction of 1 to 11 it has transformed the 12 years old child in an additional adult-->
            <children>2</children>
            <childrenAges>2, 6</childrenAges>
            <extraBed>0</extraBed>
            <extraBedOccupant>adult</extraBedOccupant>
        </validForOccupancy>
        <changedOccupancy>3,2,2_6,0</changedOccupancy>
    </rateBasis>
</rateBases>

<!--Therefore in the confirmBooking request the occupancy will have to be passed as below:-->
<room runno="1">
    <roomTypeCode>165902</roomTypeCode>
    <selectedRateBasis>0</selectedRateBasis>
    <allocationDetails>.....</allocationDetails>
    <adultsCode>3</adultsCode> <!-- in case of a rate with changed occupancy this element will
be populated with the value returned in the validForOccupancy node in the adults element.-->
    <actualAdults>2</actualAdults> <!-- this element will always be populated with the initial
searched values-->
    <children no="2"> <!-- in case of a rate with changed occupancy this element will be popu-
lated with the value returned in the validForOccupancy node in the children and childrenAges elements.-->
        <child runno="0">2</child>
        <child runno="1">6</child>
    </children>
    <actualChildren no="3"> <!-- this node will always be populated with the initial searched val-
ues-->
        <actualChild runno="0">2</actualChild>
        <actualChild runno="1">6</actualChild>
        <actualChild runno="2">12</actualChild>
    </actualChildren>
    <extraBed>0</extraBed> <!-- in case of a rate with changed occupancy this element will be
populated with the value returned in the validForOccupancy node in the extrabed element.-->
    <passengerNationality>66</passengerNationality>
    <passengerCountryOfResidence>88</passengerCountryOfResidence>
    <passengersDetails>
        <passenger leading="yes">
            <salutation>147</salutation>
            <firstName>sdgasd</firstName>
            <lastName>sag</lastName>
        </passenger>
    </passengersDetails>
</room>

```

Let's take another example:

I have performed a search with the below occupancy:

```
<rooms no="2">
  <room runno="0">
    <adultsCode>4</adultsCode>
    <children no="0"></children>
    <rateBasis>-1</rateBasis>
    <passengerNationality>81</passengerNationality>
    <passengerCountryOfResidence>100</passengerCountryOfResidence>
  </room>
  <room runno="1">
    <adultsCode>2</adultsCode>
    <children no="2">
      <child runno="0">2</child>
      <child runno="1">5</child>
    </children>
    <rateBasis>-1</rateBasis>
    <passengerNationality>81</passengerNationality>
    <passengerCountryOfResidence>100</passengerCountryOfResidence>
  </room>
</rooms>
```

From the returned results I have selected and successfully blocked the following rates with changed occupancy:
- for room runno 0:

```
<rateBasis runno="1" id="1331" description="Breakfast">
<validForOccupancy>
<adults>3</adults>
<extraBed>1</extraBed>
<extraBedOccupant>adult</extraBedOccupant>
</validForOccupancy>
<changedOccupancy>3,0,,1</changedOccupancy>
<status>checked</status>
```

- for room runno 1:

```
<rateBasis runno="1" id="1331" description="Breakfast">
<validForOccupancy>
<adults>2</adults>
<children>1</children>
<childrenAges>2</childrenAges>
<extraBed>1</extraBed>
<extraBedOccupant>child</extraBedOccupant>
</validForOccupancy>
<changedOccupancy>2,1,2,1</changedOccupancy>
<status>checked</status>
```

For a successful booking the changed occupancy returned in the getRooms should have been passed in the confirmBooking as follows:

```
<room runno="0">
  <roomTypeCode>59574</roomTypeCode>
  <selectedRateBasis>1331</selectedRateBasis>
  <allocationDetails></allocationDetails>
```

```

        <adultsCode>3</adultsCode><!-- this element must be populated with the value of the
<adults> element from the validForOccupancy node-->
        <actualAdults>4</actualAdults> <!-- initial searched value-->
        <children no="0"></children> <!--this node be populated with the values of the <children> and
<childrenAges> elements from the validForOccupancy node-->
        <actualChildren no="0"></actualChildren><!-- initial searched value-->
        <extraBed>1</extraBed><!--this element must be populated with the value of the <extra-
Bed> element from the validForOccupancy node-->
        <passengerNationality>81</passengerNationality>
        <passengerCountryOfResidence>100</passengerCountryOfResidence>
        <passengersDetails>
</room>
.....
<room runno="1">
        <roomTypeCode>59574</roomTypeCode>
        <selectedRateBasis>1331</selectedRateBasis>
        <allocationDetails>.....=</allocationDetails>
        <adultsCode>2</adultsCode><!-- this element must be populated with the value of the
<adults> element from the validForOccupancy node-->
        <actualAdults>2</actualAdults><!-- initial searched value-->
        <children no="1"><!-- this node must be populated with the values of the <children> and
<childrenAges> elements from the validForOccupancy node-->
                <child runno="0">2</child>
        </children>
        <actualChildren no="2"> <!-- initial searched value-->
                <actualChild runno="0">2</actualChild>
                <actualChild runno="1">5</actualChild>
        </actualChildren>
        <extraBed>1</extraBed><!--this element must be populated with the value of the <extra-
Bed> element from the validForOccupancy node-->
        <passengerNationality>81</passengerNationality>
        <passengerCountryOfResidence>100</passengerCountryOfResidence>
        <passengersDetails>
</room>

```

In case of rates that don't have a changed occupancy the adultsCode/actualAdults and children/actualChildren will be passed in the confirmBooking with the same value requested in the initial search.