



# **Guest & Room Status Messaging Specifications 2011B**

**Version 2.0**

**21 October 2011**

## About HTNG

Hotel Technology Next Generation (HTNG) is a non-profit association with a mission to foster, through collaboration and partnership, the development of next-generation systems and solutions that will enable hoteliers and their technology vendors to do business globally in the 21st century; to be recognized as a leading voice of the global hotel community, articulating the technology requirements of hotel companies of all sizes to the vendor community; and to facilitate the development of technology models for hospitality that will foster innovation, improve the guest experience, increase the effectiveness and efficiency of hotels, and create a healthy ecosystem of technology suppliers.

Copyright 2011, Hotel Technology Next Generation

All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of the copyright owner.

For any software code contained within this specification, permission is hereby granted, free-of-charge, to any person obtaining a copy of this specification (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the above copyright notice and this permission notice being included in all copies or substantial portions of the Software.

Manufacturers and software providers shall not claim compliance with portions of the requirements of any HTNG specification or standard, and shall not use the HTNG name or the name of the specification or standard in any statements about their respective product(s) unless the product(s) is (are) certified as compliant to the specification or standard.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES, OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF, OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Permission is granted for implementers to use the names, labels, etc. contained within the specification. The intent of publication of the specification is to encourage implementations of the specification.

This specification has not been verified for avoidance of possible third-party proprietary rights. In implementing this specification, usual procedures to ensure the respect of possible third-party intellectual property rights should be followed.

The names Hotel Technology Next Generation and HTNG, and logos depicting these names, are trademarks of Hotel Technology Next Generation. Permission is granted for implementers to use the aforementioned names in technical documentation for the purpose of acknowledging the copyright and including the notice required above. All other use of the aforementioned names and logos requires the permission of Hotel Technology Next Generation, either in written form or as explicitly permitted for the organization's members through the current terms and conditions of membership.

# Table of contents

VERSION 2.0 .....	1
21 OCTOBER 2011 .....	1
<b>1 THIS SPECIFICATION AT A GLANCE .....</b>	<b>6</b>
<b>2 DOCUMENT INFORMATION .....</b>	<b>7</b>
2.1 DOCUMENT HISTORY .....	7
2.2 DOCUMENT PURPOSE .....	7
2.3 SCOPE .....	8
2.4 RELATIONSHIP TO OTHER STANDARDS.....	8
2.5 AUDIENCE .....	8
2.6 OVERVIEW .....	8
2.7 KNOWN LIMITATIONS .....	8
<b>3 SCENARIOS .....</b>	<b>9</b>
3.1 CHECK-IN .....	9
3.1.1 Overview.....	9
3.1.2 Diagram.....	9
3.1.3 Roles.....	9
3.1.4 Use Case.....	9
3.1.5 Data Element Table – Request.....	10
3.1.6 Sample Message – Request .....	10
3.1.7 Data Element Table – Response .....	12
3.1.8 Sample Message – Response.....	12
3.2 CHECK-OUT.....	12
3.2.1 Overview.....	12
3.2.2 Diagram.....	12
3.2.3 Roles.....	13
3.2.4 Use Case.....	13
3.2.5 Data Element Table – Request.....	13
3.2.6 Sample Message – Request .....	13
3.2.7 Data Element Table – Response .....	14
3.2.8 Sample Message – Response.....	14
3.3 GUEST ROOM MOVE .....	14
3.3.1 Overview.....	14
3.3.2 Diagram.....	14
3.3.3 Roles.....	14
3.3.4 Use Case.....	14
3.3.5 Data Element Table – Request.....	15
3.3.6 Sample Message – Request .....	16
3.3.7 Data Element Table – Response .....	18

---

3.3.8	Sample Message – Response.....	18
3.4	GUEST INFORMATION CHANGE .....	19
3.4.1	Overview.....	19
3.4.2	Diagram.....	19
3.4.3	Roles.....	19
3.4.4	Use Case.....	19
3.4.5	Data Element Table – Request.....	19
3.4.6	Sample Message – Request .....	20
3.4.7	Data Element Table – Response .....	20
3.4.8	Sample Message – Response.....	21
3.5	WAKE UP CALL SCHEDULING.....	21
3.5.1	Overview.....	21
3.5.2	Diagram.....	21
3.5.3	Roles.....	21
3.5.4	Use Case.....	21
3.5.5	Data Element Table – Request.....	21
3.5.6	Sample Message – Request .....	22
3.5.7	Data Element Table – Response .....	23
3.5.8	Sample Message – Response.....	23
3.6	ROOM RESTRICTIONS .....	23
3.6.1	Overview.....	23
3.6.2	Diagram.....	23
3.6.3	Roles.....	24
3.6.4	Use Case.....	24
3.6.5	Data Element Table – Request.....	24
3.6.6	Sample Message – Request .....	25
3.6.7	Data Element Table – Response .....	25
3.6.8	Sample Message – Response.....	26
3.7	ROOM STATUS SEARCH .....	26
3.7.1	Overview.....	26
3.7.2	Diagram.....	26
3.7.3	Roles.....	26
3.7.4	Use Case.....	26
3.7.5	Data Element Table – Request.....	26
3.7.6	Sample Message – Request .....	27
3.7.7	Data Element Table – Response .....	27
3.7.8	Sample Message – Response.....	28
3.8	MESSAGE WAITING NOTIFICATION .....	29
3.8.1	Overview.....	29
3.8.2	Diagram.....	29
3.8.3	Roles.....	29
3.8.4	Use Case.....	29

---

---

3.8.5	<i>Data Element Table – Request</i> .....	29
3.8.6	<i>Sample Message – Request</i> .....	30
3.8.7	<i>Data Element Table – Response</i> .....	30
3.8.8	<i>Sample Message – Response</i> .....	30
3.9	MESSAGE WAITING STATUS UPDATE .....	31
3.9.1	<i>Overview</i> .....	31
3.9.2	<i>Diagram</i> .....	31
3.9.3	<i>Roles</i> .....	31
3.9.4	<i>Use Case</i> .....	31
3.9.5	<i>Data Element Table – Request</i> .....	31
3.9.6	<i>Sample Message – Request</i> .....	32
3.9.7	<i>Data Element Table – Response</i> .....	32
3.9.8	<i>Sample Message – Response</i> .....	32
3.10	UPDATE ROOM (HOUSEKEEPING) STATUS .....	32
3.10.1	<i>Overview</i> .....	32
3.10.2	<i>Diagram</i> .....	33
3.10.3	<i>Roles</i> .....	33
3.10.4	<i>Use Case</i> .....	33
3.10.5	<i>Data Element Table – Request</i> .....	33
3.10.6	<i>Sample Message – Request</i> .....	34
3.10.7	<i>Data Element Table – Response</i> .....	34
3.10.8	<i>Sample Message – Response</i> .....	34
<b>4</b>	<b>APPENDICES</b> .....	<b>35</b>
4.1	GLOSSARY OF TERMS .....	35
4.2	IMPLEMENTATION NOTES .....	35
4.3	LINKS .....	35
4.4	REFERENCED DOCUMENTS .....	35
4.5	SCHEMA COMPONENTS.....	35
4.5.1	<i>HTNG Components</i> .....	35

## 1 This Specification at a Glance

This specification is used by a Property Management System (PMS) to notify other systems that control in-room devices of check-in, check-out, room move, and stay updates, as well as receiving information from in-room devices on changes. Version 2.0 adds the following features: Wake Up Call Scheduling, Room Restrictions, Room (Status) Search, Message Waiting Notification, and Update Room (Housekeeping) Status.

This Guest & Room Status Messaging specification is not to be confused with the Device Control Integration message specification, which is a command and control protocol used to exchange information between devices at a low-level.

## 2 Document Information

### 2.1 Document History

Version	Date	Author	Comments
1.0	24 Sept 2009	GRSM	Included Check-In, Check-out, Room Move, and Guest Information Change
1.1	22 Oct 2010	GRSM	Replaced the use of xs:any by using OpenTravel's TPA_Extensions; fixed StreetNumber type and added AffectedGuest element within HTNG_StayUpdateNotification
1.5	13 Jul 2011	Kylene Reese & Jay Rosamilia	Imported portions of V1.1 specification into new template
1.52	3 Aug 2011	GRSM	Completed Section 1 and Known Limitations, Updated Related Specs section
1.53	10 Aug 2011	GRSM	Updated Scenarios
1.54	17 Aug 2011	GRSM	Updated Scenarios and Layout
1.55	22 Aug 2011	Jay Rosamilia	Updated diagrams, fixed sections
1.56	24 Aug 2011	Jay Rosamilia	Created schema tables, seeded sample messages
1.57	26 Aug 2011	Jay Rosamilia	Refined sample messages
1.59	14 Sep 2011	Jay Rosamilia	Updated message waiting diagrams
1.90	23 Sep 2011	Kylene Reese	Member review and vote periods
2.0	21 Oct 2011	GRSM	Includes Wake Up Call Scheduling, Room Restrictions, Room (Status) Search, Message Waiting Notification, and Update Room (Housekeeping) Status

### 2.2 Document Purpose

Hotel Hospitality Systems are increasingly being asked to provide greater property-wide service and management utility, personalized guest experience delivery, and patron reward services management. To remain competitive, hotel operators are being asked to provide increased in-room control and advanced services as standard features. With this comes the need for greater in-room intelligence and open communications between room-based systems and property operations systems. Hospitality Guest and Property Management System vendors, in turn, are attempting to address these challenges by providing new features, functions and benefits in hopes of gaining greater market share. This document describes how a vendor may utilize advanced service delivery message to communicate with in-room systems, devices and services by using the HTNG XML based Guest & Room Status Messaging (GRSM) schemas. This results in providing guest

and room status notification messaging derived from industry standard schemas to insure increased cross-industry system interoperability, flexible feature extensions and faster service roll out.

## 2.3 Scope

This document targets the release of a specification providing the necessary components, including design recommendations, WSDLs, XSDs, and Use Cases allowing a hospitality operator or hospitality system provider to design and deploy subscription-based services in line with best practices, methods and procedures that meet or exceed current industry web services standards specifications. Basic functionality of the GRSM service supports publishing of Guest Room Event Notification. This specification addresses Guest Check-In, Guest Check-Out, Guest Room Move, Guest Information Change, Wake Up Call Scheduling, Room Restrictions, Room (Status) Search, Message Waiting Notification, and Update Room (Housekeeping) Status use cases.

## 2.4 Relationship to Other Standards

This specification and its supporting schemas leverage the existing OpenTravel Alliance methodology for message construction. A common definition for guest profiles, reservations, and rooms is used, as are all HTNG specifications published as of 2010. This ensures a consistent representation of data across the various HTNG specifications.

## 2.5 Audience

This document is intended to aid in the design, integration and deployment of hospitality services requiring notification of guest and guest room information services. The document specifically targets hospitality service developers, integrators and operators.

## 2.6 Overview

Content contained in this document has been designed to assist the design, implementation and integration of property-wide event notification messaging-based services requiring dynamic access to guest and room status information. A brief overview of each section is as follows:

### Section 3 – Scenarios

This section includes the scenario overviews, diagrams, roles, use cases, data element tables, and sample messages regarding Guest Check-In, Guest Check-Out, Guest Room Move, Guest Information Change, Wake Up Call Scheduling, Room Restrictions, Room (Status) Search, Message Waiting Notification, and Update Room (Housekeeping) Status.. The technical artifacts (XSDs and WSDLs) for this certification release of GRSM v2.0 that can be found in a separate ZIP file included with specification.

### Section 4 – Appendices

This section includes terms, implementation requirements, links, any referenced documents, as well as common HTNG schema components referenced in this document.

## 2.7 Known Limitations

There are no known limitations of this specification at the time of release.



## 3 Scenarios

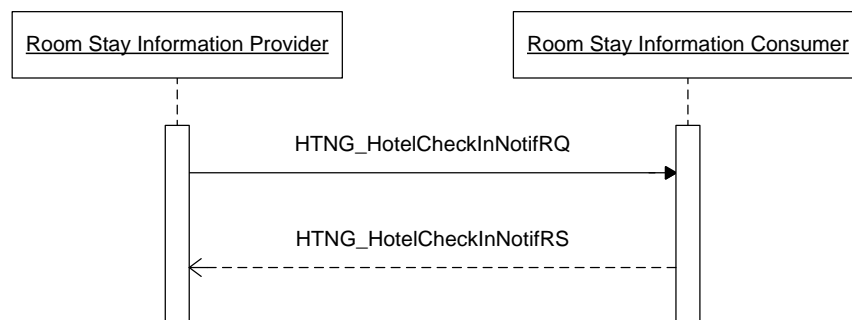
Note: Each of the messages in this specification makes use of many common data components. Each scenario references the common components and describes their use along with portions of the message that are unique to a particular message.

### 3.1 Check-In

#### 3.1.1 Overview

The Check-In message alerts subscribing systems of the arrival of new guest(s) that will be occupying a room.

#### 3.1.2 Diagram



#### 3.1.3 Roles

<b>Provider</b>	Room Stay Information Provider
<b>Actor</b>	Room Stay Information Consumer

#### 3.1.4 Use Case

##### Brief Description

- Upon completion of the guest(s) check-in process, a Room Stay Information Provider sends a notification message to subscribing systems indicating the check-in process is complete. A Room Stay Information Consumer may use this notification message to provision room systems for guest(s) arrival. The message contains affected guest(s), guest stay and room share details.

##### Preconditions

- Guest has a reservation at hotel.
- The assigned room is ready for occupancy.
- Room Stay Information Provider has completed a guest(s) check-in process.

##### Postconditions

- Room systems are updated to a checked-in state, which may include provisioning the room based on guest preferences.

### 3.1.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_HotelCheckInNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_HotelCheckInNotifRQ / AffectedGuests	1	A collection of guests and/or reservations that are being checked into a room. See: HTNG_CollectionOfUniqueIDs
HTNG_HotelCheckInNotifRQ / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelCheckInNotifRQ / HotelReservations	1	Used to convey information about the arriving reservation and its supporting guest information. See: HotelReservationsType in the OpenTravel specification.
HTNG_HotelCheckInNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.1.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelCheckInNotifRQ EchoToken="33f07f05-84e5-48ff-b772-894119d5c194" TimeStamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <AffectedGuests>
    <UniqueID Type="1" ID="GST123"/>
    <UniqueID Type="14" ID="RES123"/>
  </AffectedGuests>
  <Room RoomID="STE100">
    <RoomType RoomTypeCode="STEOCN" Composite="true" RoomID="STE100"
InvBlockCode="GRP123" Floor="12">
      <ota:RoomDescription>
        <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View Suite</ota:Text>
      </ota:RoomDescription>
    </RoomType>
    <TelephoneExtensions>
      <TelephoneExtension>71200</TelephoneExtension>
    </TelephoneExtensions>
    <HKStatus>OCCUPIED_CLEAN</HKStatus>
    <ComponentRooms>
      <ComponentRoom RoomID="1201">
        <RoomType RoomTypeCode="KING" Composite="false" RoomID="1201"
Floor="12">
          <ota:RoomDescription>
            <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View King Room</ota:Text>
          </ota:RoomDescription>
        </RoomType>
        <TelephoneExtensions>
          <TelephoneExtension>71201</TelephoneExtension>
        </TelephoneExtensions>
        <HKStatus>OCCUPIED_CLEAN</HKStatus>
      </ComponentRoom>
      <ComponentRoom RoomID="1202">
        <RoomType RoomTypeCode="PARLOR" Composite="false" RoomID="1202"
Floor="12">
          <ota:RoomDescription>
            <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View Parlor Room</ota:Text>
          </ota:RoomDescription>
        </RoomType>
      </ComponentRoom>
    </ComponentRooms>
  </Room>
</HTNG_HotelCheckInNotifRQ>
```

```

        </ota:RoomDescription>
    </RoomType>
    <TelephoneExtensions>
        <TelephoneExtention>71202</TelephoneExtention>
    </TelephoneExtensions>
    <HKStatus>OCCUPIED_CLEAN</HKStatus>
</ComponentRoom>
</ComponentRooms>
</Room>
<HotelReservations>
    <ota:HotelReservation WalkInIndicator="false" CreateDateTime="2011-05-08T09:30:47Z"
ResStatus="Checked In" RoomStayReservation="true" LastModifyDateTime="2011-07-18T09:30:47Z">
        <ota:UniqueID Type="14" ID="RES123"/>
        <ota:RoomStays>
            <ota:RoomStay RoomStayLanguage="en-us" DiscountCode="DSC123"
MarketCode="T" SourceOfBusiness="Internet">
                <ota:RoomTypes>
                    <ota:RoomType RoomTypeCode="STEOCN" Composite="true"
RoomID="STE100" InvBlockCode="GRP123" Floor="12">
                        <ota:RoomDescription>
                            <ota:Text Language="en-us"
Formatted="true" TextFormat="PlainText">Ocean View Suite</ota:Text>
                        </ota:RoomDescription>
                    </ota:RoomType>
                </ota:RoomTypes>
                <ota:RatePlans>
                    <ota:RatePlan RatePlanCode="RAT123"
RatePlanName="Special Internet Rate"/>
                </ota:RatePlans>
                <ota:GuestCounts>
                    <ota:GuestCount AgeQualifyingCode="8" Count="2"/>
                    <ota:GuestCount AgeQualifyingCode="10" Count="2"/>
                </ota:GuestCounts>
                <ota:TimeSpan End="2011-09-18" Start="2011-09-20"/>
                <ota:Guarantee GuaranteeCode="C"/>
            </ota:RoomStay>
        </ota:RoomStays>
        <ota:ResGuests>
            <ota:ResGuest GroupEventCode="GRP123" PrimaryIndicator="true"
VIP="true">
                <ota:Profiles>
                    <ota:ProfileInfo>
                        <ota:UniqueID Type="1" ID="GST123"/>
                        <ota:Profile CreateDateTime="2001-12-
17T09:30:47Z" ProfileType="1" LastModifyDateTime="2009-08-11T10:43:32Z">
                            <ota:Customer Language="en-us"
VIP_Indicator="false" CurrencyCode="USD" BirthDate="1967-08-13" Gender="Male" DecimalPlaces="2">
                                <ota:PersonName>
                                    <ota:NamePrefix>Mr.</ota:NamePrefix>
                                    <ota:GivenName>John</ota:GivenName>
                                    <ota:Surname>Smith</ota:Surname>
                                </ota:PersonName>
                                <ota:Telephone PhoneUseType="3"
Extension="101" PhoneLocationType="6" PhoneTechType="1" PhoneNumber="3035560" FormattedInd="false"
DefaultInd="true" CountryAccessCode="1" AreaCityCode="847"/>
                                <ota:Email EmailType="1"
DefaultInd="true">john.smith@htng.org</ota:Email>
                                <ota:Address Type="2"
FormattedInd="false" DefaultInd="true">
                                    <ota:StreetNmbr>650</ota:StreetNmbr>
                                    <ota:AddressLine>E
Algonquin Road</ota:AddressLine>
                                    <ota:CityName>Schaumburg</ota:CityName>
                                    <ota:PostalCode>60173</ota:PostalCode>
                                    <ota:StateProv StateCode="IL">Illinois</ota:StateProv>
                                    <ota:CountryName
Code="US">United States</ota:CountryName>
                                    <ota:CompanyName>
CompanyShortName="HTNG" Code="HTNG">Hotel Technology Next Generation</ota:CompanyName>
                                    </ota:Address>
                                    <ota:PhysChallName>
PhysChallInd="false"></htng:PhysChallName>
                                    <ota:CustLoyalty
AllianceLoyaltyLevelName="Gold" ExpireDate="2012-12-31" PrimaryLoyaltyIndicator="true"

```

```

LoyalLevelCode="100" LoyalLevel=" " MembershipID="123456789" VendorCode=" "
ProgramID="WORLDTRAVELERS"/>
Code="fr"/>
PinNumber="4864"/>
<ota:AdditionalLanguage
</ota:Customer>
<ota:UserID Type="1" ID="PMS123"
<ota:PrefCollections>
  <ota:PrefCollection>
    <ota:TPA_Extensions>
      <ota:TPA_Extensions>
    </ota:TPA_Extensions>
  </ota:PrefCollection>
</ota:PrefCollections>
</ota:Profile>
</ota:ProfileInfo>
</ota:Profiles>
<ota:ArrivalTransport>
  <ota:TransportInfo Type="14" LocationCode="MCO" ID="132"
</ota:ArrivalTransport>
<ota:DepartureTransport>
  <ota:TransportInfo Type="14" LocationCode="MCO" ID="456"
</ota:DepartureTransport>
</ota:ResGuest>
</ota:ResGuests>
</ota:HotelReservation>
</HotelReservations>
</HTNG_HotelCheckInNotifRQ>

```

### 3.1.7 Data Element Table - Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelCheckInNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.1.8 Sample Message - Response

```

<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelCheckInNotifRS EchoToken="33f07f05-84e5-48ff-b772-894119d5c194" Timestamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </warnings>
</HTNG_HotelCheckInNotifRS>

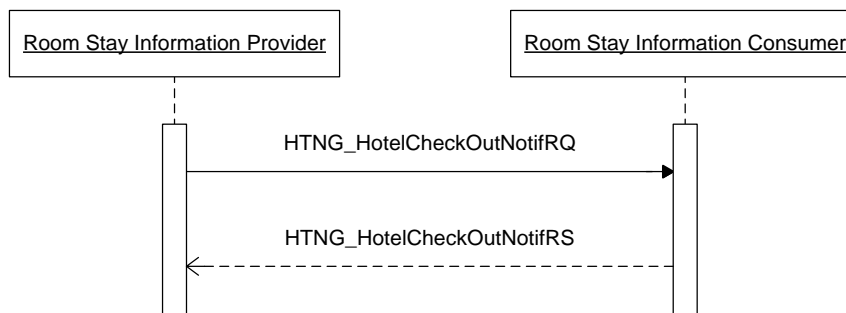
```

## 3.2 Check-Out

### 3.2.1 Overview

The Check-Out message alerts subscribing systems of the departure of guest(s) that are currently occupying a room.

### 3.2.2 Diagram



### 3.2.3 Roles

<b>Provider</b>	Room Stay Information Provider
<b>Actor</b>	Room Stay Information Consumer

### 3.2.4 Use Case

#### Brief Description

- Upon completion of the guest(s) check-out process, a Room Stay Information Provider sends a notification message to subscribing systems indicating the check-out process is complete. A Room Stay Information Consumer may use this notification message to provision room systems for housekeeping. The message contains affected guest(s) and room share details.

#### Preconditions

- Room Stay Information Provider has completed a guest check-out process.

#### Postconditions

- Room systems are updated to a checked-out state, which may include de-provisioning the room.

### 3.2.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_HotelCheckOutNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_HotelCheckOutNotifRQ / AffectedGuests	1	A collection of guests and/or reservations that are being checked out of a room. See: HTNG_CollectionOfUniqueIDs
HTNG_HotelCheckOutNotifRQ / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelCheckOutNotifRQ / HotelReservations	1	Used to convey information about the departing reservation and its supporting guest information. See: HotelReservationsType in the OpenTravel specification.
HTNG_HotelCheckOutNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.2.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelCheckOutNotifRQ EchoToken="79eb2a04-cefc-446a-87c7-23ae07af41e2" TimeStamp="2011-08-
24T09:30:47Z" version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <AffectedGuests>
    <UniqueID Type="1" ID="GST123"/>
    <UniqueID Type="14" ID="RES123"/>
  </AffectedGuests>
  <Room RoomID="STE100">
```

```

    <ComponentRooms>
      <ComponentRoom RoomID="1201">
        <TelephoneExtensions>
          <TelephoneExtension>71201</TelephoneExtension>
        </TelephoneExtensions>
      </ComponentRoom>
      <ComponentRoom RoomID="1202">
        <TelephoneExtensions>
          <TelephoneExtension>71202</TelephoneExtension>
        </TelephoneExtensions>
      </ComponentRoom>
    </ComponentRooms>
  </Room>
</HTNG_HotelCheckOutNotifRQ>

```

### 3.2.7 Data Element Table – Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelCheckOutNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.2.8 Sample Message – Response

```

<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelCheckOutNotifRS EchoToken="79eb2a04-cefc-446a-87c7-23ae07af41e2" TimeStamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
</HTNG_HotelCheckOutNotifRS>

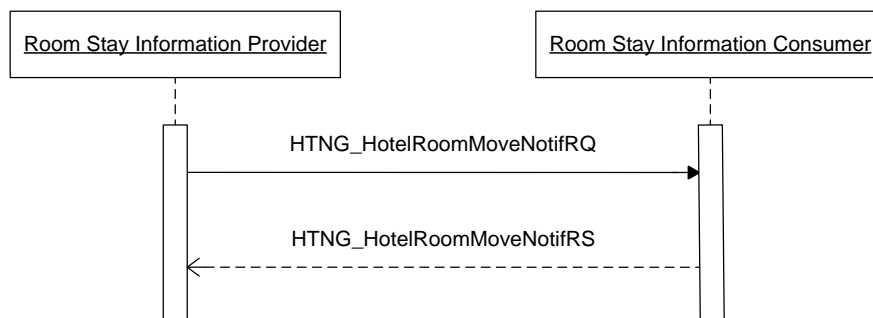
```

## 3.3 Guest Room Move

### 3.3.1 Overview

The Guest Room Move message is used to reassign a checked-in guest to another room.

### 3.3.2 Diagram



### 3.3.3 Roles

<b>Provider</b>	Room Stay Information Provider
<b>Actor</b>	Room Stay Information Consumer

### 3.3.4 Use Case

#### Brief Description

- Upon completion of the guest(s) room move process, a Room Stay Information Provider sends a notification message to subscribing systems indicating the room move process is complete. A Room Stay Information Consumer may use

this notification message to provision the current room's systems for housekeeping and the new room's systems for guest(s) arrival. The message contains affected guest(s), stay and room share details for the original room and the new room.

Preconditions

- Room Stay Information Provider has completed a guest room move process.

Postconditions

- Original room is updated to a vacant state, which may include de-provisioning the room.
- New room is provisioned for guest arrival.

### 3.3.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomMoveNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_HotelRoomMoveNotifRQ / AffectedGuests	1	A collection of guests and/or reservations that are impacted by a room move. See: HTNG_CollectionOfUniqueIDs
HTNG_HotelRoomMoveNotifRQ / SourceRoomInformation	1	This represents where the reservation/guest is moving from. Note: If this is a single reservation, Room information must be supplied, but reservations/guest information will not. If it is a shared room, the occupants remaining in the room must be represented in HotelReservations.
HTNG_HotelRoomMoveNotifRQ / SourceRoomInformation / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelRoomMoveNotifRQ / SourceRoomInformation / HotelReservations	1	Used to convey information about the reservations and guests that will be remaining in the room after the room move is complete. See: HotelReservationsType in the OpenTravel specification.
HTNG_HotelRoomMoveNotifRQ / SourceRoomInformation / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.
HTNG_HotelRoomMoveNotifRQ / DestinationRoomInformation	1	This represents where the reservation/guest is moving to. Note: If a room share is being created, the HotelReservations must represent all reservations in the share and one reservation must be indicated as the primary.

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomMoveNotifRQ / DestinationRoomInformation / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelRoomMoveNotifRQ / DestinationRoomInformation / HotelReservations	1	Used to convey information about the reservations and guests moving from the Source room to the Destination room. See: HotelReservationsType in the OpenTravel specification.
HTNG_HotelRoomMoveNotifRQ / DestinationRoomInformation / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.
HTNG_HotelRoomMoveNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.3.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomMoveNotifRQ EchoToken="28d43794-305b-4b7a-9166-e8a04c9ba140" Timestamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <AffectedGuests>
    <UniqueID Type="1" ID="GST123"/>
    <UniqueID Type="14" ID="RES123"/>
  </AffectedGuests>
  <SourceRoomInformation>
    <Room RoomID="STE100">
      <TelephoneExtensions>
        <TelephoneExtension>71200</TelephoneExtension>
      </TelephoneExtensions>
      <HKStatus>VACANT_DIRTY</HKStatus>
      <ComponentRooms>
        <ComponentRoom RoomID="1201">
          <TelephoneExtensions>
            <TelephoneExtension>71201</TelephoneExtension>
          </TelephoneExtensions>
          <HKStatus>VACANT_DIRTY</HKStatus>
        </ComponentRoom>
        <ComponentRoom RoomID="1202">
          <TelephoneExtensions>
            <TelephoneExtension>71202</TelephoneExtension>
          </TelephoneExtensions>
          <HKStatus>VACANT_DIRTY</HKStatus>
        </ComponentRoom>
      </ComponentRooms>
    </Room>
  </SourceRoomInformation>
  <DestinationRoomInformation>
    <Room RoomID="STE200">
      <RoomType RoomTypeCode="STEOCN" Composite="true" RoomID="STE200"
InvBlockCode="GRP123" Floor="12">
        <ota:RoomDescription>
          <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View Suite</ota:Text>
        </ota:RoomDescription>
      </RoomType>
    </Room>
  </DestinationRoomInformation>
</HTNG_HotelRoomMoveNotifRQ>
```



```

        <TelephoneExtensions>
        <TelephoneExtension>72200</TelephoneExtension>
    </TelephoneExtensions>
    <HKStatus>OCCUPIED_CLEAN</HKStatus>
    <ComponentRooms>
        <ComponentRoom RoomID="2201">
            <RoomType RoomTypeCode="KING" Composite="false" RoomID="2201"
Floor="12">
                <ota:RoomDescription>
                    <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View King Room</ota:Text>
                </ota:RoomDescription>
            </RoomType>
            <TelephoneExtensions>
                <TelephoneExtension>71201</TelephoneExtension>
            </TelephoneExtensions>
            <HKStatus>OCCUPIED_CLEAN</HKStatus>
        </ComponentRoom>
        <ComponentRoom RoomID="2202">
            <RoomType RoomTypeCode="PARLOR" Composite="false" RoomID="2202"
Floor="12">
                <ota:RoomDescription>
                    <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View Parlor Room</ota:Text>
                </ota:RoomDescription>
            </RoomType>
            <TelephoneExtensions>
                <TelephoneExtension>71202</TelephoneExtension>
            </TelephoneExtensions>
            <HKStatus>OCCUPIED_CLEAN</HKStatus>
        </ComponentRoom>
    </ComponentRooms>
</Room>
<HotelReservations>
    <ota:HotelReservation WalkInIndicator="false" CreateDateTime="2011-05-
08T09:30:47Z" ResStatus="Checked In" RoomStayReservation="true" LastModifyDateTime="2011-07-
18T09:30:47Z">
        <ota:UniqueID Type="14" ID="RES123"/>
        <ota:RoomStays>
            <ota:RoomStay RoomStayLanguage="en-us" DiscountCode="DSC123"
MarketCode="T" SourceOfBusiness="Internet">
                <ota:RoomTypes>
                    <ota:RoomType RoomTypeCode="STEOCN"
Composite="true" RoomID="STE100" InvBlockCode="GRP123" Floor="12">
                        <ota:RoomDescription>
                            <ota:Text Language="en-us"
Formatted="true" TextFormat="PlainText">Ocean View Suite</ota:Text>
                        </ota:RoomDescription>
                    </ota:RoomType>
                </ota:RoomTypes>
                <ota:RatePlans>
                    <ota:RatePlan RatePlanCode="RAT123"
RatePlanName="Special Internet Rate"/>
                </ota:RatePlans>
                <ota:GuestCounts>
                    <ota:GuestCount AgeQualifyingCode="8"
Count="2"/>
                    <ota:GuestCount AgeQualifyingCode="10"
Count="2"/>
                </ota:GuestCounts>
                <ota:TimeSpan End="2011-09-18" Start="2011-09-20"/>
                <ota:Guarantee GuaranteeCode="C"/>
            </ota:RoomStay>
        </ota:RoomStays>
        <ota:ResGuests>
            <ota:ResGuest GroupEventCode="GRP123" PrimaryIndicator="true"
VIP="true">
                <ota:Profiles>
                    <ota:ProfileInfo>
                        <ota:UniqueID Type="1" ID="GST123"/>
                        <ota:Profile CreateDateTime="2001-12-
17T09:30:47Z" ProfileType="1" LastModifyDateTime="2009-08-11T10:43:32Z">
                            <ota:Customer Language="en-us"
VIP_Indicator="false" CurrencyCode="USD" BirthDate="1967-08-13" Gender="Male" DecimalPlaces="2">
                                <ota:PersonName>
                                    <ota:NamePrefix>Mr.</ota:NamePrefix>
                                    <ota:GivenName>John</ota:GivenName>
                                    <ota:Surname>Smith</ota:Surname>
                                </ota:PersonName>
                            </ota:Customer>
                        </ota:Profile>
                    </ota:ProfileInfo>
                </ota:Profiles>
            </ota:ResGuest>
        </ota:ResGuests>
    </ota:HotelReservation>
</HotelReservations>

```

```

PhoneUseType="3" Extension="101" PhoneLocationType="6" PhoneTechType="1" PhoneNumber="3035560"
FormattedInd="false" DefaultInd="true" CountryAccessCode="1" AreaCityCode="847"/>
DefaultInd="true">john.smith@htng.org</ota:Email>
FormattedInd="false" DefaultInd="true">
    <ota:StreetNmbr>650</ota:StreetNmbr>
    <ota:CityName>Schaumburg</ota:CityName>
    <ota:PostalCode>60173</ota:PostalCode>
    <ota:StateProv StateCode="IL">Illinois</ota:StateProv>
    <ota:CountryName
Code="US">United States</ota:CountryName>
CompanyShortName="HTNG" Code="HTNG">Hotel Technology Next Generation</ota:CompanyShortName>
PhysChallInd="false"></htng:PhysChallName>
AllianceLoyaltyLevelName="Gold" ExpireDate="2012-12-31" PrimaryLoyaltyIndicator="true"
LoyaltyLevelCode="100" LoyaltyLevel=" " MembershipID="123456789" VendorCode=" "
ProgramID="WORLDTRAVELERS"/>
Code="fr"/>
PinNumber="4864"/>
    <ota:TPA_Extensions>
    </ota:TPA_Extensions>
    <ota:AdditionalLanguage
    </ota:Customer>
    <ota:UserID Type="1" ID="PMS123"
    <ota:PrefCollections>
    <ota:PrefCollection>
    ...
    </ota:PrefCollection>
    </ota:PrefCollections>
    </ota:Profile>
    <ota:ProfileInfo>
    </ota:Profiles>
    <ota:ArrivalTransport>
    <ota:TransportInfo Type="14" LocationCode="MCO"
    </ota:ArrivalTransport>
    <ota:DepartureTransport>
    <ota:TransportInfo Type="14" LocationCode="MCO"
    </ota:DepartureTransport>
    </ota:ResGuest>
    </ota:ResGuests>
    </ota:HotelReservation>
    </HotelReservations>
    </DestinationRoomInformation>
</HTNG_HotelRoomMoveNotifRQ>

```

### 3.3.7 Data Element Table – Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomMoveNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.3.8 Sample Message – Response

```

<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomMoveNotifRS EchoToken="28d43794-305b-4b7a-9166-e8a04c9ba140" TimeStamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
    <Success/>
    <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
    </Warnings>
</HTNG_HotelRoomMoveNotifRS>

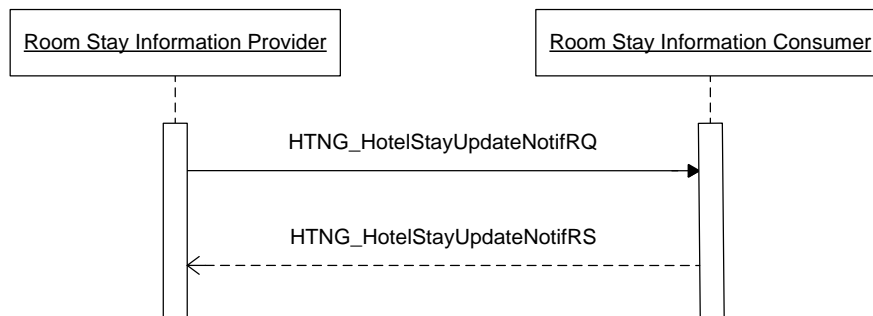
```

## 3.4 Guest Information Change

### 3.4.1 Overview

The Guest Information Change message alerts subscribing systems that a change has occurred to the guest or its corresponding stay.

### 3.4.2 Diagram



### 3.4.3 Roles

<b>Provider</b>	Room Stay Information Provider
<b>Actor</b>	Room Stay Information Consumer

### 3.4.4 Use Case

Brief Description

- Upon completion of the guest(s) information update process, a Room Stay Information Provider sends a notification message to subscribing systems indicating that the information about one or more guest(s) in a room has changed. A Room Stay Information Consumer may use this notification message to update room-based systems. The message contains guest(s), stay and room share details.

Preconditions

- Room Stay Information Provider has updated guest(s) and or stay information.

Postconditions

- Room systems dependent on the changed information are actioned accordingly.

### 3.4.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_HotelStayUpdateNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_HotelStayUpdateNotifRQ / AffectedGuests	1	A collection of guests and/or reservations for which information is being changed. See: HTNG_CollectionOfUniqueIDs
HTNG_HotelStayUpdateNotifRQ / Room	1	Used to convey information about a single room or a suite comprised of room components.

Element   @Attribute	Num	Description/Contents
		See: HTNG_RoomElementType
HTNG_HotelStayUpdateNotifRQ / HotelReservations	1	Used to convey information that has been changed on the reservation and/or its supporting guest. See: HotelReservationsType in the OpenTravel specification.
HTNG_HotelStayUpdateNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.4.6 Sample Message - Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelStayUpdateNotifRQ EchoToken="adc01ae0-4b6d-4b2a-b265-d7ab096e6a11" TimeStamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <AffectedGuests>
    <UniqueID Type="1" ID="GST123"/>
    <UniqueID Type="14" ID="RES123"/>
  </AffectedGuests>
  <Room RoomID="101">
    <TelephoneExtensions>
      <TelephoneExtention>70101</TelephoneExtention>
    </TelephoneExtensions>
  </Room>
  <HotelReservations>
    <ota:HotelReservation>
      <ota:UniqueID Type="14" ID="RES123"/>
      <ota:ResGuests>
        <ota:ResGuest>
          <ota:Profiles>
            <ota:ProfileInfo>
              <ota:UniqueID Type="1" ID="GST123"/>
              <ota:Profile>
                <ota:Customer>
                  <ota:PersonName>

                    </ota:PersonName>
                </ota:Customer>
              </ota:Profile>
            </ota:ProfileInfo>
          </ota:Profiles>
        </ota:ResGuest>
      </ota:ResGuests>
    </ota:HotelReservation>
  </HotelReservations>
</HTNG_HotelStayUpdateNotifRQ>
```

### 3.4.7 Data Element Table - Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelStayUpdateNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.4.8 Sample Message – Response

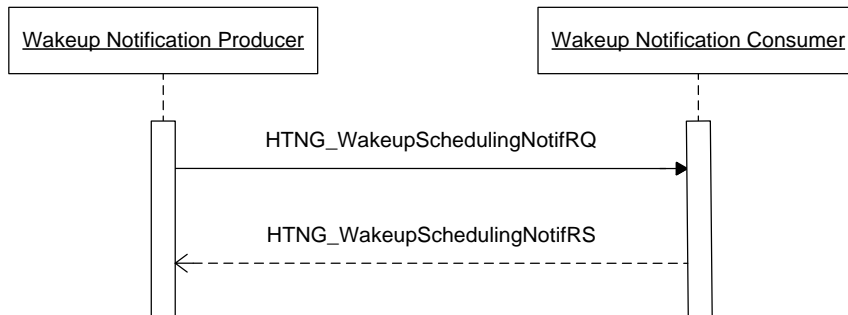
```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelStayUpdateNotifRS EchoToken="adc01ae0-4b6d-4b2a-b265-d7ab096e6a11" Timestamp="2011-08-
24T09:30:47Z" Version="2.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
</HTNG_HotelStayUpdateNotifRS>
```

## 3.5 Wake Up Call Scheduling

### 3.5.1 Overview

Wake Up Call Scheduling is used to create, modify, or delete a wakeup call. The receiver is obligated to fulfill this request.

### 3.5.2 Diagram



### 3.5.3 Roles

Provider	Wakeup Notification Provider
Actor	Wakeup Notification Consumer

### 3.5.4 Use Case

#### Brief Description

- A new, modified, or deleted wakeup call is entered into Wakeup Notification Producer system and sends out notifications to Wakeup Notification Consumers regarding wakeup calls.

#### Preconditions

- A subscription to the wakeup calls.

#### Postconditions

- None.

### 3.5.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_WakeupSchedulingNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_WakeupSchedulingNotifRQ / RoomInformationList	1	A collection of wakeup events to be processed.

Element   @Attribute	Num	Description/Contents
HTNG_WakeupSchedulingNotifR Q / RoomInformationList / WakeupID	1	See: UniqueID_Type in the OpenTravel specification.
@Type		See: UniqueID_Type@Type in the OpenTravel specification.
@ID		A unique identifier for this wakeup request. See: UniqueID_Type@ID in the OpenTravel specification.
@ID_Context		An identifier for the system that issued the ID. See: UniqueID_Type@ID_Context in the OpenTravel specification.
HTNG_WakeupSchedulingNotifR Q / RoomInformationList / Room		Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_WakeupSchedulingNotifR Q / RoomInformationList / WakeupInfo		A container element used to store wakeup scheduling information.
@WakeupTime		The date/time the wakeup is to take place. If TotalDays is greater than one, the first instance of the wakeup will take place on the date portion of this value and subsequent wakeups will take place using the time portion of this value.
@TotalDays		The number of days this wakeup should be active for.
@Action		See: ActionType in the OpenTravel specification.
HTNG_WakeupSchedulingNotifR Q / RoomInformationList / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.5.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_WakeupSchedulingNotifR EchoToken="96baa17b-6874-4434-b6f5-5d5bd0bca3b8" TimeStamp="2011-08-
24T09:30:47Z" version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <RoomInformationList>
    <WakeupID Type="0" ID="a"/>
    <Room RoomID="STE100">
      <TelephoneExtensions>
        <TelephoneExtention>71200</TelephoneExtention>
      </TelephoneExtensions>
      <ComponentRooms>
        <ComponentRoom RoomID="1201">
          <TelephoneExtensions>
            <TelephoneExtention>71201</TelephoneExtention>
          </TelephoneExtensions>
        </ComponentRoom>
      </ComponentRooms>
    </Room>
  </RoomInformationList>
</HTNG_WakeupSchedulingNotifR>
```

```

        <ComponentRoom RoomID="1202">
          <TelephoneExtensions>
            <TelephoneExtension>71202</TelephoneExtension>
          </TelephoneExtensions>
        </ComponentRoom>
      </ComponentRooms>
    </Room>
    <WakeupInfo Action="Add-Update" TotalDays="1" wakeupTime="2011-09-20T01:30:00Z"/>
  </RoomInformationList>
</HTNG_WakeupSchedulingNotifRQ>

```

### 3.5.7 Data Element Table – Response

Element   @Attribute	Num	Description/Contents
HTNG_WakeupSchedulingNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType
HTNG_WakeupSchedulingNotifRS / WakeupID	1	This... See: UniqueID_Type in the OpenTravel specification.
@Type	1	A unique identifier for this wakeup request. See: UniqueID_Type@ID in the OpenTravel specification.
@ID	1	A unique identifier for this wakeup request. See: UniqueID_Type@ID in the OpenTravel specification.
@ID_Context	0..1	An identifier for the system that issued the ID. See: UniqueID_Type@ID_Context in the OpenTravel specification.

### 3.5.8 Sample Message – Response

```

<?xml version="1.0" encoding="UTF-8"?>
<HTNG_WakeupSchedulingNotifRS EchoToken="96baa17b-6874-4434-b6f5-5d5bd0bca3b8" TimeStamp="2011-08-
24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
  <WakeupID Type="0" ID="a" />
</HTNG_WakeupSchedulingNotifRS>

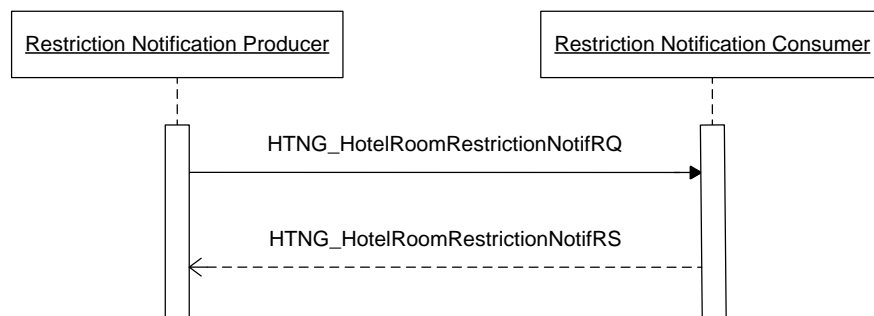
```

## 3.6 Room Restrictions

### 3.6.1 Overview

Room Restrictions are used to change the availability of services provided to a guest in their room. This may be due to the guest's ability to pay and/or restrict content.

### 3.6.2 Diagram



### 3.6.3 Roles

<b>Provider</b>	Restriction Notification Provider
<b>Actor</b>	Restriction Notification Consumer

### 3.6.4 Use Case

#### Brief Description

- Frequently, the level of service may need to be modified based on guest credit-worthiness. In addition, systems must be able to prevent inappropriate content viewing on in-room devices. The Restriction Notification Provider makes the determination of when this event is sent and notifies the appropriate Restriction Notification Consumers of the most current restriction status.

#### Preconditions

- A Restriction Notification Consumer has registered interest in receiving restriction status notifications from the Restriction Notification Provider.

#### Postconditions

- Restriction Notification Consumer system actions the restriction.

### 3.6.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomRestrictionNoti fRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_HotelRoomRestrictionNoti fRQ / Systems	1	A collection of systems
HTNG_HotelRoomRestrictionNoti fRQ / Systems / System	1..n	An individual system that is to honor restriction instructions.
@Type		The type of feature being restricted or allowd. Possible values could be MOVIES, GAMES, INTERNET, TELEPHONE, REFRESHMENTS, etc.
@Status		Used to restrict or allow all features of a given system. Recommended values are “RESTRICTED” and “ALLOW”
HTNG_HotelRoomRestrictionNoti fRQ / Systems / System / Restrictions	0..1	A collection of individual restrictions supported by a system.
HTNG_HotelRoomRestrictionNoti fRQ / Systems / System / Restrictions / Restriction	0..n	An individual restriction.
@Type		The type of feature being restricted or allowd. Possible values could be MOVIES, GAMES, INTERNET, TELEPHONE, REFRESHMENTS, etc.



Element   @Attribute	Num	Description/Contents
@Status		Recommended values are "RESTRICTED" and "ALLOW"
@Level		System and Type-specific levels of restrictions (for MOVIES the values may be "G", "PG", "PG-13", "R", "NC-17", for a TELEPHONE system the values may be "LOCAL", "LONGDISTANCE", "INTERNATIONAL".)
HTNG_HotelRoomRestrictionNotifRQ / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelRoomRestrictionNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.6.6 Sample Message - Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomRestrictionNotifRQ EchoToken="35f71965-f50a-4335-9fe8-3d6bbc4fb991" TimeStamp="2011-08-24T09:30:47Z" version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <Systems>
    <System Type="REFRESHMENTS">
      <Restrictions>
        <Restriction Type="ALCOHOL" Status="RESTRICT"/>
      </Restrictions>
    </System>
    <System Type="TELEPHONE">
      <Restrictions>
        <Restriction Type="LOCAL" Status="ALLOW"/>
      </Restrictions>
    </System>
    <System Type="ENTERTAINMENT">
      <Restrictions>
        <Restriction Type="MOVIES" Status="ALLOW" Level="PG"/>
        <Restriction Type="MOVIES" Status="ALLOW" Level="PG-13"/>
        <Restriction Type="MOVIES" Status="RESTRICT" Level="R"/>
        <Restriction Type="MOVIES" Status="RESTRICT" Level="NC-17"/>
      </Restrictions>
    </System>
  </Systems>
  <Room RoomID="STE100">
    <TelephoneExtensions>
      <TelephoneExtention>71200</TelephoneExtention>
    </TelephoneExtensions>
  </Room>
</HTNG_HotelRoomRestrictionNotifRQ>
```

### 3.6.7 Data Element Table - Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomRestrictionNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.6.8 Sample Message – Response

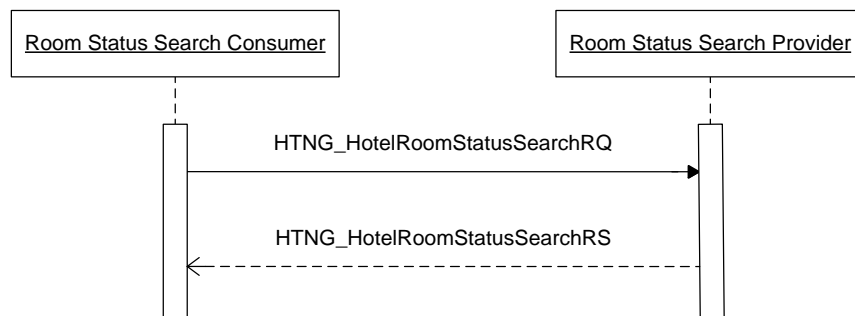
```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomRestrictionNotifRS EchoToken="35f71965-f50a-4335-9fe8-3d6bbc4fb991" Timestamp="2011-08-24T09:30:47Z" version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
</HTNG_HotelRoomRestrictionNotifRS>
```

## 3.7 Room Status Search

### 3.7.1 Overview

The Room Status Search message can be used to obtain a list of rooms having a set of characteristics that the requestor is interested in. This can be done for a single room or a group of rooms, depending on the search criteria. The result then can be used, for example, to synchronize information between systems that need updated housekeeping statuses.

### 3.7.2 Diagram



### 3.7.3 Roles

<b>Provider</b>	Room Status Search Provider
<b>Actor</b>	Room Status Search Consumer

### 3.7.4 Use Case

#### Brief Description

- A search for rooms is performed by a Room Status Search Consumer. Room Status Search is sent from housekeeping system to PMS. The search can be by room number, room type, floor, wing, status, alias (for instance, a phone extension), etc.

#### Preconditions

- None.

#### Postconditions

- None.

### 3.7.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomStatusSearchRQ	1	The base element of the request message See: HTNG_RequestBaseType

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomStatusSearchRQ / Room	1	Used to convey information about a single room or a suite comprised of room components. The populated values on this entry are used as the query parameters. See: HTNG_RoomElementType
HTNG_HotelRoomStatusSearchRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.7.6 Sample Message - Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomStatusSearchRQ EchoToken="6c19dbf8-351b-471f-a33b-be8701eb67ae" TimeStamp="2011-08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <Room>
    <RoomType Floor="12"/>
    <HKStatus>VACANT_DIRTY</HKStatus>
  </Room>
</HTNG_HotelRoomStatusSearchRQ>
```

### 3.7.7 Data Element Table - Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomStatusSearchRS	1	The base element of the response message See: HTNG_ResponseBaseType
HTNG_HotelRoomStatusSearchRS / RoomInformationList	0..1	The result set generated by the query sent in the request.
HTNG_HotelRoomStatusSearchRS / RoomInformationList / RoomInformation	1..n	A container element used to hold room and reservation information.
HTNG_HotelRoomStatusSearchRS / RoomInformationList / RoomInformation / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelRoomStatusSearchRS / RoomInformationList / RoomInformation / HotelReservations	0..1	Used to convey information about the reservation and/or its supporting guest. See: HotelReservationsType in the OpenTravel specification.
HTNG_HotelRoomStatusSearchRS / RoomInformationList / RoomInformation / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.7.8 Sample Message – Response

```

<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomStatusSearchRS EchoToken="6c19dbf8-351b-471f-a33b-be8701eb67ae" TimeStamp="2011-08-
24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
  <RoomInformationList>
    <RoomInformation>
      <Room RoomID="STE100">
        <RoomType RoomTypeCode="STEOCN" Composite="true" RoomID="STE100"
Floor="12">
          <ota:RoomDescription>
            <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View Suite</ota:Text>
          </ota:RoomDescription>
        </RoomType>
        <TelephoneExtensions>
          <TelephoneExtention>71200</TelephoneExtention>
        </TelephoneExtensions>
        <HKStatus>OCCUPIED_CLEAN</HKStatus>
      </Room>
      <HotelReservations>
        <ota:HotelReservation ResStatus="Checked In">
          <ota:UniqueID Type="14" ID="RES123"/>
        </ota:HotelReservation>
      </HotelReservations>
    </RoomInformation>
    <RoomInformation>
      <Room RoomID="1201">
        <RoomType RoomTypeCode="KING" Composite="false" RoomID="1201"
Floor="12">
          <ota:RoomDescription>
            <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View King Room</ota:Text>
          </ota:RoomDescription>
        </RoomType>
        <TelephoneExtensions>
          <TelephoneExtention>71201</TelephoneExtention>
        </TelephoneExtensions>
        <HKStatus>OCCUPIED_CLEAN</HKStatus>
      </Room>
      <HotelReservations>
        <ota:HotelReservation ResStatus="Checked In">
          <ota:UniqueID Type="14" ID="RES123"/>
        </ota:HotelReservation>
      </HotelReservations>
    </RoomInformation>
    <RoomInformation>
      <Room RoomID="1202">
        <RoomType RoomTypeCode="PARLOR" Composite="false" RoomID="1202"
Floor="12">
          <ota:RoomDescription>
            <ota:Text Language="en-us" Formatted="true"
TextFormat="PlainText">Ocean View Parlor Room</ota:Text>
          </ota:RoomDescription>
        </RoomType>
        <TelephoneExtensions>
          <TelephoneExtention>71202</TelephoneExtention>
        </TelephoneExtensions>
        <HKStatus>OCCUPIED_CLEAN</HKStatus>
      </Room>
      <HotelReservations>
        <ota:HotelReservation ResStatus="Checked In">
          <ota:UniqueID Type="14" ID="RES123"/>
        </ota:HotelReservation>
      </HotelReservations>
    </RoomInformation>
  </RoomInformationList>
</HTNG_HotelRoomStatusSearchRS>

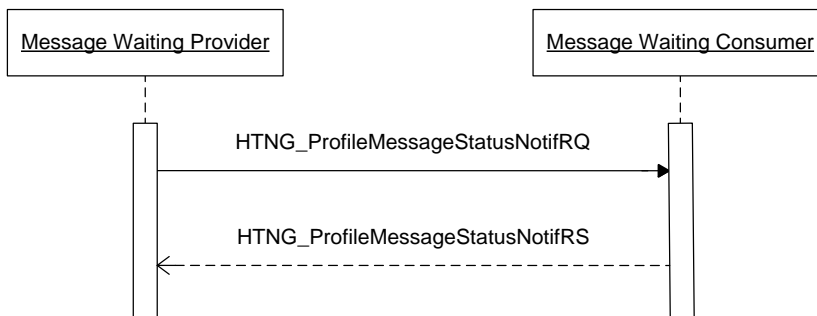
```

## 3.8 Message Waiting Notification

### 3.8.1 Overview

The Message Waiting Notification message alerts subscribing systems of a new text message or voicemail. It also includes instructions that the receiving system can use to obtain the messages.

### 3.8.2 Diagram



### 3.8.3 Roles

<b>Provider</b>	Message Waiting Provider
<b>Actor</b>	Message Waiting Consumer

### 3.8.4 Use Case

Brief Description

- A new message (text or voice) is entered into PMS and notifies the notification system, which in turn sends out notifications to subscribers regarding messages.

Preconditions

- A Message Waiting Consumer has registered interest in receiving message waiting notifications from the Message Waiting Provider.

Postconditions

- None.

### 3.8.5 Data Element Table – Request

HTNG\_ProfileMessageStatusRQ

Element   @Attribute	Num	Description/Contents
HTNG_ProfileMessageStatusNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_ProfileMessageStatusNotifRQ / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_ProfileMessageStatusNotifRQ / ProfileMessageSummary		A container element used as a quick reference for the number of messages, by message type. See: HTNG_ProfileMessageSummaryType

Element   @Attribute	Num	Description/Contents
HTNG_ProfileMessageStatusNotifRQ / ProfileMessages	0..1	A collection of messages.
HTNG_ProfileMessageStatusNotifRQ / ProfileMessages / ProfileMessage	1..n	An individual message. See: ParagraphType in the OpenTravel specification.
@CreatedBySystemID	0..1	The identifier of the system that created the message.
@MessageID	1	A unique identifier for the message.
@Status	1	The current status of the message. Possible values allowed by the schema are: New Viewed Deleted
HTNG_ProfileMessageStatusNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.8.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_ProfileMessageStatusNotifRQ EchoToken="41e536f8-813d-42a1-8c83-5e5a7264ae0b" TimeStamp="2011-08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <Room RoomID="STE100">
    <TelephoneExtensions>
      <TelephoneExtention>71200</TelephoneExtention>
    </TelephoneExtensions>
  </Room>
  <ProfileMessageSummary Text="1" Image="0" Other="0" video="0"/>
  <ProfileMessages>
    <ProfileMessage MessageID="578532423" Status="New" CreateDateTime="2010-07-17T04:32:24Z" CreatedBySystemID="PMS" CreatorID="JS">
      <ota:Text Language="en-us" Formatted="true" TextFormat="PlainText">You have a package at the Front Desk.</ota:Text>
    </ProfileMessage>
  </ProfileMessages>
</HTNG_ProfileMessageStatusNotifRQ>
```

### 3.8.7 Data Element Table – Response

Element   @Attribute	Num	Description/Contents
HTNG_ProfileMessageStatusNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.8.8 Sample Message – Response

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_ProfileMessageStatusNotifRS EchoToken="41e536f8-813d-42a1-8c83-5e5a7264ae0b" TimeStamp="2011-08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
</HTNG_ProfileMessageStatusNotifRS>
```

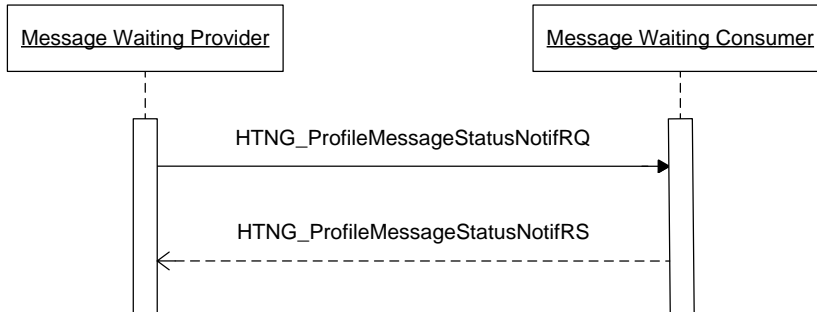
```
</warnings>
</HTNG_ProfileMessageStatusNotifRS>
```

## 3.9 Message Waiting Status Update

### 3.9.1 Overview

The Message Waiting Status Update message is used to change the state of a message of an 'un-read' to a 'read' state.

### 3.9.2 Diagram



### 3.9.3 Roles

<b>Provider</b>	Message Waiting Provider
<b>Actor</b>	Message Waiting Consumer

### 3.9.4 Use Case

#### Brief Description

- Once a pending message has been delivered to guest, the Message Status Update Provider is notified that a new message has been read and subsequently the message waiting indicator can be turned off.

#### Preconditions

- Message has been delivered to and read by guest.

#### Postconditions

- Message shows as a 'read' message.

### 3.9.5 Data Element Table – Request

Element   @Attribute	Num	Description/Contents
HTNG_ProfileMessageStatusNotif RQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_ProfileMessageStatusNotif RQ / ProfileMessages	0..1	A collection of messages.
HTNG_ProfileMessageStatusNotif RQ / ProfileMessages / ProfileMessage	1..n	An individual message See: ParagraphType in the OpenTravel specification.
@CreatedBySystemID	0..1	The identifier of the system that created the message.

Element   @Attribute	Num	Description/Contents
@MessageID	1	A unique identifier for the message.
@Status	1	The current status of the message. Possible values allowed by the schema are: New Viewed Deleted
HTNG_ProfileMessageStatusNotif RQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.9.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_ProfileMessageStatusNotifRQ EchoToken="b9203707-9fb2-40e4-b7f7-dac423fb6e15" Timestamp="2011-08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
  <ProfileMessages>
    <ProfileMessage MessageID="578532423" Status="Viewed" CreatedBySystemID="PMS" />
  </ProfileMessages>
</HTNG_ProfileMessageStatusNotifRQ>
```

### 3.9.7 Data Element Table – Response

Element   @Attribute	Num	Description/Contents
HTNG_ProfileMessageStatusNotif RS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.9.8 Sample Message – Response

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_ProfileMessageStatusNotifRS EchoToken="b9203707-9fb2-40e4-b7f7-dac423fb6e15" Timestamp="2011-08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
</HTNG_ProfileMessageStatusNotifRS>
```

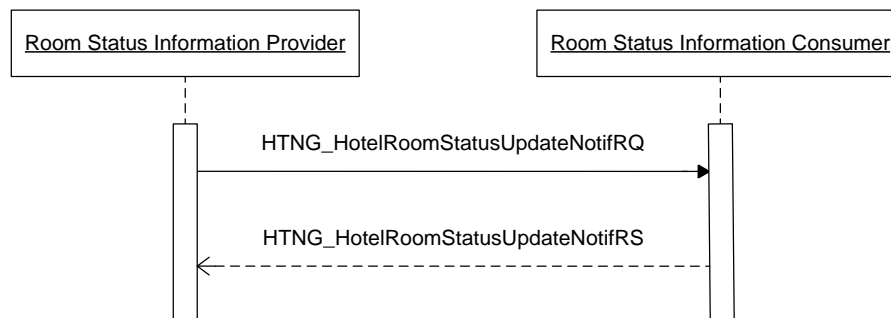
## 3.10 Update Room (Housekeeping) Status

### 3.10.1 Overview

The Update Room Status message is used to notify associated systems that the status of a room has changed in order to keep the status in sync on all systems. This allows all systems to have a complete, current view of room statuses. For example, a housekeeping staff member can go into a room and update the status of a room on a hand-held device. The information then flows to the housekeeping system, which sends a message to other systems about the update.



### 3.10.2 Diagram



### 3.10.3 Roles

<b>Provider</b>	Room Status Information Provider
<b>Actor</b>	Room Status Information Consumer

### 3.10.4 Use Case

#### Brief Description

- A room status is updating in an external system, such as a housekeeping system. The room status is typically sent from the housekeeping system to the PMS.

#### Preconditions

- None.

#### Postconditions

- None.

### 3.10.5 Data Element Table – Request

#### HTNG\_HotelRoomStatusUpdateRQ

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomStatusUpdateNotifRQ	1	The base element of the request message See: HTNG_RequestBaseType
HTNG_HotelRoomStatusUpdateNotifRQ / Room	1	Used to convey information about a single room or a suite comprised of room components. See: HTNG_RoomElementType
HTNG_HotelRoomStatusUpdateNotifRQ / TPA_Extensions	0..1	This is used to exchange custom/implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

### 3.10.6 Sample Message – Request

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomStatusUpdateNotifRQ EchoToken="75fe59ae-7c59-413e-85f7-7be31f0018c7" TimeStamp="2011-
08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <PropertyInfo ChainCode="STARWOOD" HotelName="Westin San Diego" BrandCode="WESTIN"
HotelCode="2134" HotelCodeContext="CRES"/>
    <Room RoomID="STE100">
      <TelephoneExtensions>
        <TelephoneExtention>71200</TelephoneExtention>
      </TelephoneExtensions>
      <HKStatus>OCCUPIED_CLEAN</HKStatus>
    </Room>
</HTNG_HotelRoomStatusUpdateNotifRQ>
```

### 3.10.7 Data Element Table – Response

Element   @Attribute	Num	Description/Contents
HTNG_HotelRoomStatusUpdateNotifRS	1	The base element of the response message See: HTNG_ResponseBaseType

### 3.10.8 Sample Message – Response

```
<?xml version="1.0" encoding="UTF-8"?>
<HTNG_HotelRoomStatusUpdateNotifRS EchoToken="75fe59ae-7c59-413e-85f7-7be31f0018c7"
TimeStamp="2011-08-24T09:30:47Z" Version="1.0" Target="Production" xmlns="http://htng.org/2011B"
xmlns:ota="http://www.opentravel.org/OTA/2003/05">
  <Success/>
  <Warnings>
    <ota:Warning Type="0" Status="a" ShortText="a" Code="0">String</ota:Warning>
  </Warnings>
</HTNG_HotelRoomStatusUpdateNotifRS>
```

## 4 Appendices

### 4.1 Glossary of Terms

For the purpose of this document the following terms have been defined as follows:

Term	Definition
Preferences	Desired behavior and environment details associated with a Guest
Primary Share	The Guest and/or Reservation that is considered default
Related Traveler	An individual who is accompanying a Guest as part of a single reservation
Room Restriction	To intentionally disable a service based upon a business rule
Room Sharing	More than one Guest is occupying a given Room, each responsible for their own charges
Suite	A collection of rooms that can be sold as a single unit of inventory

### 4.2 Implementation Notes

The Guest & Room Status Messaging Specifications 2011B Version 2.0 uses a data model that is consistent with other current HTNG efforts, meaning that this version is NOT BACKWARD COMPATIBLE with previous Guest & Room Status Messaging Specification versions (V1.0 and V1.1).

If you are looking to implement this specification using a publish and subscribe model, it is highly encouraged to use the HTNG Protocol & Message Transport Event Notification specification (linked in section 4.4 below).

### 4.3 Links

### 4.4 Referenced Documents

The following table shows the documents upon which this document depends:

Document Title	Location/URL
OpenTravel Alliance 2011A	<a href="http://opentravel.org/Specifications/Default.aspx">http://opentravel.org/Specifications/Default.aspx</a>
HTNG Protocol & Message Transport Event Notification specification	<a href="#">HTNG Protocol &amp; Message Transport Event Notification specification</a>

### 4.5 Schema Components

#### 4.5.1 HTNG Components

##### 4.5.1.1 HTNG\_CollectionOfUniqueIDs

Name	Num	Description/Contents
UniqueID	1..n	A collection of UniqueID_Type elements. See: UniqueID_Type in the OpenTravel specification.

Name	Num	Description/Contents
@Type	1	1 = Guest 14 = Reservation
@ID	1	The primary key or indicator used for uniqueness.
@ID_Context	0..1	The identifier of the system that issued the ID.

#### 4.5.1.2 HTNG\_ComponentRoomType

Element   @Attribute	Num	Description/Contents
@RoomID	1	The room number.
RoomType	1	See: RoomTypeType in the OpenTravel specification.
TelephoneExtensions	0..1	A collection of telephone extensions
TelephoneExtensions / TelephoneExtension	1..n	A telephone extension that is part of a single room or a suite of component rooms.
HKStatus	0..1	The current housekeeping status of the room. Possible values allowed by the schema are: NEEDS_INSPECTION OCCUPIED_CLEAN OCCUPIED_DIRTY OFF_MARKET OUT_OF_ORDER PICKUP VACANT_CLEAN VACANT_DIRTY
TPA_Extensions	0..1	This is used to exchange custom implementation-specific values that are agreed upon between trading partners. See: TPA_ExtensionsType in the OpenTravel specification.

#### 4.5.1.3 HTNG\_ProfileMessageSummaryType

Name	Num	Description/Contents
@Image	0..1	Specifies the count of Image messages.
@Text	0..1	Specifies the count of Text messages.
@Video	0..1	Specifies the count of Video messages.
@Other	0..1	Specifies the count of Other messages.

#### 4.5.1.4 HTNG\_RequestBaseType

Element   @Attribute	Num	Description/Contents
@EchoToken		A reference for additional message identification, assigned by the requesting host system. When a request message includes an echo token the corresponding response message MUST include an echo token with an identical value. See: OTA_PayloadStdAttributes in OpenTravel specification.
@TimeStamp		Indicates the creation date and time of the message in UTC using the following format specified by ISO 8601; YYYY-MM-DDThh:mm:ssZ with time values using the 24-hour clock (e.g., 20 November 2003, 1:59:38 pm UTC becomes 2003-11-20T13:59:38Z). See: OTA_PayloadStdAttributes in OpenTravel specification.
@Version		For all OpenTravel versioned messages, the version of the message is indicated by a decimal value. See: OTA_PayloadStdAttributes in OpenTravel specification.
@Target		Used to indicate whether the request is for the Test or Production system. See: OTA_PayloadStdAttributes in OpenTravel specification.
POS	0..1	See: POS_Type in the OpenTravel specification.
UniqueID	0..1	See: UniqueID_Type in the OpenTravel specification.
PropertyInfo	0..1	See: HotelReferenceGroup in the OpenTravel specification.

#### 4.5.1.5 HTNG\_ResponseBaseType

Element   @Attribute	Num	Description/Contents
@EchoToken		A reference for additional message identification, assigned by the requesting host system. When a request message includes an echo token the corresponding response message MUST include an echo token with an identical value. See: OTA_PayloadStdAttributes in OpenTravel specification.
@TimeStamp		Indicates the creation date and time of the message in UTC using the following format specified by ISO 8601; YYYY-MM-DDThh:mm:ssZ with time values using the

Element   @Attribute	Num	Description/Contents
		24-hour clock (e.g., 20 November 2003, 1:59:38 pm UTC becomes 2003-11-20T13:59:38Z). See: OTA_PayloadStdAttributes in OpenTravel specification.
@Version		For all OpenTravel versioned messages, the version of the message is indicated by a decimal value. See: OTA_PayloadStdAttributes in OpenTravel specification.
@Target		Used to indicate whether the request is for the Test or Production system. See: OTA_PayloadStdAttributes in OpenTravel specification.
Success	0..1	See: SuccessType in OpenTravel specification.
Warnings	0..1	See: WarningsType in OpenTravel specification.
Errors	0..1	See: ErrorsType in OpenTravel specification.

#### 4.5.1.6 HTNG\_RoomElementType

The purpose is to be able to represent individual room or a suite (including its individual component rooms) using a common data structure.

Element   @Attribute	Num	Description/Contents
Extension of HTNG_ComponentRoomType		
ComponentRooms	0..1	A collection of HTNG_ComponentRoomType elements, used to indicate rooms comprising a suite.
ComponentRooms / ComponentRoom	1..n	An individual room that is one component of a suite. See: HTNG_ComponentRoomType