



August 2012

---

# OpenTravel 2012A Schema Comments Report

<p><b>285</b></p> <p><b>Submitted By:</b> Doug Belkofer Travelocity</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> This attribute is not documented at all, and isn't intuitive either. Using a positive integer to indicate a sort order implies that there is a meaning to each potential numeric value. I checked the code list as well, and the only sort order code there clearly wasn't for this message.</p> <p><b>Proposed Change</b> I suggest adding an enumeration facet to this attribute, which would allow you to identify the values and their meanings within the schema.</p> <p><b>Proposed Annotation</b> None provided</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelAvailRS <b>X-Path:</b> OTA_HotelAvailRS/RoomStays/@SortOrder</p> <p>-changed type OTA_HotelAvailRS/RoomStays/@SortOrder from xs:positiveInteger to xs:string</p> <p>-modified annotation OTA_HotelAvailRS/RoomStays/@SortOrder Annotation: The specified sort order for the room stay results. Use is defined by trading partners.</p>
<p><b>286</b></p> <p><b>Submitted By:</b> Beatriz Pastrana Diaz Amadeus</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to use the attribute OTA_VehicleCommonTypes/VehicleRentalCoreType @MultiIslandRentalDays with more than 99 days.</p> <p><b>Proposed Change</b> Change the type of this attribute to "Numeric1to999"</p> <p><b>Proposed Annotation</b> N/A</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_VehicleCommonTypes <b>X-Path:</b> OTA_VehicleCommonTypes/VehRentalCoreType/@MultiIslandRentalDays</p> <p>-changed type definition OTA_VehicleCommonTypes/VehicleRentalCoreType @MultiIslandRentalDays from "Numeric1to99" to "Numeric1to999".</p>

287

**Submitted By:**  
**Barrett Tucker**  
**Stealth Startup**

-----  
**SUBMITTER**  
-----

**Comment**

The complex type xs:complexType name="GolferType" has an inner element xs:element name="GolferType"  
During the process of doing contract first web service generation, these names conflict in several of the JAXB  
based tools I've used (Apache CXF wsdl2java and Axis). This namespace name conflict is not allowed in JAXB  
bindings. You can get around this with custom JAXB bindings. But it would nice if this worked "out of the box"  
so to speak. You can see an example of this and the workaround at:  
[http://docs.oracle.com/cd/E17802\\_01/webservices/webservices/docs/1.6/tutorial/doc/JAXBUsing4.html#wp149313](http://docs.oracle.com/cd/E17802_01/webservices/webservices/docs/1.6/tutorial/doc/JAXBUsing4.html#wp149313)  
down at: "The second conflict is that there are an element and a complexType that both use the name  
Foobar:"

**Proposed Change**

Change the name of the inner element to something other than GolferType. Thanks!

**Proposed Annotation**

NA

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_GolfCommonTypes

**X-Path:** OTA\_GolfCommonTypes/GolferType/GolferType

-changed element name

From GolferType/GolferType to GolferType/Type

288

Submitted By:  
Adrianna  
Colbath SITA

-----  
**SUBMITTER**  
-----

**Comment**

The developers indicate that they have been working with the OTA\_CancelRQ message and below are the initial issues we've seen.

We'll let you know if any more arises

1. The UniqueID\_Type complex type contains a reference to the UniqueID\_Group attribute group. The UniqueID\_Group attribute group then contains a reference to the ID\_Group attribute group.

When we generate types, the ID attribute from the ID\_Group attribute group is missing.

2. The OTA\_CancelRQ/@Target field has this definition ( from OTA\_CommonTypes.xsd )

```
<xs:attribute name="Target" use="optional">
<xs:annotation>
<xs:documentation xml:lang="en">Used to indicate whether the request is for the Test or Production
system.</xs:documentation>
<xs:documentation xml:lang="en">
<LegacyDefaultValue>Production</LegacyDefaultValue>
</xs:documentation>
</xs:annotation>
<xs:simpleType>
<xs:restriction base="xs:NMTOKEN">
<xs:enumeration value="Test">
<xs:annotation>
<xs:documentation xml:lang="en">A test system.</xs:documentation>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Production">
<xs:annotation>
<xs:documentation xml:lang="en">A production system.</xs:documentation>
</xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
```

**Proposed Change**

TBC Below is an extract from msdn.microsoft.com

XSD Data Type Mapping

The World Wide Web Consortium ([www.w3.org](http://www.w3.org)) document titled "XML Schema Part 2: Datatypes" specifies the simple data types that are allowed in an XML Schema definition language (XSD) schema. For many of these (for example, int and decimal), there is a corresponding data type in the .NET Framework. However, some XML data types do not have a corresponding data type in the .NET Framework (for example, the NMTOKEN data type).

-----  
**RELEASE NOTES**  
-----

**COMMENT ACTIONED.**

See Release Notes: General Schema Maintenance-Reduction of Binding Issues

<p><b>289</b></p> <p><b>Submitted By:</b> <b>Bart Heylen</b> <b>Cronos</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> The number of OriginDestinationInformation elements is restricted to 5 in the OTA_AirAvailRS message. However in the OTA_AirAvailRQ the requester is allowed to provide up to 99 OriginDestinationInformation elements.</p> <p><b>Proposed Change</b> As we do have particular cases where we need more than 5 OriginDestinationInformation elements, we would suggest to change the constraint in the OTA_AirAvailRS.xsd to 0..99 occurrences (same as in the request)</p> <p><b>Proposed Annotation</b> N/A</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_AirAvailRS <b>X-Path:</b> OTA_AirAvailRS/OriginDestinationInformation</p> <p>-increased occurrences of OriginDestinationInformation from maxOcc=5 to unbounded.</p>
--	---

<p><b>290</b></p> <p><b>Submitted By:</b> <b>Adrianna</b> <b>Colbath SITA</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> SITA has need of passing proprietary information in the OTA_AirAvailRQ/RS schemas. The data would not normally be included in the Availability schemas but is needed for a specific business case as the data may vary by vendor.</p> <p><b>Proposed Change</b> Add TPA_Extensions OTA_AirAvailRQ/TravelPreferences/TPA_Extension OTA_AirAvailRQ/OriginDestinationOptions/TPA_Extension OTA_AirAvailRQ/TPA_Extension OTA_AirAvailRS/OriginDestinationOptions/OriginDestination Option/TPA_Extension OTA_AirAvailRS/OriginDestinationOptions/OriginDestination Option/FlightSegment/TPA_Extension</p> <p><b>Proposed Annotation</b> Use the same annotation as was done for other TPA extensions: A placeholder in the schema to allow for additional elements and attributes to be included per Trading Partner Agreement (TPA).</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>COMMENT ACTIONED.</b> See Release Notes: General Schema Maintenance- Schema Extensions</p>
---	---

Submitted By:  
Steve Sommers  
Shift4

### SUBMITTER

#### Comment

Add support for tokenization to make it easier for diverse systems to comply with PCI and keep cardholder data secure. This comment for change assumes the reader has a cursory knowledge of tokenization and how it protects cardholder data. If you are not familiar with tokenization, you can find more information at <http://www.shift4.com/tokenization.cfm>.

#### Proposed Change

Add a "Token" attribute to all elements which may contain any of the following attributes: CardNumber, CreditCard, CreditCardInfo, or PaymentCard. There may be others; these are the attributes I have noted thus far. The Token field should be defined as a 32 byte alphanumeric string (we use 16 bytes so 32 should be sufficient to make the attribute vendor neutral). If not already defined, all the above elements containing card data attributes should also support a MaskedXXX attribute equivalent such as the following: MaskedCardNumber, MaskedCreditCard, MaskedCreditCardInfo, or MaskedPaymentCard. The Masked attribute should be optional BUT the non-masked attributes should never be used when the Token attribute is present. Also, the Token attribute, when present, will replace the complex element MagneticStripe. Elements containing a Token attribute value MUST NOT contain unmasked card account numbers, magnetic stripe data, or card security code (SeriesCode).

#### Proposed Annotation

```
<xs:attribute name="Token" type="StringLength1to32" use="optional"> <xs:annotation> <xs:documentation
xml:lang="en">The token representing the payment instrument. Elements containing a token value MUST
NOT and WILL NOT contain unmasked card account numbers, magnetic stripe data, or card security codes
(CVV2,CVC, etc.) in other attributes or elements.</xs:documentation> </xs:annotation> </xs:attribute>
```

### RELEASE NOTES

#### Schema File Name: OTA\_CommonTypes

#### X-Path: OTA\_CommonTypes/EncryptionTokenType

-added new common type  
EncryptionTokenType with the following:

#### Annotations:

Description: Secure information that supports PCI tokens, data masking and other encryption methods  
OpenTravel Best Practice: Use of Encrypted, Masked or Tokenized Information: Certain OpenTravel schema may have combinations payment and/or account information with other personally identifying information, such as customer name and date of birth. For enhanced customer privacy and security, it is RECOMMENDED that the payment and account information be protected, using tokenization or some other encryption method and displayed in a masked format.

#### - element(s)

PlainText, of type xs:string, minOccurs=0  
Description: Non-secure (plain text) value.

TPA\_Extensions, of type TPA\_Extension, minOccurs=0

#### - attributes

EncryptionKey, of type xs:string; optional  
Description: Database key.  
Example: KHC32198gt4

Note: This contains a key required to retrieve the full payment instrument details compliant with PCI DSS standards.

EncryptionKeyMethod, of type xs:string, optional  
Description: Encryption key method.  
Example: RotatingKeyEnvironment\_DailyKey

Developer: This contains a reference to the key generation method being used - this is NOT the key value.

EncryptionMethod, of type xs:string, optional  
Description: Encryption method  
Example: Triple DES

OpenTravel Best Practice: Encryption Method: When using the OpenTravel Encryption element, it is RECOMMENDED that all trading partners be informed of all encryption methods being used in advance of implementation to ensure message processing compatibility.

EncryptedValue, of type xs:string, optional  
Description: Encrypted value  
Example: 5dfc52b51bd35553df8592078de921bc

Mask, of type xs:string, Optional  
Description: Masked data  
Example: xxxxxxxxxxxx9922</xs:documentation>

Token, of type xs:string, optional  
Description: Tokenized value  
Example: AEGHV234AUD54367

TokenProviderID, of type xs:string, optional  
Description: Provider ID.  
Example: Shift4 (payment)  
Developer: This contains a provider ID if multiple providers are used for secure information exchange.

### **BankAcctType**

-Deprecated  
@BankAccountNumber  
@BankID

-added new elements  
BankAccountNumber, of type EncryptionTokenType  
Description: AccountNumber  
OpenTravel Best Practice: Bank Account Payment Instruction Tokens: Some OpenTravel schema may contain combinations of elements and attributes that have bank account number and other personally identifying information within the schema, such as customer name and date of birth. For enhanced customer privacy and security, it is RECOMMENDED that the bank account number and ID be encrypted, using tokenization or some other method.

BankID, of type EncryptionTokenType  
Description: Bank ID or routing number

### **PaymentCardType**

-deprecated attributes  
@MaskedCardNumber  
@CardNumber  
@SeriesCode  
@EncryptionKey

-added new elements

CardNumber, of type EncryptionTokenType  
Description: Credit card number embossed on the card.

SeriesCode, of type EncryptionTokenType  
Description: Verification digits

The MagneticStripe element was converted to EncryptionTokenType

292

**Submitted By:**  
**Stephen Burke**  
**TAXEO**

-----  
**SUBMITTER**  
-----

**Comment**

We need to know the company country – this is necessary to determine certain information about how the tax refund can be processed.

**Proposed Change**

Add an element OTA\_LoyaltyAccountCreateRQ/AccountInfo/MemberInfo/CompanyCountry of type ISO3166

**Proposed Annotation**

Identifies the country of the company headquarters of the traveler, expressed using ISO 3166.

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_CommonTypes

**X-Path:** OTA\_CommonTypes @group CompanyID\_AttributesGroup

-added new attribute

CompanyID\_AttributesGroup/@CountryCode of type ISO3166, optional

*Annotations:*

Identifies the country location of the company headquarters.

Example: us



293

Submitted By:  
Stephen Burke  
TAXEO

-----  
**SUBMITTER**  
-----

**Comment**

Opt-in – for the purposes of collecting customer data, we need to add an opt-in. Our attorneys for data protection advise us that we need to capture the opt-in Boolean and the datetime stamp.

**Proposed Change**

Add an element OTA\_LoyaltyAccountCreateRQ/AccountInfo/OptIn with two attributes:

@Consent of type boolean

@Timestamp of type xs:dateTime

**Proposed Annotation**

OptIn - Indicates whether or not the consumer has agreed to the collection of his customer data.

Timestamp - Indicates the exact time that the opt in request was received. For added protection, it is recommended to perform an IP address capture of the requester terminal.

Consent - When true indicates that the consumer has given his consent for the collection of his customer data, when false, the consumer has not given his consent.

-----  
**RELEASE NOTES**  
-----

**Schema File Name: OTA\_CommonTypes**

**X-Path: OTA\_CommonTypes @group ShareAllGroup**

-added three new attributes

ShareAllGroup attributeGroup

**@OptInStatus**, of type xs:string, optional with the following enumerations:

- OptedIn – Opted in.
- OptedOut – Opted out.
- Unknown – Opt in status is unknown.

*Annotations:*

Status of the opt in.

Example: OptedIn

**@OptInDate**, xs:dateTime, optional

*Annotations:*

Date and time of opt in.

Example: 2012-01-14T09:57:59

**@OptOutDate**, xs:dateTime, optional

*Annotations:*

Date and time of opt out.

Example: 2012-01-14T09:57:59

**Schema File Name: OTA\_LoyaltyCommonTypes**

-added new attributeGroup

AccountInfoType/@ShareAllGroup

**Submitted By:**  
**Robert Paresi**  
**InnQuest**  
**Software**

-----  
**SUBMITTER**  
 -----

**Comment**

We need to be able to send billing instruction information in this message.

**Proposed Change**

In OTA\_HotelInvBlockNotifRQ/InventoryBlock directly under HotelRef add the BillingInstructionCode structure as found in OTA\_HotelReservation.xsd/HotelReservationType/BillingInstructionCode. Will not need the ResGuestRPH element.

**Proposed Annotation**

BillingInstructionCode - Designates master billing for the entire group (e.g., Bill to a college).

-----  
**RELEASE NOTES**  
 -----

**Schema File Name:** OTA\_HotelCommonTypes

**X-Path:** OTA\_HotelCommonTypes/BillingInstructionType

-added new complexType with elements and attributes

**BillingInstructionType**

*Annotations:*

Hotel billing instructions definition.

**Type** of type List\_ReservationBilling, optional

*Annotations:*

Description: Billing code type.

Example: Corporate

Note: This is a string list of enumerations with an "Other\_" literal to support an open enumeration list. Use the "Other\_" value in combination with the @extension attribute to exchange a literal that is not in the list and is known to your trading partners.

**@Code**, of type xs:string, required

*Annotations:*

Description: Billing code

Example: FOODB21

Note: This is the individual billing code that applies to a set of instructions that are routed to a designated folio.

**@AuthorizationCode**, of type xs:string, optional

*Annotations:*

Description: Associated authorization code.

Example: AC201301

Note: This is an authorization code that is associated with the billing code.

**@Description**, of type xs:string, optional

*Annotations:*

Description:

Short description.

Example: Food/Beverage

Note: This short description may describe the billing code or billing instructions.

**@DateTimeSpanGroup**

*Annotations:*

Description: Date and time for which the billing instruction applies.

**@AccountNumber**, of type StringLength1to16, optional

*Annotations:*

Description: Charge routing account number

Example: IBM2099

Schema File Name: OTA\_HotelCommonTypes

-added new complexType

InvBlockType/MethodInfo/**BillingInstruction**, minOcc = 0, maxOcc = unbounded

295

Submitted By:  
Robert Paresi  
InnQuest  
Software

-----  
**SUBMITTER**  
-----

**Comment**

We need a way to instruct the GDS or catering system how to tax status the rooms for entire block.

**Proposed Change**

Add to the OTA\_InvBlockNotifRQ/InvBlocks/InvBlock a new element TaxInformation under the HotelRef element with the following attributes:

@TaxType of type xs:NMTOKEN with the following enumerations Taxable, NonTaxable, FullExempt

@TaxReason of type StringLength1to64

@TaxID of type StringLength1to32

**Proposed Annotation**

TaxInformation – Identifies tax information for the entire group.

@TaxType – Identifies the tax status for the group.

Taxable – Indicates that all taxes apply to the group.

RoomExempt- Indicates that the group is exempt from room taxes.

FullExempt – Indicates that the group is exempt from all taxes.

Other - Tax exemption that is mutually agreed upon between trading partners.

@TaxReason – Provides a reason for the tax status of the group.

@TaxID- Tax Certificate number

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_HotelCommonTypes

**X-Path:** OTA\_HotelCommonTypes/InvBlockType

-added a new element

InvBlockType/TaxInformation, MinOcc=0 MaxOcc=1, optional

*Annotations:*

Tax information for the entire group.

InvBlockType/TaxInformation

-added attributes

**@TaxType** of type xs:string, optional

*Annotations:*

Description: Group tax status

Example: RoomExempt

*Enumerations:*

Taxable: All taxes apply to the group.

RoomExempt: The group is exempt from room taxes.

FullExempt: The group is exempt from all taxes.

**@TaxReason**, of type StringLength1to64, optional

*Annotations:*

Description: Tax status reason.

Example: VAT program participation.

**@TaxID**, of type StringLength1to32, optional

*Annotations:*

Description: Tax Certificate number.

Example: 99-99999999

<p><b>296</b></p> <p><b>Submitted By:</b> <b>Robert Paresi</b> <b>InnQuest</b> <b>Software</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need a source of business for the entire group so the third-party system knows where the business is coming from. The rate level is non-applicable.</p> <p><b>Proposed Change</b> Add a new attribute to OTA_HotelInvBlockNotifRQ/InvBlocks/InvBlock/MarketCode @SourceOfBusiness of type StringLength1to64 directly under the MarketCode attribute.</p> <p><b>Proposed Annotation</b> @SourceOfBusiness- Specifies where the business came from (e.g. radio, newspaper ad).</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelInvBlockNotifRQ <b>X-Path:</b> OTA_HotelInvBlockNotifRQ/InvBlocks/InvBlock/MarketCode</p> <p>-added new attribute InvBlocks/InvBlock/MarketCode <b>@SourceOfBusiness</b> of type StringLength1to64, optional</p> <p><i>Annotations:</i> Description: The source of the business. Example: Radio</p>
<p><b>297</b></p> <p><b>Submitted By:</b> <b>Robert Paresi</b> <b>InnQuest</b> <b>Software</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to be able to identify if the group can continue booking rooms out of general inventory if it is available after the group room block is sold out.</p> <p><b>Proposed Change</b> Add a new attribute AllowGeneralInventory of type xs:boolean.</p> <p><b>Proposed Annotation</b> When true, the general inventory can also be used in addition to the NumberOfUnits indicated. When false, the group cannot sell more than the NumberOfUnits.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelCommonTypes <b>X-Path:</b> OTA_HotelCommonTypes/InvBlockRoomType/RoomTypeAllocations/RoomTypeAllocation</p> <p>-added new attribute InvBlockRoomType/RoomTypeAllocations/RoomTypeAllocation <b>@AllowGeneralInvInd</b> of type xs:boolean, optional</p> <p><i>Annotations:</i> If true, the general inventory can also be used in addition to the NumberOfUnits indicated. If false, the group cannot sell more than the NumberOfUnits. Example: true</p>

298

Submitted By:  
Carine Bastard  
Amadeus

-----  
**SUBMITTER**  
-----

**Comment**

We need to add a HotelStatus by channel to indicate if the property should be locked or unlocked on a specific channel. Example: A property can be unlocked on Sabre and Amadeus and locked on Travelport

**Proposed Change**

Add a new element GDS\_Statues in GDS\_Info : GDS\_Info/GDS\_Statues (o..n) Add a new element GDS\_Status in GDS\_Statues Add 3 new attributes under GDS\_Status: @GDS\_Code Stringlength1To8 @GDS\_Name StringLength1To32 @HotelStatusCode OTACodeType (HST)

**Proposed Annotation**

GDS\_Statues: the element act as a container for activation status. It is used to send them for each GDS  
GDS\_Status : gives the hotel status per GDS @GDS\_Code : represent the code of the GDS. Ex (1A for Amadeus, AA for Sabre ...) @GDS\_Name: name of the GDS @HotelStatusCode: Indicates the status of the property

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_HotelCommonTypes  
**X-Path:** OTA\_CommonTypes/GDS\_InfoType

-added new element  
GDS\_InfoType  
**GDS\_Statues**, minOcc = 0, maxOcc = 1  
*Annotations:*  
Collection of GDS Statues

-added new element  
GDS\_InfoType  
**GDS\_Status**, minOcc = 1, maxOcc = unbounded  
*Annotations:*  
Hotel status per GDS.

-added attributes  
**@Code**, of type StringLength1to8, optional  
*Annotations:*  
Description: GDS code.  
Example: AA

**@Name**, of type StringLength1to32, optional  
*Annotations:*  
Description: GDS name.  
Example: Amadeus

**@HotelStatusCode**, of type OTA\_CodeType, optional  
*Annotations:*  
Description: Property Status. Refer to OpenTravel Code List Hotel Status Code (HST).  
Example: Open

299

Submitted By:  
Tony Williams  
TTI

-----  
**SUBMITTER**  
-----

**Comment**

Add a new attribute <TTIcode> to enable this unique property identifier to be exchanged between trading partners

**Proposed Change**

Add a new attribute TTIcode of type xs:numeric to the HotelReferenceGroup attributeGroup

**Proposed Annotation**

A code, maintained by the Travel Technology Initiative (TTI), providing a unique way to identify a property across a multiplicity of channels, service providers, tour companies, representation companies and third parties involved in the booking, administration and fulfillment of travel within the hospitality industry.

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_CommonTypes

**X-Path:** OTA\_CommonTypes @group HotelReferenceGroup

@HotelReferenceGroup  
-added a new attributes

**@TTIcode**, of type xs:positiveInteger, optional

*Annotations:*

Description: TTI hotel reference code.

Example: 123

Note: This code is maintained by the Travel Technology Initiative (TTI) and provides a unique way to identify a property across a multiplicity of channels, service providers, tour companies, representation companies and third parties involved in the booking, administration and fulfillment of travel within the hospitality industry.

For more information: <http://www.tti.org/tticodes.html>

300

Submitted By:  
Romain  
Tournier  
Amadeus

-----  
**SUBMITTER**  
-----

**Comment**

We need to add a textual description element to store a short hotel description and a deposit policy description for competitor hotels

**Proposed Change**

Add a new element MultimediaDescriptions/MultimediaDescription/ TextItems/TextItem/Description under .../OtherHotel element Add 2 new attributes under MultimediaDescription @AdditionalDetailCode OTA\_CodeType ADT @InfoCode OTA\_CodeType INF Add 1 new attribute under Description : @Language xs:language

**Proposed Annotation**

All the elements in this path,  
HotelDescriptiveContentType/AreaInfo/OtherHotels/OtherHotel/MultimediaDescriptions/MultimediaDescription/TextItems/TextItem/Description, can be based on the elements under  
HotelDescriptiveContentType/MultimediaDescriptions @AdditionalDetailCode : Used to designate a particular type of additional information. Refer to OpenTravel Code List Additional Detail Type (ADT). @InfoCode : Used to designate a particular type of description such as marketing. Refer to OpenTravel Code List Information Type (INF). @Language : Language identification

-----  
**RELEASE NOTES**  
-----

**Schema File Name: OTA\_HotelContentDescription**

**X-Path: OTA\_HotelContentDescription/HotelDescriptiveContentType**

Rather than add information in the OtherHotel Section of the message which would duplicate fields from other areas within the message we added an RPH to the HotelDescriptiveContent level so that we could reuse the fields where they already exist.

OTA\_HotelContentDescription/HotelDescriptiveContentType

-added a new attribute

**@RPH**, of type RPH\_Type, optional

*Annotations:*

Description: Descriptive Content Reference ID.

Example: 1

Note: This is a unique reference ID for one set of descriptive information that is set here and may be referenced elsewhere in this message.

OpenTravel Best Practice: Using Reference Place Holders: The reference place holder (RPH) is a unique ID assigned to an instance in a collection of like items (e.g. used to assign a unique ID to each passenger in a list of passengers. When referencing an RPH, the same RPH type is used to identify the assigned unique ID in an element that references the item in a collection.

AreaInfoType/OtherHotels/OtherHotel

-added a new attribute

**@HotelContentRPH**, of type RPH\_Type, optional

*Annotations:*

Description: Descriptive Content Reference ID.

Example: 1

Note: This descriptive content reference ID was defined elsewhere in this message

OpenTravel Best Practice: Using Reference Place Holders: The reference place holder (RPH) is a unique ID assigned to an instance in a collection of like items (e.g. used to assign a unique ID to each passenger in a list of passengers. When referencing an RPH, the same RPH type is used to identify the assigned unique ID in an element that references the item in a collection.

<p><b>301</b></p> <p><b>Submitted By:</b> <b>John Taverna</b> <b>Sabre</b></p>	<div>-----</div> <p><b>SUBMITTER</b></p> <div>-----</div> <p><b>Comment</b> We would like to be able to return the fact that a rate plan may not be cancelled after the cancel deadline has passed. If no Deadline is included then the rate plan may not be cancelled at all. We would like to return this attribute in availability responses as well as reservation (new and modify) responses.</p> <p><b>Proposed Change</b> Add new attribute to the CancelPenaltiesType complex type called "NonCancelable" of type xs:boolean. The default value would be false. /OTA_HotelAvailRS/RoomStays/RoomStay/RatePlans/RatePlan/CancelPenalties/CancelPenalty/@NonCancelable</p> <p><b>Proposed Annotation</b> Indicates whether or not the reservation may be cancelled once the cancellation deadline has expired.</p> <div>-----</div> <p><b>RELEASE NOTES</b></p> <div>-----</div> <p><b>Schema File Name:</b> OTA_HotelCommonTypes <b>X-Path:</b> OTA_HotelCommonTypes/CancelPenaltyType</p> <p>CancelPenaltyType -added a new attribute <b>@NoCancelInd</b>, of type xs:boolean, optional</p> <p><i>Annotations:</i> Description: If true, the reservation may not be cancelled once the cancellation deadline has expired. Example: false Note: This will typically be set to false indicating that a reservation may be cancelled.</p>
--	--



302

Submitted By:  
Romain  
Tournier  
Amadeus

-----  
*SUBMITTER*  
-----

**Comment**

We need to store policies information for competitor hotels : contracting currency / contracting language for group / Is a local DMC suggested or required / Maximum group size

**Proposed Change**

Add a new element Policies/Policy under .../OtherHotel element Add 4 new attributes under Policies/Policy :  
@ContractingCurrency AlphaLength3 @ContractingLanguageForGroup xs:language  
@IsLocalDMCSuggestedOrRequired xs:boolean @MaximumGroupSize xs:nonNegativeInteger

**Proposed Annotation**

Policies (o..n) : A collection of policy information as it applies to the Other Hotel. Policy : Describes the policies of the hotel, such as the contracting currency or the maximum group size. @ContractingCurrency : Currency used for contracts. @ContractingLanguage : Language used for contracts. @IsLocalDMCSuggestedOrRequired : to know whether a local Destination Management Company is suggested or required. @MaximumGroupSize : The maximum

-----  
**RELEASE NOTES**  
-----

**Schema File Name: HotelContentDescription**

**X-Path: HotelContentDescription /PoliciesType/Policy**

PoliciesType/Policy  
-added a new element

**GroupPolicies** minOcc=0, maxOcc=1

*Annotation:*

A collection of group policy information.

PoliciesType/Policy/GroupPolicies  
-added a new element

**GroupPolicy** minOcc=1, maxOcc=unbounded

*Annotation:*

Group policy information.

PoliciesType/Policy/GroupPolicies/GroupPolicy  
-added new attributes

**@ContractCurrency** of type AlphaLength3, optional

*Annotations:*

Description: Currency used for contracts.

Example: usd

**@ContractLanguage** of type xs:language , optional

*Annotations:*

Language used for contract.

Example: en

**@LocalDMC\_Role** of type xs:string, optional

*Annotations:*

Local Destination Management Company Role (e.g. suggested or required).

Example: Required

*Enumerations:*

Suggested – Local Destination Management Company is suggested.

Required - Local Destination Management Company is required.

**@MaxGroupSize** of type xs:positiveInteger, optional

*Annotations:*

Maximum number of people that the property will accept as a group.

Example: 500

<p><b>310</b></p> <p><b>Submitted By:</b> Carine Bastard Amadeus</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to be able to send the address of a property in a specific language (english, chinese ....)</p> <p><b>Proposed Change</b> Add the attribute @Language xs:language</p> <p><b>Proposed Annotation</b> Language in which the address is given</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/AddressType</p> <p>- added a new attribute AddressType <b>@Language</b> of type xs:language, optional <i>Annotation:</i> Address language. Example: en</p>
<p><b>311</b></p> <p><b>Submitted By:</b> Romain Tournier Amadeus</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to be able to provide the total space for exhibit</p> <p><b>Proposed Change</b> Add an attribute @TotalExhibitSpace xs:nonNegativeInteger, optional</p> <p><b>Proposed Annotation</b> Total Space available for exhibit</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelCommonTypes <b>X-Path:</b> OTA_HotelCommonTypes/MeetingRoomsType</p> <p>-added new attribute MeetingRoomsType <b>@TotalExhibitSpace</b> of type xs:nonNegativeInteger, optional <i>Annotations:</i> Total exhibition space. Example: 50000 Note: The associated unit of measurement is set in the @UnitOfMeasureCode attribute.</p>

<p><b>312</b></p> <p><b>Submitted By:</b> Cecilia Epuran Amadeus</p>	<p>----- <i>SUBMITTER</i> -----</p> <p><b>Comment</b> We need to be able to communicate that a particular service in this hotel must be highlighted in the display</p> <p><b>Proposed Change</b> Add an attribute under ../Service : @Highlight xs:boolean, optional</p> <p><b>Proposed Annotation</b> This flag indicates whether this service should be highlighted.</p> <p>----- <i>RELEASE NOTES</i> -----</p> <p><b>Schema File Name:</b> OTA_HotelContentDescription <b>X-Path:</b> OTA_HotelContentDescription/HotelInfoType/Services/Service</p> <p>HotelInfoType/Services/Service -added new attribute <b>@FeaturedInd</b> of type xs:boolean, optional <i>Annotations:</i> If true, this is a featured service for the property. Example: true</p>
--	--

<p><b>313</b></p> <p><b>Submitted By:</b> Cecilia Epuran Amadeus</p>	<p>----- <i>SUBMITTER</i> -----</p> <p><b>Comment</b> We need to be able to communicate that a particular restaurant in this hotel must be highlighted in the display</p> <p><b>Proposed Change</b> Add an attribute @Highlight xs:boolean, optional</p> <p><b>Proposed Annotation</b> This flag indicates whether this restaurant should be highlighted.</p> <p>----- <i>RELEASE NOTES</i> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/RestaurantType</p> <p>-added a new attribute RestaurantType <b>@FeaturedInd</b>, of type xs:boolean, optional <i>Annotations:</i> If true, this is a featured restaurant for the property. Example: true</p>
--	---

<p><b>314</b></p> <p><b>Submitted By:</b> Cecilia Epuran Amadeus</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to be able to communicate that a particular meeting room in this hotel must be highlighted in the display</p> <p><b>Proposed Change</b> Add a new attribute @Highlight xs:boolean, optional</p> <p><b>Proposed Annotation</b> This flag indicates whether this meeting room should be highlighted</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelCommonTypes <b>X-Path:</b> OTA_HotelCommonTypes/MeetingRoomsType/MeetingRoom</p> <p>MeetingRoomsType/MeetingRoom -added new attribute <b>@FeaturedInd</b>, of type xs:boolean, optional <i>Annotations:</i> If true, this is a featured meeting room for the property. Example: true</p>
<p><b>316</b></p> <p><b>Submitted By:</b> Nicolas da Luz Duque Amadeus</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> There is no way to currently add a multilingual description text to a video.</p> <p><b>Proposed Change</b> Add an element under ../VideoItem : Description, similar to what can be found for ImageItems: OTA_HotelDescriptiveInfoRS/HotelDescriptiveContents/HotelDescriptiveContent/MultimediaDescriptions/ MultimediaDescription/ImageItems/ImageItem/Description"</p> <p><b>Proposed Annotation</b> The description associated with the video in a specific language.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/VideoDescriptionType</p> <p>VideoDescriptionType -added new element <b>Description</b> of type FormattedTextType <i>Annotations:</i> The description associated with the image in a specific language.</p>

<p><b>318</b></p> <p><b>Submitted By:</b>  <b>Nicolas da Luz</b>  <b>Duque</b>  <b>Amadeus</b></p>	<div>-----</div> <p><b>SUBMITTER</b></p> <div>-----</div> <p><b>Comment</b>  We need to communicate the source website of a particular streaming video, since they should be integrated differently in the user interfaces.</p> <p><b>Proposed Change</b>  "Add an attribute under ../VideoFormat : @StreamingSource xs:string "</p> <p><b>Proposed Annotation</b>  Source website of the video ("YouTube", "Dailymotion", .)</p> <div>-----</div> <p><b>RELEASE NOTES</b></p> <div>-----</div> <p><b>Schema File Name:</b> OTA_CommonTypes  <b>X-Path:</b> OTA_CommonTypes/VideoItemType</p> <p>VideoItemType  -added new attribute  <b>@StreamingSource</b> of type xs:string, optional  <b>Annotations:</b>  Source website of the video.  Example: YouTube</p>
--	--

**Submitted By:**  
**John Taverna**  
**Sabre**

-----  
**SUBMITTER**  
-----

**Comment**

The Rate Amount Notif message currently only supports specification of changed rate amounts. There is no way in standardized messaging to communicate that a rate amount should be removed or that a full set of rate amounts is being sent which should replace all existing rate amounts. It would be useful to be able to communicate removal and overwrite instructions for existing rate amounts

**Proposed Change**

I propose that we add a new NotifType attribute to the root element which would apply to the message as a whole to allow a remove message or an overlay message to be communicated. The instructions would pertain to any products identified in the message. This attribute would be similar to the OTA\_HotelRatePlanNotifRQ/RatePlans/RatePlan/@RatePlanNotifType attribute. I don't think a New value would apply to the rate amount message. If we wanted to allow an overlay to apply to a rate plan as a whole and not only to specified products we could also support a new NotifScopeType attribute which would be similar to the OTA\_HotelRatePlanNotifRQ/RatePlans/RatePlan/@RatePlanNotifScopeType attribute. I think supported values would be; RatePlanRate, ProductRate

**Proposed Annotation**

```
<xs:attribute name="NotifType" use="optional"> <xs:annotation> <xs:documentation xml:lang="en">An
enumerated type that indicates whether this is an update of changed rate amounts, instructions to remove rate
amounts or a full replacement of rate amounts for specified products.</xs:documentation> <xs:documentation
xml:lang="en">Values: Delta Modification, Full Overlay Modification, Removal
Modification.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string">
<xs:enumeration value="Delta"/> <xs:enumeration value="Overlay"/> <xs:enumeration value="Remove"/>
</xs:restriction> </xs:simpleType> </xs:attribute>--
```

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_HotelRateAmountNotifRQ

**X-Path:** OTA\_HotelRateAmountNotifRQ

- added new attributes

**@NotifType** of type xs:string, optional

*Annotations:*

Notification type.

Example: Delta

Note: This indicates whether this is an update of changed rate amounts, instructions to remove rate amounts or a full replacement of rate amounts for specified products.

*Enumerations:*

Delta: Update of changed rate amounts.

Overlay: Full replacement of rate amounts for specified products.

Remove: Removal of rate amounts.

**@NotifScopeType**, of type xs:string, optional

*Annotations:*

Change scope.

Example: RatePlanRate

Note: This indicates the scope of the changes in the notification.

*Enumerations:*

RatePlanRate : Rate plan rate.

ProductRate: Product rate.

<p><b>320</b></p> <p><b>Submitted By:</b> <b>John Taverna</b> <b>Sabre</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> The rate plan notif message allows specification of a full overlay of data for the rate plan as a whole. This is useful to replace all rate amounts for the rate plan. In cases where only a single product or a set of products for the rate plan have had rate amount changes this requires full sets of data for all products to be communicated for the rate plan which requires communication and processing of a a lot of unchanged data. It would be useful to have the ability to specify an overlay of rate amounts for specified products only.</p> <p><b>Proposed Change</b> I propose that two new enumerations are supported; ProductRateOnly and RatePlanAndProductRate. When either of these notif scope type values are used in conjunction with an overlay notif type the intention would be to only overwrite rate amounts for the products included in the message and not all products for the rate plan. &lt;xs:attribute name="RatePlanNotifScopeType" use="optional"&gt; &lt;xs:simpleType&gt; &lt;xs:restriction base="xs:string"&gt; &lt;xs:enumeration value="RatePlanOnly"/&gt; &lt;xs:enumeration value="RateOnly"/&gt; &lt;xs:enumeration value="ProductRateOnly"/&gt; &lt;xs:enumeration value="RatePlanAndRate"/&gt; &lt;xs:enumeration value="RatePlanAndProductRate"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</p> <p><b>Proposed Annotation</b> ProductRateOnly - Used to limit the scope of an overlay of rate amounts to only the products included in the message RatePlanAndProductRate - Used to limit the scope of an overlay of rate amounts to only the products included in the message</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelRatePlan <b>X-Path:</b> OTA_HotelRatePlan/HotelRatePlanType</p> <p>-added two new enumerations to HotelRatePlanType @RatePlanNotifScopeType <b>ProductRateOnly:</b> Overlay of rate amounts to only the products included in the message. <b>RatePlanAndProductRate:</b> Overlay of rate amounts to only the products included in the message.</p>
--	--

<p><b>321</b></p> <p><b>Submitted By:</b> <b>Cecilia Epuran</b> <b>Amadeus</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to be able to communicate that a particular recreation in this hotel must be highlighted in the display</p> <p><b>Proposed Change</b> Add an attribute @Featured xs:boolean, optional to OTA_HotelDescriptiveContentNotifRQ/HotelDescriptiveContents/HotelDescriptiveContent/AreaInfo/Recreations/Recreation</p> <p><b>Proposed Annotation</b> When true, this recreation is a featured recreation for the property.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelContentDescription <b>X-Path:</b> OTA_HotelContentDescription/AreaInfoType/Recreations/Recreation</p> <p>AreaInfoType/Recreations/Recreation -added a new attribute <b>@FeaturedInd</b> of type xs:boolean, optional <i>Annotations:</i> If true, this is a featured recreation for the property. Example: true</p>
--	---

<p><b>328</b></p> <p><b>Submitted By:</b> Steve Sommers</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to be able to send both the EncryptionKeyMethod and the Token Provider ID in the EncryptionTokenType element</p> <p><b>Proposed Change</b> Add two new attributes @EncryptionKeyMethod of type xs:string, optional and @TokenProviderID of type xs:string, optional</p> <p><b>Proposed Annotation</b> @EncryptionKeyMethod - Encryption key method. @TokenProviderID - Token Provider ID.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/EncryptionTokenType</p> <p>-Added new attribute to EncryptionTokenType element: <b>@EncryptionKeyMethod</b>, of type xs:string, optional Annotation(s): Description: Encryption key method. Example: RotatingKeyEnvironment_DailyKey Developer: This contains a reference to the key generation method being used - this is NOT the key value.</p> <p>-Added new attribute to EncryptionTokenType element: <b>@TokenProviderID</b>, of type xs:string, optional Annotation(s): Description: Token Provider ID. Example: Shift4 (payment) Developer: This contains a provider ID if multiple providers are used for secure information exchange.</p>
<p><b>332</b></p> <p><b>Submitted By:</b> Sandy Angel</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> The attribute OTA_GolfRateRS/Course @PrepaidInd should not have the Ind at the end of the name as it is not of type boolean.</p> <p><b>Proposed Change</b> Rename the @PrepaidInd attribute to @PrepaidMethod.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_GolfRateRS <b>X-Path:</b> OTA_GolfRateRS/Course</p> <p>-changed name of attribute on Course element: @PrepaidInd to @PrepaidMethod</p>



233, 242, 243

Submitted By:  
Carine Bastard

-----  
**SUBMITTER**  
-----

**Comment**

We need to add a new element to pass several information relating to the environmental impact of a property

**Proposed Change**

Add a new element EnvironmentalImpact with 2 new sub element: CarbonIndex PowerUsage. On CarbonIndex element we need these following attributes: RoomNightCarbonFactor PositiveInteger MeetingEvtCarbonFactor PositiveInteger WeatherNormCarbonFootprint PositiveInteger WaterUsagePerRoomNight PositiveInteger WaterUsagePerDay PositiveInteger WaterDiversionPercentage PositiveInteger On PowerUsage elemnt we need these following attributes: CombineHeatPower Boolean Diesel PositiveInteger Electric PositiveInteger Gas PositiveInteger GenerateEnergy PositiveInteger Oil PositiveInteger Petrol PositiveInteger PowerSavingPol Boolean UseHeatPumps Boolean UseSolar Boolean UseWindTurbines Boolean

**Proposed Annotation**

EnvironmemtalImpact: provides information relating to the environmental impact of a property.  
CarbonIndex: provides information relating to the carbon factor of a property. Ex: what is the carbon factor of a room per night  
PowerUsage: provides information relating to the power usage of a property. Ex: does the property use Solar energy or heat pumps ...

CarbonIndex Define the carbon index of the hotel and its components  
@RoomNightCarbonFactor Used to indicate the carbon factor of a room per night  
@MeetingEvtCarbonFactor Used to indicate the carbon factor of a meeting or event  
@WeatherNormCarbonFootprint Indicates the weather-normalized carbon footprint  
@WaterUsagePerRoomNight Indicates the water usage per room per night  
@WaterUsagePerDay Indicates the water usage per room per day  
@WasteDiversionPercentage Defines the waste diversion rate  
PowerUsage Define the power sources used in the hotel  
@CombineHeatPower Used to indicate if the hotel uses combined heat and power units  
@Diesel Indicates total annual consumption of diesel power  
@Electric Indicates total annual consumption of electric power  
@Gas Indicates total annual consumption of gas  
@GenerateEnergy Indicates the amount of power generated by any sources of renewable energy generation at the hotel  
@Oil Indicates total annual consumption of heating oil  
@Petrol Indicates total annual consumption of petrol  
@PowerSavingPol Indicates if the hotel has a power saving policy  
@UseHeatPumps Indicates if the hotel uses heat pumps  
@UseSolar Indicates if the hotel uses solar energy  
@UseWindTurbines Indicates if the hotel uses wind turbines

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_CommonTypes

**X-Path:** OTA\_CommonTypes/EnvironmentalImpactType

-added new common type:

**EnvironmentalImpactType**

*Annotation:*

Property environmental impact and green program and initiative information.

OTA\_CommonTypes/EnvironmentalImpactType

-added new element

**CarbonFootprint** MinOcc = 0 MaxOcc = 1, optional

*Annotation:*

Carbon foot print information.

-added attributes:

**@NonCarbonMeasureInd** of type xs:boolean, optional

*Annotations:*

Non-carbon impact measured indicator.

Example: true

Implementer: If true, the property measures the impact of its non-carbon emitting environmental measures.

	<p><b>@NonCarbonMeasureDesc</b> of type xs:string, optional  <i>Annotations:</i>  Non-carbon measurement method.  Implementer: This describes how the property assesses the impact of its non-carbon emitting environmental measures.</p> <p><b>@MeetingEvent</b> of type xs:positiveInteger, optional  <i>Annotations:</i>  Meeting/ event carbon dioxide pound(s).  Example: 633  Implementer: This is the carbon factor of a meeting or event expressed in pounds of carbon dioxide.</p> <p><b>@RoomNight</b> of type xs:positiveInteger, optional  <i>Annotations:</i>  Room night carbon dioxide pound(s).  Example: 33  Implementer: This is the carbon factor of a room per night expressed in pounds of carbon dioxide.</p> <p><b>@WeatherNormalized</b> of type xs:positiveInteger, optional  <i>Annotations:</i>  Weather-normalized carbon dioxide pound(s).  Example: 525  Implementer: This is the weather-normalized carbon footprint expressed in pounds of carbon dioxide.</p> <p>OTA_CommonTypes/EnvironmentalImpactType/CarbonFootprint  -added element  <b>CarbonUOM</b> of type List_UnitOfMeasure, MinOcc = 0 MaxOcc = 1, optional  <i>Annotation:</i>  Carbon unit of measure.</p> <p>OTA_CommonTypes/EnvironmentalImpactType  -added new element  <b>Water</b> MinOcc = 0 MaxOcc = 1, optional  <i>Annotation:</i>  Water usage information.</p> <p>-added attributes:  <b>@GrayWaterInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Grey water recycling indicator.  Example: true  Implementer: If true, the property recycles gray-water through watering of plants and landscaping.</p> <p><b>@WaterProgramInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Active water conservation program indicator.  Example: true  Implementer: If true, the property has an active water conservation program in place, that may include low flow shower heads and toilets.</p> <p><b>@PerRoomNightUsage</b> of type xs:positiveInteger, optional  <i>Annotations:</i>  Water usage per room per night.  Example: 60  Implementer: The associated unit of measure is specified in the WaterUOM element.</p> <p><b>@PerRoomDayUsage</b> of type xs:positiveInteger, optional  <i>Annotations:</i>  Water usage per room per day.  Example: 40  Implementer: The associated water unit of measure is specified in the WaterUOM element.</p> <p><b>@WasteDiversionPercentage</b> of type Percentage, optional  <i>Annotation:</i>  Defines the waste diversion rate.</p> <p>OTA_CommonTypes/EnvironmentalImpactType/Water  -added new element  <b>WaterUOM</b> of type List_UnitOfMeasure, optional  <i>Annotation:</i>  Water unit of measure.  Example: Gallon(s)</p>
--	---

OTA\_CommonTypes/EnvironmentalImpactType/Water  
 -added new element  
**ProgramDescription** of type ParagraphType, optional  
*Annotations:*  
 Water conservation program description.

OTA\_CommonTypes/EnvironmentalImpactType  
 -added new element  
**Energy** MinOcc = 0, MaxOcc = 1, optional  
*Annotations:*  
 Property energy and power usage information.

-added the following attributes:  
**@EfficientAppliancesInd** of type xs:boolean, optional  
*Annotations:*  
 Energy efficient appliances indicator.  
 Example: true  
 Implementer: If true, the property uses energy efficient appliances (e.g. dish washers, washing machines, dryers).

**@EfficientLightingInd** of type xs:boolean, optional  
*Annotations:*  
 Energy efficient lighting used indicator.  
 Example: true  
 Implementer: If true, the property uses energy saving lighting facilities, such as energy-efficient LED fixtures.

**@HeatPowerCombInd** of type xs:boolean, optional  
*Annotations:*  
 Combined heat and power units used indicator.  
 Example: true  
 Implementer: If true, the property uses combined heat and power units.

**@HeatPumpInd** of type xs:boolean, optional  
*Annotations:*  
 Heat pumps used indicator.  
 Example: true  
 Implementer: If true, the property uses heat pumps.

**@PowerSavingPolicyInd** of type xs:boolean, optional  
*Annotations:*  
 Power saving policy indicator.  
 Example: true  
 Implementer: If true, the property has a power saving policy.

**@SolarInd** of type xs:boolean, optional  
*Annotations:*  
 Solar energy used indicator.  
 Example: true  
 Implementer: If true, the property uses solar energy.

**@TempControlInd** of type xs:boolean, optional  
*Annotations:*  
 Temperature control indicator.  
 Example: true  
 Implementer: If true, guest rooms or meeting facilities contain temperature control mechanisms, such as digital thermostats for constant temperature control.

**@WindTurbineInd** of type xs:boolean, optional  
*Annotations:*  
 Wind turbines used indicator.  
 Example: true  
 Implementer: If true, the property uses wind turbines.

**@EnergyGenerated** of type xs:positiveInteger, optional  
*Annotations:*  
 Renewable energy kilowatts amount.  
 Example: 677  
 Implementer: This is the amount of power generated by any sources of renewable energy at the hotel in kilowatts.

**@EnergyStarRating** of type xs:string, optional

*Annotations:*

Energy star rating.

Example: 4.2

Implementer: This is the energy star rating of the property.

OTA\_CommonTypes/EnvironmentalImpactType/Energy

-added new element

**Usage** MinOcc = 0 MaxOcc = unbounded, optional

*Annotation:*

Power usage detail.

-added new attribute:

**@Quantity** of type xs:decimal, optional

*Annotations:*

Power amount.

Example: 677

OTA\_CommonTypes/EnvironmentalImpactType/Energy/Usage

-added new element

**PowerType** of type List\_PowerType MinOcc = 0 MaxOcc = 1, optional

*Annotations:*

Power type.

Example: Electric

OTA\_CommonTypes/EnvironmentalImpactType/Energy/Usage

-added new element

**PowerTypeUOM** of type List\_UnitOfMeasure MinOcc = 0 MaxOcc = 1, optional

*Annotations:*

Power quantity unit of measure.

Example: Killowatt(s)

OTA\_CommonTypes/EnvironmentalImpactType/Energy

-added new element

**ProgramDescription** of type ParagraphType MaxOcc = 0 MinOcc = unbounded, optional

*Annotations:*

Energy program description.

OTA\_CommonTypes/EnvironmentalImpactType

-added new element

**Recycling** MinOcc = 0 MaxOcc = 1, optional

*Annotations:*

Recycling information.

-added new attributes:

**@ActiveProgramInd** of type xs:boolean, optional

*Annotations:*

Active recycling program indicator.

Example: true

Implementer: If true, the property has an active recycling program.

**@EcologicalDishwareInd** of type xs:boolean, optional

*Annotations:*

Non-disposable dishware indicator.

Example: true

Implementer: If true, the property uses cups, glasses, dishes, tableware and other items are long-lasting and not disposable.

OTA\_CommonTypes/EnvironmentalImpactType/Recycling

-added new element

**Details** MinOcc = 0 MaxOcc = 1, optional

*Annotation:*

Recycling details.

OTA\_CommonTypes/EnvironmentalImpactType/Recycling/Details

-added new elements

**RecycledProducts** of type List\_RecycledProducts MinOcc = 0 MaxOcc = unbounded, optional

*Annotations:*

Products recycled.

Example: Paper

	<p><b>RecyclingLocations</b> of type List_RecycleFacilityLocation MinOcc = 0 MaxOcc = unbounded, optional  <i>Annotations:</i>  Recycling facility locations.  Example: GuestRooms</p> <p>OTA_CommonTypes/EnvironmentalImpactType/Recycling  -added new element  <b>ProgramDescription</b> of type ParagraphType MinOcc= 0 MaxOcc = unbounded, optional  <i>Annotation:</i>  Recycling program description.</p> <p>OTA_CommonTypes/EnvironmentalImpactType  -added new element  <b>General</b> MinOcc = 0 MaxOcc = 1, optional  <i>Annotations:</i>  Other environmental program information.</p> <p>-added new attributes  <b>@CertificationAvailInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Certification credentials available indicator.  Example: true  Implementer: If true, the property is willing to provide a copy of their certification.</p> <p><b>@ChemicalAllergiesInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Guest sensitivity indicator.  Example: true  Implementer: If true, the property accommodates guests with chemical sensitivities and/or allergies.</p> <p><b>@EnvironmentalCleanersInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Environmentally responsible cleaning products indicator.  Example: true  Implementer: If true, the property uses environmentally responsible cleaning products.</p> <p><b>@LinenReuseInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Linen reuse program indicator.  Example: true  Implementer: If true, the property has a linen reuse program.</p> <p><b>@ProcurementPolicyInd</b> of type xs:boolean, optional  <i>Annotations:</i>  Supplier procurement policy indicator.  Example: true  Implementer: If true, the property has an environmental procurement policy in place for its suppliers.</p> <p>OTA_CommonTypes/EnvironmentalImpactType/General  -added new element  <b>Certification</b> of type ParagraphType MinOcc = 0 MaxOcc = unbounded, optional  <i>Annotations:</i>  Environmental certification program participation description.</p> <p>-added new element  <b>Environmental</b> of type ParagraphType MinOcc = 0 MaxOcc = unbounded, optional  <i>Annotations:</i>  Active environmental program description.</p>
--	---

<p><b>322</b></p> <p><b>Submitted By:</b> <b>Carine Bastard</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to indicate the rank of an image.</p> <p><b>Proposed Change</b> Add the attribute @Sort xs:NonNegativeInteger under MultimediaDescriptions/MultimediaDescription/ImageItems/ImageItem/ImageFormat</p> <p><b>Proposed Annotation</b> @Sort: Used to define the display order.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/ImageDescriptionType/ImageFormat</p> <p>ImageDescriptionType/ImageFormat -added new attribute <b>@Sort of type</b> xs:positiveInteger, optional <i>Annotations:</i> Used to define the display order. Example: 1</p>
<p><b>323</b></p> <p><b>Submitted By:</b> <b>Carine Bastard</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to indicate the contact detail of the author of an image</p> <p><b>Proposed Change</b> Add attribute under MultimediaDescriptions/MultimediaDescription/ImageItems/ImageItem/ImageFormat @AuthorContact xs:String</p> <p><b>Proposed Annotation</b> @AuthorContact: free flow text which gives some information to contact the author of an image</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/ImageDescriptionType/ImageFormat</p> <p>ImageDescriptionType/ImageFormat -added new attribute <b>@AuthorContact</b> of type xs:string, optional <i>Annotations:</i> Information to contact the author of an image. Example: email address - John@company.com</p>

324

Submitted By:  
Carine Bastard

-----  
**SUBMITTER**  
-----

**Comment**

We need to indicate the resolution, the color space (RGB) and the Geolocalization of an image

**Proposed Change**

Add attributes under MultimediaDescriptions/MultimediaDescription/ImageItems/ImageItem/ImageFormat  
@Resolution xs:PositiveInteger @ColorSpace StringLength1to64 @Latitude StringLength1to16 @Longitude  
StringLength1to16

Research Note:

The resolution of a picture expressed in DPI represent the number of pixels per inch.

The higher the DPI, the more refine the image will appear.

An image has 3 main characteristics:

- Size (pixels)
- Real dimension (cm or inch)
- Resolution (=Size/Dimension)

**Proposed Annotation**

@Resolution: define the resolution in DPI of an image expressed in number of pixels per inch.

@ColorSpace: A color model is an abstract mathematical model describing the way colors can be represented as multiples of numbers, typically as three or four values or color components (e.g. RGB and CMYK are color models).

@Latitude: The measure of the angular distance on a meridian north or south of the equator. Identifies the latitude of what is depicted in the picture.

@Longitude: The measure of the angular distance on a meridian east or west of the prime meridian. Identifies the longitude of what is depicted in the picture.

-----  
**RELEASE NOTES**  
-----

**Schema File Name: OTA\_CommonTypes**

**X-Path: OTA\_CommonTypes/ImageDescriptionType/ImageFormat**

ImageDescriptionType/ImageFormat

-added new attributes

**@Resolution** of type xs:positiveInteger, optional

*Annotations:*

The resolution of an image expressed in DPI (Dots Per Inch).

Example: 600

**@ColorSpace** of type StringLength1to64, optional

*Annotations:*

The color model.

Example: RGB

Implementers: A color model is an abstract mathematical model describing the way colors can be represented as multiples of numbers, typically as three or four values or color components.

**@Latitude** of type StringLength1to16, optional

*Annotations:*

The latitude of what is depicted in the image.

Example: 40°44'54.36"N

**@Longitude** of type StringLength1to16, optional

*Annotations:*

The longitude of what is depicted in the image.

Example: 73°59'8.5"W

<p><b>325</b></p> <p><b>Submitted By:</b> Carine Bastard</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> We need to indicate the original file name of an image</p> <p><b>Proposed Change</b> Add the attribute @OriginalFileName StringLength1To64 under MultimediaDescriptions/MultimediaDescription/ImageItems/ImageItem/ImageFormat</p> <p><b>Proposed Annotation</b> @OriginalFileName : the original name of the image file.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/ImageDescriptionType/ImageFormat</p> <p>ImageDescriptionType/ImageFormat -added new attribute <b>@OriginalFileName</b> of type StringLength1to64, optional <i>Annotations:</i> The original name of the image file. Example: 394820</p>
<p><b>329</b></p> <p><b>Submitted By:</b> Nicolas da Luz Duque</p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> There is no way to currently add a multilingual caption text to a video.</p> <p><b>Proposed Change</b> "Add the attribute @Caption under ../VideoItem/Description, as it is for ImageItem/Description: OTA_HotelDescriptiveInfoRS/HotelDescriptiveContents/HotelDescriptiveContent/MultimediaDescriptions/ MultimediaDescription/ImageItems/ImageItem/Description has a @Caption"</p> <p><b>Proposed Annotation</b> The caption associated with the image in a specific language.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_CommonTypes <b>X-Path:</b> OTA_CommonTypes/VideoDescriptionType/Description</p> <p>VideoDescriptionType/Description -added new attribute <b>@Caption</b> of type StringLength1to128, optional <i>Annotations:</i> The caption associated with the image in a specific language. Example: The Empire State Building at sunset.</p>



<b>335</b>  <b>Submitted By:</b> <b>Tony Williams</b>	<div>-----</div> <div><b>SUBMITTER</b></div> <div>-----</div> <div><b>Comment</b></div> <div>The annotation for the Country Code needs to make clear that it relates to the company headquarters location</div> <div><b>Proposed Change</b></div> <div>Add 'headquarters' after 'company in the attribute's annotation.</div> <div><b>Proposed Annotation</b></div> <div>The country location of the company headquarters.</div> <div>-----</div> <div><b>RELEASE NOTES</b></div> <div>-----</div> <div><b>Schema File Name: OTA_CommonTypes</b></div> <div><b>X-Path: OTA_CommonTypes @Group CompanyID_AttributesGroup</b></div> <div>CompanyID_AttributesGroup @CountryCode</div> <div>-updated annotation</div> <div><i>Annotations:</i></div> <div>The country location of the company headquarters.</div>
--	--

<b>336</b>  <b>Submitted By:</b> <b>Roy Nielsen</b>	<div>-----</div> <div><b>SUBMITTER</b></div> <div>-----</div> <div><b>Comment</b></div> <div>There is no HotelEventModifyRQ/RS schemas.</div> <div><b>Proposed Change</b></div> <div>Adding an attribute on OTA_HotelEventRQ/RS schemas indicating it is an modification of an existing event.</div> <div>OTA_HotelEventRQ @ModifyInd</div> <div>OTA_HotelEventRS @ModifyInd</div> <div><b>Proposed Annotation</b></div> <div>If true, this transaction is a modification to an existing event.</div> <div>-----</div> <div><b>RELEASE NOTES</b></div> <div>-----</div> <div><b>Schema File Name: OTA_HotelEventRQ</b></div> <div><b>X-Path: OTA_HotelEventRQ</b></div> <div>-added a new attribute</div> <div><b>@ModifyInd</b> of type xs:boolean, optional</div> <div><i>Annotations:</i></div> <div>If true, this transaction is a modification to an existing event.</div> <div>Example: true</div> <div><b>Schema File Name: OTA_HotelEventRS</b></div> <div><b>X-Path: OTA_HotelEventRS</b></div> <div>-added a new attribute</div> <div><b>@ModifyInd</b> of type xs:boolean, optional</div> <div><i>Annotations:</i></div> <div>If true, this transaction is a modification to an existing event.</div> <div>Example: true</div>
--	---

337

Submitted By:  
Jay Rosamilia

-----  
**SUBMITTER**  
-----

**Comment**

Need the ability to pass an indicator to identify that an email address is known to be good/valid.  
Need to be able to identify the preferred format for sending an email address.

**Proposed Change**

This is an indicator that a system had successfully been able to email to this address and that it is known to be a good/valid email address.

Add attribute OTA\_CommonTypes/ EmailType @ValidInd of type xs:boolean, optional

This is the preferred format that should be used when sending an email to this address. Examples are plain versus html. MIME types of "text/html" or "text/plain" would probably be the standard approach.  
Add attribute OTA\_CommonTypes/ EmailType @TextFormat of type List\_ContentType, optional

**Proposed Annotation**

ValidInd:

Description: Valid email address indicator.

Example: true

Developer: If true, this is a valid email address that has been system verified via a successful email transmission.

TextFormat:

Description: Preferred email format.

Example: text/plain

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_CommonTypes

**X-Path:** OTA\_CommonTypes/EmailType

EmailType

-added a new attributes

**@ValidInd** of type xs:boolean, optional

*Annotations:*

Valid email address indicator.

Example: true

Implementer: If true, this is a valid email address that has been system verified via a successful email transmission.

**@TextFormat** of type xs:string, optional, with enumerations: text/html, text/plain

*Annotations:*

Preferred email format.

Example: text/plain

338

Submitted By:  
Jay Rosamilia

-----  
**SUBMITTER**  
-----

**Comment**

It is especially important for marketers to know if a mailing address is complete and has been verified either through an address verification service or that previously mailed materials have not been returned.

**Proposed Change**

Add an indicator to identify that the Address is valid.

Add attribute OTA\_CommonTypes/ AddressType @ValidInd of type xs:boolean

**Proposed Annotation**

Description: Valid address indicator.

Example: true

Developer: If true, this is a valid and complete mailing address that has been verified through an address verification service or previously mailed materials have not been returned.

-----  
**RELEASE NOTES**  
-----

**Schema File Name:** OTA\_CommonTypes

**X-Path:** OTA\_CommonTypes/AddressType

AddressType

-added a new attribute

**@ValidInd** of type xs:boolean, optional

*Annotations:*

Valid address indicator.

Example: true

Implementer: If true, this is a valid and complete mailing address that has been verified through an address verification service or previously mailed materials have not been returned.

339

Submitted By:  
Jay Rosamilia

-----  
**SUBMITTER**  
-----

**Comment**

Business Purpose: Names can be represented in a number of languages. In today's global society, many travelers have both an Eastern Name as well as a Western Name. This new attribute will allow systems to know which language the name represents.

Many names can be provided on a profile, but there should be a primary.

**Proposed Change**

Add an attribute OTA\_CommonTypes/ PersonNameType @Language of type xs:language, optional

Add an attribute OTA\_CommonTypes/ PersonNameType @DefaultInd of type xs:boolean, optional

**Proposed Annotation**

Language:

Description: Name representation language.

Example: en

Developer: This represents which language the name is represented in, e.g. an Eastern name versus a Western name.

DefaultInd:

Description: Primary name indicator.

Example: true

Developer: If true, this is the default or primary name within a collection of names.

-----  
**RELEASE NOTES**  
-----

**Schema File Name: OTA\_CommonTypes**

**X-Path: OTA\_CommonTypes/PersonNameType**

PersonNameType

-added a new attributes

**@Language** of type xs:language, optional

*Annotations:*

Name representation language.

Example: en

Implementer: This represents which language the name is represented in, e.g. an Eastern name versus a Western name.

**@DefaultInd** of type xs:boolean, optional

*Annotations:*

Primary name indicator.

Example: true

Implementer: If true, this is the default or primary name within a collection of names.

<p><b>340</b></p> <p><b>Submitted By:</b> <b>John Taverna</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> There is currently a required indicator for services to identify if a service is required. We have the need to identify that a category of service is required instead of a particular service item.</p> <p><b>Proposed Change</b> We are proposing that a new attribute be added to define the service category by code and a flag to identify if the category is required. Add attributes: OTA_HotelAvailRS/Services/Service @ServiceCategoryCode of type StringLength1to16, optional and @CategoryRequiredInd of type xs:boolean, optional.</p> <p><b>Proposed Annotation</b> ServiceCategoryCode - The representation of the specific service category for the service being reserved. CategoryRequiredInd - When true, a service from the service category is required and/or mandatory.</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_HotelReservation <b>X-Path:</b> OTA_HotelReservation/ServicesType</p> <p>ServicesType -added a new element <b>ServiceCategory</b> , optional minOcc = 0, maxOcc = unbounded <i>Annotations:</i> Hotel systems often group multiple services into a single category. This refers to that category that is specific to the hotel CRS/PMS.</p> <p>-added a new attributes <b>@ServiceCategoryCode</b> of type StringLength1to16, required <i>Annotations:</i> The representation of the specific service category for the service being reserved.</p> <p><b>@RequiredInd</b> of type xs:Boolean, optional <i>Annotations:</i> When true, a service from the service category is required and/or mandatory Example: true</p> <p>ServicesType/Service -added a new attribute <b>@ServiceCategoryCode</b> of type StringLength1to16, required <i>Annotations:</i> The representation of the specific service category for this specific service.</p>
<p><b>341</b></p> <p><b>Submitted By:</b> <b>Laszlo Csaba</b> <b>Lorincz ePam</b></p>	<p>----- <b>SUBMITTER</b> -----</p> <p><b>Comment</b> JiBX/Java reports ' as unmappable character. Position.java:[102,93] unmappable character for encoding UTF-8 Position.java:[102,126] unmappable character for encoding UTF-8 Position.java:[111,93] unmappable character for encoding UTF-8 Position.java:[111,126] unmappable character for encoding UTF-8 RelativePosition1.java:[170,89] unmappable character for encoding UTF-8 RelativePosition1.java:[170,122] unmappable character for encoding UTF-8 RelativePosition1.java:[179,89] unmappable character for encoding UTF-8 RelativePosition1.java:[179,122] unmappable character for encoding UTF-8.</p> <p><b>Proposed Change</b> Replace 's with 's</p> <p><b>Proposed Annotation</b> N/A</p> <p>----- <b>RELEASE NOTES</b> -----</p> <p><b>Schema File Name:</b> OTA_VehicleCommonTypes <b>X-Path:</b> OTA_VehicleCommonTypes</p>

	-changed character OTA_CommonTypes.xsd OTA_GroundCancelRS OTA_HotelCacheChangeRQ/RS
--	--