June 2011

OpenTravel 2011A Schema Publication Release Notes
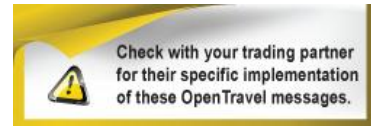
New OpenTravel Messages

Hotel Cache Change Notification Messages (OTA_HotelCacheChangeNotif)

Overview

View the OpenTravel Hotel Cache Change Schema Dictionary (TBC with Final 2011A Publication)

OTA_HotelCacheChangeNotifRQ/RS

The OpenTravel Hotel Cache Change Notification message set allows a hotel supplier to push their changed hotel rates and availability information to a trading partner that caches their hotel rates and availability information and have the trading partner send an acknowledgement message that they received the information.

Note that this message set is designed to allow the trading partner to receive the changed rates and availability information from the supplier so the trading partner can create a subsequent targeted Hotel Availability Request message that only requests the specific supplier data that has changed and needs to be updated in the trading partner cache.

Hotel Cache Change Notification Request information includes:

- Point of sale information for the requestor
- Unique identifier information that allows trading partners to uniquely identify each Hotel Cache Change Notification Request message for transaction tracing purposes
- Destination system information that specifies a receiving system for the message information
- Cache change information-which specifies what hotel supplier data has changed and should be updated in the trading partners system via a subsequent OTA_HotelAvailRQ message-including:
  - o Chain, brand and hotel codes
  - o The start and end date of information that should be updated in the cache for the associated @HotelCode and an optional "change date mask" that indicates if there are changes in all or a portion of the returned date range; including Length of stay that indicates how many days of availability from start date should be shopped; and Full Pattern Length Of Stay to indicate which days from start date should be shopped
  - o Other changed product details, including rate plan and promotion details

The Hotel Cache Change Notification Response message may return:

- A success indicator (indicating that the message was successfully received and processed)
- A business warning (indicating that some portion of the message processing generated a business condition)
- An error response (indicating why the message could not be processed)

OpenTravel Hotel Cache Change Notification Schema Sample Instances

1. (OTA_HotelCacheChangeNotifRQ_SimpleAvail.xml/
   OTA_HotelCacheChangeNotifRS_SimpleAvail.xml)

A hotel supplier notifies their trading partners of **availability changes** that include:

1.1. The Hotel will be closed on March 29, 2011
1.2. There have been Room Availability and restriction changes for:
    1.2.1. April 1, 2011 – April 4, 2011: KB close
    1.2.2. April 7, 2011 – April 17, 2011: KB close to arrival
    1.2.3. May 15, 2011 - May 23, 2011: KB LOS = 3
1.3. There have been Rate Availability and restriction changes for:
    1.3.1. June 1, 2011 – June 4, 2011: RACK close
    1.3.2. June 7, 2011 – June 17, 2011: RACK close to arrival
    1.3.3. July 15, 2011 - July 23, 2011: RACK LOS = 3
1.4. There are Product Availability and restriction changes for:
    1.4.1. August 17-20 RACK/KB close
    1.4.2. August 25-28 RACK/KB close to arrival
1.5. September 1-5 RACK / KB FPLOS=0011001

2. (OTA_HotelCacheChangeNotifRQ_SimplePricing.xml/
   OTA_HotelCacheChangeNotifRS_SimplePricing.xml)

   A hotel supplier notifies their trading partners of **simple pricing changes** that include:

   2.1. May 1, 2011 through May 14, 2011 on KB/RACK (room type rate plan combination) to $100.
   2.2. Unique daily price changes on KB/KBRACK room type rate plan combination) as follows:
       2.2.1. August 1, 2011: KB/Rack: $150
       2.2.2. August 2, 2011: KB/Rack: $170
       2.2.3. August 3, 2011: KB/Rack: $150
       2.2.4. August 4, 2011: KB/Rack: $90

3. (OTA_HotelCacheChangeNotifRQ_PricingLOS.xml/
   OTA_HotelCacheChangeNotifRS_PricingLOS.xml)

   A hotel supplier notifies their trading partners of **length of stay pricing changes** that include:
   3.1. June 5, 2011: KB/Rack
       3.1.1. 1 nt $100 per night
       3.1.2. 2 nt $120 per night
       3.1.3. 3 nt $80 per night
       3.1.4. 4 nt $110 per night
       3.1.5. 5 nt $80 per night
       3.1.6. 6 nt $110 per night
       3.1.7. 7 nt $100 per night
   3.2. June 6, 2011: KB/Rack
       3.2.1. 1 nt $100 per night
       3.2.2. 2 nt $110 per night
       3.2.3. 3 nt $100 per night
       3.2.4. 4 nt $110 per night
       3.2.5. 5 nt $80 per night
       3.2.6. 6 nt $100 per night
       3.2.7. 7 nt $120 per night

4. (OTA_HotelCacheChangeNotifRQ_InventoryChange.xml/
   OTA_HotelCacheChangeNotifRS_InventoryChange.xml)

   A hotel supplier notifies their trading partners of **changed inventory** that includes:
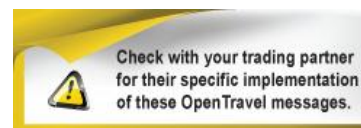
   4.1. November 26, 2011:

        4.1.1. KB: 18 Rooms
        4.1.2. QB: 2 Rooms
        4.1.3. STE: 3 rooms
    4.2. December 15, 2011:
        4.2.1. KB: 8 Rooms
        4.2.2. QB: 12 Rooms
        4.2.3. STE: 3 rooms
    4.3. December 16, 2011
        4.3.1. KB: 15 rooms
        4.3.2. QB: 6 rooms
        4.3.3. STE: 0 rooms (focus on inventory of zero for this sample instance)

Ground Transportation Messages (OTA_Ground)

Overview

[View the OpenTravel Ground Transportation Schema Dictionary (TBC with Final 2011A Publication)](#)

The new OpenTravel Ground Transportation schema is designed to support XML distribution for the personal ground transportation sector (that includes limousine, black car and personal shuttle service) and covers the scope of web services required to implement a modern personal ground transportation reservation system.

The 2011A OpenTravel Publication includes three new Ground Transportation message sets:

- OTA_GroundAvailRQ/RS – Check ground transfer service availability
- OTA_GroundBookRQ/RS – Create a ground transportation service reservation (booking)
- OTA_GroundResRetrieveRQ/RS – Retrieve a ground transportation service reservation

Additional OpenTravel Ground Transportation message sets planned for future publication include:

- OTA_GroundModifyRQ/RS – Modify a ground service reservation
- OTA_GroundCancelRQ/RS – Cancel a ground service reservation
- OTA_GroundResNotifRQ/RS – A push notification of new, modified or cancelled ground service reservations
- OTA_GroundRulesRQ/RS – Ground transportation payment and guarantee rules by service type
- OTA_GroundCloseoutRQ/RS – Back-office processing

OTA_GroundAvailRQ/RS

The OpenTravel Ground Transportation Availability message set queries a suppliers system for service availability that matches specified search criteria.

Ground Transportation Availability Request information includes:

- Point of sale information for the requestor
- Type of service-including airport and simple transfers
- Date and time of required service
- Pickup, stops and drop-off details
- Passenger and baggage quantities
- Special requirements-including child car seats, fuel efficient vehicle, meet & greet and ADA equipped vehicles
- Rate qualifying information-including promotions and corporate account details
- Vehicle type-including limousine and luxury sedan

The Ground Transportation Availability Response message may return:

- A success indicator with reservation availability details
- A business warning with or without reservation availability details
- An error response (indicating why the message could not be processed) with no reservation availability details as the availability request has not been processed and/or confirmed

If successfully processed, the Ground Transportation Availability Response message returns one or more supplier availability that matches specified search criteria, including:

- Service information (including service type, vehicle type, ADA equipped vehicle indicator and recommended maximum passengers and baggage)
- Vehicle make and model information
- Rate qualifying information associated with the vehicle and/or ground transportation service
- Restrictions that apply to the vehicle and/or ground transportation service, such as advanced booking, guarantees and cancellation/ modification penalty indicators
- Service charges, including taxes, minimum and maximum charges, and service charge calculation details
- Fees that may be applied in addition to the Ground Transportation Service charges
- Estimated total charges
- Service availability reference ID/number
- Payment rules that are applicable to a specific vehicle or ground service type

OTA_GroundBookRQ/RS

The OpenTravel Ground Transportation Reservation (Booking) message set includes the information required to create a ground transportation reservation.

Ground Transportation Reservation Request information includes:

- Point of sale information for the requestor
- Availability reference ID (A reference ID that was returned in a prior availability response message and may be used to reduce the amount of duplicate information in this request)
- Service locations, that include pickup, stop(s) and drop-off details
- Primary passenger and additional passenger contact information
- General passenger information that may determine the class of vehicle required
- Passenger preferences (including service type, vehicle type, ADA equipped vehicle indicator and recommended maximum passengers and baggage)
- Rate qualifying information associated with the vehicle and/or ground transportation service
- Payment rules that are applicable to a specific vehicle or ground service type
- An option to pass an event manifest (e.g. multiple passenger list) for supplier processing and future car/ service assignment

The OpenTravel Ground Transportation Booking Response message may return:

- A success indicator with reservation booking details
- A business warning with or without reservation booking details
- An error response (indicating why the message could not be processed) with no reservation details as the booking request has not been processed and/or confirmed

If successfully processed, the Ground Transportation Booking Response information includes:

- A confirmation number for the successfully booked ground transportation service reservation
- Information about a primary passenger (who is the contact for this reservation) and additional passengers associated with the reservation
- Information about the locations associated with the reservation, including pickup, interim stop(s) and drop-off details
- Vehicle make and model information associated with this reservation
- Rate qualifying information associated with the vehicle and/or ground transportation service reservation
- Service charges, including taxes, minimum and maximum charges, and service charge calculation details

- Fees that may be applied in addition to the Ground Transportation Service charges
- Estimated total charges
- Restrictions that apply to this vehicle/ ground transportation service reservation
- Payment rules that are applicable to this ground service reservation
- Comments associated with this reservation

OTA_GroundResRetrieveRQ/RS

The OpenTravel Ground Transportation reservation retrieve request/response message set is used to retrieve an existing Ground Transportation reservation. Note that this message set allows a reservation to be queried against based on a (valid) unique reservation identifier or reservation search criteria.

Ground Transportation Reservation Retrieve Request information includes:

- Point of sale information for the requestor
- Point of sale information for the requestor
- A choice between entering a known ground transportation service reservation identifier used to return one exact matching reservation -OR- basic search criteria used to retrieve one or more matching reservations:
    - A reference ID for the existing ground transportation reservation
    - Search criteria that can be used to retrieve an existing ground transportation reservation if the reservation ID/reference number is not known, including passenger name/contact information and rate qualifiers associated with the reservation

The Ground Transportation Retrieve Reservation Response may return:

- A success indicator with existing reservation details for an exact match for one reservation (typically when a valid reservation reference ID/number has been specified)
- A success indicator with existing reservation details for a list of (multiple) reservations that match any portion of the criteria specified in the Ground Transportation Reservation Retrieve request message
- A business warning with or without existing reservation details
- An error response (indicating why the message could not be processed) with no reservation details as the reservation retrieve request has not been processed

If successfully processed, the Ground Transportation Retrieve Reservation Response information includes:

- A confirmation number for the ground transportation service reservation
- Information about a primary passenger (who is the contact for the reservation) and additional passengers associated with the reservation
- Information about the locations associated with the reservation, including pickup, interim stop(s) and drop-off details
- Vehicle make and model information associated with the reservation
- Rate qualifying information associated with the vehicle and/or ground transportation service reservation
- Service charges, including taxes, minimum and maximum charges, and service charge calculation details
- Fees that may be applied in addition to the Ground Transportation Service charges
- Estimated total charges
- Restrictions that apply to the vehicle and/or ground transportation service reservation
- Payment rules that are applicable to the ground service reservation
- Comments associated with the reservation

Best Practice Implementation Notes

1. OTA_GroundAvailRQ/@MaxResponses

   This attribute may be used to specify the maximum amount of search results to be returned by the ground transportation service supplier.

2. OTA_GroundAvailRQ/RateQualifier/@RateCategory
   OTA_GroundAvailRS/GroundServices/GroundService/RateQualifier/@RateCategory
   OTA_GroundBookRS/Reservation/RateQualifier/@RateCategory
   OTA_GroundBookRQ/RateQualifier/@RateCategory

   Due to legal requirements in some states and countries, it is NOT recommended to use this field for published ground transportation service rates.

3. OTA_GroundAvailRS/GroundServices/GroundService/ServiceInfo/@MaximumPassengers
   OTA_GroundAvailRQ/PassengerInfo/@MaximumPassengers
   OTA_GroundBookRQ/PassengerInfo/@MaximumPassengers

   It is recommended that the quantity specified in this field equal the quantity of available passenger seat belts in the Ground Service vehicle.

4. OTA_GroundAvailRS/GroundServices/GroundService/ServiceCharges
   OTA_GroundBookRS/Reservation/ServiceCharges

   Non-base charges, such as gratuity, are typically specified in the Fees element and NOT this element.

5. OTA_GroundAvailRS/GroundServices/GroundService/ServiceCharges/ServiceCharge/TaxAmounts
   OTA_GroundBookRS/Reservation/ServiceCharges/ServiceCharge/TaxAmounts

   It is recommended that taxes that apply to base services charges be specified here (versus in the ServiceCharge/@Amount attribute) for customer transparency.

6. OTA_GroundAvailRS/GroundServices/GroundService/TotalCharge
   OTA_GroundBookRS/Reservation/TotalCharge

   This element typically contains totaled Service Charge and additional Fee amounts.

7. OTA_GroundAvailRS/GroundServices/GroundService/Reference
   OTA_GroundBookRQ/Reference

   This element contains unique availability response information (e.g. ID/number) that may be used as a reference number in a booking request so availability service details do not need to be replicated in the booking request message.

8. OTA_GroundAvailRS/GroundServices/GroundService/PaymentRules
   OTA_GroundBookRQ/PaymentRules

   Payment rule information should be specified if there are unique payment rules that apply to a specific ground transportation service or vehicle type.

OpenTravel Ground Transportation Schema Sample Instances

SCENARIO 1: Airport Transfer

Jane Smith needs ground transportation to an airport. She does an availability search and successfully books an airport transfer.

Use Case Derivations:

- A promotional coupon code is used (included in basic sample instances below)
- A corporate rate plan is used
- A disability vehicle is required
- A pet-friendly vehicle is required
- A child car seat is required
- A fuel efficient vehicle is requested
- A return pick-up (round-trip) is required
- An extra stop is required
- Person quantity and baggage exceed requested vehicle type capacity and alternate vehicles are returned (availability)
- No vehicles are available for the date/time requested
- A "meet and greet" with the driver holding a sign is requested
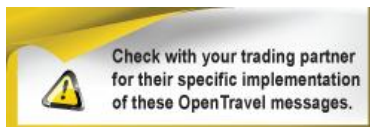
SCENARIO 2: Group Transportation

The ABC Company is having their annual employee appreciation event and requests ground transportation for 125 individuals. Some individuals can share a transport method (e.g. a coach bus) and others require cars with a driver. As ABC Company has an account with Carey Limousine, they submit one booking request with all the required information. Carey Limousine customer service agents process the individual bookings and forward booking confirmations to the contacts indicated in the booking request.

Rail Messages (OTA_Rail)

Overview

The 2011A Publication includes:

1. One deprecated rail message (OTA_RailRetrieveRS)
2. Three enhanced 2010B message sets (OTA_RailAvailRQ/RS, OTA_RailBookRQ/RS, OTA_RailScheduleRQ/RS)
3. Five new rail messages (OTA_RailReadRQ, OTA_RailResRetrieveSummaryRS, OTA_RailResRetrieveDetailRS, OTA_RailPriceRQ/RS, OTA_RailFareQuoteRQ/RS)

The OpenTravel OTA_RailRetrieveRS message has been deprecated from OpenTravel schema. In its place, implementers are encouraged to use one or both of the new Rail Reservation Read messages described below.

Note that the OTA_RailReadRQ (Rail Reservation Read request) message contains a root level attribute named ResInfoLevel, which is an enumerated attribute with two choices: 1) Summary, and 2) Detail. This attribute is an indicator of whether summary or detailed reservation information should be returned in a Rail Reservation Read response message.

OTA_RailResRetrieveSummaryRS

 This message returns a list of summary reservation(s) information when:
  - An exact match on a read was not found, OR,
  - Summary reservation response information was specifically requested in the OTA_RailReadRQ/@ResInfoLevel attribute.

Summary reservation information in this message includes:

- Reservation booking reference, date and status.
- Origin and destination summary information.
- Summary Passenger information, including: occupation; gender; age category; ADA requirements; applicable rate qualifiers and discounts; and other information such as height and passenger class.

OTA_RailResRetrieveDetailRS

 This message returns detailed information about existing rail reservation(s) **for an exact match on a read request.**

Detailed reservation information in this message:
- Full rail itinerary details, including origin and destination location details (including departure and arrival station, marketing and operating companies, equipment, train identification and classification, inventory class codes, accommodation details, ancillary services, charges and vendor messages).

- Summary Passenger information, including: occupation; gender; age category; ADA requirements; applicable rate qualifiers and discounts; and other information such as height and passenger class.
- Detailed Passenger information, including: birthdate; identification details; name; address; telephone; and loyalty program details.
- Payment rules information, including specific payment rules associated with the reservation.
- Fulfillment details, including information about the company that will (or has) fulfilled/ issued the rail ticket or reservation.

OTA_RailPriceRQ/RS

The OpenTravel Rail Price retrieve request/response message set is used to request and receive rail itinerary pricing information for a specified origin/destination pair –and- specified passenger information, including passenger type, rate qualifier(s) and other passenger details.

Rail Price Request information includes:

- Rail itinerary information, including:
    - Origin/Destination location details
    - Train segment information, including a collection of train segments that provide journey information from origin to destination. Each segment has full details on one specific train segment, including the origin and destination locations for this segment, related travelers' request, etc.

    NOTE that a rail pricing request may include Rail Itinerary OR Booking Reference information.

- Booking Reference information - The PNR address of the booking which needs to be priced, optionally including train segments that have already been booked and a fare basis code to be used to price the train segments in the PNR.

    NOTE that a rail pricing request may include Rail Itinerary OR Booking Reference information.

- Passenger information – Including specific passenger information, including passenger type, rate qualifier and other passenger details.

- Rate qualifier information for ALL travelers - Including as travel purpose, promotion codes and rate category that may affect the fare.

- Payment form information - Information about the form(s) of payment to be used to pay for this reservation. The element repeats to allow for multiple forms of payment to be used, if so required.

The Rail Price Response may return:

- A success indicator with rail price details
- A business warning with or without rail price details
- An error response (indicating why the message could not be processed) with no rail price details as the request has not been processed

If successfully processed, the Rail Price Response information includes:

- A priced itinerary with some or all of the following information:

- Pricing information for a rail itinerary - Including the total price for the rail itinerary and pricing details, e.g. summary or detailed basic fare, discounts, service charges, fare adjustments, fees and taxes.
- Journey information from one specific origin to one specific destination, including train segment and pricing details.
- Passenger information - Including occupation, age qualifier, disability, loyalty program, personal identification and contact information.
- Notes associated with the priced itinerary

OTA_RailFareQuoteRQ/RS

The OpenTravel Rail Fare Quote retrieve request/response message set is used to request and receive rail fare option information based on:
- Qualifying fare options (including train type, origin/destination locations, arrival/departure times and/or train number and network codes)
- Up to 9 fare basis codes
- Traveler preferences (including accommodation and class codes)
- Rate qualifying information (including travel purpose, promotion codes and other discounts that may affect the fare)
- Passenger category information (by passenger quantity, including gender, occupation, passenger qualifying codes, rate qualifiers and disability requirements)

Rail Fare Quote Request information includes:

- Qualifying fare options (including train type, origin/destination locations, arrival/departure times and/or train number and network codes)
- Up to 9 fare basis codes
- Traveler preferences (including accommodation and class codes)
- Rate qualifying information (including travel purpose, promotion codes and other discounts that may affect the fare)
- Passenger category information (by passenger quantity, including gender, occupation, passenger qualifying codes, rate qualifiers and disability requirements)

The Rail Fare Quote Response may return:

- A success indicator with rail fare quote details
- A business warning with or without rail fare quote details
- An error response (indicating why the message could not be processed) with no rail fare quote details as the request has not been processed

If successfully processed, the Rail Fare Quote Response information includes:

- Origin and destination location for the entire fare quote
- Fare owner details
- Fares details including:
    - Train type
    - Start and end dates for the fare quote
    - Blockout dates indicator
    - Class codes for inventory controlled items
    - Seat, berth and compartment class details
    - Up to 99 origin/destination pairs associated with the fare quote
    - Fare basis code(s) and associated fare amount(s)
    - Terms and conditions associated with the fare quote
- Notes related to all fare information returned

Significantly Enhanced OpenTravel Messages

Rebate Program Information in Hotel Messages

OpenTravel is pleased to announce support for suppliers participating in rebate programs. The 2011A implementation focuses on hotel suppliers and includes enhancements to OpenTravel Hotel Search, Hotel Availability and Hotel Get Availability messages that allow hotel suppliers to let their customers search for hotels by participation in rebate programs, and display their rebate program participation information in availability messages. This first implementation is modeled after a Value Added Tax[1] rebate program, but the implementation is flexible enough to support other rebate programs that suppliers may offer or participate in.

Enhanced OpenTravel Schema Details

The following OpenTravel common and Hotel messages have been enhanced to include the exchange of rebate program information:

OTA_CommonTypes
-added new attribute(s) group
@TripInformationGroup (Information about a traveler participating in a rebate program) with the following attributes:
- @TripPurpose, of type xs:NMTOKEN (Business, BusinessAndPleasure, Pleasure, Unknown), optional (The purpose of the trip. If the customer has a default trip purpose this should be pre-populated with that value and the @TripPurposeRequiredInd should be set to FALSE.)
- @TripPurposeRequiredInd, of type xs:boolean, optional (When true, the customer does not have a default trip purpose selected and they need to be prompted for the trip purpose.)

-added new type
RebateType (Information about a supplier's participation in a rebate program, e.g. a value added tax program) with the following elements and attributes:
- @ParticipationInd, of type xs:boolean, optional (When true, the supplier is participating in a rebate program, e.g. a value added tax program)
- @ProgramName,of type xs:string, optional (The name of the rebate program)
- @TripInformationGroup (attribute group) (Information about a traveler participating in a rebate program)
- <PaymentInformation>, of type PaymentCardType minOcc=0, maxOcc=9 (Information about payments eligible for a rebate program)

OTA_HotelCommonTypes/HotelSearchCriterionType
-added new element <RebatePrograms> of type RebateType

OpenTravel Hotel Messages with Rebate Program information:
- OTA_HotelSearchRQ/Criteria/Criterion/RebatePrograms
- OTA_HotelSearchRS/Criteria/Criterion/RebatePrograms
- OTA_HotelAvailGetRQ/HotelAvailRequests/HotelAvailRequest/RebatePrograms
    - NOTE: The RebatePrograms element is extended with a @SendDataInd, of type xs:boolean, optional
- OTA_HotelAvailRQ/AvailRequestSegments/AvailRequestSegment/HotelSearchCriteria/Criterion/RebatePrograms

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[1] Value added taxes (or VAT) include consumption taxes that are placed on a product whenever value is added at a stage of production and at final sale. Value-added tax (VAT) is most often used in the European Union. The amount of value-added tax that the user pays is the cost of the product, less any of the costs of materials used in the product that have already been taxed.

- OTA_HotelAvailRS/RebatePrograms

Best Practice Implementation Notes

1. OTA_CommonTypes/RebateType/@TripPurpose

The purpose of the trip which helps qualify whether or not a customer can benefit from a rebate program. If the customer has a default trip purpose this should be pre-populated with that value and the @TripPurposeRequiredInd should be set to FALSE.

Sample Rebate Program Schema Instances

1. Jane Smith is searching for a hotel on an online travel site. Her company is participating in the Taxeo VAT rebate program and has requested that employees search for Taxeo participating hotels when making hotel arrangements. Jane enters her search criteria including the name of the Taxeo rebate program and her trip purpose of business. (OTA_HotelSearchRQ_Rebate1.xml)

2. Jane receives a list of hotels that match her search criteria including two that are participating in the Taxeo VAT program. (OTA_HotelSearchRS_Rebate1.xml)

3. Jane requests availability on the property (OTA_HotelAvailRQ_Rebate1.xml) and receives a room availability response. (OTA_HotelAvailRS_Rebate1.xml)

4. Jane books her stay and a copy of her credit card guarantee information is passed in the Taxeo payment element that will be sent to/ or utilized in house for the VAT rebate (OTA_HotelResRQ_Rebate1.xml). Jane receives a confirmation for her hotel stay (OTA_HotelResRS_Rebate1.xml)

Billing Instruction Details in Hotel Messages

OpenTravel is pleased to announce support for billing instruction details in OpenTravel Hotel schema. This new functionality allow hotels to create billing codes that apply to a set of instructions for a transaction set that are routed to a designated folio.

Enhanced OpenTravel Schema Details

The following OpenTravel common and Hotel messages have been enhanced to include hotel billing instruction information:

OTA_HotelReservation
-added new container element
<BillingInstructionCodes> (A collection of billing codes that apply to a set of instructions for a transaction set that are routed to a designated folio) with the following elements and attributes:
- <BillingInstructionCode>, minOcc=1, maxOcc=unbounded (Billing codes that apply to a set of instructions for a set of transactions that are routed to a designated folio.)
  - o @BillingCode, of type xs:string, required (The individual billing code that applies to a set of instructions that are routed to a designated folio.)
  - o @BillingType, of type OTA-CodeType, optional, (Used to define the type of the BillingCode, such as group, corporate and casino. Refer to OpenTravel Code List Reservation Billing Type (RBT).)
  - o @AuthorizationCode, of type xs:string, optional (The authorization code associated with the billing code.)
  - o @Description, of type xs:string, optional (A short description of the billing code or instructions.)
  - o @Start, of type DateOrTimeOrDateTimeType, optional (The starting date and/or time for the billing instructions to take effect.)
  - o @Duration, of type DurationType, optional (A duration amount that may be used in combination with the start date.)
  - o @End, of type DateOrTimeOrDateTimeType, optional (The ending date and/or time for the billing instructions to take effect.)
  - o <GuestCountRPHs>, minOcc=1, maxOcc=unbounded (A reference to a guest ID object that may be defined in: /ResGlobalInfo/GuestCounts or /ResGuests/ResGuest)
    - ▪ @RPH, of type RPH_Type, required (A unique reference to the guest ID.)
  - o <HotelReservationID_RPHs>, minOcc=1, maxOcc=unbounded (A reference to a hotel reservation ID object. /ResGlobalInfo/HotelReservationIDs/HotelReservationID)
    - ▪ @RPH, of type RPH_Type, required (A unique reference to the hotel reservation ID.)
  - o @AccountNumber, of type StringLength1to16, optional

OpenTravel Hotel Messages with Hotel Billing Instruction information:
- OTA_HotelResNotifRQ/HotelReservations/HotelReservation/BillingInstructionCodes
- OTA_HotelResNotifRS/HotelReservations/HotelReservation/BillingInstructionCodes
- OTA_HotelResModifyRQ/HotelResModifies/HotelResModify/BillingInstructionCodes
- OTA_HotelResModifyRS/HotelResModifies/HotelResModify/BillingInstructionCodes
- OTA_HotelResModifyNotifRQ/HotelResModifies/HotelResModify/BillingInstructionCodes
- OTA_HotelResModifyNotifRS/HotelResModifies/HotelResModify/BillingInstructionCodes
- OTA_HotelResRQ/HotelReservations/HotelReservation/BillingInstructionCodes
- OTA_HotelResRS/HotelReservations/HotelReservation/BillingInstructionCodes

Best Practice Implementation Notes

1. OTA_HotelResNotifRQ/HotelReservations/HotelReservation/BillingInstructionCodes

Hotel billing instruction codes will typically be implemented in the OpenTravel Hotel Reservation Notice Request message (OTA_HotelResNotifRQ).

Hotel Reservation Billing Instructions Schema Sample Instances

SCENARIO 1:

1. Jane Smith, Tom Jones and Sam Davidson are attending a corporate event at the ABC Hotel with a group code of GROUPCODE.
2. The ABC Hotel reservation sends a message to their billing system with a corporate billing instruction (billing code of "RMTXFD", billing type of Corporate, billing description of "Room, tax and food charged to corporate account" that instructs all room, taxes and food to be charged to the corporate account (GROUPCODE) from June 1 through June 6 (OTA_HotelResNotifRQ2.xml/ OTA_HotelResNotifRS2.xml)

SCENARIO 2:

1. Jane Smith (and two other corporate employees) are attending a corporate event at the ABC Hotel with a group code of GROUPCODE.
2. The ABC Hotel reservation sends a message to their billing system with a corporate billing instruction (billing code of "RMTXFD", billing type of Corporate, billing description of "Room, tax and food charged to corporate account" that instructs all room, taxes and food to be charged to the corporate account (GROUPCODE) from June 1 through the June 6 (OTA_HotelResNotifRQ2.xml/ OTA_HotelResNotifRS2.xml)
3. Jane has decided to stay at the ABC Hotel for two additional days after the corporate event. The ABC Hotel reservation sends a message to their billing system with an individual billing instruction (billing code of "RMTXFD", billing type of Individual, billing description of "Room, tax and food charged to individual guest account" that instructs all room, taxes and food to be charged to Jane's personal account from June 7 through June 8 (OTA_HotelResNotifRQ3.xml/ OTA_HotelResNotifRS3.xml)

Hostel Support in OpenTravel Hotel Schemas

Enhancements to the OpenTravel Hotel schema to support Hostels include:
- Room gender identification in Hotel Availability and Booking messages
- Shared room indicators in Hotel Availability and Booking messages
- Hostel specific bedding configurations in Hotel Availability and Booking messages

Schemas Changed

Note: all new elements and attributes are optional unless noted otherwise.

A change with this symbol indicates that the schema is non-forward compatible, or, if indicated in a common type's schema, the messages using the included construct are now non-forward compatible.

Note, the OpenTravel Comment number for the schema change is in the first column of each change below.

OTA_AirCheckIn.xsd

Other Changes

62	**MessageFunction/@Function** -added new enumerations (ValidatePassengerSeat, UnSeat, ChangeSeatReaccommodation, UpdatePassengerInfo)

OTA_AirCommonTypes.xsd

Other Changes

52	**CabinAvailabilityType** -added new element(s) Entertainment with the following elements and/or attributes: 　　　@Code of type OTA_CodeType, optional
53	**CabinAvailabilityType** -added new elements and/or attributes: FlightLoadInfo with the following elements and/or attributes: 　　　@AuthorizedSeatQty of type xs:positiveInteger, optional 　　　@NRSA_StandbyPaxQty of type xs:positiveInteger, optional 　　　@RevenuePaxQty of type xs:positiveInteger, optional
54	**CabinAvailabilityType** -added new attribute(s) @CabinCapacity of type xs:positiveInteger, optional
61	**SeatDetailsGroup** -added new attribute(s) @SeatSequenceNumber of type xs:integer, optional
61	**SeatDetailsGroup** -changed cardinality @SeatNumber from required to optional
60	**RowDetailsType** -added new attribute(s) @RowSequenceNumber, optional, of type xs:integer
60	**RowDetailsType/@RowNumber** -changed cardinality from required to optional
206	**BookFlightSegmentType/Comment** -increased cardinality (maxOcc) to 999

OTA_AirDetailsRS.xsd

Other Changes

55	**FlightDetails** -added attribute(s) @CabinQty of type xs:positive integer, optional

OTA_AirFlifoRQ.xsd

Other Changes

205	**FlightSegment** -increased cardinality to 999

OTA_AirFlifoRS.xsd

Other Changes

186	**FlightInfoDetails/FlightLegInfo/ArrivalAirport** -added attribute(s) @FlagStopInd of type xs:boolean, optional
186	**FlightInfoDetails/FlightLegInfo/ArrivalAirport** -changed maxOcc from 2 to 9
204	**FlightInfoDetails** -changed cardinality (maxOcc) from 10 to 999

OTA_CommonTypes.xsd

New attributeGroups

29	**TripInformationGroup** with the following attributes: @TripPurpose, of type xs:NMTOKEN (Business, BusinessAndPleasure, Pleasure, Unknown), optional @TripPurposeRequiredInd, of type xs:boolean, optional

New complexTypes

29	**RebateType** with the following elements and/or attributes: @ParticipationInd, of type xs:boolean, optional @ProgramName,of type xs:string, optional @TripInformationGroup (attribute group) PaymentInformation, of type PaymentCardType minOcc=0, maxOcc=9

Other Changes

88
192
	ItemSearchCriterionType
	-added new element(s)
	AdditionalContents with the following elements and/or attributes:
	    AdditionalContent, minOcc=1, maxOcc=unbounded, with the following attributes:
	        @ContentGroupCode of type OTA_CodeType, required

	@CodeInfoGroup attributeGroup OpenTravel Code List Information Type (INF) supporting values: 19-Geocodes 20-Location 21- Address 22-Contact 23-Pictures 24-Descriptive content
185	**PaymentDetailType/PaymentAmount** -added new attribute(s) @RefundCalcMethod of type xs:NMTOKEN (System, Manual), optional
65	**RestaurantType/DescriptiveText** -removed pattern [A-Za-z0-9]{1,500} -added minLen=1, maxLen=500
59	**SeatLocationGroup** attributeGroup -added new attribute(s) @RowSequenceNumber of type xs:integer, optional @SeatSequenceNumber of type xs:integer, optional
59	**SeatRequestAttributes** attributeGroup -deprecated @SeatLocationGroup attributeGroup
59	**SeatRequestAttributes** attributeGroup -added new attribute(s) @DeckLevel of type StringLength1to32, optional @RowNumber, of type Numeric1to99, optional @SeatInRow of type AlphaLength1, optional
58	**ShareAllGroup** attributeGroup -added new attribute(s) @ShareAllOptOutInd of type YesNoType, optional
65	**TransportationType/DescriptiveText** -removed pattern [A-Za-z0-9]{1,500} -added minLen=1, maxLen=500
118	**RestaurantType** -added new attribute(s) @ReservationReqInd, of type xs:boolean, optional
93	**CodeInfoGroup** -changed type @CodeDetail from StringLength1to64 to StringLength1to128

OTA_HotelAvailGetRQ.xsd

Other Changes

29	**HotelAvailRequests/HotelAvailRequest**
	 added new complexType
	 RebatePrograms with the following element and/or attributes:
	     @SendDataInd, of type xs:boolean, optional
	     RebateProgram, of type RebateProgram, minOcc=1, maxOcc=unbounded

OTA_HotelAvailRQ.xsd

Other Changes

165	**OTA_HotelAvailRQ** -added new root attribute @DuplicateInd, of type xs:boolean, optional
193	**OTA_HotelAvailRQ** -added new (root level) attribute(s) @PricingMethod, of type xs:NMTOKEN, optional Enumerations: None, Average, Lowest, Highest

OTA_HotelAvailRS.xsd

New complexTypes

194	**HotelStays/HotelStay** -added new element(s) with the following elements and attributes: Price, minOcc = 0, maxOcc = unbounded, with the following elements and attributes: @DateTimeSpanGroup attributeGroup @AmountBeforeTax, of type Money, optional @AmountAfterTax, of type Money, optional @CurrencyCode, of type AlphaLength3, optional @Decimal, of type xs:nonNegativeInteger, optional

Other Changes

200	**RoomStays** -added new attribute(s) @SortOrder, of type xs:positiveInteger, optional
29	**OTA_HotelAvailRS** -added new element(s) RebatePrograms with the following elements and/or attributes RebateProgram, of type RebateProgram, minOcc=1, maxOcc=unbounded

OTA_HotelBookingRuleRS.xsd

Other Changes

57	**RuleMessage/StatusApplication/RoomRates/RoomRate** -increased maxOcc to 99

OTA_HotelCacheChangeRQ.xsd

Other Changes

196	**CacheSearchCriteria/CacheSearchCriterion** -added new attribute(s) @CacheStartDateTime of type xs:dateTime, optional @CacheEndDateTime of type xs:dateTime, optional

OTA_HotelCacheChangeRS.xsd

Other Changes

197	**CacheChangeInfo** -added new attribute(s) @ChainCode of type StringLength1to8, optional @BrandCode of type StringLength1to8, optional
197	**CacheChangeInfo/OtherInfo** -added new attribute(s) @InvBlockCode of typeStringLength1to64, optional @RatePlanType of type OTA_CodeType, optional @RatePlanID, of type StringLength1to64 @RatePlanQualifier, of type xs:boolean @PromotionCode, of type StringLength1to32 @PromotionVendorCode, of type ListOfStringLength1to8 @RatePlanCategory, of type StringLength1to64

OTA_HotelCommonTypes.xsd

New simpleTypes

71	**RatePlanEnum**, of type xs:NMTOKEN (Government, Negotiated, Preferred, Other_)

Other Changes

200	**AvailStatusMessageType** -added new attribute(s) @RoomGender of type xs:NMTOKEN (Male, Female, MaleAndFemale, Unknown), optional @SharedRoomInd of type xs:boolean, optional
200	**RoomTypeType** -added new attribute(s) @RoomGender of type xs:NMTOKEN (Male, Female, MaleAndFemale, Unknown), optional @SharedRoomInd of type xs:boolean, optional
29	**HotelSearchCriterionType** -added new element(s) RebatePrograms of type RebateType
105	**RequiredPaymentsType/GuaranteePayment** -added new attribute(s) @AgencyNameAddrReqInd, of type xs:boolean, optional
107	**RequiredPaymentsType/GuaranteePayment** -added new attribute(s) @CompanyNameAddrReqInd, of type xs:boolean, optional
164	**BasicPropertyInfoGroup** -added new attribute(s) @MasterChainCode, of type StringLength1to8, optional
138 139 140	**GDS_InfoType/GDS_Codes/GDS_Code** -added new attribute(s) @GDS_PropertyLongName, of type StringLength1to64, optional @GDS_PropertyShortName, of type StringLength1to32, optional @GDS_RoomTypeCode, of type StringLength1to16, optional
141	**GDS_InfoType/GDS_Codes/GDS_Code** -changed type @GDS_Name, from xs:NMTOKEN to StringLength1to32
89	**HotelSearchCriterionType/RatePlanCandidates** -added new attribute(s) @TaxesIncludedInd, of type xs:boolean, optional

173	**HotelSearchCriterionType/HotelMeetingFacility** -added new attribute(s) @MeetingRoomCode, of type OTA_CodeType, optional
184	**RatePlanCandidatesType/RatePlanCandidate** -added new attribute(s) @AvailRatesOnlyInd, of type xs:boolean, optional
208	**GuestCountType/GuestCount** Added new attribute(s): @AgeBucket, of type StringLength1to16, optional
209	**RateUploadType** -added new attribute(s): @AgeBucket, of type StringLength1to16, optional

OTA_HotelContentDescription.xsd

Other Changes

100	**AffiliationInfoType/Awards/Award** -added new attribute(s) @RPH, of type RPH_Type, optional
148 149	**AreaInfoType/Attractions/Attraction** -added new attribute(s) @MinAgeAppropriateCode, of type OTA_CodeType, optional (utilizes OpenTravel Code List Age Qualifying Code-AQC.) @ApplicableStart, of type DateOrMonthDay, optional @ApplicableEnd, of type DateOrMonthDay, optional
71	**PoliciesType/Policy** -added new element(s) with the following elements and/or attributes: RatePolicies, minOcc=0, maxOcc=1, with the following elements and attributes: RatePolicy, of type ParagraphType, minOcc = 1, maxOcc = unbounded, with the following elements: Type, of type RatePlanEnum, minOcc = 0, maxOcc = 1, with the following attributes: @Extension, of type xs:string, optional Description, of type ParagraphType, minOcc = 0, maxOcc = unbounded
72	**PoliciesType/Policy/RatePolicies/RatePolicy** -added new attribute(s) @Type, of type RatePlanEnum (open enumeration) with the following enumerations: Government, Negotiated, Preferred, Other_
77	**PoliciesType/Policy/RatePolicies/RatePolicy** -added new attribute(s) @MinRoomNightCommitment, of type: xs:positiveInteger, optional
159	**PoliciesType/Policy/RatePolicies/RatePolicy** -added new attribute(s) @RateOfferType, of type OTA_CodeType, optional (utilizes OpenTravel Code List XXXX-XXX.)
100	**RestaurantsType/Restaurant** -added new attribute(s) @AwardsRPH, of type RPH_Type, optional

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	HotelDescriptiveContents/HotelDescriptiveContentType
	-added new element(s)
	Promotions with the following elements and/or attributes:
	    Promotion, minOcc=1, maxOcc=unbounded, with the following elements and/or attributes:
	        @PromotionCode, of type StringLength1to32, optional
	        @PkgOrPromotion, of type xs:NMTOKEN (Package, Promotion)
	        @Type, of type OTA_CodeType, optional *(Utilizes OpenTravel Code List*

91 92	*Package Type-PKG.)* @Title, of type StringLength1to64, optional

	HotelInfoType
	-added new element(s)
	BlackOutDates with the following elements and/ or attributes:
	    BlackOutDate, of type DateTimeSpanType, minOcc=1, maxOcc=unbounded, with the
	    following attribute(s):
	        @Name, of type StringLength1To32, optional

96	**HotelInfoType/Languages/Language** -added new attribute(s) @PrimaryLangInd, of type xs:boolean, optional
110	**HotelDescriptiveContentType/Policies/Policy/PolicyInfo** -added new attribute(s) @AcceptedGuestType, of type xs:NMTOKEN, optional Enumerations: AdultOnly, CouplesOnly
113	**HotelDescriptiveContentType** **-**added new element(s) RoomBlocks, minOcc=0, maxOcc=1, with the following element(s) and/or attribute(s): @AvailableInd, of type xs:boolean, optional
125	**HotelDescriptiveContentType/Promotions/Promotion** -added new element(s) Description, of type DescriptionType, minOcc=0, maxOcc=1
126 127 129 130 131	**HotelDescriptiveContentType)/Promotions/Promotion** -added new attribute(s) @DOW_PatternGroup attributeGroup @DateTimeSpanGroup attributeGroup @MinLOS, of type xs:nonNegativeInteger, optional @Remarks, of type StringLength1to128, optional @SortOrder, of type xs:positiveInteger, optional
146	**AreaInfoType/Recreations/Recreation** -added new attribute(s) @YearReplaced, of type xs:date, optional
	AffiliationInfoType/LoyalPrograms/LoyalProgram -added new attribute(s) @PrimaryProgramInd, of type xs:boolean, optional

Other Changes

100	**AffiliationInfoType/Awards/Award** -added new attribute(s) @RPH, of type RPH_Type, optional
148	**AreaInfoType/Attractions/Attraction** -added new attribute(s) @MinAgeAppropriateCode, of type OTA_CodeType, optional *(utilizes OpenTravel Code List Age Qualifying Code-AQC.)*

71	**PoliciesType/Policy**
	-added new element(s) with the following elements and/or attributes:
	RatePolicies, minOcc=0, maxOcc=1, with the following elements and attributes:
	    RatePolicy, of type ParagraphType, minOcc = 1, maxOcc = unbounded, with the
	    following elements:
	        Type, of type RatePlanEnum, minOcc = 0, maxOcc = 1, with the following
	        attributes:
	        @Extension, of type xs:string, optional
	        Description, of type ParagraphType, minOcc = 0, maxOcc = unbounded

72	**PoliciesType/Policy/RatePolicies/RatePolicy** -added new attribute(s)

	@Type, of type RatePlanEnum (open enumeration) with the following enumerations: Government, Negotiated, Preferred, Other_
77	**PoliciesType/Policy/RatePolicies/RatePolicy** -added new attribute(s) @MinRoomNightCommitment, of type: xs:positiveInteger, optional
159	**PoliciesType/Policy/RatePolicies/RatePolicy** -added new attribute(s) @RateOfferType, of type OTA_CodeType, optional *(utilizes OpenTravel Code List XXXX-XXX.)*
100	**RestaurantsType/Restaurant** -added new attribute(s) @AwardsRPH, of type RPH_Type, optional

OTA_HotelDescriptiveContentNotifRQ.xsd

Other Changes

7 3	**HotelDescriptiveContents/HotelDescriptiveContent/Policies/Policy/RatePolicies/RatePolicy** -added new attribute(s) @SubjectToChangeInd, of type xs:boolean, optional
7 4	**HotelDescriptiveContents/HotelDescriptiveContent/Policies/Policy/RatePolicies/RatePolicy** -added new attribute(s) @ID_RequiredInd, of type xs:boolean, optional
7 5	**HotelDescriptiveContents/HotelDescriptiveContent/Policies/Policy/RatesPolicy/RatePolicy** -added new attribute(s) @GuestType, of type ListOfOTA_CodeType, optional -added new OpenTravel Code List Guest Type (GUE) code values: 7 - Government 8 - Contractor 9 - Retired 10 - Subsidiary

OTA_HotelPreferences.xsd

Other Changes

200	**RoomAmenityPrefType** -added new attribute(s) @RoomGender of type xs:NMTOKEN (Male, Female, MaleAndFemale, Unknown), optional @SharedRoomInd of type xs:boolean, optional

OTA_HotelReservation.xsd

Other Changes

203	**HotelReservationType/BillingInstructionsCodes/BillingInstructionCode** -added new attribute(s) @AccountNumber, of type StringLength1to16, optional

OTA_HotelSearchRQ.xsd

Other Changes

169	**OTA_HotelSearchRQ** -added new (root level) attribute: @SortOrder, of type AlphaLength1, optional, with restricted values: A (Ascending order) D (Descending order) N (No sort/ random order) C (Property code order) P (Property name order)

OTA_RailBookRQ.xsd

Other Changes

195	**RailBookInfo** -deprecated complexType(s) Traveler TravelerCategory
195	**RailBookInfo** -added new complexType PassengerInfo, of type RailPassengerCategoryDetailType
195	**RailBookInfo/OriginDestination/TrainSegment/TravelerRequest/Accommo ** **dationService** -retyped to AccommodationServiceType
195	**RailBookInfo/RateQualifier** -retyped to RailRateQualifyingType
195	**RailBookInfo/Fulfillment** -retyped to CompanyNameType

OTA_RailCommonTypes.xsd

New simpleTypes

195	**RailPassengerOccupationEnum** of type xs:NMTOKEN with enumerations: NotSignificant, RailEmployee, GovernmentEmployee, Farmer, Military, Journalist, Student, VIP, Other_
195	**TravelPurposeEnum** of type xs:NMTOKEN with enumerations: NotSignificant, Business, Personal, Group, Conference, Consortiums, HomeVisiting, Other_
195	**TripType** of type xs:NMTOKEN with enumerations: OneWay, OneWayOnly, Return, Circle, OpenJaw, Other, Outbound, OutboundSeasonRoundtrip, Non-Directional, Inbound, Roundtrip

New complexTypes & elements

195	**AccommodationCategory** (element) of type AccommodationCategoryType
195	**AccommodationService** (element) of type AccommodationServiceType

195	**AccommodationServiceType** with the following elements and/or attributes:
	AccommodationDetail of type RailAccommDetailType
	      @ReferenceTravelerRPH of RPH_Type
	      @ReferenceInd of type xs:boolean

		AncillaryService of type AncillaryServiceType, maxOcc=99
195		**AncillaryService** of type AncillaryServiceType with the following elements and/or attributes: @PreferLevel of type PreferLevelType @Description of type xs:string, optional
195		**AncillaryServiceType** with the following elements and/or attributes: @RailCodeGroup attributeGroup @Description, of type xs:string, optional
195		**CodeAmountType** with the following elements and/or attributes: @CodeGroup attributeGroup @CurrencyAmountGroup attributeGroup
195		**RailFareType** with the following elements and/or attributes: FareAmount with the following elements and/or attributes: @CurrencyAmountGroup attributeGroup FareBreakdown of type RailFareBreakdownType, minOcc=1
195		**RailFareBreakdownType** with the following elements and/or attributes: BasicFare of type CodeAmountType, minOcc=1 AccommodationAdjustment of type CodeAmountType FareQualifierAdjustment of type CodeAmountType, maxOcc=99 DiscountClass of type CodeAmountType, maxOcc=99 AncillaryCharge of type CodeAmountType, maxOcc=99 TermAndCondition of type FreeTextType, maxOcc=99
195		**RailPassengerCategoryType** with the following elements and/or attributes: @AccompaniedByInfantInd of type xs:boolean @GenderGroup attributeGroup Occupation of type RailPassengerOccupationType PassengerQualifyingInfo, maxOcc=9, with the following elements and/or attributes: @Code Group attributeGroup RateQualifier of type RailRateQualifyingType, maxOcc=9 ADA_Requirement of type OTA_CodeType, maxOcc=9
195		**RailPassengerCategoryDetailType** with a base of RailPassengerCategoryType and the following elements and/or attributes: @RPH of type RPH_Type @Quantity of type xs:positiveInteger PassengerDetail of type RailPassengerDetailType, maxOcc=99

195		**RailPassengerDetailType** with the following elements and/or attributes:
		@BirthDate of type xs:date
		Identification of type PersonNameType, minOcc=1
		ProfileRef with the following elements and/or attributes:
		    UniqueID of type UniqueID_Type
		Telephone, maxOcc=20, with the following elements and/or attributes:
		    @TelephoneInfoGroup attributeGroup
		    @Operation of type ActionType
		    @LocationCode of type StringLength1to8
		Email of EmailType, maxOcc=3
		    @Operation of type ActionType
		Address of AddressType, maxOcc=5
		    @Operation of type ActionType
		CustLoyalty, maxOcc=5, with the following elements and/or attributes:
		    @CustomerLoyaltyGroup attributeGroup
		    @Operation of type ActionType

195		**RailPassengerOccupationType** (of base RailPassengerOccupationEnum) with the following elements and/or attributes: @extension of type xs:string, optional
195		**RailPriceBreakdownType** (of base RailFareBreakdownType) with the following elements and/or attributes:

	Fee of type CodeAmountType, maxOcc=99
	Tax of type CodeAmountType, maxOcc=9
195	**RailPriceType** with the following elements and/or attributes: Price with the following elements and/or attributes: 　　　@CurrencyAmountGroup attributeGroup PriceBreakdown of type RailPriceBreakdownType, minOcc=1
195	**RailRateQualifyingType** with the following elements and/or attributes: @PromotionCode of type StringLength1to32 TravelPurpose of type TravelPurposeType DiscountType with the following elements and/or attributes: 　　　@CodeGroup attributeGroup
195	**TravelPurposeType** (of base TravelPurposeEnum) with the following elements and/or attributes: @extension of type xs:string, optional

Other Changes

195	**AccommodationClass**　　　　　　　complexType -renamed @Value attribute to　　　　　@extension
195	**AccommodationCategoryType** complexType -changed element types Accommodation to type AccommodationType,　　　　repeating 0..99 AncillaryService to type AncillaryServiceType, repeating 0..99
195	**BerthDetailType** complexType -typed @Number attribute to AlphaNumericStringLength1to14 as its type　　was missing
195	**BookedTrainSegmentType**　　　　　　complexType -changed element type(s) to Assignment to type　　　　　　　　AccommodationServiceType
195	**CompartmentType** complexType -renamed @Value attribute to　　　@extension
195	**RailAvailPrefsType** complexType -renamed Accommodation to　　　　　　AccommodationCategory -retyped Accommodation to　　　　　　AccommodationCategoryType
195	**RailAvailQueryType** complexType -retyped PassengerType to　　　　　RailPassengerCategoryType
195	**RailAvailScheduleQueryType** complexType - RailSearchCriteria, changed maxOcc to 9
195	**RailReservationSummaryType**　　　　complexType -deprecated Traveler complexType -deprecated TravelerCategory complexType - Added PassengerInfo complexType of type RailPassengerCategoryDetailType, minOcc=1, maxOcc=99
195	**RailReservationType** complexType -deprecated Traveler complexType -deprecated TravelerCategory complexType -added PassengerInfo complexType of type RailPassengerCategoryDetailType, minOcc=1, maxOcc=99 -retyped Fulfillment complexType to CompanyNameType
195	**SeatIdentificationType** complexType -typed @SeatNumber attribute to xs:positiveInteger as its type　　was missing
195	**TrainIdentificationType** complexType NetworkCode complexType, changed　　　minOcc to 0
195	**TrainInfoType** complexType @DelayTime attribute to xs:positiveInteger as its type　　was missing

195	**TravelerCountType** -deprecated from schema		complexType

OTA_RailScheduleRQ.xsd

Other Changes

198	-deprecated **OTA_RailPreferences.xsd** include
199	**OTA_RailScheduleRQ/POS** -changed minOcc to 1

OTA_RailPreferences.xsd

Other Changes

187	−removed FareAccessPrefType
187	-removed three attribute groups: CabinPrefGroup SeatPrefGroup SSR_PrefGroup

OpenTravel Resources

The OpenTravel Forum

http://www.OpenTravelForum.com

OpenTravel has an extensive discussion Forum to provide an implementation resource for users of its schema, called *the OpenTravel Forum*, which has all the functionality members expect from a full-featured discussion board, with forums for:

- Architecture
- Hospitality
- Transport
- Travel Services
- Tours and Activities
- Implementers Discussion

Members can post a question and get an answer from a moderator. Also included are OpenTravel documentation, mailing list subscription, events and announcements, and feedback boards, as well as the OpenTravel Showcase where companies that provide tools, services or technologies to assist in the implementation of OpenTravel schemas can post about their offerings.

OpenTravel Data Dictionaries

OpenTravel schema data dictionaries provide accurate and up to date structured references of OpenTravel schema. Data dictionary documentation is provided for all aspects of each schema file, including Elements, Simple Types, Complex Types, Groups, Attributes, Attribute Groups, Constraints and Facets. Additional documentation includes overview tables that illustrate child structures below elements, complex types and attribute groups and documentation of Global Attributes, Groups, key, keyref and unique constraints. A list of currently available OpenTravel Data Dictionaries may be found on the OpenTravel Data Dictionaries page on the OpenTravel wiki.

OpenTravel Message Users Guide

The OpenTravel Message Users Guide (MUG) is included in the specification download. The MUG can be used as a reference for all cycles of an OpenTravel-enabled system implementation, from design to system testing. In addition to message descriptions, the MUG provides:

- A point-and-click index of business functionality and use cases for each message, allowing an implementer to quickly identify the OpenTravel messages that suit their own and their trading partner business requirements,
- Links to each message (summarized) data dictionary that allow implementers to see the names and descriptions of each element and attribute in a message and the enumeration values where applicable,
- Extended message scenario use cases that help implementers understand the range of business scenarios that can be accomplished per message,
- An "Introduction and Getting Started" section that includes links to OpenTravel implementer/member resources, OpenTravel schema architecture basics, and links to all third party standards referenced in OpenTravel messages to help implementers understand the relationships between OpenTravel messages and other third party standards, and,
- Point-and-click access to online message sample use case instances that allow an implementer to access only the sample instances they require (note that these schemas were not intended for production use by implementers, but rather for human reference.)

OpenTravel Message Codes List Table

The OpenTravel Codes List spreadsheet, included with the specification download, includes an alphabetized, point and click list of all OpenTravel Code List names (with 3 character abbreviations) and errors and warnings to help implementers quickly find code list values.

New features for this year's code list are:

The "index" sheet has been replaced by a <FIND/ SEARCH CODE LISTS> and <FIND/ SEARCH> buttons on the top of the Codelists and Error Codes sheets.

<u>Code Lists</u>
When the search button is clicked, a pop-up window appears with:
- CODE LISTS: A clickable list of all OpenTravel Code Lists. Clicking on a list name will bring you directly to that code list. If you are looking for a specific code list, you can sort the list alphabetically by code list name or code list acronym (by clicking on the SORT BY "Name" and "Code" radio buttons.
- SEARCH FOR: A search feature that allows you to do a filtered key word search as follows:
  - Exact Search: Selecting this filter allows you to do an exact match search on your search keywords, e.g. if you want to just find "spa" and not have all code list names and code list values that have the characters "spa" in them (such as "space"), you simply select the "exact search" checkbox.
  - Search In: You may select the "Names" and/or "Descriptions" options to include Code List names and descriptions in your search (in addition to code list items.)
- The search returns code list names, values and descriptions that meet your keyword search criteria and search filters. The search results are shown in a search results listbox and you simply click on the item you would like to go to.

<u>Errors & Warnings</u>
When the search button is clicked, a pop-up window appears with:
- SEARCH/FIND: A search feature that allows you to do a key word search
- The search returns error and warning descriptions that meet your keyword search criteria. The search results are shown in a search results listbox and you simply click on the item you would like to go to.

Introduction to OpenTravel Webinar

If you are new to the OpenTravel specification, an Introduction to OpenTravel webinar is available at no cost. Please visit the OpenTravel website for a webinar schedule and instructions on how to sign up.

Other Notices

The OpenTravel OTA_RailRetrieveRS message has been deprecated.

The OpenTravel OTA_RailRetrieveRS message has been deprecated from OpenTravel schema. In its place, implementers are encouraged to support one or all of the following message sequences and should check with their trading partners:

Check with your trading partner for their specific implementation of this OpenTravel message.

OTA_RailResRetrieveSummaryRS - This message returns a list of summary reservation(s) information when an exact match on a read request could NOT be made OR if summary reservation response information was specifically requested in the OTA_RailReadRQ/@ResInfoLevel attribute.

Summary reservation information in this message includes:
- Reservation booking reference, date and status
- Origin and destination summary information
- Passenger information, including occupation, gender, age category, ADA requirements and rate qualifiers

OTA_RailResRetrieveDetailRS - This message returns detailed information about existing rail reservation(s) for an exact match on a read request that includes:
- Full rail itinerary details, including origin and destination location details (including departure and arrival station, marketing and operating companies, equipment, train identification and classification, inventory class codes, accommodation details, ancillary services, charges and vendor messages)
- Passenger information
- Payment rules
- Fulfillment details

OTA_RailBookRS – This message is typically used as a response message for a rail booking request to create a rail reservation. This response contains:
- Full rail itinerary details, including origin and destination location details (including departure and arrival station, marketing and operating companies, equipment, train identification and classification, inventory class codes, accommodation details, ancillary services, charges and vendor messages)
- Passenger information
- Payment rules
- Fulfillment details

NOTES: This message contains ONE instance of a rail reservation and is not recommended for use as a response message to a Rail Reservation Read request (OTA_RailReadRQ).

The OpenTravel OTA_HotelInvChangeRQ/RS messages have been renamed to OTA_HotelCacheChangeRQ/RS

The 2010B OpenTravel OTA_HotelInvChangeRQ and RS messages have been renamed to OTA_HotelCacheChangeRQ and RS respectively. This name change was done to align the full suite of OpenTravel Hotel Cache messages, including the new 2011A OTA_HotelCacheChangeNotifRQ/RS message set.