Hilton

Hilton Transaction Exchange (HTE)

Version 4.0

Developer's Guide

(HTE3 OTA Guide / OTA 2004B)

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1   Introduction

1.1   What is the Hilton Transaction Exchange?

The Hilton Transaction Exchange (HTE) is a web service that customers can use to perform business functions with Hilton. Using this service, client applications can get the same type of information and perform the same types of tasks that are available today through Global Distribution Systems (GDS) or websites such as http://www.hilton.com. Using the infrastructure of the internet provides core search and reservation functionality for all hotels in the Hilton Family of Brands. The Hilton Family of Brands includes Hilton, Conrad, Doubletree, Hampton, Hilton Garden Inn, Embassy Suites, Homewood Suites by Hilton, the Waldorf=Astoria Collection, Tapestry Collection, Canopy, Curio, Home2, and Tru. By exchanging information with the Hilton Transaction Exchange, customers can build applications that perform business functions such as searching for and booking hotel rooms, getting information about a hotel, checking room rates and availability, and canceling, modifying or retrieving a reservation.

Because the Transaction Exchange is built on open standards, customers can leverage the existing skills of their IT organization when developing client applications. In addition, the prospect of reuse is much greater, compared to a proprietary solution. The OpenTravel™ Alliance (OTA) has defined an industry standard that enables travel-related systems to conduct business with each other. The transactions that are provided by the Hilton Transaction Exchange are a subset of those defined in the OTA specification. The messaging and protocol layers also use standards-based technologies.

1.2   About the Developer's Guide

The purpose of this document is to communicate the set of instructions, guidelines and technical information needed to interact with the Hilton Transaction Exchange. This is a programmer's guide.   The reader should be familiar with the underlying technologies used, including XML, HTTPS and SOAP. A Web Services Definition Language (WSDL) for HTE v3.0 has been provided to assist in development of XML code. Documentation on using the WSDL can be found in Chapter 13.

In this document, XML schemas are shown three ways. Schema diagrams show the hierarchical structure of the XML from left to right. Schema information in table format is more detailed. The table columns are:

- Level – the depth of the element in the XML structure, starting with 0 as the highest-level element.

- Name – the name of the element or attribute. Attributes use the convention *@name*.

- Type – the data type of an attribute.

- Occurs – the number of times an element should exist in an XML file.

- Required – if an attribute is required or not. If it is listed in the table and is not required, then it is an optional attribute.

- Comments – additional specific element/attribute information.

The third way in which XML data is shown is as simple text, which is used mainly for examples of XML requests and responses. *Examples are for illustration only. Any rates, hotel codes, distances, addresses or other information in the examples should not be considered accurate.*

1.3   Customer Registration

Before using the Transaction Exchange, customers must register with Hilton. You will either receive a registration form by email or be directed to a link where a form may be completed and returned. After the registration process is complete, you will have these items associated with your account:

- Requestor ID – a unique identifier based on your company name

- Username – a 'login' name for authentication

- Password – the password for the assigned Username

When sending requests to the Hilton Transaction Exchange, these values *must* be populated in various fields of the XML.

During the registration process you will need to provide us with the range of IP addresses from which you will be connecting to our servers. We will have to add these IP addresses to our firewall. This process usually takes around 5-7 business days.

1.4   Technical Support

Please refer to the Production Support guidance on our Developer Portal and route your request accordingly. [Production Support | Hilton Dev Portal for documentation](#)

1.5   Features

The Hilton Transaction Exchange allows developers to make sophisticated applications that can:

- Search for hotels around cities or other geographical locations.

- Check the availability of a particular hotel for a specific date range.

- Get room rate information for a hotel.

- Obtain a hotel's address, contact information and amenities

- Reserve a hotel room for a customer

- Modify an existing reservation

- Cancel an existing reservation

- Obtain client-specific rates and special rate plans

- Retreive an existing reservation

2   Messaging Protocol

2.1 Call Semantics

The Hilton Transaction Exchange is an interactive application meant for web-based clients. Messages are sent by the client via an HTTPS POST. The Hilton Transaction Exchange receives the message, performs the business tasks and responds back to the client immediately.

In distributed processing terms, each message sent uses a Type A delivery mechanism. This type of messaging is used for the expedient delivery of interactive messages, generally in the form of request/response pairs. As far as the client is concerned, Type A messages have "at-least-once" call semantics, meaning the messages are idempotent. The server does not keep the requests or the responses and does not use a "store-and-forward" model.

2.2 Standards Compliance

The following standards are supported by the Hilton Transaction Exchange:

- OpenTravel™ Alliance (OTA) 2004B specification

- Simple Object Access Protocol (SOAP) 1.1

- HyperText Transfer Protocol (HTTP) 1.1

- Transport Layer Security (TLS) 1.2

- Extensible Markup Language (XML) 1.0

All communications performed will be transmitted over a secure connection. Specifically, the HTTPS wire protocol is used to transport SOAP formatted XML messages carrying an OTA payload.

2.3 SOAP

According to the SOAP specification, all SOAP messages contain an envelope which in turn contains a header and a body. The header consists of communication information while the SOAP body contains the primary content of the message. In using the Hilton Transaction Exchange, the body contains the OTA XML message. See http://www.w3.org/TR/2000/NOTE-SOAP-20000508/ for more information on the SOAP 1.1 specification.

Here is an example of a SOAP message:

```
<?xml version="1.0" encoding="UTF-8"?>
<soap-env:Envelope xmlns:soap-env="http://schemas.xmlsoap.org/soap/envelope/">
    <soap-env:Header>
                { Header data goes here }
    </soap-env:Header>
    <soap-env:Body>
                { Body data goes here }
    </soap-env:Body>
</soap-env:Envelope>
```

Note that the value for "xmlns:soap-env" is only an example and may be different based on the SOAP engine used to parse SOAP envelopes.

2.3.1 SOAP Header

The SOAP header has two attributes: Actor and MustUnderstand. They are *not* used by the Hilton Transaction Exchange, but a SOAP header containing these attributes will be *accepted*.

The following diagram shows the structure of the Hilton Transaction Exchange's SOAP Header used by Hilton.
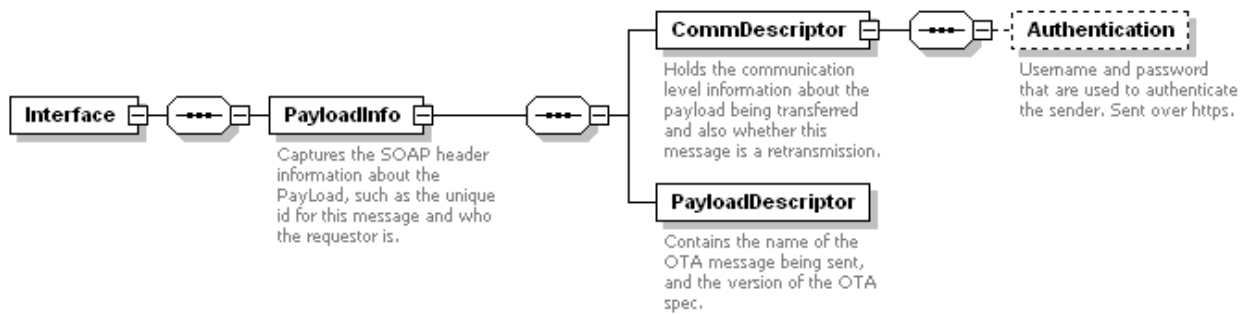
Figure 1. SOAP Header XML Structure

The attributes of the SOAP header are listed in the following table.

					Table 1. SOAP Header Elements and Attributes
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
0	**Header**		1	Y	
1	**Interface**		1	Y	
	@xmlns	URI		N	The xmlns attribute should be http://www.hilton.com/ota/header.
	@Name	xs:string		N	The value of this attribute is "HiltonTransactionEngine".
	@Version	xs:string		Y	The value of Interface@Version is the version number of this interface, which is "3.0".
2	**PayloadInfo**		1	Y	
	@RequestId	xs:string		Y	The RequestId attribute is an identifier generated by the *originator* of the message. It is used to track messages and should be unique to *your* application.
	@RequestorId	xs:string		Y	For a request message (OTA "RQ" messages), the *@RequestorId* attribute is a Hilton-assigned value, which is tied to your company.
	@ResponderId	xs:string		Y	ResponderId should always be "Hilton".
3	**CommDescriptor**		1	Y	
	@SourceId	xs:string		Y	SourceId is the name of *your* application. The combination of CommDescriptor@SourceId and PayloadInfo@RequestId represent a unique identifier for each message received by the Hilton Transaction Exchange.
	@DestinationId	xs:string		Y	Should always be "HiltonTxnEngine" in the request. You should populate SourceId and DestinationId in your requests. The header of the response message will also have these two attributes populated, but the values will be reversed: the SourceId will be "HiltonTxnEngine" and the DestinationId will be the name of your application.
	@RetryIndicator	xs:boolean		N	A client may issue a request more than once if the response to the first call is lost in transmission, but the @RetryIndicator attribute in the SOAP header, must be set to true when retransmitting. Otherwise, the message will be received and processed a second time. For instance, if a client sends a message to the Hilton Transaction Exchange in order to book a room, and the response (including the

Table 1. SOAP Header Elements and Attributes					
Level	Name	Type	Occurs	Required	Comments
					confirmation number) is not received by the client, a second message can be sent to book the room, but the RetryIndicator attribute should be "true". Otherwise, a duplicate reservation may be made. The *@RetryIndicator* should be set to true when a message is a re-transmission of a previous message. The *@RetryIndicator* is only used in an OTA_HotelResRQ.
4	**Authentication**		1	Y	The Authentication element contains your Hilton-supplied username and password.
	@Username	xs:string		Y	Supplied by Hilton. Required only for SOAP requests, not responses.
	@Password	xs:string		Y	Supplied by Hilton. Required only for SOAP requests, not responses.
3	**PayloadDescriptor**		1	Y	PayLoadDescriptor has business-level information about the payload being transferred.
	@Name	xs:string		Y	Name of the OTA message being sent in the body.
	@Version	xs:string		N	The Version attribute is the version of the OTA spec being used. The value is "2004B.

This example of a SOAP header shows a request from 123 Travel Agency to the Hilton Transaction Exchange. The header indicates that the payload contains a request for an availability check.

```
<SOAP-ENV:Header >
    <Interface xmlns="http://www.hilton.com/ota/header" Name="HiltonTransactionEngine" Version="3.0">
        <PayloadInfo RequestId="1" RequestorId="123TravelAgency" ResponderId="Hilton">
            <CommDescriptor SourceId="123TrvBookingEngine " DestinationId="HiltonTxnEngine" RetryIndicator="false">
             <Authentication Username="123ta001" Password=" blue038" />
        </CommDescriptor>
        <PayloadDescriptor Name="OTA_HotelAvailRQ" Version="2004B" />
    </PayloadInfo>
  </Interface>
</SOAP-ENV:Header >
```

One possible response header for this request is:

```xml
<SOAP-ENV:Header>
    <Interface xmlns="http://www.hilton.com/ota/header" Version="3.0" Name="HiltonTransactionEngine">
        <PayloadInfo RequestId="1" RequestorId="Hilton" ResponderId="123TravelAgency ">
            <CommDescriptor SourceId="HiltonTxnEngine" DestinationId="123TrvBookingEngine "/>
            <PayloadDescriptor Version="2004B" Name="OTA_HotelAvailRS"/>
        </PayloadInfo>
    </Interface>
</SOAP-ENV:Header>
```

2.3.2 SOAP Body

The SOAP body for a request message contains the OTA message, as shown in the following example:

```
<soap-env:Body>
    <OTA_HotelResModifyRQ xmlns:"http://www.opentravel.org/OTA/2003/05">

  { OTA XML message goes here }

    </OTA>
</soap-env:Body>
```

If there are SOAP errors, the body will contain the faults. See section 2.6.2 for a discussion of SOAP errors.

2.4   HTTPS

The Hilton Transaction Exchange uses the HTTPS wire protocol as the transport layer that carries the SOAP messages. Although SOAP might be used in conjunction with a variety of HTTP request methods, the SOAP 1.1 specification only defines SOAP within HTTP POST requests.

The HTTPS response will follow the semantics of the HTTP status codes. For instance, a 200 status code indicates that the request was received and understood while a 404 response means that the URL was not found. Errors are explained in the next section. For the list of HTTP 1.1 status codes, see http://www.w3.org/Protocols/HTTP/HTRESP.html.

HTTPS applications must use the media type "text/xml" when sending or receiving SOAP messages. The POST URL must point to /ota/OTA.pl.

An example of an HTTPS request header is:

```
POST /ota/OTA.pl HTTPS/1.1
Content-Type: text/xml; charset="UTF-8"
Content-Length: 1234
SOAPAction: ""
```

An example of a successful HTTPS response header is:

```
HTTPS/1.1 200 OK
Content-Type: text/xml; charset="UTF-8"
Content-Length: 1234
```

2.5   Transport Layer Security (TLS) and Certificates

As stated in the previous section the transactions are only available via Transport Layer Security v1.2 (TLS) protocol. HTE's certificates are signed by Verisign. Browsers typically already have Verisign's root certificates installed in them so no warnings are received about certificate validation. In order to prevent client applications from getting an error on certificate validation, Verisign's root certificate must be installed in the TLS library being used for client development. Verisign's root certificate can be obtained from the following URL:
http://www.verisign.com/support/roots.html.

2.6 Errors

2.6.1 HTTPS Errors

Because the Hilton Transaction Exchange uses HTTPS as the transport mechanism, responses are sometimes HTTP errors, represented by the 4xx and 5xx error codes.

This example of an HTTPS response signifies an HTTP 404 error:

```
HTTPS/1.1 404 Not Found
Content-Type: text/xml; charset="UTF-8"
Content-Length: 1234
```

Another example of an unsuccessful HTTPS response header is:

```
HTTPS/1.1 500 SOAP Fault
Content-Type: text/xml; charset="UTF-8"
Content-Length: 1234
```

If there is a SOAP error while processing a request (as shown in the previous example), the SOAP HTTPS server will issue an HTTP 500 "Internal Server Error" response. A SOAP message containing a SOAP Fault element will be included in the response. See the next section for more details about SOAP errors.

2.6.2 SOAP Errors

If a SOAP error occurs during processing, the SOAP body contains a SOAP Fault element. (If there are no SOAP errors, the Body will contain the OTA response. See section 2.3.2.)

The Fault element contains the error information, as shown in the following diagram.
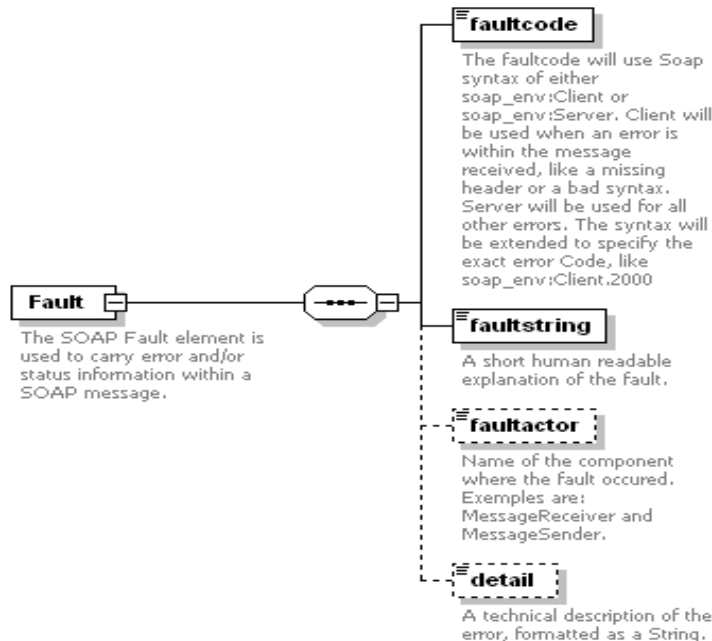
Figure 2. SOAP Fault XML Structure

The elements inside the Fault element are listed in the following table:

Level	Name	Type	Occurs	Required
	Table 2. SOAP Fault Elements and Attributes			
0	**Body**		1	Y
1	**Fault**		1	Y
2	**faultcode**		1	Y
2	**faultstring**		1	Y
2	**faultactor**		1	N
2	**detail**		1	N
3	**text**		1	Y

Note that the Fault element can only appear once in a SOAP message, therefore only the *first* error encountered is reported. SOAP faults are divided into two categories: Client and Server. Client faults will be used when an error is due to invalid or missing data sent by a client. All other errors are Server errors. Server errors will all have a code of 2100, but the accompanying faultstring attribute will contain a detailed description of the specific server error. The SOAP faults that can occur are:

Faultcode	Faultstring
	Table 3. SOAP Fault Codes and Messages
2000	Missing Header
2001	Malformed XML
2002	Invalid Interface Name
2003	Unsupported Interface Version
2004	Invalid namespace
2005	Unsupported OTA Transaction in PayloadDescriptor
2006	Invalid DestinationId
2007	Authentication Error – Invalid Username
2008	Authentication Error – Invalid Password
2100	Server Error
3000	Data Error In The OTA Message

The following is an example of an Invalid Username fault:

```
<soap-env:Body>
    <soap-env:Fault>
     <faultcode>soap-env:Client.2008</faultcode>
     <faultstring>Authentication Error – Invalid Username</faultstring>
    </soap-env:Fault>
```

```
</soap-env:Body>
```

This is a response that shows an error caused by malformed XML in the request:

```
<SOAP-ENV:Body>
    <SOAP-ENV:Fault>
        <faultcode>2001</faultcode>
        <faultstring>Invalid Header</faultstring>
        <faultactor>Hilton.HeaderValidator</faultactor>
        <detail><text>Missing or Incorrect DestinationId Attr From CommDescriptor Ele-
    ment</text></detail>
    </SOAP-ENV:Fault>
</SOAP-ENV:Body>
```

3   Messaging Content

3.1   Overview

The OTA is a consortium consisting of approximately 150 member companies from all sectors of the travel industry. It is comprised of several working groups, each focusing on a different aspect of the travel sector – Air, Hotel, Car etc. The goal of the OTA is to promote electronic commerce in the travel sector. In order to reach this goal, they have developed a set of specifications so that businesses can more easily share information. The transactions that are provided by the Hilton Transaction Exchange conform to OTA specifications.

3.2   XML

The OTA has chosen Extensible Markup Language (XML) as the data format for their specifications. They have XML Schema Definition (XSD) files available for each transaction in the specification. The Hilton Transaction Exchange complies with the 2004B version of the OTA specification, which is available on their website: http://www.opentravel.org/2004B/. The OTA-defined XML message is included in the SOAP body.

For flexibility, the XML schemas contain only minimal restrictions. In some cases, the Hilton Transaction Exchange has attributes that are needed in order to complete the business task being requested. In this document, for each transaction supported by the Transaction Exchange, the required attributes are listed in the corresponding table of XML elements and attributes. Note that *the OTA schema definitions may not have defined these attributes as "required".* In this case, the request will be validated by the XSD, but will not be sufficient for completing the transaction. If an attribute is required by the Transaction Exchange, and it is missing, an appropriate error will be generated and included in the SOAP response.

4   Supported Transactions

The Hilton Transaction Exchange supports the following OTA resquest (RQ) and response (RS) schemas:

Table 4. Hilton Transaction Exchange Supported Transactions	
OTA Schema Pair	**Purpose**
OTA_HotelAvailRQ/RS	Check the availability of hotels based on date ranges, room types, etc. The results include rate information.
OTA_HotelSearchRQ/RS	Find all hotels within a radius of a location.
OTA_HotelResRQ/RS	Make a reservation.
OTA_HotelResModifyRQ/RS	Modify an existing reservation.
OTA_HotelDescriptiveInfoRQ/RS	Provides detailed descriptive information about a hotel property.
OTA_CancelRQ/RS	Cancel an existing reservation.
OTA_ReadRQ/OTA_HotelResRS	Retrieve information about a booking.

Chapters 5 through 12 describe each schema pair which includes examples, use cases, and the XML attributes and elements that are supported by the Hilton Transaction Exchange.

4.1   Common Elements

4.1.1 Root Element

All OTA messages share a common root element. The attributes of this element are shown in the following table.

Table 5. Root Elements and Attributes					
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
0	**Root**		1		
	@*xmlns*	xs:string		Y	The value of xmlns should always be http://www.opentravel.org/OTA/2003/05.
	@*TimeStamp*	xs:dateTime		Y	The TimeStamp attribute indicates the creation date and time of the message in GMT format. The format is YYYY-MM-DDThh:mm:ss.ss[+|-]hh:mm. It signi-fies a Greenwich Mean Time (GMT) value, plus or minus an offset. So, for Eastern Standard Time, the off-set would be GMT minus 5 hours,

Table 5. Root Elements and Attributes					
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
					and the end of TimeStamp would be "-05:00". It signifies the time the message was sent.
	@Target	xs:NMTOKEN		Y	Must be either "Test" or "Production".
	@Version	xs:decimal		Y	3.0
	@PrimaryLangID	xs:language		N	Optional. The only supported value is "en-us".

Below is an example of an OTA_HotelAvailRQ message that was sent March 5, 2008, at 8:20 GMT.

```
<OTA_HotelAvailRQ xmlns="http://www.opentravel.org/OTA/2003/05" TimeStamp="2008-03-05T08:20:45.715-06:00" Target="Production" Version="3.0" PrimaryLangID="en-us" >

  { sub-elements go here }

</OTA_HotelAvailRQ>
```

4.1.2 Success, Warning and Errors Elements

The response messages (OTA messages whose names end in "RS") will always return either a Success element or an Errors element. The Success element has no attributes. If the element is present, then the transaction was successful. You will see the tag "<Success/>" in the response as shown below.

```
<OTA_HotelAvailRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Production" PrimaryLangID="en-us" Version="3.0" TimeStamp="2008-03-05T08:20:31.55-06:00"><Success/>
;;;;;;;
</OTA_HotelAvailRS>
```

If the Errors element exists, it will include one Error sub-element. Only the first error generated by the Transaction Exchange will be returned. Please reference Appendix F to see a list of possible errors and their meanings. The Type attribute contains the OTA Code List Error Warning Type (EWT). The Transaction Exchange will always return one of the error codes from this list. It is included in Appendix A, Table 3 of this document for convenience.

```
<Errors><Error Type="3">You are not authorized to view the following property :LONHI</Error>
</Errors>
```

The response could have Warning elements also. For instance, if a request is received that checks availability for a single property and there is no availability, the response will

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have a Success element (because the transaction was successful) and also a warning saying there was no availability for that property as shown below.

<Warnings><Warning Type="3">WASDN:HOTEL NOT AVAILABLE</Warning></Warnings>

5 OTA_HotelSearch

The OTA_HotelSearchRQ/RS transaction is used to search for a list of hotel properties that meet specified search criteria. It is sometimes referred to as a "wide-area search". Unlike OTA_HotelAvailRS/RQ, availability is not checked, so there is no need to pass in a date range. Rate information is not provided in the response. The information that is returned in the response is sufficient enough to be able to select a single hotel for subsequent transactions, such as checking availability and booking a room. It is also possible to obtain a list of *all* the properties available for all the Hilton brands by using this transaction. Shown below is a diagram of the OTA_HotelSearch request transaction used in the Hilton Transaction Exchange.
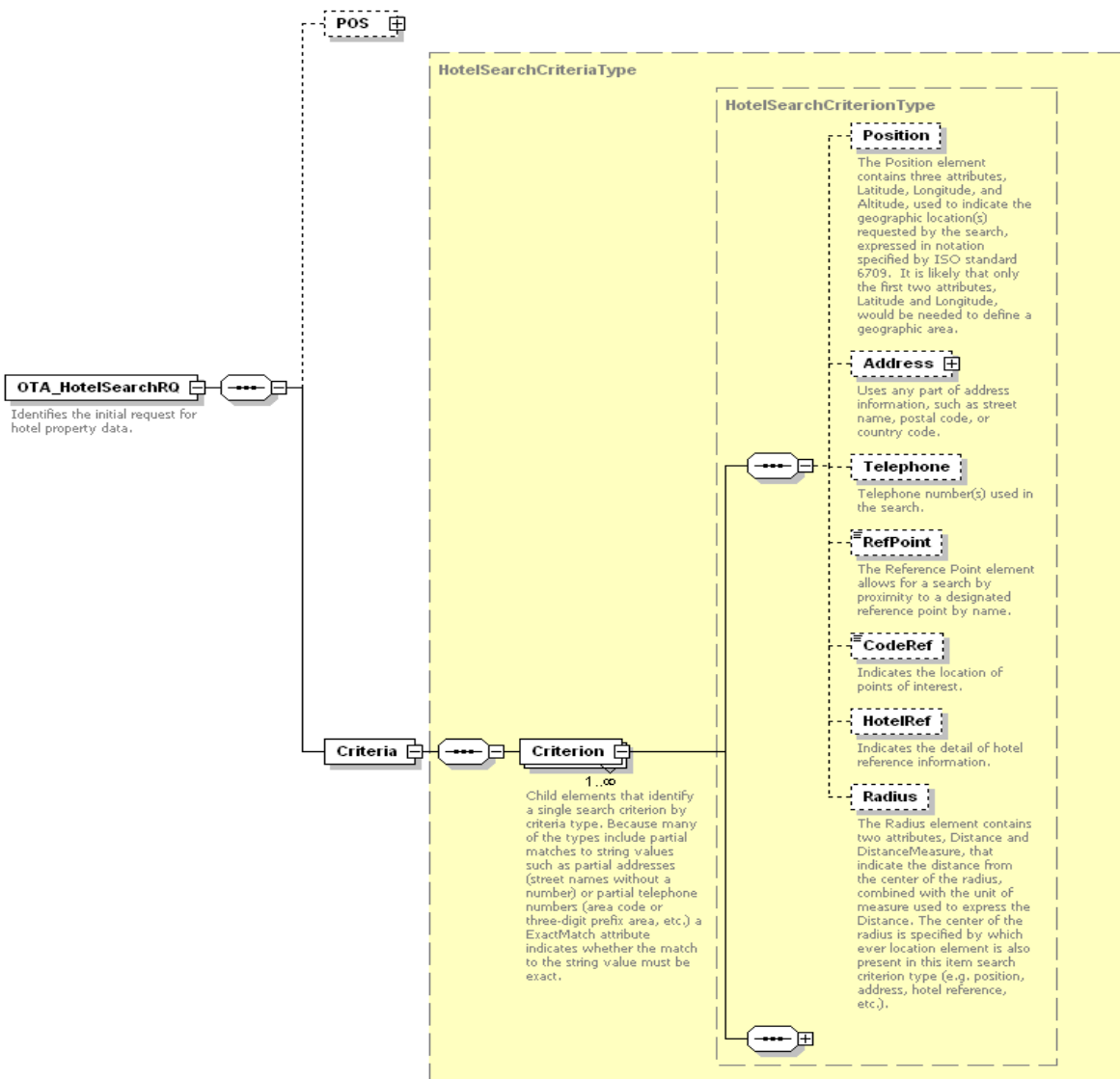
Figure 3. OTA_HotelSearchRQ Schema

5.1 OTA_HotelSearchRQ Elements and Attributes

The following table shows the attributes of the Criteria element that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
	Table 6. OTA_HotelSearchRQ Elements and Attributes				
0	**OTA_HotelSearchRQ**			Y	
1	**Criteria**		1	Y	
2	**Criterion**		1	Y	
3	**Position**		0..1	N	The Position element contains a latitude and longitude and is for specifying the geographic center of the search. If the Position element is supplied, the latitude and longitude are required. The other way to specify a search location is by using the Address element.
	@Latitude	StringLength1to16		Y	
	@Longitude	StringLength1to16		Y	
3	**Address**		0..1	N	The OTA has defined two ways to use the Address element. The FormattedInd attribute of Address is used to specify whether or not the address is "format-ted". For the Hilton Transaction Ex-change, this attribute is not used because it will always be assumed the address is *not* formatted. The difference lies in whether or not the StreetNmbr and BldgRoom sub-elements are used. When an address is formatted, the StreetNmbr and BldgRoom elements contain part of the street address. This is not how the server expects the data. In our case, we use an "unformatted" ad-

			Table 6. OTA_HotelSearchRQ Elements and Attributes		
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
					dress, meaning up to three AddressLine elements, containing free-form text, should be used to pass in the Address to be searched on. (Since the StreeNmbr and BldgRoom elements are not used, they are not listed in this table, even though they are part of the XML sche-ma.)
4	**AddressLine**		0..3	N	
4	**CityName**		0..1	N	
4	**PostalCode**		0..1	N	
4	**StateProv**		0..1	N	
	@StateCode	StateProvCodeType		Y	
4	**CountryName**		0..1	N	
	@Code	ISO3166		Y	
3	**CodeRef**		0..1	N	To search for hotels around an airport, the CodeRef element should be used.
	@LocationCode	StringLength1to8		Y	The LocationCode is the 3-letter Interna-tional Air Transportation Code (IATA) code. (See http://www.iata.org for more information on airport codes.)
	@CodeContext	StringLength1to32		Y	The value of the attribute CodeContext should always be "IATA".
3	**HotelRef**		0..1	N	The HotelRef element has the attribute BrandCode, which is used to search for a specific brand. See Appendix A, Table 2 for a list of Hilton-specific brand codes.
	@BrandCode	StringLength1to8		Y	Only one BrandCode element is allowed in the request. To retrieve the list of all properties in the Hilton corporate sys-

Table 6. OTA_HotelSearchRQ Elements and Attributes					
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
					tem, the BrandCode attribute should be set to an **asterisk** ("*"). In this case, the Address, CodeRef and Radius should not be included. If they are, they will be ignored.
3	**Radius**		0..1	N	The Radius element is optional. If it is not present in the request, it will default to 20 miles.
	@Distance	Numer-icStringLength1to16		Y	The maximum search distance allowed is 50. The minimum distance allowed is 1. Only integers should be used.
	@DistanceMeasure	StringLength1to16		N	The DistanceMeasure attribute should either be "Mile" or "Km". Mile is the de-fault.

5.2 OTA_HotelSearchRQ Examples

This is an example of a search for hotels around a specific geographic location, specified as a latitude/longitude using the Position element. The default search radius of 20 miles will be used.

```
<OTA_HotelSearchRQ TimeStamp="2008-04-17T14:11:21.253" Target="Production" Version="3.0" Pri-
maryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
<Criteria>
    <Criterion>
        <Position Latitude="43.5942" Longitude="-116.178"/>
    </Criterion>
</Criteria>
</OTA_HotelSearchRQ>
```

This next example is a search for DoubleTree hotels within 50 kilometers of Topeka, Kansas.

```
<OTA_HotelSearchRQ TimeStamp="2008-04-17T14:11:21.253" Target="Production" Version="3.0" Pri-
maryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <Criteria>
        <Criterion>
            <Address>
                <CityName>Topeka</CityName>
                <StateProv StateCode="KS"/>
                <CountryName Code="US"/>
            </Address>
            <HotelRef BrandCode="DT"/>
            <Radius Distance="50" DistanceMeasure="Km"/>
        </Criterion>
    </Criteria>
</OTA_HotelSearchRQ>
```

An example of a 20-mile search for hotels around a specific street address is below.

```
<OTA_HotelSearchRQ TimeStamp="2008-04-17T14:11:21.253" Target="Production" Version="3.0" Pri-
maryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <Criteria>
        <Criterion>
            <Address>
                <AddressLine>600 Main St.</AddressLine>
                <CityName>Norfolk</CityName>
        <PostalCode>23523</PostalCode>
                <StateProv StateCode="VA"/>
                 <CountryName Code="US"/>
            </Address>
        </Criterion>
    </Criteria>
</OTA_HotelSearchRQ>
```

This example is a search for hotels around the Toronto, Canada airport. The three-letter IATA airport code for this airport is "YYZ".

```
<OTA_HotelSearchRQ TimeStamp="2008-04-17T14:11:21.253" Target="Production" Version="3.0" Pri-
maryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <Criteria>
       <Criterion>
         <CodeRef LocationCode="YYZ" CodeContext="IATA"/>
       </Criterion>
    </Criteria>
</OTA_HotelSearchRQ>
```

The following example will return a list of all properties in all brands.

```
<OTA_HotelSearchRQ TimeStamp="2008-04-17T14:11:21.253" Target="Production" Version="3.0" Pri-
maryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <Criteria>
        <Criterion>
              <HotelRef BrandCode="*"/>
        </Criterion>
    </Criteria>
</OTA_HotelSearchRQ>
```

5.3 OTA_HotelSearchRS Elements and Attributes

The diagram below shows the OTA_HotelSearch response used by the Hilton Transaction Ex-
change.

POS ⊞

Success
Standard way to indicate successful processing of an OTA message.

Warnings ⊞
Standard way to indicate successful processing of an OTA message, but one in which warnings are generated.

OTA_HotelSearchRS
Returns a list of hotel properties that meet the requested criteria and/or Warnings, or Errors if the request did not succeed.

PropertiesType

PropertyValueMatchType

VendorMessages ⊞
0..∞
A collection of VenderMessages

Position
An element that identifies the geographic position of the hotel. The Position element uses the representation defined by ISO Standard 6709 to define a geographic point location.

Address ⊞
Public address of the hotel property.

ContactNumbers ⊞

Award
0..5
An element that identifies the hotel ratings.

RelativePosition ⊞

Properties ⊞

Property
1..∞

SearchValueMatch
0..∞
The string value used to search for a property is returned. The SearchValueMatch element returns the input value and offers systems the ability to generate text in the Warnings that communicate the reason for failure to locate a hotel. For example, a Reference Point search may return the following processing message; "No hotels found within 5 miles of Oswego Regional Airport".

Amenities ⊞
A collection of available amenities.

Areas ⊞

Criteria ⊞

Errors ⊞
Standard way to indicate that an error occurred during the processing of an OTA message.

Figure 4. OTA_HotelSearchRS Schema

The following table shows the attributes of the OTA_HotelSearchRS elements that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
	Table 7. OTA_HotelSearchRS Elements and Attributes				
0	**OTA_HotelSearchRS**		1	Y	
1	**Success**		0..1	N	
1	**Errors**		0..1	N	See section 4.1.2 for more info on errors.
2	**Error**		1	Y	
	@Type	OTA_CodeType		Y	
1	**Warnings**		0..1	N	See section 4.1.2 for more info on warnings.
2	**Warning**		1	Y	
	@Type	OTA_CodeType		Y	
1	**Properties**		0..1	N	
2	**Property**		1..n	Y	A Property element is included in the response for each hotel that meets the search criteria. There will always be a BrandCode, HotelCode, and HotelName for each property returned.
	@BrandCode	StringLength1to8		Y	Two letter Hilton brand code. See Appendix A, Table 2 for a list of Hilton-specific brand codes.
	@HotelCode	StringLength1to8		Y	Five letter Hilton hotel code.
	@HotelName	StringLength1to128		Y	
3	**Address**		1	Y	For a discussion of the Address element, see Table 6.
4	**AddressLine**		1	Y	
4	**CityName**		1	Y	

Level	Name	Type	Occurs	Required	Comments
4	**PostalCode**		0..1	N	
4	**StateProv**		0..1	N	
	@StateCode	StateProvCodeType		Y	
4	**CountryName**		1	Y	
	@Code	ISO3166		Y	
3	**ContactNumbers**		0..1	N	If present, the ContactNumbers element will contain only one ContactNumber element, with the Phone-Number attribute populated. (Only one contact number is supplied for each hotel.)
4	**ContactNumber**		1	Y	
	@PhoneNumber	StringLength1to32		Y	
3	**RelativePosition**		0..1	N	The search criteria provided in the OTA_HotelSearchRQ request could have been a latititude and longitude, the name of a city, a street address, an airport, etc. The RelativePo-sition element contains the distance between the property and the requested search location.
	@Distance	xs:string		Y	
	@DistanceUnitName	DistanceUnitNameType		Y	DistanceUnit can be either "Mile", signifying miles or "Km" for kilometers. The DistanceUnit attribute will be consistent with the request, for instance, if you specify a 20 kilometer search radius, the distances of the properties to the center will be in kilometers.
1	**Criteria**		1	Y	Criteria and its sub-elements will contain the values that were passed to the Transaction Exchange in the OTA_HotelSearchRQ mes-sage, plus additional information. For instance, a request may not have included a Postion el-

Table 7. OTA_HotelSearchRS Elements and Attributes

Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
					ement (latitude and longitude) but the response could.
2	**Criterion**		1	Y	
3	**Position**		0..1	N	
	@Latitude	StringLength1to16		Y	
	@Longitude	StringLength1to16		Y	
3	**Address**		0..1	N	
4	**AddressLine**		0..1	N	
4	**CityName**		0..1	N	
4	**PostalCode**		0..1	N	
4	**StateProv**		0..1	N	
	@StateCode	StateProvCodeType		Y	
4	**CountryName**		0..1	N	
	@Code	ISO3166		Y	
3	**CodeRef**		0..1	N	
	@LocationCode	StringLength1to8		Y	
	@CodeContext	StringLength1to32		Y	
3	**HotelRef**		0..1	N	
	@BrandCode	StringLength1to8		Y	
3	**Radius**		0..1	N	
	@Distance	Numer-icStringLength1to16		Y	

Table 7. OTA_HotelSearchRS Elements and Attributes

		Table 7. OTA_HotelSearchRS Elements and Attributes				
Level	Name	Type	Occurs	Required	Comments
	@DistanceMeasure	StringLength1to16		N	

5.4   OTA_HotelSearchRS Examples

This is an example of a result for a city search of Memphis, TN. The properties within a 15-mile search radius are a Hilton, Embassy, Doubletree and a Garden Inn. The distance to the city center is shown in the RelativePosition element. The original search criteria are included in the response.

```
<OTA_HotelSearchRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
gID="en-us" Version="3.0" TimeStamp="2008-03-07T17:55:46.70-06:00">
   <Success/>
   <Properties>
      <Property BrandCode="DT" HotelName="Doubletree Hotel Memphis Downtown" Hotel-
Code="MEMDN">
         <Address>
            <AddressLine>185 UNION AVENUE</AddressLine>
            <CityName>MEMPHIS</CityName>
            <PostalCode>38103</PostalCode>
            <StateProv StateCode="TN"/>
            <CountryName Code="US"/>
         </Address>
         <RelativePosition DistanceUnitName="Mile" Distance="0.49"/>
      </Property>
      <Property BrandCode="DT" HotelName="Doubletree Hotel Memphis" HotelCode="MEMEH">
         <Address>
            <AddressLine>5069 SANDERLIN AVENUE</AddressLine>
            <CityName>MEMPHIS</CityName>
            <PostalCode>38117</PostalCode>
            <StateProv StateCode="TN"/>
            <CountryName Code="US"/>
         </Address>
         <RelativePosition DistanceUnitName="Mile" Distance="9.10"/>
      </Property>
      <Property BrandCode="HI" HotelName="Hilton Memphis" HotelCode="MEMPH">
         <Address>
            <AddressLine>939 RIDGE LAKE BOULEVARD</AddressLine>
            <CityName>MEMPHIS</CityName>
            <PostalCode>38120</PostalCode>
            <StateProv StateCode="TN"/>
            <CountryName Code="US"/>
         </Address>
         <RelativePosition DistanceUnitName="Mile" Distance="10.63"/>
      </Property>
      <Property BrandCode="ES" HotelName="Embassy Suites Memphis" HotelCode="MEMPE">
         <Address>
            <AddressLine>1022 S. SHADY GROVE ROAD</AddressLine>
            <CityName>MEMPHIS</CityName>
            <PostalCode>38120</PostalCode>
            <StateProv StateCode="TN"/>
            <CountryName Code="US"/>
         </Address>
         <RelativePosition DistanceUnitName="Mile" Distance="11.17"/>
      </Property>
      <Property BrandCode="GI" HotelName="Hilton Garden Inn Memphis Southaven" Hotel-
Code="MEMSH">
         <Address>
```

```
        <AddressLine>6671 TOWNE CENTER LOOP</AddressLine>
        <CityName>SOUTHAVEN</CityName>
        <PostalCode>38671</PostalCode>
        <StateProv StateCode="MS"/>
        <CountryName Code="US"/>
      </Address>
      <RelativePosition DistanceUnitName="Mile" Distance="13.42"/>
    </Property>
  </Properties>
  <Criteria>
    <Criterion>
      <Address>
        <CityName>Memphis</CityName>
        <StateProv StateCode="TN"/>
      </Address>
      <Radius DistanceMeasure="Mile" Distance="15"/>
    </Criterion>
  </Criteria>
</OTA_HotelSearchRS>
```

The following example is in response to a city search for Nome, Alaska. There are no Hilton brand hotels within 50 miles of Nome. A warning is returned but no Property elements, since no properties were found.

```
<OTA_HotelSearchRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
gID="en-us" Version="3.0" TimeStamp="2008-03-07T18:04:30.60-06:00">
  <Success/>
  <Warnings>
    <Warning Type="3">No Properties Were Found That Matched The Search Criteria</Warning>
  </Warnings>
  <Criteria>
    <Criterion>
      <Address>
        <CityName>Nome</CityName>
        <StateProv StateCode="AK"/>
      </Address>
      <Radius DistanceMeasure="Mile" Distance="50"/>
    </Criterion>
  </Criteria>
</OTA_HotelSearchRS>
```

Below is a partial response to a request for a list of **all** properties in the Hilton system.

```
<OTA_HotelSearchRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
gID="en-us" Version="3.0" TimeStamp="2008-03-07T18:09:48.85-06:00">
  <Success/>
  <Properties>
    . . . . .
    . . . . .
    <Property BrandCode="ES" HotelName="Embassy Suites Los Angeles - Downey" Hotel-
Code="LAXDW">
```

```xml
      <Address>
        <AddressLine>8425 FIRESTONE BLVD</AddressLine>
        <CityName>DOWNEY</CityName>
        <PostalCode>90241</PostalCode>
        <StateProv StateCode="CA"/>
        <CountryName Code="US"/>
      </Address>
    </Property>
    <Property BrandCode="ES" HotelName="Embassy Suites Arcadia- Arcadia-Pasadena Area" Hotel-
Code="LAXHD">
      <Address>
        <AddressLine>211 E. HUNTINGTON DRIVE</AddressLine>
        <CityName>ARCADIA</CityName>
        <PostalCode>91006</PostalCode>
        <StateProv StateCode="CA"/>
        <CountryName Code="US"/>
      </Address>
    </Property>
    <Property BrandCode="ES" HotelName="Embassy Suites Anchorage" HotelCode="ANCES">
      <Address>
        <AddressLine>600 E. BENSON BOULEVARD</AddressLine>
        <CityName>ANCHORAGE</CityName>
        <PostalCode>99587</PostalCode>
        <StateProv StateCode="AK"/>
        <CountryName Code="US"/>
      </Address>
    </Property>
    <Property BrandCode="ES" HotelName="Embassy Suites Waikiki Beach Walk" Hotel-
Code="HNLES">
      <Address>
        <AddressLine>201 BEACHWALK STREET</AddressLine>
        <CityName>HONOLULU</CityName>
        <PostalCode>96815</PostalCode>
        <StateProv StateCode="HI"/>
        <CountryName Code="US"/>
      </Address>
    </Property>
    <Property BrandCode="GI" HotelName="Hilton Dubai Jumeirah Beach Resort and Residence" Ho-
telCode="DXBBR">
      <Address>
        <AddressLine>PO BOX 2431</AddressLine>
        <CityName>DUBAI</CityName>

        <PostalCode>X</PostalCode>
        <StateProv StateCode="NA"/>
        <CountryName Code="AE"/>
      </Address>
    </Property>
    <Property BrandCode="GI" HotelName="Hilton Garden Inn Stuttgart NeckarPark" Hotel-
Code="STRPK">
      <Address>
        <AddressLine>MERCEDESSTRASSE 75</AddressLine>
        <CityName>STUTTGART</CityName>
        <PostalCode>70372</PostalCode>
        <StateProv StateCode="NA"/>
        <CountryName Code="DE"/>
```

```
        </Address>
      </Property>
      <Property BrandCode="GI" HotelName="Hilton Garden Inn Florence Novoli" HotelCode="FLRNV">
        <Address>
          <AddressLine>VIA SANDRO PERTINI, 2/9</AddressLine>
          <CityName>FLORENCE</CityName>
          <PostalCode>50127</PostalCode>
          <StateProv StateCode="NA"/>
          <CountryName Code="IT"/>
        </Address>
      </Property>
      <Property BrandCode="GI" HotelName="Hilton Garden Inn Matera, Italy" HotelCode="BRIMA">
        <Address>
          <AddressLine>VIA GERMANIA, BORGO VENUSIO</AddressLine>
          <CityName>MATERA</CityName>
          <PostalCode>75100</PostalCode>
          <StateProv StateCode="NA"/>
          <CountryName Code="IT"/>
        </Address>
      </Property>
      <Property BrandCode="GI" HotelName="Hilton Garden Inn Rome Airport" HotelCode="FCOAP">
        <Address>
          <AddressLine>VIA VITTORIO BRAGADIN 2</AddressLine>
          <CityName>FIUMICINO</CityName>
          <PostalCode>00054</PostalCode>
          <StateProv StateCode="NA"/>
          <CountryName Code="IT"/>
        </Address>
      </Property>
       . . . . . . .
       . . . . . . .
    </Properties>
  <Criteria>
    <Criterion>
      <Address/>
      <HotelRef BrandCode="*"/>
    </Criterion>
  </Criteria>
</OTA_HotelSearchRS>
```

6   OTA_HotelAvail

The OTA_HotelAvailRQ message is used to search for hotel rooms that are available for booking.   Unlike OTA_HotelSearchRQ/RS, it returns availability and rate information. It is common for an OTA_HotelSearchRQ message to precede an OTA_HotelAvailRQ in order to obtain a list of eligible properties.

The OTA_HotelAvailRQ/RS messages are used to check:

- Availability of 1 to 25 properties.

- Availability for Smoking/Non-Smoking rooms or rooms that can accomadate an extra bed.

- Total price of stay.

- Rate changes over stay.

- All rate plans and room types are returned for a single property request.

- The lowest rate per property is returned for a multi property request.

POS

Point of sale object.

AvailRequestSegmentsType

StayDateRange

Range of Dates, or Fixed set of dates for Availability Request. Date range can also be specified by using □ start □dates □and □ number of nights (minimum, maximum or fixed).

RateRange

RatePlanCandidates

AvailRequestSegment

1..∞

To accommodate the ability to perform multiple requests within one message, the availability request contains the repeating element, BookingSegment. Each booking segment includes a collection of criteria that requests a bookable entity, which may include designated rate plans, room types, amenities or services, and the request can be used for guest rooms or other inventory items for which availability is sought. Each Booking Segment would be presumed to have a unique date range for each request.

Profiles

RoomStayCandidates

HotelSearchCriteria

TPA_Extensions

A placeholder in the schema to allow for additional elements and attributes to be included if required, per Trading Partner Agreement (TPA).

AvailRequestSegments

OTA_HotelAvailRQ

Requests availability of hotel properties by specific criteria that may include: dates, date ranges, price range, room types, regular and qualifying rates, and/or services and amenities. The availability message can be used to get an initial availability or to get availability for the purpose of modifying an existing reservation.

HotelReservationIDs

Collection of Hotel Reservation IDs associated with a given reservation, used when asking for availability for the purpose of modifying an existing reservation.

Figure 3. OTA_HotelAvailRQ Schema

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6.1 OTA_HotelAvailRQ Elements and Attributes

This transaction can be used to request availability and rate information for a hotel by specific criteria that may include: one or more Hilton-specific hotel code (which is a unique identifier assigned to each property), date ranges, room count, regular and qualifying rates, and/or room amenities.

The Hilton-specific hotel codes can be obtained by using the OTA_HotelSearch transaction.

The following table shows the attributes of the OTA_HotelAvailRQ elements that are supported by the Hilton Transaction Exchange.

Table 8. OTA_HotelAvailRQ Elements and Attributes					
Level	Name	Type	Occurs	Required	Comments
0	**AvailRequestSegments**		1	Y	
1	**AvailRequestSegment**		1	Y	
2	**StayDateRange**		1	Y	Holds the date range for which the availability is requested.
	@Start	DateType		Y	The *Start* attribute's format is YYYY-MM-DD.
	@Duration	DurationType		Y	*Duration* has to be in the format P[0-90]D. The maximum stay that can be requested is ninety days.
2	**RateRange**		0..1	N	
	@CurrencyCode	AlphaLength3	1	Y	The currency in which the rates need to be displayed in the response. By default the rates will be displayed in the currency of the property. CurrencyCode is an ISO 4217, three-letter currency code. See http://www.id3.org/iso4217.html for the list of possible values.
2	**RatePlanCandidates**		0..1	N	RatePlanCandidates is used to check the availability of promotions or certain client specific rates.
3	**RatePlanCandidate**		1..4	Y	Out of the 4 RatePlanCandiate elements that are supported 3 can be sent with the *RatePlanCategory and RatePlanID* and 1 with *PromotionCode.*
	@RatePlanCategory	StringLength1to64		N	Negotiated rates of the same type are grouped into a single category which can be passed in the RatePlanCategory attribute.
	@RatePlanID	StringLength1to64		N	RatePlanID attribute specifies a special ID code that is associated with the rate.
	@PromotionCode	StringLength1to32		N	*PromotionCode* needs to be sent in a separate RatePanCandiate element.
2	**RoomStayCandidates**		1	Y	RoomStayCandidates contains guest count information.
3	**RoomStayCandidate**		1	Y	
	@Quantity	Numeric1to999		Y	The Quantity attribute specifies the number of rooms

					Table 8. OTA_HotelAvailRQ Elements and Attributes		

Level	Name	Type	Occurs	Required	Comments
					needed.
4	**GuestCounts**		1	Y	
	@IsPerRoom	xs:boolean		Y	*IsPerRoom* means that the guests defined in the GuestCounts object apply to *each* room in the Number-OfRooms for the RoomStay. The IsPerRoom attribute must always be "true".
5	**GuestCount**		1..2	Y	The GuestCount element contains the age and number (count) of guests for the room.
	@AgeQualifyingCode	OTA_CodeType		Y	The AgeQualifyingCode should either be "10" to specify adult or "8" for a child. (These are the values from the OTA Code List Age Qualifying Code (AQC).)
	@Count	Numeric1to999		Y	*The number of guests is applied to each room.* For instance, if the Quantity attribute is "3" and the GuestCount element specifies two adults and two children, then the availability check will only return room types that have 3 or more rooms available and that can accommodate two adults and two children in **each** room. You have to provide at least one GuestCount element, specifying the number of adults. At most, two GuestCount elements are allowed: one for the number of adults and one for the number of children
4	**RoomAmenity**		0..2	N	
	@RoomAmenity	OTA_CodeType		Y	This attribute can used to request for Smoking/Non-smoking rooms and/or rooms that support extra bed. See Appendix A, Table 6 for the RoomAmenity Codes.
2	**HotelSearchCriteria**		1	Y	
3	**Criterion**		1..25	Y	
4	**HotelRef**		1	Y	HotelRef contains the Hilton-specific hotel code (provided

					Table 8. OTA_HotelAvailRQ Elements and Attributes					
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
					in the HotelCode attribute). Typically, hotel codes are obtained in a OTA_HotelSearch response and then used to narrow a search after the initial request. For instance, an OTA_HotelSearch request could be used to get a list of hotel codes for hotels in New York City. The availability of a specific hotel could then be checked by setting the HotelRef attribute to one of the hotel codes (and providing a date range and any other necessary information).
	@HotelCode	StringLength1to8		Y	5 character Hilton property code.

6.2 OTA_HotelAvailRQ Examples

Example 1 - This is an example of a request that checks the availability for 2 rooms in three hotels for September 12, 2008 through September 15, 2008 for 1 Adult and 1 child.

```xml
<OTA_HotelAvailRQ TimeStamp="2008-03-28T09:54:36.949" Target="Production" Version="3.0" PrimaryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <AvailRequestSegments>
        <AvailRequestSegment>
            <StayDateRange Start="2008-09-12" Duration="P3D"/>
            <RoomStayCandidates>
                <RoomStayCandidate Quantity="2">
                    <GuestCounts IsPerRoom="true">
                        <GuestCount AgeQualifyingCode="10" Count="1"/>
                        <GuestCount AgeQualifyingCode="8" Count="1"/>
                    </GuestCounts>
                </RoomStayCandidate>
            </RoomStayCandidates>
            <HotelSearchCriteria>
                <Criterion>
                    <HotelRef HotelCode="MIAOP"/>
                </Criterion>
                <Criterion>
                    <HotelRef HotelCode="MIAOF"/>
                </Criterion>
                <Criterion>
                    <HotelRef HotelCode="MEMPE"/>
                </Criterion>
            </HotelSearchCriteria>
        </AvailRequestSegment>
    </AvailRequestSegments>
</OTA_HotelAvailRQ>
```
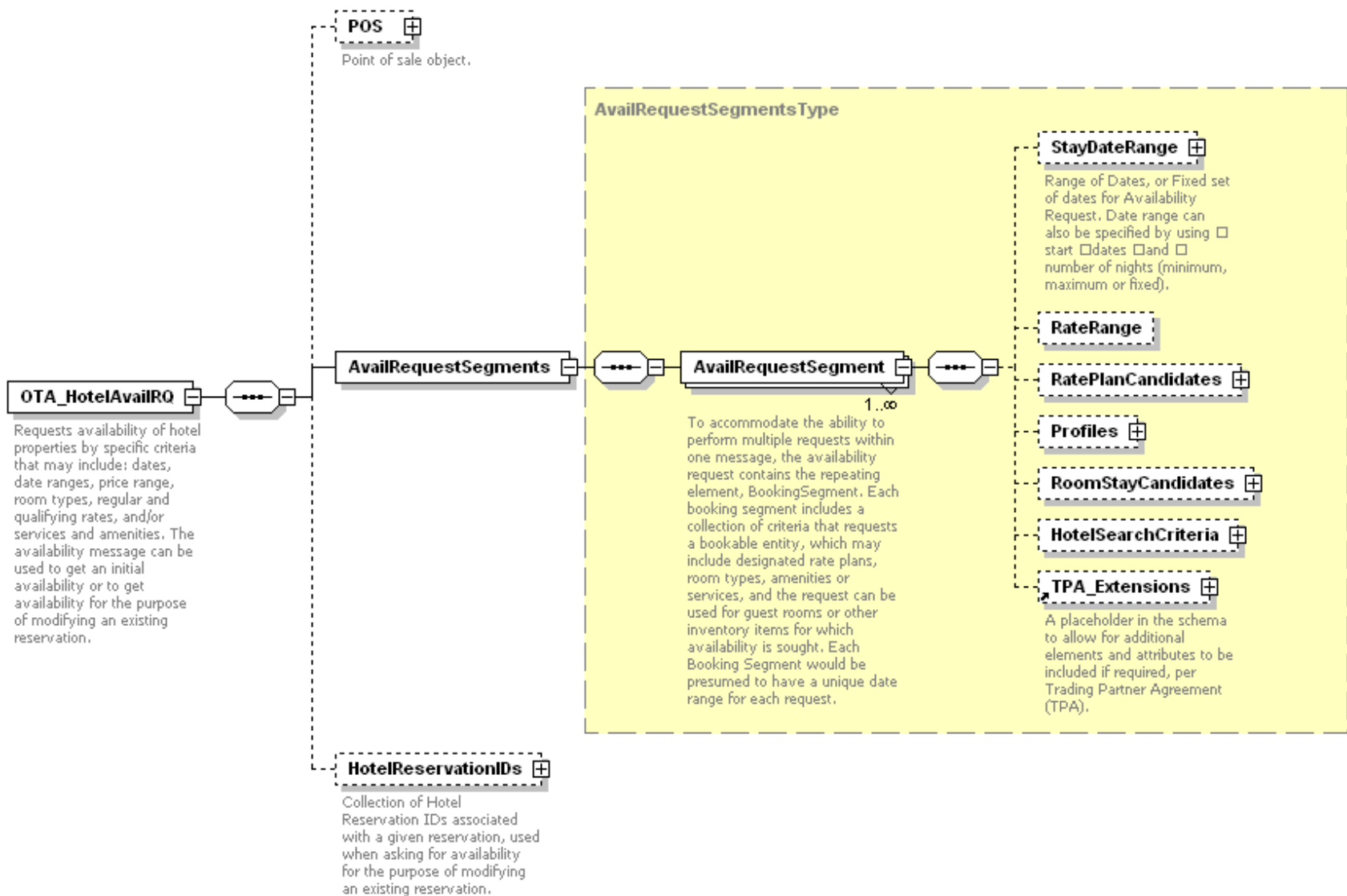
Example 2 - This example is an availability check for a specific hotel in Miami, Florida: The DoubleTree Ocean Point Resort & Spa. The Hotel Code for this property is "MIAOP".   This example also looks for 2 available non-smoking (RoomAmenity = 7) rooms with space for 2 adults and 1 child in each room.

```xml
<OTA_HotelAvailRQ TimeStamp="2008-03-28T10:15:13.178" Target="Production" Version="3.0" PrimaryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <AvailRequestSegments>
        <AvailRequestSegment>
            <StayDateRange Start="2008-09-12" Duration="P3D"/>
            <RoomStayCandidates>
                <RoomStayCandidate Quantity="2">
                    <GuestCounts IsPerRoom="true">
                        <GuestCount AgeQualifyingCode="10" Count="2"/>
                        <GuestCount AgeQualifyingCode="8" Count="1"/>
                    </GuestCounts>
                    <RoomAmenity RoomAmenity="7" />
                </RoomStayCandidate>
            </RoomStayCandidates>
```

```
            <HotelSearchCriteria>
                <Criterion>
                    <HotelRef HotelCode="MIAOP"/>
                </Criterion>
            </HotelSearchCriteria>
        </AvailRequestSegment>
    </AvailRequestSegments>
</OTA_HotelAvailRQ>
```

Example 3 - This is an example of a request that checks the availability of a specific hotel in New York for 3 nights for 2 adults and 1 child in each room. This request also checks for the availability of a special negotiated Rate Id IB1.

```
<OTA_HotelAvailRQ TimeStamp="2008-03-28T10:20:44.842" Target="Production" Version="3.0" Prima-
ryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
    <AvailRequestSegments>
        <AvailRequestSegment>
            <StayDateRange Start="2008-09-12" Duration="P3D"/>
            <RatePlanCandidates>
                <RatePlanCandidate RatePlanCategory="CORPORATE" RatePlanID="IB1"/>
            </RatePlanCandidates>
            <RoomStayCandidates>
                <RoomStayCandidate Quantity="1">
                    <GuestCounts IsPerRoom="true">
                        <GuestCount AgeQualifyingCode="10" Count="2"/>
                        <GuestCount AgeQualifyingCode="8" Count="1"/>
                    </GuestCounts>
                    <RoomAmenity RoomAmenity="7"/>
                </RoomStayCandidate>
            </RoomStayCandidates>
            <HotelSearchCriteria>
                <Criterion>
                    <HotelRef HotelCode="NYCTS"/>
                </Criterion>
            </HotelSearchCriteria>
        </AvailRequestSegment>
    </AvailRequestSegments>
</OTA_HotelAvailRQ>
```

Figure 4. OTA_HotelAvailRS Schema

6.3 OTA_HotelAvailRS Elements and Attributes

OTA_HotelAvailRS returns rates for all available room types at the requested property that meet the requested criteria like room amenity and dates specified if a single property was sent in the request. If availability for multiple properties was requested then only the lowest rate per property will be returned

The response message may include Warnings from business processing rules or Errors if the request did not succeed

The following table shows the attributes of the OTA_HotelAvailRS elements that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
	Table 9. OTA_HotelAvailRS Elements and Attributes				
0	**OTA_HotelAvailRS**		1	Y	
1	**Success**		0..1	N	See section 4.1.2 for more info on Success
1	**Errors**		0..1	N	See section 4.1.2 for more info on errors.
2	**Error**		1	Y	
	@Type	OTA_CodeType		Y	
1	**Warnings**		0..1	N	See section 4.1.2 for more info on warnings.
2	**Warning**		1..n	Y	
	@Type	OTA_CodeType		Y	
1	**RoomStays**		0..1	N	
2	**RoomStay**		1..n	Y	
3	**RatePlans**		0..1	N	The RatePlans element is a collection of rate plans that are associated with the room stay.
4	**RatePlan**		1..n	Y	
	@RatePlanCode	StringLength1to16		Y	
	@RateIndicator	RateIndicatorType		N	The RatePlan@RateIndicator will always be "ChangeDuringStay" if a rate changes exist for one or more room types associated with the rate plan.
5	**CancelPenalties**		1	Y	
6	**CancelPenalty**		1	Y	The CancelPenalties element defines the cancellation policy for the rate plan.
7	**PenaltyDescription**		1	Y	
8	**Text**		1	Y	
5	**RatePlanDescription**		1	Y	

Level	Name	Type	Occurs	Required	Comments
Table 9. OTA_HotelAvailRS Elements and Attributes					
6	**Text**				
3	**RoomRates**		1	Y	
4	**RoomRate**		1..n	Y	
	@NumberOfUnits	Numeric1		Y	Number of rooms requested.
	@BookingCode	StringLength1to16		N	Hilton-specific value. See Appendix A, Table 5 for a complete list.
	@RoomTypeCode	StringLength1to64		Y	The RoomTypeCode is a Hilton-specific value repre-senting the room type.
	@RatePlanCode	StringLength1to16		Y	
	@RatePlanID	StringLength1to64		N	
	@EffectiveDate	xs:date		N	
	@ExpireDate	xs:date		N	
5	**Rates**		1	Y	
6	**Rate**		1..n	Y	Multiple rate elements will be returned only if there is a rate change over stay and if during registration you were setup to receive rate changes.
	@EffectiveDate	xs:date		N	The RoomRate element's EffectiveDate and Expire-Date attributes will always be populated.
	@ExpireDate	xs:date		N	
	@RateMode	OTA_CodeType		N	*RateMode* can be 1,2, 3 or 4 depending on whether the Base element holds the date of arrival rate (1), minimum rate (2), maximum rate (3), or average rate (4). *These options are client specific which are setup during registration* and will be applicable to both sin-gle and multi property avails.
	@RateTimeUnit	TimeUnitType		N	This attribute will be returned only if during registra-tion you were setup to get rate changes over stay and

		Table 9. OTA_HotelAvailRS Elements and Attributes				
Level	Name	Type	Occurs	Required	Comments	
					if there are rate changes. This attribute will always be "Day" since the rate returned in the Base element is the daily rate.	
7	**Base**		1	Y	Either AmountBeforeTax or AmountAfterTax will be returned.	
	@AmountBeforeTax	Money		N	The AmountBeforeTax attribute contains the base dollar amount of the rate per room per night excluding taxes. The amount returned back depends on the RateMode attribute.	
	@AmountAfterTax	Money		N	The AmountAfterTax attribute is the entire amount of the stay including applicable taxes. The amount returned back depends on the RateMode attribute.	
	@CurrencyCode	AlphaLength3		Y	CurrencyCode is an ISO 4217, three-letter currency code. See http://www.id3.org/iso4217.html for the list of possible values.	
7	**AdditionalGuestAmounts**		0..1	N	This element is returned only if Rollaway or crib was requested in OTA_HotelAvailRQ and if the room type supports an extra bed.	
8	**AdditionalGuestAmount**		1..2	Y		
9	**Amount**		1	Y	Either the AmountBeforeTax or AmountAfterTax will be returned.	
	@AdditionalFeesExcludedIndicator	xs:boolean		Y	Will always be "true" since the additional rates are not included in the total price of the room.	
	@CurrencyCode	AlphaLength3		Y	The currency in which the rates are returned.	
	@AmountBeforeTax	Money		N		
	@AmountAfterTax	Money		N		
10	**AddlGuestAmtDescription**		1	Y		
11	**Text**		1	Y	A description of the additional charge.	

Level	Name	Type	Occurs	Required	Comments
7	**PaymentPolicies**		0..1	N	The guarantee/deposit policies for this room are specified in the PaymentPolicies element. A list of all the payment/guarantee policies supported by HTE is provided in <u>Appendix A, Table 1</u>.
8	**RequiredPayment**		1..n	Y	
	@PaymentCode	StringLength1to8		Y	
9	**AmountPercent**		0..1	N	
	@Amount	Money		Y	If the payment/guarantee policy requires a deposit then the deposit amount will be returned in the Amount attribute of the AmountPercent element.
	@CurrencyCode	AlphaLength3		Y	
7	**Total**		0..1	N	The total price for this room type excluding the additional amounts for rollaway and crib.
	@AmountAfterTax	Money		Y	The AmountAfterTax attribute is the entire amount of the stay including applicable taxes.
	@CurrencyCode	AlphaLength3		Y	The currency in which the total price is returned.
8	**Taxes**		1	Y	
9	**Tax**		1..2	Y	
	@Code	OTA_CodeType		Y	The *Code* (refer to the OTA Code Fee List type table) identifies the fees applied to the rate, the *Code* can be either "14 or "17".
	@Amount	Money		Y	If the *Code* is "14" then the *Amount* will have the service charges that were applied to the rate and if *Code* is "17" then the *Amount* will include all taxes and additional fees that were applied to the rate.
	@CurrencyCode	AlphaLength3		Y	The currency in which the taxes are returned.
5	**Features**		0..1	N	Feature elements are used to describe the room. Both human-readable text and Hilton-specific codes are used to describe/classify the room.

Table title (spanning header): **Table 9. OTA_HotelAvailRS Elements and Attributes**

		Table 9. OTA_HotelAvailRS Elements and Attributes				
Level	Name	Type	Occurs	Required	Comments
6	**Feature**		1..n	Y	
	@RoomAmenity	OTA_CodeType		N	Instead of having a value from the OTA Code List Room Amenity Type (RMA), the RoomAmenity attribute is a value from the Hilton Room Amenity Codes table in Appendix A, Table 6. There are 12 possible values. There may be more than one instance of this attribute, for instance, if a room is classified as a non-smoking suite with two beds, there will be three RoomAttribute attributes with the values of "7", "2" and "1", respectively. If a meal plan is associated with the room stay then the value of the RoomAttribute could be "8" and the Text element within the Feature element would have the meal plan code. The meal plan code can be mapped to its description using the Hilton Meal Plan Codes table in Appendix A, Table 4. NOTE: Meal plan codes are not returned in multi property avail responses.
7	**Description**		0..1	N	

8	**Text**		1..5	Y	If the RoomAmenity attribute is not present in the Feature element then the Text element will have the description of the room as shown below…
					 `<Feature>`
					 `    <Description>`
					 `     <Text>1 KING BED NONSMOKING</Text>`
					 `    </Description>`
					 `</Feature>`

3	**TimeSpan**		1	Y	The TimeSpan element is equivalent to the Stay-DateRange element in the original request.
	@Start	DateType		Y	
	@Duration	DurationType		N	
3	**BasicPropertyInfo**		1	Y	The BrandCode, HotelCode and HotelName will always be populated in the BasicPropertyInfo element.

Level	Name	Type	Occurs	Required	Comments
	@BrandCode	StringLength1to8		Y	
	@HotelCode	StringLength1to8		Y	
	@HotelName	StringLength1to128		Y	
1	**Criteria**		0..1	N	Criteria and its sub-elements will contain the values for each hotel in the request.
2	**Criterion**		1..25	Y	
3	**HotelRef**		1	Y	
	@HotelCode	StringLength1to8	1	Y	

The table above has the title row:

Table 9. OTA_HotelAvailRS Elements and Attributes

6.4 OTA_HotelAvailRS Examples

Example 1 - The following example is a response to an availability check for two properties for September 7th through the 12th. In this example we were searching for 3 rooms each with 2 adults in each room. Only one rate is returned for each property – the "best available" rate.

```xml
<OTA_HotelAvailRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-us" Version="3.0" TimeStamp="2008-03-28T13:32:01.05-05:00">
    <Success/>
    <RoomStays>
      <RoomStay>
        <RatePlans>
          <RatePlan RatePlanCode="LV2">
            <CancelPenalties>
              <CancelPenalty>
                <PenaltyDescription>
                  <Text>CANCEL BEFORE 6PM</Text>
                </PenaltyDescription>
              </CancelPenalty>
            </CancelPenalties>
            <RatePlanDescription>
              <Text>BEST AVAILABLE RATE</Text>
            </RatePlanDescription>
          </RatePlan>
        </RatePlans>
        <RoomRates>
          <RoomRate BookingCode="BAR" RatePlanCode="LV2" RoomTypeCode="SXBL" EffectiveDate="2008-09-07" ExpireDate="2008-09-12" NumberOfUnits="3">
            <Rates>
              <Rate EffectiveDate="2008-09-07" ExpireDate="2008-09-12" RateMode="4">
                <Base CurrencyCode="USD" AmountBeforeTax="124.00"/>
                <PaymentPolicies>
                  <RequiredPayment PaymentCode="TA"/>
                  <RequiredPayment PaymentCode="CC"/>
                  <RequiredPayment PaymentCode="CR"/>
                  <RequiredPayment PaymentCode="GC"/>
                </PaymentPolicies>
                <Total CurrencyCode="USD" AmountAfterTax="688.20">
                  <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="USD"/>
                    <Tax Code="17" Amount="68.20" CurrencyCode="USD"/>
                  </Taxes>
                </Total>
              </Rate>
            </Rates>
            <Features>
              <Feature RoomAmenity="7"/>
              <Feature>
                <Description>
                  <Text>2 DOUBLE BEDS NONSMOKING</Text>
                </Description>
              </Feature>
            </Features>
          </RoomRate>
        </RoomRates>
```

```
            <TimeSpan Start="2008-09-07" Duration="P5D"/>
            <BasicPropertyInfo BrandCode="HP" HotelName="Hampton Inn Suites Chicago-Hoffman
Estates" HotelCode="CHIHM"/>
        </RoomStay>
        <RoomStay>
            <RatePlans>
                <RatePlan RatePlanCode="LV1">
                    <CancelPenalties>
                        <CancelPenalty>
                            <PenaltyDescription>
                                <Text>CANCEL BEFORE 6PM</Text>
                            </PenaltyDescription>
                        </CancelPenalty>
                    </CancelPenalties>
                    <RatePlanDescription>
                        <Text>BEST AVAILABLE RATE</Text>
                    </RatePlanDescription>
                </RatePlan>
            </RatePlans>
            <RoomRates>
                <RoomRate BookingCode="BAR" RatePlanCode="LV1" RoomTypeCode="SXBL" Effec-
tiveDate="2008-09-07" ExpireDate="2008-09-12" NumberOfUnits="3">
                    <Rates>
                        <Rate EffectiveDate="2008-09-07" ExpireDate="2008-09-12" RateMode="4">
                            <Base CurrencyCode="USD" AmountBeforeTax="144.00"/>
                            <PaymentPolicies>
                                <RequiredPayment PaymentCode="TA"/>
                                <RequiredPayment PaymentCode="CC"/>
                                <RequiredPayment PaymentCode="CR"/>
                                <RequiredPayment PaymentCode="GC"/>
                            </PaymentPolicies>
                            <Total CurrencyCode="USD" AmountAfterTax="820.80">
                                <Taxes>
                                    <Tax Code="14" Amount="0.00" CurrencyCode="USD"/>
                                    <Tax Code="17" Amount="100.80" CurrencyCode="USD"/>
                                </Taxes>
                            </Total>
                        </Rate>
                    </Rates>
                    <Features>
                        <Feature RoomAmenity="7"/>
                        <Feature>
                            <Description>
                                <Text>2 DOUBLE BEDS NONSMOKING</Text>
                            </Description>
                        </Feature>
                    </Features>
                </RoomRate>
            </RoomRates>
            <TimeSpan Start="2008-09-07" Duration="P5D"/>
            <BasicPropertyInfo BrandCode="HP" HotelName="Hampton Inn Chicago-Schaumburg" Ho-
telCode="CHIHG"/>
        </RoomStay>
    </RoomStays>
    <Criteria>
        <Criterion>
```

```
            <HotelRef HotelCode="CHIHG"/>
        </Criterion>
        <Criterion>
            <HotelRef HotelCode="CHIHM"/>
        </Criterion>
    </Criteria>
</OTA_HotelAvailRS>
```

Example 2 - This is an example of a response to an availability check for a specific property, the Frankfurt Hilton. The stay is for January 1st for one night for 2 adults in 1 room. Only the room types and rates that are available for that night are included. (For each room type, at least one room is available at the designated rate at the time the request was made.) The hotel code for this property is "FRAHI".

```
<OTA_HotelAvailRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-
us" Version="3.0" TimeStamp="2008-03-28T22:23:30.42-05:00">
    <Success/>
    <RoomStays>
      <RoomStay>
        <RatePlans>
          <RatePlan RatePlanCode="LV6">
            <CancelPenalties>
              <CancelPenalty>
                <PenaltyDescription>
                  <Text>4PM Cxl on Arr Date</Text>
                </PenaltyDescription>
              </CancelPenalty>
            </CancelPenalties>
            <RatePlanDescription>
              <Text>BEST AVAILABLE RATE</Text>
            </RatePlanDescription>
          </RatePlan>
        </RatePlans>
        <RoomRates>
          <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1J" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
            <Rates>
              <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                <Base CurrencyCode="EUR" AmountAfterTax="375.00"/>
                <PaymentPolicies>
                  <RequiredPayment PaymentCode="CC"/>
                  <RequiredPayment PaymentCode="CO"/>
                  <RequiredPayment PaymentCode="TA"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="375.00">
                  <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                    <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                  </Taxes>
                </Total>
              </Rate>
            </Rates>
            <Features>
              <Feature RoomAmenity="0"/>
              <Feature RoomAmenity="2"/>
              <Feature>
```

```
                <Description>
                    <Text>KING JUNIOR SUITE</Text>
                </Description>
            </Feature>
        </Features>
    </RoomRate>
    <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1DRA" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
        <Rates>
            <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                <Base CurrencyCode="EUR" AmountAfterTax="305.00"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CO"/>
                    <RequiredPayment PaymentCode="TA"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="305.00">
                    <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                        <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                    </Taxes>
                </Total>
            </Rate>
        </Rates>
        <Features>
            <Feature RoomAmenity="0"/>
            <Feature>
                <Description>
                    <Text>KING HILTON DLX ROOM PLUS</Text>
                </Description>
            </Feature>
        </Features>
    </RoomRate>
    <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="T2E" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
        <Rates>
            <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                <Base CurrencyCode="EUR" AmountAfterTax="325.00"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CO"/>
                    <RequiredPayment PaymentCode="TA"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="325.00">
                    <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                        <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                    </Taxes>
                </Total>
            </Rate>
        </Rates>
        <Features>
            <Feature RoomAmenity="1"/>
            <Feature RoomAmenity="3"/>
            <Feature>
                <Description>
```

```xml
            <Text>TWIN HILTON EXECUTIVE ROOM</Text>
          </Description>
        </Feature>
      </Features>
    </RoomRate>
    <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="T2" Effective-
Date="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
      <Rates>
        <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
          <Base CurrencyCode="EUR" AmountAfterTax="275.00"/>
          <PaymentPolicies>
            <RequiredPayment PaymentCode="CC"/>
            <RequiredPayment PaymentCode="CO"/>
            <RequiredPayment PaymentCode="TA"/>
          </PaymentPolicies>
          <Total CurrencyCode="EUR" AmountAfterTax="275.00">
            <Taxes>
              <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
              <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
            </Taxes>
          </Total>
        </Rate>
      </Rates>
      <Features>
        <Feature RoomAmenity="1"/>
        <Feature>
          <Description>
            <Text>TWIN HILTON GUESTROOM</Text>
          </Description>
        </Feature>
      </Features>
    </RoomRate>
    <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="T2RO" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
      <Rates>
        <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
          <Base CurrencyCode="EUR" AmountAfterTax="295.00"/>
          <PaymentPolicies>
            <RequiredPayment PaymentCode="CC"/>
            <RequiredPayment PaymentCode="CO"/>
            <RequiredPayment PaymentCode="TA"/>
          </PaymentPolicies>
          <Total CurrencyCode="EUR" AmountAfterTax="295.00">
            <Taxes>
              <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
              <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
            </Taxes>
          </Total>
        </Rate>
      </Rates>
      <Features>
        <Feature RoomAmenity="1"/>
        <Feature>
          <Description>
            <Text>TWIN HILTON DELUXE ROOM</Text>
          </Description>
```

```xml
                    </Feature>
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="Q1RO" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
                <Rates>
                    <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                        <Base CurrencyCode="EUR" AmountAfterTax="275.00"/>
                        <PaymentPolicies>
                            <RequiredPayment PaymentCode="CC"/>
                            <RequiredPayment PaymentCode="CO"/>
                            <RequiredPayment PaymentCode="TA"/>

                        </PaymentPolicies>
                        <Total CurrencyCode="EUR" AmountAfterTax="275.00">
                            <Taxes>
                                <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                                <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                            </Taxes>
                        </Total>
                    </Rate>
                </Rates>
                <Features>
                    <Feature RoomAmenity="0"/>
                    <Feature>
                        <Description>
                            <Text>QUEEN HILTON GUESTROOM</Text>
                        </Description>
                    </Feature>
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1RO" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
                <Rates>
                    <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                        <Base CurrencyCode="EUR" AmountAfterTax="295.00"/>
                        <PaymentPolicies>
                            <RequiredPayment PaymentCode="CC"/>
                            <RequiredPayment PaymentCode="CO"/>
                            <RequiredPayment PaymentCode="TA"/>
                        </PaymentPolicies>
                        <Total CurrencyCode="EUR" AmountAfterTax="295.00">
                            <Taxes>
                                <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                                <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                            </Taxes>
                        </Total>
                    </Rate>
                </Rates>
                <Features>
                    <Feature RoomAmenity="0"/>
                    <Feature>
                        <Description>
                            <Text>KING HILTON DELUXE ROOM</Text>
                        </Description>
                    </Feature>
```

```xml
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1E" Effec-
tiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
                <Rates>
                  <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                    <Base CurrencyCode="EUR" AmountAfterTax="325.00"/>
                    <PaymentPolicies>
                      <RequiredPayment PaymentCode="CC"/>
                      <RequiredPayment PaymentCode="CO"/>
                      <RequiredPayment PaymentCode="TA"/>
                    </PaymentPolicies>
                    <Total CurrencyCode="EUR" AmountAfterTax="325.00">
                      <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                        <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                      </Taxes>
                    </Total>
                  </Rate>
                </Rates>
                <Features>
                  <Feature RoomAmenity="0"/>
                  <Feature RoomAmenity="3"/>
                  <Feature>
                    <Description>
                      <Text>KING HILTON EXECUTIVE ROOM</Text>
                    </Description>
                  </Feature>
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1DRP1" Ef-
fectiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
                <Rates>
                  <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                    <Base CurrencyCode="EUR" AmountAfterTax="475.00"/>
                    <PaymentPolicies>
                      <RequiredPayment PaymentCode="CC"/>
                      <RequiredPayment PaymentCode="CO"/>
                      <RequiredPayment PaymentCode="TA"/>
                    </PaymentPolicies>
                    <Total CurrencyCode="EUR" AmountAfterTax="475.00">
                      <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                        <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                      </Taxes>
                    </Total>
                  </Rate>
                </Rates>
                <Features>
                  <Feature RoomAmenity="0"/>
                  <Feature RoomAmenity="2"/>
                  <Feature>
                    <Description>
                      <Text>KING DELUXE SUITE</Text>
                    </Description>
                  </Feature>
```

```xml
          </Features>
        </RoomRate>
        <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1ZRP1" Ef-
fectiveDate="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
            <Rates>
              <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                <Base CurrencyCode="EUR" AmountAfterTax="975.00"/>
                <PaymentPolicies>
                  <RequiredPayment PaymentCode="CC"/>
                  <RequiredPayment PaymentCode="CO"/>
                  <RequiredPayment PaymentCode="TA"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="975.00">
                  <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                    <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                  </Taxes>
                </Total>
              </Rate>
            </Rates>
            <Features>
              <Feature RoomAmenity="0"/>
              <Feature RoomAmenity="2"/>
              <Feature>
                <Description>
                  <Text>KING PRESIDENTIAL SUITE</Text>
                </Description>
              </Feature>
            </Features>
        </RoomRate>
        <RoomRate BookingCode="BAR" RatePlanCode="LV6" RoomTypeCode="K1" Effective-
Date="2009-01-01" ExpireDate="2009-01-02" NumberOfUnits="1">
            <Rates>
              <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-02" RateMode="4">
                <Base CurrencyCode="EUR" AmountAfterTax="275.00"/>
                <PaymentPolicies>
                  <RequiredPayment PaymentCode="CC"/>
                  <RequiredPayment PaymentCode="CO"/>
                  <RequiredPayment PaymentCode="TA"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="275.00">
                  <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                    <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                  </Taxes>
                </Total>
              </Rate>
            </Rates>
            <Features>
              <Feature RoomAmenity="0"/>
              <Feature>
                <Description>
                  <Text>KING HILTON GUEST ROOM</Text>
                </Description>
              </Feature>
            </Features>
```

```
            </RoomRate>
          </RoomRates>
          <TimeSpan Start="2009-01-01" Duration="P1D"/>
          <BasicPropertyInfo BrandCode="HI" HotelName="Hilton Frankfurt hotel" Hotel-
Code="FRAHI"/>
        </RoomStay>
      </RoomStays>
      <Criteria>
        <Criterion>
          <HotelRef HotelCode="FRAHI"/>
        </Criterion>
      </Criteria>
</OTA_HotelAvailRS>
```

Example 3 - This is an example of a response to an availability check for a specific property, the Embassy Suites Niagara Falls - Fallsview. The stay is for September 12th for 6 nights for 1 adult in 1 room. The hotel code for this property is "IAGES". The RateIndicator attribute is set to "ChangeDuringStay" for the rate plan that has a rate change associated with it and the actual rate changes are sent in the Rate element.

```
<OTA_HotelAvailRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-
us" Version="3.0" TimeStamp="2008-03-30T20:14:16.81-05:00">
      <Success/>
      <RoomStays>
        <RoomStay>
          <RatePlans>
            <RatePlan RatePlanCode="LV0" RateIndicator="ChangeDuringStay">
              <CancelPenalties>
                <CancelPenalty>
                  <PenaltyDescription>
                    <Text>72 HR CANCELLATION REQUIRED</Text>
                  </PenaltyDescription>
                </CancelPenalty>
              </CancelPenalties>
              <RatePlanDescription>
                <Text>LV0 AVAILABLE RATE</Text>
              </RatePlanDescription>
            </RatePlan>
          </RatePlans>
          <RoomRates>
            <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="TCSS" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
              <Rates>
                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                  <Base CurrencyCode="CAD" AmountBeforeTax="255.00"/>
                  <PaymentPolicies>
                    <RequiredPayment PaymentCode="TA"/>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CR"/>
                    <RequiredPayment PaymentCode="GC"/>
                  </PaymentPolicies>
                  <Total CurrencyCode="CAD" AmountAfterTax="1728.90">
                    <Taxes>
                      <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                      <Tax Code="17" Amount="198.90" CurrencyCode="CAD"/>
```

```xml
                                    </Taxes>
                                </Total>
                            </Rate>
                            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                                <Base CurrencyCode="CAD" AmountAfterTax="295.00"/>
                            </Rate>
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BEDS-FALLSVIEW-NONSMOK...HI FLOOR-VIEW OF HORSESHOE FALLS-SOFABED</Text>
                            </Description>
                        </Feature>
                    </Features>
                </RoomRate>
                <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="OSNS" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
                    <Rates>
                        <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                            <Base CurrencyCode="CAD" AmountBeforeTax="521.67"/>
                            <PaymentPolicies>
                                <RequiredPayment PaymentCode="TA"/>
                                <RequiredPayment PaymentCode="CC"/>
                                <RequiredPayment PaymentCode="CR"/>
                                <RequiredPayment PaymentCode="GC"/>
                            </PaymentPolicies>
                            <Total CurrencyCode="CAD" AmountAfterTax="3536.90">
                                <Taxes>
                                    <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                                    <Tax Code="17" Amount="406.90" CurrencyCode="CAD"/>
                                </Taxes>
                            </Total>
                        </Rate>
                        <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                            <Base CurrencyCode="CAD" AmountAfterTax="525.00"/>
                        </Rate>
                        <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">
                            <Base CurrencyCode="CAD" AmountAfterTax="625.00"/>
                        </Rate>
```

```
                    <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="495.00"/>
                    </Rate>
                </Rates>
                <Features>
                    <Feature RoomAmenity="6"/>
                    <Feature RoomAmenity="0"/>
                    <Feature RoomAmenity="2"/>
                    <Feature>
                        <Description>
                            <Text>3 ROOM PRESIDENTIAL SMOK...3 RM/2 BATH PRESIDENT STE-
1KG BD-2 SOFA BD-SK...PANORAMIC VIEWS OF FALLS-FIREPLACE-WHIRLPOOL</Text>
                        </Description>
                    </Feature>
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="KSVS" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
                <Rates>
                    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                        <Base CurrencyCode="CAD" AmountBeforeTax="311.67"/>
                        <PaymentPolicies>
                            <RequiredPayment PaymentCode="TA"/>
                            <RequiredPayment PaymentCode="CC"/>
                            <RequiredPayment PaymentCode="CR"/>
                            <RequiredPayment PaymentCode="GC"/>
                        </PaymentPolicies>
                        <Total CurrencyCode="CAD" AmountAfterTax="2113.10">
                            <Taxes>
                                <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                                <Tax Code="17" Amount="243.10" CurrencyCode="CAD"/>
                            </Taxes>
                        </Total>
                    </Rate>
                    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="375.00"/>
                    </Rate>
                    <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="475.00"/>
                    </Rate>
                    <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="255.00"/>
                    </Rate>
                </Rates>
                <Features>
                    <Feature RoomAmenity="6"/>
                    <Feature RoomAmenity="0"/>
                    <Feature RoomAmenity="2"/>
                    <Feature>
                        <Description>
                            <Text>1KNG WHIRLPL FALLSVIEW SMK...2RM WHIRLPOOL SUITE-1
KING BED FALLSVIEW-SMOK...HI FLOOR-VIEW OF HORSESHOE FALLS-SOFABED</Text>
```

```xml
                </Description>
            </Feature>
        </Features>
    </RoomRate>
    <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="KCSN" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
        <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                <Base CurrencyCode="CAD" AmountBeforeTax="298.33"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="TA"/>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CR"/>
                    <RequiredPayment PaymentCode="GC"/>
                </PaymentPolicies>
                <Total CurrencyCode="CAD" AmountAfterTax="2022.70">
                    <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                        <Tax Code="17" Amount="232.70" CurrencyCode="CAD"/>
                    </Taxes>
                </Total>
            </Rate>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">

                <Base CurrencyCode="CAD" AmountAfterTax="365.00"/>
            </Rate>
            <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">

                <Base CurrencyCode="CAD" AmountAfterTax="445.00"/>
            </Rate>
            <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">

                <Base CurrencyCode="CAD" AmountAfterTax="245.00"/>
            </Rate>
        </Rates>
        <Features>
            <Feature RoomAmenity="7"/>
            <Feature RoomAmenity="0"/>
            <Feature RoomAmenity="2"/>
            <Feature>
                <Description>
                    <Text>1KING JR PRESIDENT NOSMOK...2 ROOM JR PRESIDENT
SUITE-1KING BED-NOSMOKING...VIEW OF BOTH FALLS-FIREPLACE-WHIRLPOOL-SOFABD</Text>
                </Description>
            </Feature>
        </Features>
    </RoomRate>
    <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="TSVS" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
        <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                <Base CurrencyCode="CAD" AmountBeforeTax="260.00"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="TA"/>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CR"/>
```

```xml
                        <RequiredPayment PaymentCode="GC"/>
                    </PaymentPolicies>
                    <Total CurrencyCode="CAD" AmountAfterTax="1762.80">
                        <Taxes>
                            <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                            <Tax Code="17" Amount="202.80" CurrencyCode="CAD"/>
                        </Taxes>
                    </Total>
                </Rate>
                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeUnit="Day">

                    <Base CurrencyCode="CAD" AmountAfterTax="305.00"/>
                </Rate>
                <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeUnit="Day">

                    <Base CurrencyCode="CAD" AmountAfterTax="395.00"/>
                </Rate>
                <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeUnit="Day">

                    <Base CurrencyCode="CAD" AmountAfterTax="215.00"/>
                </Rate>
            </Rates>
            <Features>
                <Feature RoomAmenity="6"/>
                <Feature RoomAmenity="1"/>
                <Feature RoomAmenity="2"/>
                <Feature>
                    <Description>
                        <Text>2 QUEENS FALLSVIEW SMOKING...2 ROOM SUITE-2 QUEEN
BEDS FALLSVIEW-SMOKING...HI FLOOR-VIEW OF HORSESHOE FALLS-SOFABED</Text>
                    </Description>
                </Feature>
            </Features>
        </RoomRate>
        <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="TWCN" EffectiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
            <Rates>
                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                    <Base CurrencyCode="CAD" AmountBeforeTax="213.33"/>
                    <PaymentPolicies>
                        <RequiredPayment PaymentCode="TA"/>
                        <RequiredPayment PaymentCode="CC"/>
                        <RequiredPayment PaymentCode="CR"/>
                        <RequiredPayment PaymentCode="GC"/>
                    </PaymentPolicies>
                    <Total CurrencyCode="CAD" AmountAfterTax="1446.40">
                        <Taxes>
                            <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                            <Tax Code="17" Amount="166.40" CurrencyCode="CAD"/>
                        </Taxes>
                    </Total>
                </Rate>
                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeUnit="Day">

                    <Base CurrencyCode="CAD" AmountAfterTax="255.00"/>
                </Rate>
```

```xml
                        <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">

                            <Base CurrencyCode="CAD" AmountAfterTax="325.00"/>
                        </Rate>
                        <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">

                            <Base CurrencyCode="CAD" AmountAfterTax="175.00"/>
                        </Rate>
                    </Rates>
                    <Features>
                        <Feature RoomAmenity="7"/>
                        <Feature RoomAmenity="1"/>
                        <Feature RoomAmenity="2"/>
                        <Feature RoomAmenity="5"/>
                        <Feature>
                            <Description>
                                <Text>2QUEENS ACCESSIBLE NONSMOK...2RM ACCESSIBLE STE-
2QUEEN BED FALLVIEW-NOSMOK...ROLL IN SHOWER-STROBE ALARMS-SOFABED-
REFRIG</Text>
                            </Description>
                        </Feature>
                    </Features>
                </RoomRate>
                <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="TDBN" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
                    <Rates>
                        <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                            <Base CurrencyCode="CAD" AmountBeforeTax="171.67"/>
                            <PaymentPolicies>
                                <RequiredPayment PaymentCode="TA"/>
                                <RequiredPayment PaymentCode="CC"/>
                                <RequiredPayment PaymentCode="CR"/>
                                <RequiredPayment PaymentCode="GC"/>
                            </PaymentPolicies>
                            <Total CurrencyCode="CAD" AmountAfterTax="1163.90">
                                <Taxes>
                                    <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                                    <Tax Code="17" Amount="133.90" CurrencyCode="CAD"/>
                                </Taxes>
                            </Total>
                        </Rate>
                        <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">

                            <Base CurrencyCode="CAD" AmountAfterTax="215.00"/>
                        </Rate>
                        <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">

                            <Base CurrencyCode="CAD" AmountAfterTax="275.00"/>
                        </Rate>
                        <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">

                            <Base CurrencyCode="CAD" AmountAfterTax="135.00"/>
                        </Rate>
                    </Rates>
                    <Features>
                        <Feature RoomAmenity="7"/>
```

```
                    <Feature RoomAmenity="1"/>
                    <Feature RoomAmenity="2"/>
                    <Feature>
                        <Description>
                            <Text>2 QUEENS CITYVIEW NONSMOK...2 ROOM SUITE-2 QUEEN
BEDS CITYVIEW-NONSMOKING...COMP COOKED TO ORDER BRKFST-EVENING RECEP-
TION</Text>
                        </Description>
                    </Feature>
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="TCSN" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
                <Rates>
                    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                        <Base CurrencyCode="CAD" AmountBeforeTax="255.00"/>
                        <PaymentPolicies>
                            <RequiredPayment PaymentCode="TA"/>
                            <RequiredPayment PaymentCode="CC"/>
                            <RequiredPayment PaymentCode="CR"/>
                            <RequiredPayment PaymentCode="GC"/>
                        </PaymentPolicies>
                        <Total CurrencyCode="CAD" AmountAfterTax="1728.90">
                            <Taxes>
                                <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                                <Tax Code="17" Amount="198.90" CurrencyCode="CAD"/>
                            </Taxes>
                        </Total>
                    </Rate>
                    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="295.00"/>
                    </Rate>
                    <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="375.00"/>
                    </Rate>
                    <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">
                        <Base CurrencyCode="CAD" AmountAfterTax="215.00"/>
                    </Rate>
                </Rates>
                <Features>
                    <Feature RoomAmenity="7"/>
                    <Feature RoomAmenity="1"/>
                    <Feature RoomAmenity="2"/>
                    <Feature>
                        <Description>
                            <Text>2 QUEENS FALLSVIEW NONSMOK...2 ROOM SUITE-2 QUEEN
BEDS-FALLSVIEW-NONSMOK...HI FLOOR-VIEW OF BOTH FALLS-HI SPEED AVAIL</Text>
                        </Description>
                    </Feature>
                </Features>
            </RoomRate>
            <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="TWCS" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
```

```xml
<Rates>
    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
        <Base CurrencyCode="CAD" AmountBeforeTax="171.67"/>
        <PaymentPolicies>
            <RequiredPayment PaymentCode="TA"/>
            <RequiredPayment PaymentCode="CC"/>
            <RequiredPayment PaymentCode="CR"/>
            <RequiredPayment PaymentCode="GC"/>
        </PaymentPolicies>
        <Total CurrencyCode="CAD" AmountAfterTax="1163.90">
            <Taxes>
                <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                <Tax Code="17" Amount="133.90" CurrencyCode="CAD"/>
            </Taxes>
        </Total>
    </Rate>
    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeUnit="Day">
        <Base CurrencyCode="CAD" AmountAfterTax="215.00"/>
    </Rate>
    <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeUnit="Day">
        <Base CurrencyCode="CAD" AmountAfterTax="275.00"/>
    </Rate>
    <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeUnit="Day">
        <Base CurrencyCode="CAD" AmountAfterTax="135.00"/>
    </Rate>
</Rates>
<Features>
    <Feature RoomAmenity="6"/>
    <Feature RoomAmenity="1"/>
    <Feature RoomAmenity="2"/>
    <Feature>
        <Description>
            <Text>2QUEEN ACCESS CTYVIEW SMOK...2RM ACCESSIBLE STE-2QUEEN BED CITYVIEW-SMOK...ROLL IN SHOWER-STROBE ALARMS-SOFABED-REFRIG</Text>
        </Description>
    </Feature>
</Features>
</RoomRate>
<RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="KCSS" EffectiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
    <Rates>
        <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
            <Base CurrencyCode="CAD" AmountBeforeTax="298.33"/>
            <PaymentPolicies>
                <RequiredPayment PaymentCode="TA"/>
                <RequiredPayment PaymentCode="CC"/>
                <RequiredPayment PaymentCode="CR"/>
                <RequiredPayment PaymentCode="GC"/>
            </PaymentPolicies>
            <Total CurrencyCode="CAD" AmountAfterTax="2022.70">
                <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                    <Tax Code="17" Amount="232.70" CurrencyCode="CAD"/>
```

```xml
                </Taxes>
              </Total>
            </Rate>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                <Base CurrencyCode="CAD" AmountAfterTax="365.00"/>
            </Rate>
            <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">
                <Base CurrencyCode="CAD" AmountAfterTax="445.00"/>
            </Rate>
            <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">
                <Base CurrencyCode="CAD" AmountAfterTax="245.00"/>
            </Rate>
          </Rates>
          <Features>
            <Feature RoomAmenity="6"/>
            <Feature RoomAmenity="0"/>
            <Feature RoomAmenity="2"/>
            <Feature>
                <Description>
                    <Text>1 KING JR PRESIDENT SMOK...2 ROOM JR PRESIDENT SUITE-1
KING BED-SMOKING...VIEW OF BOTH FALLS-FIREPLACE-WHIRLPOOL-SOFABD</Text>
                </Description>
            </Feature>
          </Features>
        </RoomRate>
        <RoomRate BookingCode="BAR" RatePlanCode="LV0" RoomTypeCode="KOTN" Effec-
tiveDate="2008-09-12" ExpireDate="2008-09-18" NumberOfUnits="1">
          <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-18" RateMode="4">
                <Base CurrencyCode="CAD" AmountBeforeTax="228.33"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="TA"/>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CR"/>
                    <RequiredPayment PaymentCode="GC"/>
                </PaymentPolicies>
                <Total CurrencyCode="CAD" AmountAfterTax="1548.10">
                    <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="CAD"/>
                        <Tax Code="17" Amount="178.10" CurrencyCode="CAD"/>
                    </Taxes>
                </Total>
            </Rate>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                <Base CurrencyCode="CAD" AmountAfterTax="275.00"/>
            </Rate>
            <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">
                <Base CurrencyCode="CAD" AmountAfterTax="355.00"/>
            </Rate>
            <Rate EffectiveDate="2008-09-14" ExpireDate="2008-09-18" RateTimeU-
nit="Day">
```

```
                    <Base CurrencyCode="CAD" AmountAfterTax="185.00"/>
                </Rate>
            </Rates>
            <Features>
                <Feature RoomAmenity="7"/>
                <Feature RoomAmenity="0"/>
                <Feature RoomAmenity="2"/>
                <Feature>
                    <Description>
                        <Text>1KNG WHIRLPL FALLSVIEW N/S...2RM WHIRLPL SUITE-1 KING
BED FALLSVIEW-NOSMOK...VIEW OF HORSESHOE FALLS-HI SPEED AVAIL-SOFABD</Text>
                    </Description>
                </Feature>
            </Features>
          </RoomRate>
        </RoomRates>
        <TimeSpan Start="2008-09-12" Duration="P6D" />
        <BasicPropertyInfo BrandCode="ES" HotelName="Embassy Suites Niagara Falls -
Fallsview" HotelCode="IAGES"/>
      </RoomStay>
    </RoomStays>
    <Criteria>
        <Criterion>
            <HotelRef HotelCode="IAGES"/>
        </Criterion>
    </Criteria>
</OTA_HotelAvailRS>
```

Example 4 - The following example is a response to an availability check for a single property
for December 31st for 2 nights. In this case, the property had no availability for those dates, so
there is no RoomRates element in the response.

```
    <OTA_HotelAvailRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
gID="en-us" Version="3.0" TimeStamp="2008-03-30T20:46:06.31-05:00">
    <Success/>
    <Warnings>
        <Warning Type="3">"NYCDT:No availability"</Warning>
    </Warnings>
    <Criteria>
        <Criterion>
            <HotelRef HotelCode="NYCDT"/>
        </Criterion>
    </Criteria>
    </OTA_HotelAvailRS>
```

Example 5 - The following example is a response to an availability check for the special rate ID
"ABE" for the property, HELAI for September 12th for 1 night, 1 adult. In this case since the
special rates were available they are returned along with the other published rates.

```
    <OTA_HotelAvailRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
gID="en-us" Version="3.0" TimeStamp="2008-03-31T11:15:25.15-05:00">
    <Success/>
    <RoomStays>
        <RoomStay>
            <RatePlans>
```

```xml
<RatePlan RatePlanCode="CX09A1">
    <CancelPenalties>
        <CancelPenalty>
            <PenaltyDescription>
                <Text>Non Refundable</Text>
            </PenaltyDescription>
        </CancelPenalty>
    </CancelPenalties>
    <RatePlanDescription>
        <Text>ADVANCE PURCHASE DBB...INCLUDES DINNER AND BUFFET
BREAKFAST...FULL CREDIT CARD PREPAYMENT AT TIME OF BOOKING</Text>
    </RatePlanDescription>
</RatePlan>
<RatePlan RatePlanCode="CX09AP">
    <CancelPenalties>
        <CancelPenalty>
            <PenaltyDescription>
                <Text>Non Refundable</Text>
            </PenaltyDescription>
        </CancelPenalty>
    </CancelPenalties>
    <RatePlanDescription>
        <Text>ADVANCE PCHASE BFAST...INCLUDES BUFFET BREAKFAST...FULL
CREDIT CARD PREPAYMENT AT TIME OF BOOKING</Text>
    </RatePlanDescription>
</RatePlan>
<RatePlan RatePlanCode="PR09AP">
    <CancelPenalties>
        <CancelPenalty>
            <PenaltyDescription>
                <Text>Non Refundable</Text>
            </PenaltyDescription>
        </CancelPenalty>
    </CancelPenalties>
    <RatePlanDescription>
        <Text>ADVANCE PURCHASE...FULL CREDITCARD PREPAYMENT AT TIME
OF BOOKING...NON-REFUNDABLE UPON CANCELLATION OR NO SHOW</Text>
    </RatePlanDescription>
</RatePlan>
<RatePlan RatePlanCode="LV4">
    <CancelPenalties>
        <CancelPenalty>
            <PenaltyDescription>
                <Text>4PM Cxl on Arr Date</Text>
            </PenaltyDescription>
        </CancelPenalty>
    </CancelPenalties>
    <RatePlanDescription>
        <Text>BEST AVAILABLE RATE</Text>
    </RatePlanDescription>
</RatePlan>
<RatePlan RatePlanCode="COR11">
    <CancelPenalties>
        <CancelPenalty>
            <PenaltyDescription>
                <Text>4PM Cxl on Arr Date</Text>
```

```xml
                    </PenaltyDescription>
                </CancelPenalty>
            </CancelPenalties>
            <RatePlanDescription>
                <Text>CORPORATE RATE COR11...ROOM ONLY...NON COMMISSIONA-
BLE</Text>
            </RatePlanDescription>
        </RatePlan>
    </RatePlans>
    <RoomRates>
        <RoomRate BookingCode="ADV PURCHASE" RatePlanCode="CX09A1" RoomType-
Code="T2E" EffectiveDate="2008-09-12" ExpireDate="2008-09-13" NumberOfUnits="1">
            <Rates>
                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
                    <Base CurrencyCode="EUR" AmountAfterTax="209.00"/>
                    <PaymentPolicies>
                        <RequiredPayment PaymentCode="CD">
                            <AmountPercent Amount="209.00" CurrencyCode="EUR"/>
                        </RequiredPayment>
                        <RequiredPayment PaymentCode="FP"/>
                    </PaymentPolicies>
                    <Total CurrencyCode="EUR" AmountAfterTax="209.00">
                        <Taxes>
                            <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                            <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                        </Taxes>
                    </Total>
                </Rate>
            </Rates>
            <Features>
                <Feature RoomAmenity="1"/>
                <Feature RoomAmenity="3"/>
                <Feature>
                    <Description>
                        <Text>TWIN BEDDED EXECUTIVE ROOM</Text>
                    </Description>
                </Feature>
            </Features>
        </RoomRate>
        <RoomRate BookingCode="ADV PURCHASE" RatePlanCode="CX09AP" RoomType-
Code="T2" EffectiveDate="2008-09-12" ExpireDate="2008-09-13" NumberOfUnits="1">
            <Rates>
                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
                    <Base CurrencyCode="EUR" AmountAfterTax="97.00"/>
                    <PaymentPolicies>
                        <RequiredPayment PaymentCode="CD">
                            <AmountPercent Amount="97.00" CurrencyCode="EUR"/>
                        </RequiredPayment>
                        <RequiredPayment PaymentCode="FP"/>
                    </PaymentPolicies>
                    <Total CurrencyCode="EUR" AmountAfterTax="97.00">
                        <Taxes>
                            <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                            <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                        </Taxes>
                    </Total>
```

```xml
                </Rate>
              </Rates>
              <Features>
                <Feature RoomAmenity="1"/>
                <Feature>
                  <Description>
                    <Text>TWIN ROOM</Text>
                  </Description>
                </Feature>
              </Features>
            </RoomRate>
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tiveDate="2008-09-12" ExpireDate="2008-09-13" NumberOfUnits="1">
                <Rates>
                    <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
                        <Base CurrencyCode="EUR" AmountAfterTax="172.00"/>
                        <PaymentPolicies>
                            <RequiredPayment PaymentCode="4P"/>
                            <RequiredPayment PaymentCode="CC"/>
                            <RequiredPayment PaymentCode="CO"/>
                            <RequiredPayment PaymentCode="TA"/>
                        </PaymentPolicies>
                        <Total CurrencyCode="EUR" AmountAfterTax="172.00">
                            <Taxes>
                                <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                                <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                            </Taxes>
                        </Total>
                    </Rate>
                </Rates>
                <Features>
                    <Feature RoomAmenity="0"/>
                    <Feature RoomAmenity="3"/>
                    <Feature>
                        <Description>
                            <Text>KING BEDDED EXECUTIVE ROOM</Text>
                        </Description>
```

```xml
            </Feature>
          </Features>
        </RoomRate>
        <RoomRate BookingCode="ADV PURCHASE" RatePlanCode="CX09AP" RoomType-
Code="T2E" EffectiveDate="2008-09-12" ExpireDate="2008-09-13" NumberOfUnits="1">
          <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
              <Base CurrencyCode="EUR" AmountAfterTax="147.00"/>
              <PaymentPolicies>
                <RequiredPayment PaymentCode="CD">
                  <AmountPercent Amount="147.00" CurrencyCode="EUR"/>
                </RequiredPayment>
                <RequiredPayment PaymentCode="FP"/>
              </PaymentPolicies>
              <Total CurrencyCode="EUR" AmountAfterTax="147.00">
                <Taxes>
                  <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                  <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                </Taxes>
              </Total>
            </Rate>
          </Rates>
          <Features>
            <Feature RoomAmenity="1"/>
            <Feature RoomAmenity="3"/>
            <Feature>
              <Description>
                <Text>TWIN BEDDED EXECUTIVE ROOM</Text>
              </Description>
            </Feature>
          </Features>
        </RoomRate>
        <RoomRate BookingCode="ADV PURCHASE" RatePlanCode="CX09A1" RoomType-
Code="K1ERO" EffectiveDate="2008-09-12" ExpireDate="2008-09-13" NumberOfUnits="1">
          <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
              <Base CurrencyCode="EUR" AmountAfterTax="239.00"/>
              <PaymentPolicies>
                <RequiredPayment PaymentCode="CD">
                  <AmountPercent Amount="239.00" CurrencyCode="EUR"/>
                </RequiredPayment>
                <RequiredPayment PaymentCode="FP"/>
              </PaymentPolicies>
              <Total CurrencyCode="EUR" AmountAfterTax="239.00">
                <Taxes>
                  <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                  <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                </Taxes>
              </Total>
            </Rate>
          </Rates>
          <Features>
            <Feature RoomAmenity="0"/>
            <Feature RoomAmenity="3"/>
            <Feature>
              <Description>
```
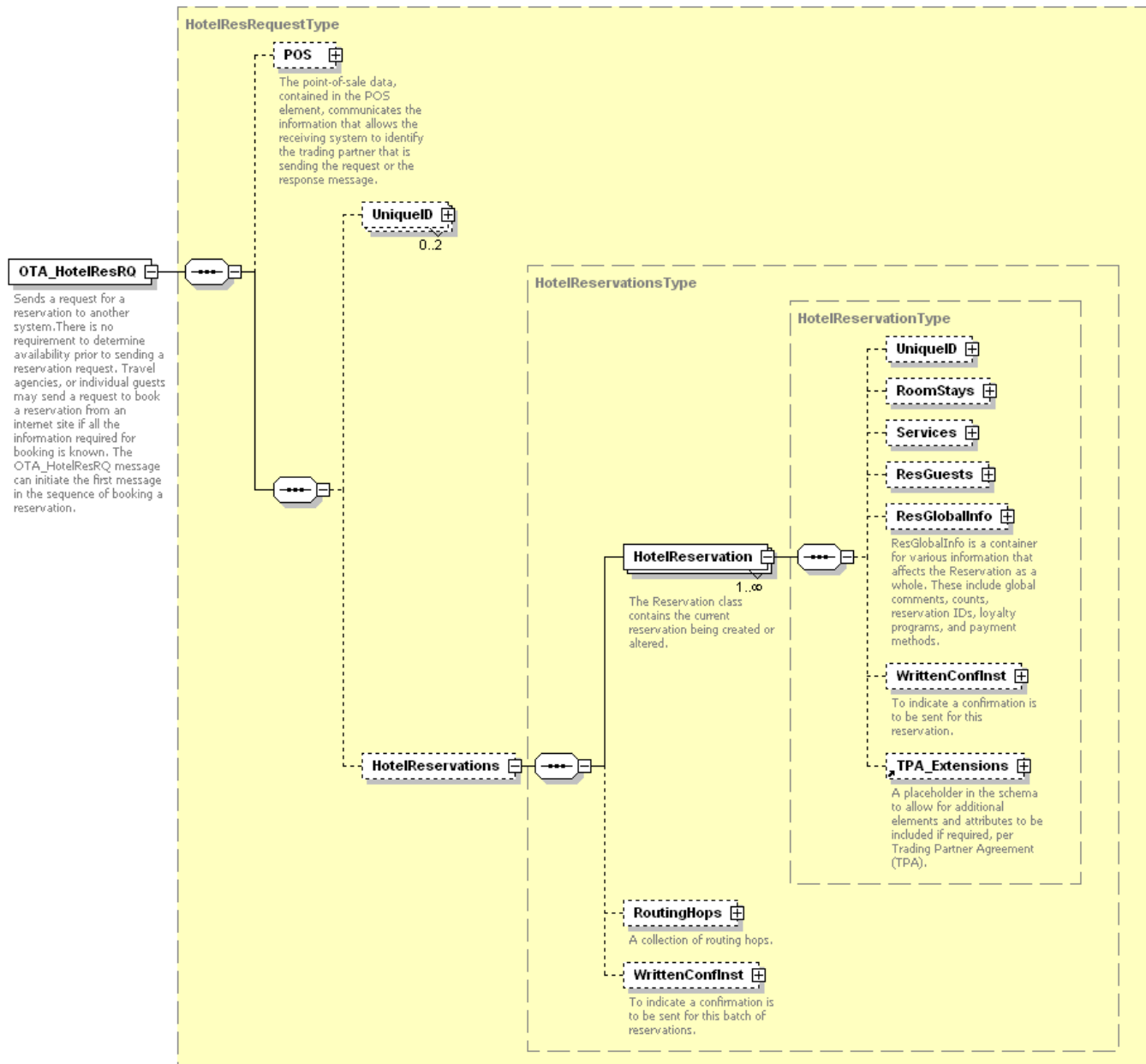
```xml
                    <Text>KING BED EXECUTIVE PLUS</Text>
                </Description>
            </Feature>
        </Features>
    </RoomRate>
    <RoomRate BookingCode="CORPORATE" RatePlanCode="COR11" RoomType-
Code="T2" EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RatePlanID="ABE" Number-
OfUnits="1">
        <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
                <Base CurrencyCode="EUR" AmountAfterTax="201.00"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="4P"/>
                    <RequiredPayment PaymentCode="CC"/>
                    <RequiredPayment PaymentCode="CO"/>
                    <RequiredPayment PaymentCode="TA"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="201.00">
                    <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                        <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                    </Taxes>
                </Total>
            </Rate>
        </Rates>
        <Features>
            <Feature RoomAmenity="1"/>
            <Feature>
                <Description>
                    <Text>TWIN ROOM</Text>
                </Description>
            </Feature>
        </Features>
    </RoomRate>
    <RoomRate BookingCode="ADV PURCHASE" RatePlanCode="CX09AP" RoomType-
Code="K1E" EffectiveDate="2008-09-12" ExpireDate="2008-09-13" NumberOfUnits="1">
        <Rates>
            <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateMode="2">
                <Base CurrencyCode="EUR" AmountAfterTax="147.00"/>
                <PaymentPolicies>
                    <RequiredPayment PaymentCode="CD">
                        <AmountPercent Amount="147.00" CurrencyCode="EUR"/>
                    </RequiredPayment>
                    <RequiredPayment PaymentCode="FP"/>
                </PaymentPolicies>
                <Total CurrencyCode="EUR" AmountAfterTax="147.00">
                    <Taxes>
                        <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                        <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                    </Taxes>
                </Total>
            </Rate>
        </Rates>
        <Features>
            <Feature RoomAmenity="0"/>
            <Feature RoomAmenity="3"/>
```

```
                    <Feature>
                        <Description>
                            <Text>KING BEDDED EXECUTIVE ROOM</Text>
                        </Description>
                    </Feature>
                </Features>
            </RoomRate>
        </RoomRates>
        <TimeSpan Start="2008-09-12" Duration="P1D"/>
        <BasicPropertyInfo BrandCode="HI" HotelName="Hilton Helsinki-Vantaa Airport" Hotel-
Code="HELAI"/>
        </RoomStay>
    </RoomStays>
    <Criteria>
        <Criterion>
            <HotelRef HotelCode="HELAI"/>
        </Criterion>
    </Criteria>
</OTA_HotelAvailRS>
```

7   OTA_HotelRes

The OTA_HotelResRQ message is used to reserve a room at a hotel. It is often preceded by an OTA_HotelAvailRQ/RS message, which is used to check the availability of the hotel before attempting the reservation. The availability check does not hold the room; therefore it cannot be assumed that the room is available at the time of the OTA_HotelResRQ request. There is no requirement to check the availability before sending a reservation request, as long as all the necessary information (such as the hotel code, brand code and room code) is available.

The reservation request is an atomic request that can either be approved or denied. If there is a problem booking the reservation, the OTA_HotelResRS response will return an appropriate business message. For instance, if the reservation requires a deposit and there is no payment information included in the request, it will be denied. Once the request is made and a successful result is returned, a reservation exists from that point forward.

HotelResRequestType

POS ⊞
The point-of-sale data, contained in the POS element, communicates the information that allows the receiving system to identify the trading partner that is sending the request or the response message.

UniqueID ⊞
0..2

OTA_HotelResRQ
Sends a request for a reservation to another system.There is no requirement to determine availability prior to sending a reservation request. Travel agencies, or individual guests may send a request to book a reservation from an internet site if all the information required for booking is known. The OTA_HotelResRQ message can initiate the first message in the sequence of booking a reservation.

HotelReservationsType

HotelReservationType

UniqueID ⊞

RoomStays ⊞

Services ⊞

ResGuests ⊞

ResGlobalInfo ⊞
ResGlobalInfo is a container for various information that affects the Reservation as a whole. These include global comments, counts, reservation IDs, loyalty programs, and payment methods.

WrittenConfInst ⊞
To indicate a confirmation is to be sent for this reservation.

TPA_Extensions ⊞
A placeholder in the schema to allow for additional elements and attributes to be included if required, per Trading Partner Agreement (TPA).

HotelReservation ⊞
1..∞
The Reservation class contains the current reservation being created or altered.

HotelReservations

RoutingHops ⊞
A collection of routing hops.

WrittenConfInst ⊞
To indicate a confirmation is to be sent for this batch of reservations.

Figure 5. OTA_HotelResRQ Schema

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7.1 OTA_HotelResRQ Elements and Attributes

The following table shows the attributes of the HotelReservations element that are supported by the Hilton Transaction Exchange.

Table 10. OTA_HotelResRQ Elements and Attributes					
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
0	**OTA_HotelResRQ**		1	Y	An OTA_HotelResRQ message should always contain *one and only one* HotelReservation element.
	@ResStatus	TransactionAction-Type	1	Y	When the ResStatus is set to Commit, a reservation is being made. The reservation will either be successful and a booking is made, or an appropriate error response will be returned.
1	**POS**		0..1	N	This element needs to be used *only* when an IATA number other than the one associated with your profile needs to be attached to the reservation.
2	**Source**		1	Y	
3	**RequestorID**		1	Y	
	@Type	OTA_CodeType		Y	For Type, the OTA Code List Unique Id Type (UIT) value of "5" should always be used for "IATA".
	@ID	StringLength1to32		Y	The IATA that needs to be attached to the reservation needs to be sent in this attribute.
1	**HotelReservations**		1	Y	
2	**HotelReservation**		1	Y	This element contains the current reservation that is being created.
3	**RoomStays**		1	Y	
4	**RoomStay**		1	Y	The RoomStay element contains information about the room that is being booked.
	@PromotionCode	StringLength1to32		N	A promotion code may be requested.
5	**RoomTypes**		1	Y	
6	**RoomType**		1	Y	

Level	Name	Type	Occurs	Required	Comments
	@RoomTypeCode	StringLength1to16		Y	The RoomTypeCode attribute is a Hilton-specific code that is typically obtained from an OTA_HotelAvailRS message
	@NumberOfUnits	Numeric1		Y	Only one room can be booked per transaction. So the value of this attribute must always be "1".
7	**Amenities**		0..1	N	
8	**Amenity**		1..3	Y	The room amenities that can be requested are either Smoking/Non Smoking or One Bed/Two Beds or Rollaway/Crib.
	@RoomAmenity	OTA_CodeType		Y	See Appendix A, Table 6, for the codes.
5	**RatePlans**		1	Y	Special rate plan codes, such as those used for negotiated rates, can be passed in using the RatePlanCode attribute of the RatePlan element. The RatePlanCode is required. If a special client specific rate is requested then the BookingCode and the RatePlanID attributes also need to be populated.
6	**RatePlan**		1	Y	
	@BookingCode	StringLength1to16		N	The BookingCode attribute is a Hilton-specific code that is typically obtained from an OTA_HotelAvailRS message
	@RatePlanID	StringLength1to64		N	The RatePlanID attribute is a Hilton-specific code that is typically obtained from an OTA_HotelAvailRS message.
	@RatePlanCode	StringLength1to16		Y	The RatePlanCode attribute is a Hilton-specific code that is typically obtained from an OTA_HotelAvailRS message.
5	**BasicPropertyInfo**		1	Y	The BasicPropertyInfo element contains the HotelCode and BrandCode, which are Hilton-specific.
	@BrandCode	StringLength1to16		Y	See Appendix A, Table 2, for the brand code values.
	@HotelCode	StringLength1to8		Y	
3	**ResGuests**		1	Y	Information about the guests is captured in the ResGuests element.
4	**ResGuest**		1	Y	

Level	Name	Type	Occurs	Required	Comments
5	**Profiles**		1	Y	
6	**ProfileInfo**		1	Y	
7	**Profile**		1	Y	
8	**Customer**		1	Y	
9	**PersonName**		1	Y	The PersonName element has several sub elements, but the Transaction Exchange only accepts NamePrefix which is optional, and GivenName and Surname which are required.
10	**NamePrefix**		0..1	N	
10	**GivenName**		1	Y	The value of GivenName should start with a letter of the alphabet. Max of 25 characters.
10	**Surname**		1	Y	The value of Surname should start with a letter of the alphabet and must be a minimum of 2 characters and max of 25.
9	**Telephone**		1	Y	
	@PhoneNumber	StringLength1to32		Y	
9	**Email**		0..1	N	Email is optional, if sent it should be in the user@domain format.
	@DefaultInd	Boolean		N	If attribute DefaultInd is set to "true" an email confirmation will be sent to the email address provided.
9	**Address**		1	Y	
10	**AddressLine**		1..3	Y	At least one AddressLine element is required. Max of 50 characters.
10	**CityName**		1	Y	
10	**PostalCode**		0..1	N	
10	**StateProv**		0..1	N	
	@StateCode	StateProvCodeType		Y	The StateCode attribute is required for the United States and Canada, but not for other countries.
10	**CountryName**		1	Y	

Table 10. OTA_HotelResRQ Elements and Attributes

Table 10. OTA_HotelResRQ Elements and Attributes					
Level	Name	Type	Occurs	Required	Comments
	@Code	ISO3166		Y	
3	**ResGlobalInfo**		1	Y	ResGlobalInfo contains guest count information.
4	**GuestCounts**		1	Y	A collection of Guest Counts associated with the whole reservation.
	@IsPerRoom	xs:boolean		Y	*IsPerRoom* means that the guests defined in the GuestCounts object apply to *each* room in the NumberOfRooms for the RoomStay. The IsPerRoom attribute must always be "true".
5	**GuestCount**		1..2	Y	The GuestCount element contains the age and number of guests for the room. At least one GuestCount element, specifying the number of adults is required. You have to provide at least one GuestCount element, specifying the number of adults. At most two GuestCount elements are allowed: one for the number of adults and one for the number of children.
	@AgeQualifyingCode	OTA_CodeType		Y	The AgeQualifyingCode should either be "10" to specify adult or "8" for a child. (These are the values from the OTA Code List Age Qualifying Code (AQC).)
	@Count	Numeric1to999		Y	The number of guests in each AgeQualifyingCode.
4	**TimeSpan**		1	Y	The TimeSpan element must have the Start and Duration attributes populated.
	@Start	DateOrTimeOr-DateTimeType		Y	The arrival date for the reservation.
	@Duration	DurationType		Y	The length of stay. Should be in the format P[0-90]D.
4	**Memberships**		0..1	N	
5	**Membership**		1..2	Y	Up to two Membership elements can be provided. The only two memberships supported at this time are HHonors (HHonors is the Hilton guest reward program.) and Airline. For HHonors, the ProgramCode value is "HH", and the guest's HHonors account number must be in the AccountId attribute. Only one HHonors account can be associated with the reservation, even if there are multiple HHonors members who will be staying as guests. If

Level	Name	Type	Occurs	Required	Comments
					a HHonors number is being sent in the request then the <sur-name> needs to match the last name in the HHonors profile. The list of valid memberships and their respective ProgramCode values are available www.iata.org.
	@AccountID	StringLength1to32		Y	HHonors number or the Frequent Flyer number.
	@ProgramCode	StringLength1to32		Y	"HH" or an Airline code.
4	**Comments**		0..1	N	
5	**Comment**		1..3	Y	Up to three comments are allowed as part of the reservations.
6	**Text**		1	Y	Free-form text can be sent in the Text element. An example is: <Text>Guest requests a first floor room please if one is availa-ble. </Text>. Each Text element can be up to 65 characters.
4	**Guarantee**		1	Y	
	@GuaranteeCode	StringLength1to32		Y	Any one of the Guarantee Policies that was returned in the OTA_HotelAvailRS transaction needs to be sent in Guarantee-Code attribute of the Guarantee element. Depending on the guarantee policy, the PaymentCard element may or may not be required. See Apendix A, Table 1 for a list of Guarantee Codes.
5	**GuaranteesAccepted**		0..1	N	This element is required only for guarantee policies Credit Card Guarantee (CC), Credit Card Deposit (CR) and Full PrePayment (FP).
6	**GuaranteeAccepted**		1	Y	
7	**PaymentCard**		1	Y	The PaymentCard element has four attributes, all of which are required. The payment information could be used to "hold" the reservation or it could be used to pay for the room(s) at the time of the reservation, depending on the guarantee policy of the reservation.
	@CardType	OTA_CodeType		Y	HTE only supports a value of "1" for CardType per the OTA Code ListCard Type (CDT) which stands for "Credit".
	@CardCode	PaymentCardCode-		Y	The two character code of the credit card issuer. See Table 11

Level	Name	Type	Occurs	Required	Comments
		Type			for the list of OTA CardCode values. Values must be in upper-case.
	@CardNumber	Numer-icStringLength1to19		Y	The credit card number embossed on the card.
	@ExpireDate	MMYYDate		Y	The expiration date of the credit card.
	HotelReservationIDs		0..1	N	
5	**HotelReservationID**		1	Y	This element can be used to associate an identifier with the reservation. This information will be echoed back in the OTA_HotelResRS. For the OTA_HotelResRQ transaction, there will be a single occurrence of the HotelReservationID element.
	@ResID_Value	StringLength1to10		Y	An identifier that can be used to identify the reservation.
	@ResID_Date	xs:dateTime		Y	Date of the creation of this reservation
	@ResID_Source	StringLength1to64		Y	Name of the source company/system.
	@ResID_Type	OTA_CodeType		Y	Is the type of the Reservation Id. The only value supported is "5" (refer to the OTA Code Unique ID list table),

Table heading: **Table 10. OTA_HotelResRQ Elements and Attributes**

The 2004B version of the OTA spec allows these values for the CardCode attribute:

Table 11. OTA 2004B Specification Credit Card Codes	
Value	Credit Card
AX	American Express
*BC	Bank Card
*BL	Carte Bleu
CB	Carte Blanche
DN	Diners Club
DS	Discover Card
**EC	Eurocard
JC	Japanese Credit Bureau Credit Card
MC	Master Card
*TP	Universal Air Travel Card
VI	Visa

*** Not supported by Hilton Transaction Exchange**
**** Available only at some properties**

7.2   OTA_HotelResRQ Examples

Example 1 - This is an example of a request to book a room at the Waldorf London Hilton in London, GB. The hotel code is "LONWA" and the brand code for Hilton International is "HI". One room with one adult and one child is needed for two nights. The reservation is guaranteed using a Credit card.

```
<OTA_HotelResRQ ResStatus="Commit" TimeStamp="2008-03-17T12:06:14.033" Target="Production"
Version="3.0" PrimaryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
   <HotelReservations>
      <HotelReservation>
         <RoomStays>
            <RoomStay>
               <RoomTypes>
                  <RoomType RoomTypeCode="Q1D" NumberOfUnits="1">
                     <Amenities>
                        <Amenity RoomAmenity="1"/>
                     </Amenities>
                  </RoomType>
               </RoomTypes>
               <RatePlans>
```

```xml
                    <RatePlan RatePlanCode="LV5"/>
                </RatePlans>
                <BasicPropertyInfo BrandCode="HI" HotelCode="LONWA"/>
            </RoomStay>
        </RoomStays>
        <ResGuests>
            <ResGuest>
                <Profiles>
                    <ProfileInfo>
                        <Profile>
                            <Customer>
                                <PersonName>
                                    <NamePrefix>Mr.</NamePrefix>
                                    <GivenName>Ben</GivenName>
                                    <Surname>Johnson</Surname>
                                </PersonName>
                                <Telephone PhoneNumber="4558776555"/>
                                <Email DefaultInd="true">test@gmail.com</Email>
                                <Address>
                                    <AddressLine>123 Main</AddressLine>
                                    <CityName>London</CityName>
                                    <CountryName Code="GB"/>
                                </Address>
                            </Customer>
                        </Profile>
                    </ProfileInfo>
                </Profiles>
            </ResGuest>
        </ResGuests>
        <ResGlobalInfo>
            <GuestCounts IsPerRoom="true">
                <GuestCount AgeQualifyingCode="10" Count="1"/>
                <GuestCount AgeQualifyingCode="8" Count="1"/>
            </GuestCounts>
            <TimeSpan Start="2008-09-12" Duration="P2D"/>
            <Memberships>
                <Membership AccountID="00175008470" ProgramCode="UA"/>
            </Memberships>
            <Comments>
                <Comment>
                    <Text>Test Comment 1</Text>
                </Comment>
                <Comment>
                    <Text>Test Comment 2</Text>
                </Comment>
                <Comment>
                    <Text>Test Comment 3</Text>
                </Comment>
            </Comments>
            <Guarantee GuaranteeCode="CC">
                <GuaranteesAccepted>
                    <GuaranteeAccepted>
                        <PaymentCard CardType="1" CardCode="VI" CardNumber="xxxxxxxxxxxx1111" ExpireDate="0909"/>
                    </GuaranteeAccepted>
                </GuaranteesAccepted>
```
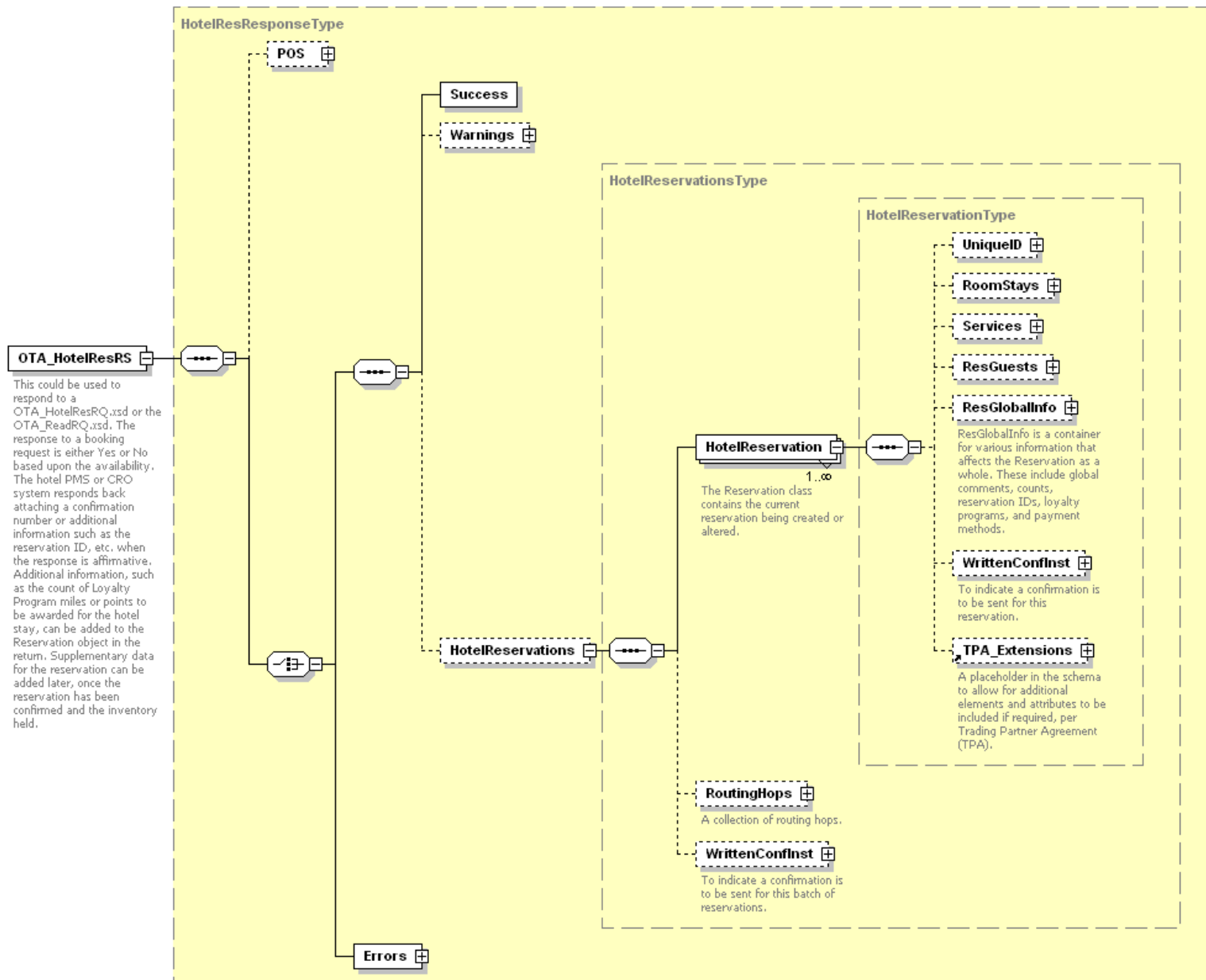
```
                </Guarantee>
                <HotelReservationIDs>
                    <HotelReservationID ResID_Value="123123123" ResID_Date="2008-03-
17T12:01:18.787" ResID_Source="Test Company" ResID_Type="5"/>
                </HotelReservationIDs>
            </ResGlobalInfo>
        </HotelReservation>
    </HotelReservations>
</OTA_HotelResRQ>
```

Example 2 - This is an example of a request to book a room at the Times Square Hilton, New York. The hotel code is "NYCTS" and the brand code for Hilton is "HI". One room with one adult is needed for six nights. The room is booked at a special client rate and guaranteed to the company.

```
<OTA_HotelResRQ ResStatus="Commit" TimeStamp="2008-03-17T13:03:05.66" Target="Production"
Version="3.0" PrimaryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
        <HotelReservations>
      <HotelReservation>
        <RoomStays>
          <RoomStay>
            <RoomTypes>
                <RoomType RoomTypeCode="K1" NumberOfUnits="1"/>
            </RoomTypes>
            <RatePlans>
                <RatePlan RatePlanID="IB1" BookingCode="CORPORATE" RatePlanCode="TH"/>
            </RatePlans>
            <BasicPropertyInfo BrandCode="HI" HotelCode="NYCTS"/>
          </RoomStay>
        </RoomStays>
        <ResGuests>
          <ResGuest>
            <Profiles>
                <ProfileInfo>
                    <Profile>
                        <Customer>
                            <PersonName>
                                <NamePrefix>Mr.</NamePrefix>
                                <GivenName>Ben</GivenName>
                                <Surname>Johnson</Surname>
                            </PersonName>
                            <Telephone PhoneNumber="4558776555"/>
                            <Email>test@gmail.com</Email>
                            <Address>
                                <AddressLine>123 Main</AddressLine>
                                <CityName>Memphis</CityName>
                                <PostalCode>38117</PostalCode>
                                <StateProv StateCode="TN"/>
                                <CountryName Code="US"/>
                            </Address>
                        </Customer>
                    </Profile>
                </ProfileInfo>
            </Profiles>
```

```xml
            </ResGuest>
        </ResGuests>
        <ResGlobalInfo>
            <GuestCounts IsPerRoom="true">
                <GuestCount AgeQualifyingCode="10" Count="1"/>
                <GuestCount AgeQualifyingCode="8" Count="1"/>
            </GuestCounts>
            <TimeSpan Start="2008-09-12" Duration="P2D"/>
            <Memberships>
                <Membership AccountID="00175008470" ProgramCode="UA"/>
            </Memberships>
            <Guarantee GuaranteeCode="CO"/>
            <HotelReservationIDs>
                <HotelReservationID ResID_Value="456387659" ResID_Date="2008-03-17T12:01:18.787" ResID_Source="Test Company" ResID_Type="5"/>
            </HotelReservationIDs>
        </ResGlobalInfo>
    </HotelReservation>
  </HotelReservations>
</OTA_HotelResRQ>
```

Figure 6. OTA_HotelResRS Schema

7.3 OTA_HotelResRS Elements and Attributes

The following table shows the attributes of the OTA_HotelResRS elements that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
	Table 12. OTA_HotelResRS Elements and Attributes				
0	**OTA_HotelResRS**		1	Y	
	@ResResponseType	TransactionSta-tusType		Y	With the ResStatus set to "Commit", the OTA_HotelResRS message returns confirmation that a reservation has been made, including a unique confirmation number that identifies the reservation. In this case the value of ResResponseType will be "Committed". If there is an error with the request, an appropriate error is returned.
1	**Success**		0..1	N	See section 4.1.2 for more info on Success.
1	**Errors**		0..1	N	See section 4.1.2 for more info on Errors.
2	**Error**		1	Y	
	@Type	OTA_CodeType		Y	
1	**Warnings**		0..1	N	See section 4.1.2 for more info on Warnings.
2	**Warning**		1	Y	
	@Type	OTA_CodeType		Y	
1	**POS**		0..1	N	The POS element will be returned only if it was sent in the OTA_HotelResRQ.
2	**Source**		1	Y	
3	**RequestorID**		1	Y	
	@Type	OTA_CodeType		Y	The value for attribute Type will always be "5"
	@ID	StringLength1to32		Y	The IATA number sent in the request.
1	**HotelReservations**		0..1	N	

Level	Name	Type	Occurs	Required	Comments
2	**HotelReservation**		1	Y	There will be only one HotelReservation element in the message.
3	**RoomStays**		1	Y	The RoomStays element contains the RoomTypes and the RatePlans element which have the same information that was in OTA_HotelResRQ.
4	**RoomStay**		1	Y	
5	**RoomTypes**		0..1	N	
6	**RoomType**		1	Y	
	@RoomTypeCode	StringLength1to16		Y	The Hilton room type used in the reservation.
	@NumberOfUnits	Numeric1		Y	The value of *NumberOfUnits* will always be "1"
7	**RoomDescription**		1	Y	
8	**Text**		1	Y	Information about the room.
7	**Amenities**		0..1	N	
8	**Amenity**		1	Y	The meal plan code for the reservation will be returned this element. See Appendix A, Table 4 for an explanation of the meal plan codes.
	@RoomAmenity	OTA_CodeType		Y	Will always be "8" for MealPlan. See Appendix A, Table 6.
5	**RatePlans**		0..1	N	
6	**RatePlan**		1	Y	This element has information about the rate plan associated with this reservation.
	@RatePlanCode	StringLength1to16		Y	Hilton specific rate plan code.
7	**RatePlanDescription**		1	Y	
8	**Text**		1	Y	This element has the description of the rate plan.
5	**RoomRates**		0..1	N	The RoomRate element has the room rates and additional rates for rollaway and crib. The additional rates are returned only if requested and supported by that room type.

Table 12. OTA_HotelResRS Elements and Attributes

Level	Name	Type	Occurs	Required	Comments
	Table 12. OTA_HotelResRS Elements and Attributes				
6	**RoomRate**		1	Y	The RoomRate element has the same format as the OTA_HotelAvailRS message. (See section 6.3.)
	@EffectiveDate	xs:date		Y	Check in date. The EffectiveDate and ExpireDate attributes will always be populated.
	@ExpireDate	xs:date		Y	Check out date. The EffectiveDate and ExpireDate attributes will always be populated.
	@RoomTypeCode	StringLength1to64		Y	
	@RatePlanCode	StringLength1to16		Y	
	@PromotionCode	StringLength1to32		N	
7	**Rates**		1	Y	
8	**Rate**		1..n	Y	If there is a rate change, then more than one Rate element will be returned. For instance, an availability check for January 1st through the 10th may yield one room rate for January 1st through the 5th and a different rate for the 6th through the 10th. In this case, there would be two Rate elements.
	@EffectiveDate	xs:date		Y	The starting date from when the rate returned in the Base element is applicable.
	@ExpireDate	xs:date		Y	Indicates the date when the rate in the Base element expires.
	@RateTimeUnit	TimeUnitType		Y	Will always be "Day". Since the rate returned in the Base element is the daily rate.
9	**Base**		1	Y	Either the AmountBeforeTax or AmountAfterTax will be returned.
	@AmountBeforeTax	Money		N	The AmountBeforeTax attribute contains the base dollar amount of the rate per room per night excluding taxes. The amount returned back depends on the RateMode attribute.
	@AmountAfterTax	Money		N	The AmountAfterTax attribute is the entire amount of the stay including applicable taxes.

Level	Name	Type	Occurs	Required	Comments
	@CurrencyCode	AlphaLength3		Y	The currency in which the rates are returned.
9	**AdditionalGuestAmounts**		0..1	N	This element is returned only if Rollaway or crib was requested in OTA_HotelResRQ and if the room type supports an extra bed.
10	**AdditionalGuestAmount**		1..2	Y	
11	**Amount**		1	Y	Either the AmountBeforeTax or AmountAfterTax will be returned.
	@AdditionalFeesExcludedIndicator			Y	Will always be "true" since the additional rates are not included in the total price of the room.
	@CurrencyCode			Y	The currency in which the rates are returned.
	@AmountBeforeTax			N	
	@AmountAfterTax			N	
11	**AddlGuestAmtDescription**		1	Y	
12	**Text**		1	Y	A description of the additional charge.
5	**BasicPropertyInfo**		1	Y	
	@BrandCode	StringLength1to16		N	Hilton specific brand code of the hotel. See [Appendix A., Table 2](#).
	@HotelCode	StringLength1to8		Y	Hilton specific hotel code.
	@HotelName	StringLength1to128		N	The name of the hotel.
3	**ResGuests**		1	Y	The guest information sent in OTA_HotelResRQ is echoed back in the response.
4	**ResGuest**		1	Y	
5	**Profiles**		1	Y	
6	**ProfileInfo**		1	Y	
7	**Profile**		1	Y	
8	**Customer**		1	Y	

Level	Name	Type	Occurs	Required	Comments
					Table 12. OTA_HotelResRS Elements and Attributes
9	**PersonName**		1	Y	
10	**NamePrefix**		0..1	N	
10	**GivenName**		1	Y	
10	**Surname**		1	Y	
9	**Telephone**		0..1	N	
	@PhoneNumber	StringLength1to32		Y	
9	**Email**		0..1	N	
9	**Address**		1	Y	
10	**AddressLine**		1..3	Y	
10	**CityName**		1	Y	
10	**PostalCode**		0..1	N	
10	**StateProv**		0..1	N	
	@StateCode	StateProvCode-Type		Y	
10	**CountryName**		1	Y	
	@Code	ISO3166		Y	
3	**ResGlobalInfo**		1	Y	The ResGlobalInfo element will be populated with the Guarantee and Cancel policy information.
4	**GuestCounts**		0..1	N	Information about the number of guests per room.
	@IsPerRoom	xs:boolean		Y	*IsPerRoom* means that the guests defined in the GuestCounts object apply to *each* room in the NumberOfRooms for the RoomStay. The IsPerRoom attribute must always be "true".
5	**GuestCount**		1..2	Y	
	@AgeQualifyingCode	OTA_CodeType		Y	
	@Count	Numeric1to999		Y	

Level	Name	Type	Occurs	Required	Comments
					Table 12. OTA_HotelResRS Elements and Attributes
4	**TimeSpan**		0..1	N	
	@Start	DateOrTimeOr-DateTimeType		Y	
	@Duration	DurationType		Y	
4	**Memberships**		0..1	N	Holds information regarding the Memberships associated with the reservation.
5	**Membership**		1..2	Y	
	@AccountID	StringLength1to32		Y	
	@ProgramCode	StringLength1to32		Y	
4	**Comments**		0..1	N	Comments associated with the reservation.
5	**Comment**		1..3	Y	
6	**Text**		1	Y	
4	**Guarantee**		0..1	N	
5	**GuaranteeDescription**		1	Y	
6	**Text**		1	Y	Description of the guarantee method used to hold the reservation.
4	**CancelPenalties**		0..1	N	
5	**CancelPenalty**		1	Y	
6	**PenaltyDescription**		1	Y	
7	**Text**		1	Y	The Cancellation policy for the reservation.
4	**Total**		0..1	N	The total amount for this reservation excluding the additional amounts for rollaway and crib.
	@AmountAfterTax	Money		Y	The AmountAfterTax attribute will have the total amount charged for the reservation.
	@CurrencyCode	AlphaLength3		Y	The currency in which the total price is returned.

Level	Name	Type	Occurs	Required	Comments
5	**Taxes**		1	Y	
6	**Tax**		1..2	Y	
	@Code	OTA_CodeType		Y	The *Code* (refer to the OTA Code Fee List type table) identifies the fees applied to the rate, the *Code* can be either "14 or "17".
	@Amount	Money		Y	If the *Code* is "14" then the *Amount* will have the service charges that were applied to the rate and if *Code* is "17" then the *Amount* will include all taxes and additional fees that were applied to the rate.
	@CurrencyCode	AlphaLength3		Y	The currency in which the taxes are returned.
4	**HotelReservationIDs**		0..1	N	The information that was sent in the HotelReservationID element of the OTA_HotelResRQ will be echoed back in the HotelReservationID element of the OTA_HotelResRS along with a HotelReserervationID element from HTE if a reservation was made. The attribute ResID_Value in the HotelReservationID element is the confirmation number of the reservation, ResID_Date is the timestamp that the reservation was made in the Hilton reservation system, ResID_Source will be "Hilton" and ResID_Type(refer the OTA Code Table Unique Id list) will be "14".
5	**HotelReservationID**		1..3	Y	
	@ResID_Value	StringLength1to10		Y	If ResID_Type is 14, ResID_Value will have Hilton's confirmation number, if the ResID_Type="5" then ResID_Value will be client specific confirmation number that was sent in OTA_HotelResRQ. If ResID_Type is 15 then the ResID_Value will be Hilton's cancellation number. This will only be returned in response to OTA_ReadRQ.
	@ResID_Date	xs:dateTime		N	
	@ResID_Source	StringLength1to64		Y	
	@ResID_Type	OTA_CodeType		Y	

7.4   OTA_HotelResRS Examples

Example 1 - This is an example of a successful response to a request to book one room at the Waldorf London Hilton in London, GB. Taxes and service charges are returned in the Tax element. The room stay has a meal plan code of "X" (Executive Floor Breakfast) associated with it.

```xml
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-us" Version="3.0" ResResponseType="Committed" TimeStamp="2008-03-17T13:06:15.00-05:00">
    <Success/>
    <HotelReservations>
        <HotelReservation>
            <RoomStays>
                <RoomStay>
                    <RoomTypes>
                        <RoomType RoomTypeCode="Q1D" NumberOfUnits="1">
                            <RoomDescription>
                                <Text>QUEEN HILTON DELUXE</Text>
                            </RoomDescription>
                            <Amenities>
                                <Amenity RoomAmenity="8">X</Amenity>
                            </Amenities>
                        </RoomType>
                    </RoomTypes>
                    <RatePlans>
                        <RatePlan RatePlanCode="LV5">
                            <RatePlanDescription>
                                <Text>BEST AVAILABLE RATE</Text>
                            </RatePlanDescription>
                        </RatePlan>
                    </RatePlans>
                    <RoomRates>
                        <RoomRate RatePlanCode="LV5" RoomTypeCode="Q1D" EffectiveDate="2008-09-12" ExpireDate="2008-09-14">
                            <Rates>
                                <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-14" RateTimeUnit="Day">
                                    <Base CurrencyCode="GBP" AmountBeforeTax="229.00"/>
                                </Rate>
                            </Rates>
                        </RoomRate>
                    </RoomRates>
                    <BasicPropertyInfo BrandCode="HI" HotelName="WALDORF LONDON HILTON" HotelCode="LONWA"/>
                </RoomStay>
            </RoomStays>
            <ResGuests>
                <ResGuest>
                    <Profiles>
                        <ProfileInfo>
                            <Profile>
                                <Customer>
                                    <PersonName>
                                        <NamePrefix>MR.</NamePrefix>
```

```xml
                    <GivenName>BEN</GivenName>
                    <Surname>JOHNSON</Surname>
                </PersonName>
                <Telephone PhoneNumber="407 667-8700"/>
                <Email>test@gmail.com</Email>
                <Address>
                    <AddressLine>123 Main</AddressLine>
                    <CityName>London</CityName>
                    <CountryName Code="GB"/>
                </Address>
            </Customer>
        </Profile>
    </ProfileInfo>
</Profiles>
</ResGuest>
</ResGuests>
<ResGlobalInfo>
    <GuestCounts IsPerRoom="true">
        <GuestCount Count="1" AgeQualifyingCode="10"/>
        <GuestCount Count="1" AgeQualifyingCode="8"/>
    </GuestCounts>
    <TimeSpan Start="2008-09-12" Duration="P2D"/>
    <Memberships>
        <Membership ProgramCode="UA" AccountID="00175008470"/>
    </Memberships>
    <Comments>
        <Comment>
            <Text>Test Comment 1</Text>
        </Comment>
        <Comment>
            <Text>Test Comment 2</Text>
        </Comment>
        <Comment>
            <Text>Test Comment 3</Text>
        </Comment>
    </Comments>
    <Guarantee>
        <GuaranteeDescription>
            <Text>CREDIT CARD GUARANTEE</Text>
        </GuaranteeDescription>
    </Guarantee>
    <CancelPenalties>
        <CancelPenalty>
            <PenaltyDescription>
                <Text>4PM Cxl on Arr Date</Text>
            </PenaltyDescription>
        </CancelPenalty>
    </CancelPenalties>
    <Total CurrencyCode="GBP" AmountAfterTax="538.15">
        <Taxes>
            <Tax Code="14" Amount="0.00" CurrencyCode="GBP"/>
            <Tax Code="17" Amount="80.15" CurrencyCode="GBP"/>
        </Taxes>
    </Total>
    <HotelReservationIDs>
```

```
                <HotelReservationID ResID_Type="5" ResID_Source="Test Company"
ResID_Value="123123123" ResID_Date="2008-03-17T12:01:18.787"/>
                <HotelReservationID ResID_Type="14" ResID_Source="Hilton"
ResID_Value="3296390004" ResID_Date="2008-03-17T13:06:15.63-05:00"/>
            </HotelReservationIDs>
        </ResGlobalInfo>
      </HotelReservation>
    </HotelReservations>
</OTA_HotelResRS>
```

Example 2 - This example is the response for a request to book a room at the Times Square Hilton, New York for one room with one adult for 6 nights at a special client specific rate and reservation is guaranteed to the company.

```
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-
us" Version="3.0" ResResponseType="Committed" TimeStamp="2008-03-25T08:02:59.77-05:00">
   <Success/>
   <HotelReservations>
      <HotelReservation>
        <RoomStays>
           <RoomStay>
              <RoomTypes>
                 <RoomType RoomTypeCode="K1" NumberOfUnits="1">
                    <RoomDescription>
                       <Text>1 KING BED</Text>
                    </RoomDescription>
                    <Amenities>
                       <Amenity RoomAmenity="8">N</Amenity>
                    </Amenities>
                 </RoomType>
              </RoomTypes>
              <RatePlans>
                 <RatePlan RatePlanCode="TH">
                    <RatePlanDescription>
                       <Text>TOURICO</Text>
                    </RatePlanDescription>
                 </RatePlan>
              </RatePlans>
              <RoomRates>
                 <RoomRate RatePlanCode="TH" RoomTypeCode="K1" EffectiveDate="2008-09-12"
ExpireDate="2008-09-14">
                    <Rates>
                       <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-13" RateTimeU-
nit="Day">
                          <Base CurrencyCode="USD" AmountBeforeTax="424.15"/>
                       </Rate>
                       <Rate EffectiveDate="2008-09-13" ExpireDate="2008-09-14" RateTimeU-
nit="Day">
                          <Base CurrencyCode="USD" AmountBeforeTax="399.20"/>
                       </Rate>
                    </Rates>
                 </RoomRate>
              </RoomRates>
              <BasicPropertyInfo BrandCode="HI" HotelName="TIMES SQUARE HILTON" Hotel-
Code="NYCTS"/>
           </RoomStay>
```

```xml
        </RoomStays>
        <ResGuests>
            <ResGuest>
                <Profiles>
                    <ProfileInfo>
                        <Profile>
                            <Customer>
                                <PersonName>
                                    <NamePrefix>MR.</NamePrefix>
                                    <GivenName>BEN</GivenName>
                                    <Surname>JOHNSON</Surname>
                                </PersonName>
                                <Telephone PhoneNumber="407 667-8700"/>
                                <Email>test@gmail.com</Email>
                                <Address>
                                    <AddressLine>123 Main</AddressLine>
                                    <CityName>Memphis</CityName>
                                    <PostalCode>38117</PostalCode>
                                    <StateProv StateCode="TN"/>
                                    <CountryName Code="US"/>
                                </Address>
                            </Customer>
                        </Profile>
                    </ProfileInfo>
                </Profiles>
            </ResGuest>
        </ResGuests>
        <ResGlobalInfo>
            <GuestCounts IsPerRoom="true">
                <GuestCount Count="1" AgeQualifyingCode="10"/>
                <GuestCount Count="1" AgeQualifyingCode="8"/>
            </GuestCounts>
            <TimeSpan Start="2008-09-12" Duration="P2D"/>
            <Memberships>
                <Membership ProgramCode="UA" AccountID="00175008470"/>
            </Memberships>
            <Comments>
                <Comment>
                    <Text>//</Text>
                </Comment>
            </Comments>
            <Guarantee>
                <GuaranteeDescription>
                    <Text>GUARANTEE TO COMPANY</Text>
                </GuaranteeDescription>
            </Guarantee>
            <CancelPenalties>
                <CancelPenalty>
                    <PenaltyDescription>
                        <Text>Cxl 1 day prior to Arrival</Text>
                    </PenaltyDescription>
                </CancelPenalty>
            </CancelPenalties>
            <Total CurrencyCode="USD" AmountAfterTax="940.51">
                <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="USD"/>
```

```
                    <Tax Code="17" Amount="117.16" CurrencyCode="USD"/>
                </Taxes>
            </Total>
            <HotelReservationIDs>
                <HotelReservationID ResID_Type="10" ResID_Source="Hilton"
ResID_Value="3305627131" ResID_Date="2008-03-25T08:03:00.97-05:00"/>
            </HotelReservationIDs>
        </ResGlobalInfo>
    </HotelReservation>
  </HotelReservations>
</OTA_HotelResRS>
```

Example 3 - The following example is a request that has failed due to the fact that the Pay-mentCard element's ExpireDate attribute is invalid. Error Type "3" is a "Biz rule" error in the OTA Code List Error Warning Type (EWT).

```
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-
us" Version="3.0" ResResponseType="Unsuccessful" TimeStamp="2008-03-17T14:23:58.11-05:00">
 <Errors>
  <Error Type="3">Invalid expiration date</Error>
 </Errors>
 </OTA_HotelResRS>
```

Example 4 - The following example is the response for a request trying to book more than one room in a transaction.

```
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-
us" Version="3.0" TimeStamp="2008-03-17T15:23:47.25-05:00">
    <Errors>
        <Error Type="3">Too Many Rooms Requested: Cannot Book More Than 1 Room At A
Time</Error>
    </Errors>
</OTA_HotelResRS>
```

Example 5 - This example is the response for a request to book a room at the Frankfurt Hilton, for one room with two adults for 5 nights. Since this hotel has rate changes during the stay multiple <Rate> elements are returned.

```
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-
us" Version="3.0" ResResponseType="Committed" TimeStamp="2008-03-25T08:18:19.41-05:00">
    <Success/>
    <HotelReservations>
        <HotelReservation>
            <RoomStays>
                <RoomStay>
                    <RoomTypes>
                        <RoomType RoomTypeCode="K1RO" NumberOfUnits="1">
                            <RoomDescription>
                                <Text>KING HILTON DELUXE ROOM</Text>
                            </RoomDescription>
                            <Amenities>
                                <Amenity RoomAmenity="8">N</Amenity>
                            </Amenities>
```

```xml
                </RoomType>
            </RoomTypes>
            <RatePlans>
                <RatePlan RatePlanCode="LV7">
                    <RatePlanDescription>
                        <Text>BEST AVAILABLE RATE</Text>
                    </RatePlanDescription>
                </RatePlan>
            </RatePlans>
            <RoomRates>
                <RoomRate RatePlanCode="LV7" RoomTypeCode="K1RO" EffectiveDate="2008-12-30" ExpireDate="2009-01-04">
                    <Rates>
                        <Rate EffectiveDate="2008-12-30" ExpireDate="2009-01-01" RateTimeUnit="Day">
                            <Base CurrencyCode="EUR" AmountAfterTax="300.00"/>
                        </Rate>
                        <Rate EffectiveDate="2009-01-01" ExpireDate="2009-01-04" RateTimeUnit="Day">
                            <Base CurrencyCode="EUR" AmountAfterTax="275.00"/>
                        </Rate>
                    </Rates>
                </RoomRate>
            </RoomRates>
            <BasicPropertyInfo BrandCode="HI" HotelName="FRANKFURT HILTON" HotelCode="FRAHI"/>
        </RoomStay>
    </RoomStays>
    <ResGuests>
        <ResGuest>
            <Profiles>
                <ProfileInfo>
                    <Profile>
                        <Customer>
                            <PersonName>
                                <GivenName>JOHN</GivenName>
                                <Surname>SMITH</Surname>
                            </PersonName>
                            <Telephone PhoneNumber="407 667-8700"/>
                            <Email>test@gmail.com</Email>
                            <Address>
                                <AddressLine>123 main</AddressLine>
                                <CityName>memphis</CityName>
                                <PostalCode>38117</PostalCode>
                                <StateProv StateCode="TN"/>
                                <CountryName Code="US"/>
                            </Address>
                        </Customer>
                    </Profile>
                </ProfileInfo>
            </Profiles>
        </ResGuest>
    </ResGuests>
    <ResGlobalInfo>
        <GuestCounts IsPerRoom="true">
            <GuestCount Count="2" AgeQualifyingCode="10"/>
```

```xml
            </GuestCounts>
            <TimeSpan Start="2008-12-30" Duration="P5D"/>
            <Comments>
                <Comment>
                    <Text>//</Text>
                </Comment>
            </Comments>
            <Guarantee>
                <GuaranteeDescription>
                    <Text>GUARANTEE TO COMPANY</Text>
                </GuaranteeDescription>
            </Guarantee>
            <CancelPenalties>
                <CancelPenalty>
                    <PenaltyDescription>
                        <Text>4PM Cxl on Arr Date</Text>
                    </PenaltyDescription>
                </CancelPenalty>
            </CancelPenalties>
            <Total CurrencyCode="EUR" AmountAfterTax="1425.00">
                <Taxes>
                    <Tax Code="14" Amount="0.00" CurrencyCode="EUR"/>
                    <Tax Code="17" Amount="0.00" CurrencyCode="EUR"/>
                </Taxes>
            </Total>
            <HotelReservationIDs>
                <HotelReservationID ResID_Type="10" ResID_Source="Hilton"
ResID_Value="3314595190" ResID_Date="2008-03-25T08:18:19.66-05:00"/>
            </HotelReservationIDs>
        </ResGlobalInfo>
    </HotelReservation>
  </HotelReservations>
</OTA_HotelResRS>
```

8   OTA_HotelResModify

The OTA_HotelResModifyRQ message is used to make a change to an existing reservation. Before attempting the modification, it may be useful, but not necessary, to perform an OTA_HotelAvailRQ in order to verify that the new date range, room types, etc. are available.

A reservation can only be modified if the following two conditions are met:

- The reservation that you are trying to modify must contain the same account information that was used to make the reservation. (You can't modify a reservation that you didn't make.)

- The OTA_HotelResModifyRQ message must contain the confirmation number of the reservation.

The modification request is an atomic request that can either be approved or denied. If there is a problem modifying the reservation, the OTA_HotelResModifyRS response will return an appropriate business message. For instance, if the reservation requires a deposit and there is no payment information included in the request, it will be denied. Once the request is made and a successful result is returned, the modification requested will have been completed.
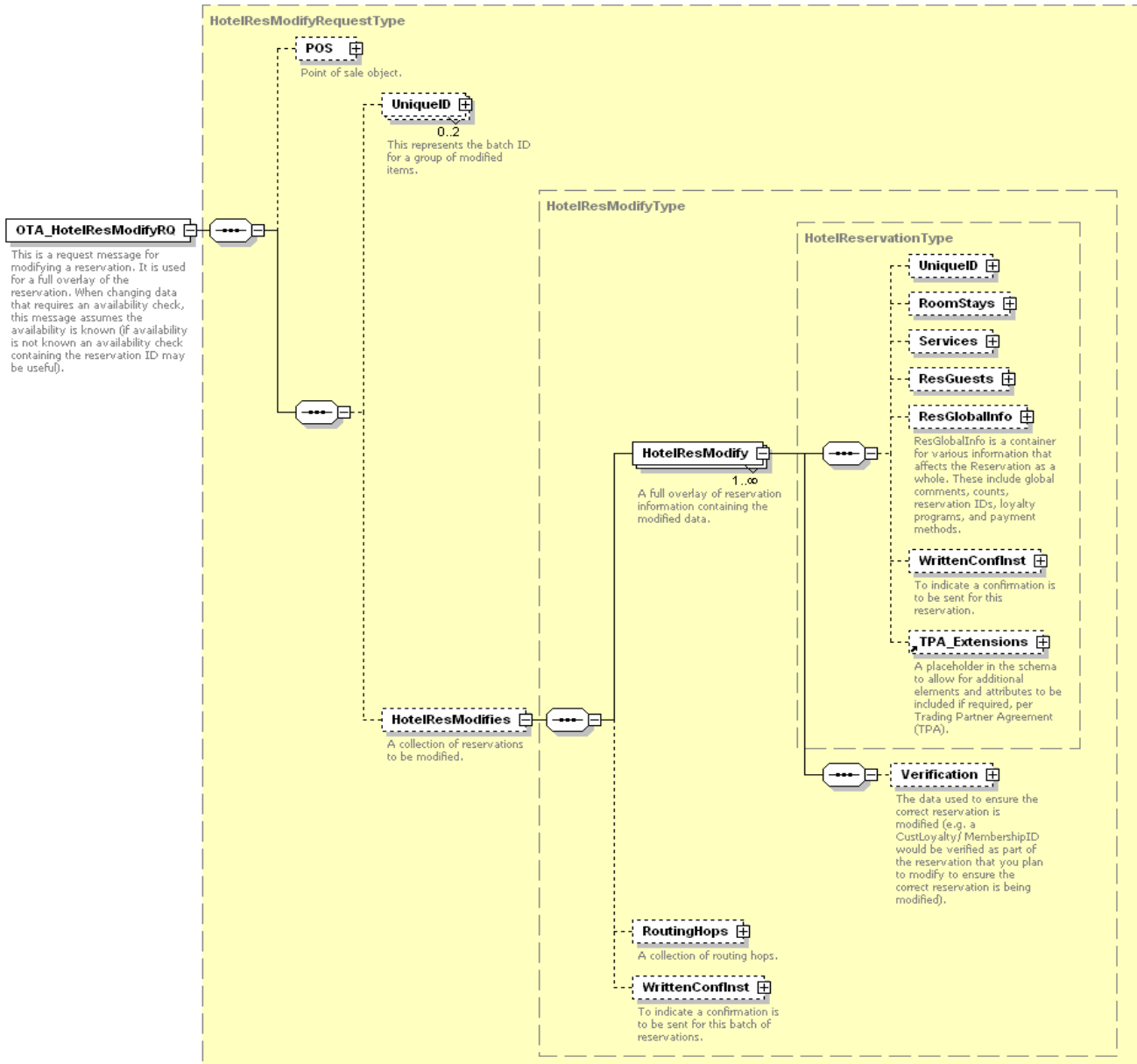
Figure 7. OTA_HotelResModifyRQ Schema

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8.1 OTA_HotelResModifyRQ Elements and Attributes

The OTA_HotelResModifyRQ schema is very similar to the OTA_HotelResRQ, except that the element names "HotelReservations" and "HotelReservation" are replaced by the element names "HotelResModifies" and "HotelResModify" respectively.

A modification can be classified as either an "inventory" or "non-inventory" modification. The difference being that an inventory modification may result in a rate change. Elements which will result in a possible inventory change include Room stays, Guest Counts and Time span. Elements which will not result in an inventory change include ResGuests, Membership, Comments and Guarantee elements.

All elements must be re-sent even if they are not being modified. Please note that you are not able to modify any BasicPropertyInfo elements. If attempted, the modification will fail.

Elements can be added or modified but not removed.

Within the Membership element, once a HH membership has been entered, it cannot be deleted or changed. Other memberships can be added or changed but not deleted.

When making a modification, the Hilton confirmation number should be included in the ResID_Value attribute of the HotelReservationID element. Changes or additions are allowed to your unique identifier only.

The following table shows the attributes of the HotelResModifies element that are supported by the Hilton Transaction Exchange.

Table 13. OTA_HotelResModifyRQ Elements and Attributes
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
0	**OTA_HotelResModifyRQ**		1	Y	
	@ResStatus	TransactionAction Type		Y	When the ResStatus is set to "Commit", a modification is being made. In this case, the reservation will either be successful and a modification is made, or an appropriate error response will be returned.
1	**HotelResModifies**		1	Y	
2	**HotelResModify**		1	Y	
3	**RoomStays**		1	Y	Holds information the original/new room stay information.
4	**RoomStay**		1	Y	
	@PromotionCode	StringLength1to32		N	A promotion code may be requested.
5	**RoomTypes**		1	Y	
6	**RoomType**		1	Y	
	@RoomTypeCode	StringLength1to16		Y	
	@NumberOfUnits	Numeric1		Y	The value of this attribute must always be "1".
7	**Amenities**		0..1	N	
8	**Amenity**		1..3	Y	The acceptable RoomAmenity values are either Smoking/Non Smoking or One Bed/Two Beds or Rollaway/Crib
	@RoomAmenity	OTA_CodeType		Y	See Appendix A for the codes.
5	**RatePlans**		1	Y	
6	**RatePlan**		1	Y	
	@BookingCode	StringLength1to16		N	
	@RatePlanID	StringLength1to64		N	

Level	Name	Type	Occurs	Required	Comments
	@RatePlanCode	StringLength1to16		Y	
5	**BasicPropertyInfo**		1	Y	
	@BrandCode	StringLength1to16		N	
	@HotelCode	StringLength1to8		Y	The property for which the booking was made. This cannot be changed.
	@HotelName	StringLength1to128		N	
3	**ResGuests**		1	Y	Holds the original/new guest information.
4	**ResGuest**		1	Y	
5	**Profiles**		1	Y	
6	**ProfilesInfo**		1	Y	
7	**Profile**		1	Y	
8	**Customer**		1	Y	
9	**PersonName**		1	Y	
10	**NamePrefix**		0..1	N	
10	**GivenName**		1	Y	
10	**Surname**		1	Y	
9	**Telephone**		1	Y	
	@PhoneNumber	StringLength1to32		Y	
9	**Email**		0..1	N	Email is optional, if sent it should be in the us-er@domain format.
	DefaultInd	Boolean		N	If attribute DefaultInd is set to "true" an email confirmation will be sent to the email address provided.

Table 13. OTA_HotelResModifyRQ Elements and Attributes

Level	Name	Type	Occurs	Required	Comments
9	**Address**		1	Y	
10	**AddressLine**		1..3	Y	
10	**CityName**		1	Y	
10	**PostalCode**		0..1	N	
10	**StateProv**		0..1	N	
	@StateCode	StateProvCodeType		Y	
10	**CountryName**		1	Y	
	@Code	ISO3166		Y	
3	**ResGlobalInfo**		1	Y	
4	**GuestCounts**		1	Y	
	@IsPerRoom	xs:boolean		Y	*IsPerRoom* means that the guests defined in the GuestCounts object apply to *each* room in the NumberOfRooms for the RoomStay. The IsPerRoom attribute must always be "true".
5	**GuestCount**		1..2	Y	The GuestCount element contains the age and number of guests for the room. At least one GuestCount element, specifying the number of adults is required. You have to provide at least one GuestCount element, specifying the number of adults. At most two GuestCount elements are allowed: one for the number of adults and one for the number of children.
	@AgeQualifyingCode	OTA_CodeType		Y	The AgeQualifyingCode should either be "10" to specify adult or "8" for a child. (These are the values from the OTA Code List Age Qualifying Code (AQC).)
	@Count	Numeric1to999		Y	The number of guests in each AgeQualifying-

Level	Name	Type	Occurs	Required	Comments
					Code.
4	**TimeSpan**		1	Y	The TimeSpan element must have the Start and Duration attributes populated or the origina/new reservation.
	@Start	DateOrTimeOr-DateTimeType		Y	The arrival date for the reservation.
	@Duration	DurationType		Y	The length of stay. Should be in the format P[0-90]D.
4	**Memberships**		0..1	N	Memberships can be added or changed but not deleted.
5	**Membership**		1..2	Y	
	@AccountID	StringLength1to32		Y	
	@ProgramCode	StringLength1to32		Y	
4	**Comments**		0..1	N	
5	**Comment**		1..3	Y	
6	**Text**		1	Y	
4	**Guarantee**		1	Y	
	@GuaranteeCode			Y	Either the orginal or new guarantee code needs to be sent in. See Apendix A, Table 1 for a list of possible guarantee codes.
5	**GuaranteesAccepted**		0..1	N	This element is required only for guarantee policies Credit Card Guarantee (CC), Credit Card Deposit (CR) and Full PrePayment (FP).
6	**GuaranteeAccepted**		1	Y	
7	**PaymentCard**		1	Y	The PaymentCard element has four attributes, all of which are required. The payment infor-

Level	Name	Type	Occurs	Required	Comments
					mation could be used to "hold" the reservation or it could be used to pay for the room(s) at the time of the reservation, depending on the guarantee policy of the reservation.
	@CardType	OTA_CodeType		Y	HTE only supports a value of "1" for CardType per the OTA Code ListCard Type (CDT) which stands for "Credit".
	@CardCode	PaymentCardCode-Type		Y	The two character code of the credit card issuer. See Table 12 for the list of OTA CardCode values.
	@CardNumber	Numer-icStringLength1to19		Y	The credit card number embossed on the card.
	@ExpireDate	MMYYDate		Y	The expiration date of the credit card.
4	**HotelReservationIDs**		1	Y	
5	**HotelReservationID**		1..2	Y	This element is used to identify the reservation the needs to be modified.
	@ResID_Value	StringLength1to10		Y	An identifier that can be used to identify the reservation.
	@ResID_Date	xs:dateTime		Y	Date of the creation of this reservation
	@ResID_Source	StringLength1to64		Y	Name of the source company/system.
	@ResID_Type	OTA_CodeType		Y	If ResID_Type is "14" the ResID_Value needs to be Hilton's confirmation number. ResID_Type can be set to "5" if a local identifier needs to be sent in ResID_Value.

Table 13. OTA_HotelResModifyRQ Elements and Attributes

8.2   OTA_HotelResModifyRQ Examples

Example 1 - This is an example of a request to modify the address on a booking for Waldorf London Hilton. The hotel code is "LONWA" and the brand code for Hilton International is "HI".

The address originally supplied was

```
<Address>
    <AddressLine>123 Main</AddressLine>
    <CityName>London</CityName>
    <CountryName Code="GB"/>
</Address>
```

In this example you can see that all elements that were supplied as part of the original booking have been re-sent as part of the modify request. Note that the Hilton confirmation number and the local unique identifier are also present in the HotelReservationIDs element.

```
<OTA_HotelResModifyRQ ResStatus="Commit" TimeStamp="2008-03-17T12:06:14.033" Tar-
get="Production" Version="3.0" PrimaryLangID="en-us"
xmlns="http://www.opentravel.org/OTA/2003/05">
    <HotelResModifies>
 <HotelResModify>
         <RoomStays>
            <RoomStay>
               <RoomTypes>
                  <RoomType RoomTypeCode="Q1D" NumberOfUnits="1">
                     <Amenities>
                        <Amenity RoomAmenity="1"/>
                     </Amenities>
                  </RoomType>
               </RoomTypes>
               <RatePlans>
                  <RatePlan RatePlanCode="LV5"/>
               </RatePlans>
               <BasicPropertyInfo BrandCode="HI" HotelCode="LONWA"/>
            </RoomStay>
         </RoomStays>
         <ResGuests>
            <ResGuest>
               <Profiles>
                  <ProfileInfo>
                     <Profile>
                        <Customer>
                           <PersonName>
                              <NamePrefix>Mr.</NamePrefix>
                              <GivenName>Ben</GivenName>
                              <Surname>Johnson</Surname>
                           </PersonName>
                           <Telephone PhoneNumber="4558776555"/>
                           <Email DefaultInd="true">test@gmail.com</Email>
                           <Address>
                              <AddressLine>5486 StateLine Road</AddressLine>
                              <CityName>Memphis</CityName>
```

```
                        <StateProv StateCode="TN"/>
                        <CountryName Code="US"/>
                    </Address>
                </Customer>
            </Profile>
        </ProfileInfo>
    </Profiles>
</ResGuest>
</ResGuests>
<ResGlobalInfo>
    <GuestCounts IsPerRoom="true">
        <GuestCount AgeQualifyingCode="10" Count="1"/>
        <GuestCount AgeQualifyingCode="8" Count="1"/>
    </GuestCounts>
    <TimeSpan Start="2008-09-12" Duration="P2D"/>
    <Memberships>
        <Membership AccountID="00175008470" ProgramCode="UA"/>
    </Memberships>
    <Comments>
        <Comment>
            <Text>Test Comment 1</Text>
        </Comment>
        <Comment>
            <Text>Test Comment 2</Text>
        </Comment>
        <Comment>
            <Text>Test Comment 3</Text>
        </Comment>
    </Comments>
    <Guarantee GuaranteeCode="CC">
        <GuaranteesAccepted>
            <GuaranteeAccepted>
                <PaymentCard CardType="1" CardCode="VI" CardNumber="xxxxxxxxxxxx1111"
ExpireDate="0909"/>
            </GuaranteeAccepted>
        </GuaranteesAccepted>
    </Guarantee>
    <HotelReservationIDs>
        <HotelReservationID ResID_Type="5" ResID_Source="Test Company"
ResID_Value="123123123" ResID_Date="2008-03-17T12:01:18.787"/>
        <HotelReservationID ResID_Type="14" ResID_Source="Hilton"
ResID_Value="3296390004" ResID_Date="2008-03-17T13:06:15.63-05:00"/>
    </HotelReservationIDs>
</ResGlobalInfo>
    </HotelResModify>
  </HotelResModifies>
</OTA_HotelResModifyRQ>
```
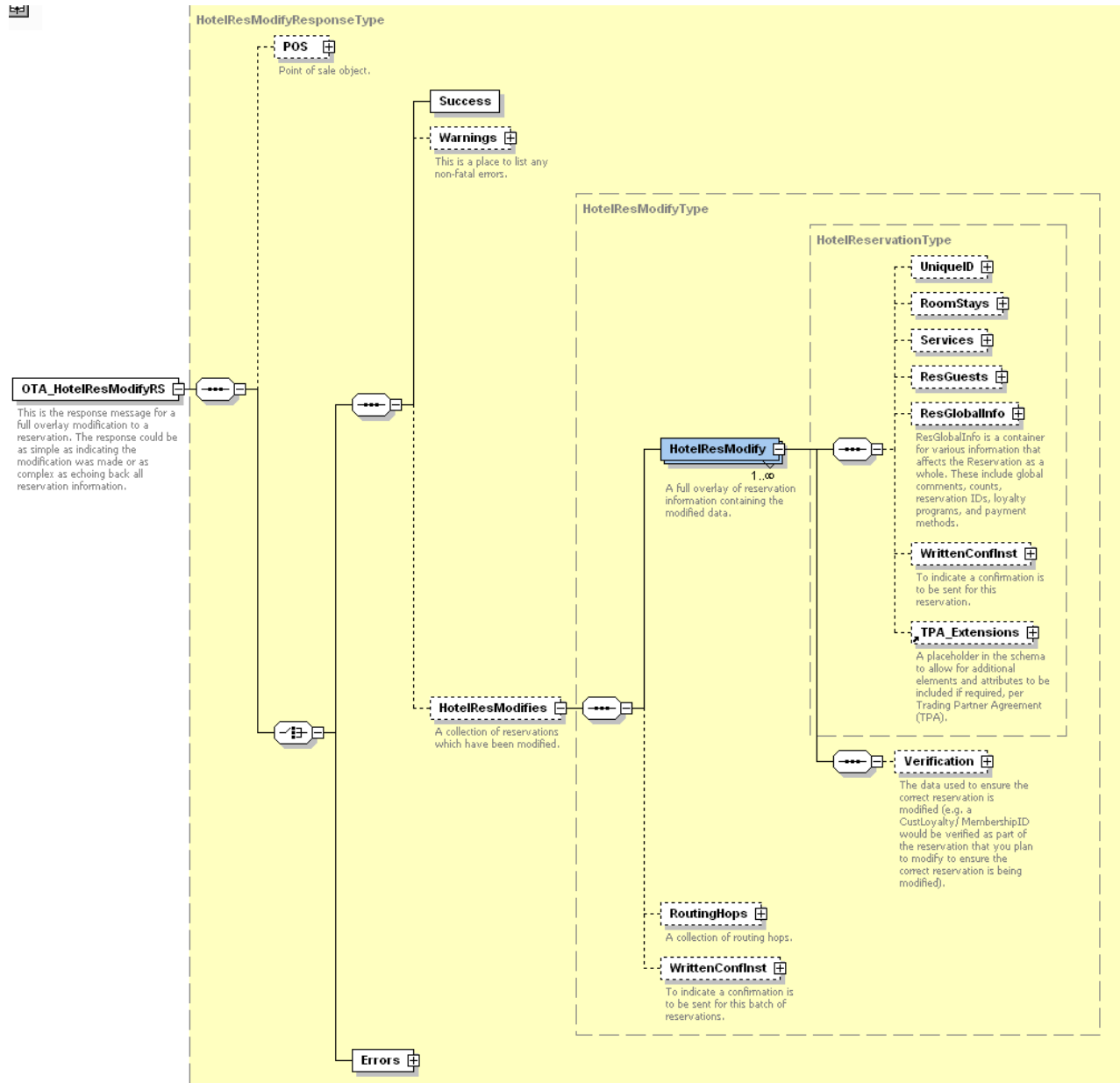
Figure 8. OTA_HotelResModifyRS Schema

8.3   OTA_HotelResModifyRS Elements and Attributes

The OTA_HotelResModifyRS message is identical to the OTA_HotelResRS message, except that the element names "HotelReservations" and "HotelReservation" are replaced by the element names "HotelResModifies" and "HotelResModify", respectively.

The following table shows the attributes of the OTA_HotelResRS elements that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
	Table 14. OTA_HotelResModifyRS Elements and Attributes				
0	**OTA_HotelResModifyRS**		1	Y	
	@ResResponseType	TransactionStatusType		Y	If the ResStatus within the OTA_HotelResModifyRQ was set to "Commit" then the ResResponseType will be either "Committed" or "Unsuccessful".
1	**Success**		0..1	N	See section 4.1.2 for more info on Success.
1	**Errors**		0..1	N	See section 4.1.2 for more info on Errors.
2	**Error**		1	N	
	@Type	OTA_CodeType		Y	
1	**Warnings**		0..1	N	See section 4.1.2 for more info on Warnings.
2	**Warning**		0..n	N	
	@Type	OTA_CodeType		Y	
1	**HotelResModifies**		0..1	N	This element contains the modified reservation.
2	**HotelResModify**		1	Y	
3	**RoomStays**		1	Y	
4	**RoomStay**		1	Y	
5	**RoomTypes**		1	Y	
6	**RoomType**		1	Y	
	@RoomTypeCode	StringLength1to16		Y	
	@NumberOfUnits	Numeric1		Y	
7	**RoomDescription**		1	Y	

Level	Name	Type	Occurs	Required	Comments
8	**Text**		1	Y	
7	**Amenities**		0..1	N	
8	**Amenity**		1	Y	The meal plan code for the reservation will be returned this element. See Appendix A, Table 4 for an explanation of the meal plan codes.
	@RoomAmenity	OTA_CodeType		Y	Will always be "8" for MealPlan. See Appendix A, Table 6.
5	**RatePlans**		1	Y	
6	**RatePlan**		1	Y	
	@RatePlanCode	StringLength1to16		Y	
7	**RatePlanDescription**		1	Y	
8	**Text**		1	Y	
5	**RoomRates**		1	Y	
6	**RoomRate**		1	Y	
	@EffectiveDate	xs:date		Y	
	@ExpireDate	xs:date		Y	
	@RoomTypeCode	StringLength1to16		Y	
	@RatePlanCode	StringLength1to16		Y	
	@PromotionCode	StringLength1to32		N	
7	**Rates**		1	Y	
8	**Rate**		1..n	Y	If there is a rate change, then more than one

Table 14. OTA_HotelResModifyRS Elements and Attributes

Level	Name	Type	Occurs	Required	Comments
					Rate element will be returned. For instance, an availability check for January 1st through the 10th may yield one room rate for January 1st through the 5th and a different rate for the 6th through the 10th. In this case, there would be two Rate elements.
	@EffectiveDate	xs:date		Y	The starting date from when the rate returned in the Base element is applicable.
	@ExpireDate	xs:date		Y	Indicates the date when the rate in the Base element expires.
	@RateTimeUnit	TimeUnitType		Y	Will always be "Day". Since the rate returned in the Base element is the daily rate.
9	**Base**		1	Y	Either the AmountBeforeTax or AmountAfter-Tax will be returned.
	@AmountBeforeTax	Money		N	The AmountBeforeTax attribute contains the base dollar amount of the rate per room per night excluding taxes.
	@AmountAfterTax	Money		N	The AmountAfterTax attribute is the entire amount of the stay including applicable taxes.
	@CurrencyCode	AlphaLength3		Y	The currency in which the rates are returned.
9	**AdditionalGuestAmounts**		0..1	N	This element is returned only if Rollaway or crib was requested in OTA_HotelResRQ and if the room type supports an extra bed.
10	**AdditionalGuestAmount**		1..2	Y	
11	**Amount**		1	Y	Either the AmountBeforeTax or AmountAfter-Tax will be returned.
	@AdditionalFeesExcludedI			Y	Will always be "true" since the additional rates

Level	Name	Type	Occurs	Required	Comments
	ndicator				are not included in the total price of the room.
	@CurrencyCode				The currency in which the rates are returned.
	@AmountBeforeTax				
	@AmountAfterTax				
11	**AddlGuestAmtDescrip-tion**		1	Y	
12	**Text**		1	Y	A description of the additional charge.
5	**BasicPropertyInfo**		1	Y	
	@BrandCode	StringLength1to16		N	
	@HotelCode	StringLength1to8		Y	
	@HotelName	StringLength1to128		N	
3	**ResGuests**		1	Y	The guest information sent in OTA_HotelResRQ is echoed back in the re-sponse.
4	**ResGuest**		1	Y	
5	**Profiles**		1	Y	
6	**ProfileInfo**		1	Y	
7	**Profile**		1	Y	
8	**Customer**		1	Y	
9	**PersonName**		1	Y	
10	**NamePrefix**		0..1	N	
10	**GivenName**		1	Y	

Level	Name	Type	Occurs	Required	Comments
Table 14. OTA_HotelResModifyRS Elements and Attributes					
10	**Surname**		1	Y	
9	**Telephone**		1	Y	
	@PhoneNumber	StringLength1to32		Y	
9	**Email**		0..1	N	
9	**Address**		1	Y	
10	**AddressLine**		1..3	Y	
10	**CityName**		1	Y	
10	**PostalCode**		0..1	N	
10	**StateProv**		0..1	N	
	@StateCode	StateProvCodeType		Y	
10	**CountryName**		1	Y	
	@Code	ISO3166		Y	
3	**ResGlobalInfo**		1	Y	
4	**GuestCounts**		1	Y	Information about the number of guests per room.
	@IsPerRoom	xs:boolean		Y	*IsPerRoom* means that the guests defined in the GuestCounts object apply to *each* room in the NumberOfRooms for the RoomStay. The IsPerRoom attribute must always be "true".
5	**GuestCount**		1..2	Y	
	@AgeQualifyingCode	OTA_CodeType		Y	
	@Count	Numeric1to999		Y	
4	**TimeSpan**		1	Y	

Level	Name	Type	Occurs	Required	Comments
	@Start	DateOrTimeOr-DateTimeType		Y	
	@Duration	DurationType		Y	
4	**Memberships**		0..1	N	Holds information regarding the Memberships associated with the reservation.
5	**Membership**		1..2	Y	
	@AccountID	StringLength1to32		Y	
	@ProgramCode	StringLength1to32		Y	
4	**Comments**		0..1	N	Comments associated with the reservation.
5	**Comment**		1..3	Y	
6	**Text**		1	Y	
4	**Guarantee**		1	Y	
5	**GuaranteeDescription**		1	Y	
6	**Text**		1	Y	Description of the guarantee method used to hold the reservation.
4	**CancelPenalties**		1	Y	
5	**CancelPenalty**		1	Y	
6	**PenaltyDescription**		1	Y	
7	**Text**		1	Y	The Cancellation policy for the reservation.
4	**Total**		1	Y	The total amount for this reservation excluding the additional amounts for rollaway and crib.
	@AmountAfterTax	Money		Y	The AmountAfterTax attribute will have the

Table 14. OTA_HotelResModifyRS Elements and Attributes					

Level	Name	Type	Occurs	Required	Comments
					total amount charged for the reservation.
	@CurrencyCode	AlphaLength3		Y	The currency in which the total price is returned.
5	**Taxes**		1	Y	
6	**Tax**		1..2	Y	
	@Type	OTA_CodeType		Y	The *Code* (refer to the OTA Code Fee List type table) identifies the fees applied to the rate, the *Code* can be either "14 or "17".
	@Amount	Money		Y	If the *Code* is "14" then the *Amount* will have the service charges that were applied to the rate and if *Code* is "17" then the *Amount* will include all taxes and additional fees that were applied to the rate.
	@CurrencyCode	AlphaLength3		Y	The currency in which the taxes are returned.
4	**HotelReservationIDs**		1	Y	
5	**HotelReservationID**		1..2	Y	The information that was sent in the HotelReservationID element of the OTA_HotelResModifyRQ will be echoed back in the HotelReservationID element of the OTA_HotelResRS.
	@ResID_Value	StringLength1to10		Y	
	@ResID_Date	xs:dateTime		N	
	@ResID_Source	StringLength1to64		Y	
	@ResID_Type	OTA_CodeType		Y	

8.4 OTA_HotelResModifyRS Examples

Example 1 - This is an example of a successful response to a request to modify a reservation from 2 to 3 nights. The original elements were:

```xml
<Total CurrencyCode="GBP" AmountAfterTax="538.15">
   <Taxes>
      <Tax Code="14" Amount="0.00" CurrencyCode="GBP"/>
      <Tax Code="17" Amount="80.15" CurrencyCode="GBP"/>
   </Taxes>
</Total>
```

```xml
<OTA_HotelResModifyRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-us" Version="3.0" ResResponseType="Committed" TimeStamp="2008-03-17T16:25:48.98-05:00">
   <Success/>
   <HotelResModifies>
      <HotelResModify>
         <RoomStays>
            <RoomStay>
               <RoomTypes>
                  <RoomType RoomTypeCode="Q1D" NumberOfUnits="1">
                     <RoomDescription>
                        <Text>QUEEN HILTON DELUXE</Text>
                     </RoomDescription>
                     <Amenities>
                        <Amenity RoomAmenity="8">N</Amenity>
                     </Amenities>
                  </RoomType>
               </RoomTypes>
               <RatePlans>
                  <RatePlan RatePlanCode="LV5">
                     <RatePlanDescription>
                        <Text>BEST AVAILABLE RATE</Text>
                     </RatePlanDescription>
                  </RatePlan>
               </RatePlans>
               <RoomRates>
                  <RoomRate RatePlanCode="LV5" RoomTypeCode="Q1D" EffectiveDate="2008-09-12" ExpireDate="2008-09-15">
                     <Rates>
                        <Rate EffectiveDate="2008-09-12" ExpireDate="2008-09-15" RateTimeUnit="Day">
                           <Base CurrencyCode="GBP" AmountBeforeTax="229.00"/>
                        </Rate>
                     </Rates>
                  </RoomRate>
               </RoomRates>
               <BasicPropertyInfo BrandCode="HI" HotelName="WALDORF LONDON HILTON" HotelCode="LONWA"/>
            </RoomStay>
         </RoomStays>
         <ResGuests>
            <ResGuest>
               <Profiles>
```

```xml
<ProfileInfo>
    <Profile>
        <Customer>
            <PersonName>
                <NamePrefix>MR.</NamePrefix>
                <GivenName>BEN</GivenName>
                <Surname>JOHNSON</Surname>
            </PersonName>
            <Telephone PhoneNumber="407 667-8700"/>
            <Email>test@gmail.com</Email>
            <Address>
                <AddressLine>123 Main</AddressLine>
                <CityName>London</CityName>
                <StateProv StateCode="TN"/>
                <CountryName Code="GB"/>
            </Address>
        </Customer>
    </Profile>
</ProfileInfo>
                </Profiles>
            </ResGuest>
        </ResGuests>
        <ResGlobalInfo>
            <GuestCounts IsPerRoom="true">
                <GuestCount Count="1" AgeQualifyingCode="10"/>
                <GuestCount Count="1" AgeQualifyingCode="8"/>
            </GuestCounts>
            <TimeSpan Start="2008-09-12" Duration="P3D"/>
            <Memberships>
                <Membership ProgramCode="UA" AccountID="00175008470"/>
            </Memberships>
            <Comments>
                <Comment>
                    <Text>Test Comment 1</Text>
                </Comment>
                <Comment>
                    <Text>Test Comment 2</Text>
                </Comment>
                <Comment>
                    <Text>Test Comment 3</Text>
                </Comment>
            </Comments>
            <Guarantee>
                <GuaranteeDescription>
                    <Text>CREDIT CARD GUARANTEE</Text>
                </GuaranteeDescription>
            </Guarantee>
            <CancelPenalties>
                <CancelPenalty>
                    <PenaltyDescription>
                        <Text>4PM Cxl on Arr Date</Text>
                    </PenaltyDescription>
                </CancelPenalty>
            </CancelPenalties>
            <Total CurrencyCode="GBP" AmountAfterTax="807.23">
                <Taxes>
```

```
                <Tax Code="14" Amount="0.00" CurrencyCode="GBP"/>
                <Tax Code="17" Amount="120.23" CurrencyCode="GBP"/>
            </Taxes>
          </Total>
          <HotelReservationIDs>
              <HotelReservationID ResID_Type="5" ResID_Source="Test Compnay"
ResID_Value="123123123" ResID_Date="2008-03-17T12:01:18.787"/>
              <HotelReservationID ResID_Type="14" ResID_Source="Hilton"
ResID_Value="3296390004" ResID_Date="2008-03-17T16:25:49.51-05:00"/>
          </HotelReservationIDs>
        </ResGlobalInfo>
      </HotelResModify>
    </HotelResModifies>
</OTA_HotelResModifyRS>
```

Example 2 - The following example is a request that has failed, due to the fact that the PaymentCard element's ExpireDate attribute is invalid. (The MMYY value of "2007" is not correct.) Error Type "3" is a "Biz rule" error in the OTA Code List Error Warning Type (EWT).

```
<OTA_HotelResModifyRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" Prima-
ryLangID="en-us" Version="3.0" ResResponseType="Unsuccessful" TimeStamp="2008-03-
17T16:29:13.07-05:00">
  <Errors>
    <Error Type="3">Invalid expiration date</Error>
  </Errors>
</OTA_HotelResModifyRS>
```

9   OTA_Read

The Read infrastructure action defines an operation that opens an existing record and transmits information contained in that record. The Read operation enables the user to identify a particular record and retrieve its entire contents. The Read request will query the Hilton reservation system by using specific booking identifiers included in the UniqueID and Verification elements. The Hilton Transaction Exchange uses the OTA_HotelResRS message as the response to the OTA_ReadRQ. There is no OTA_ReadRS message.
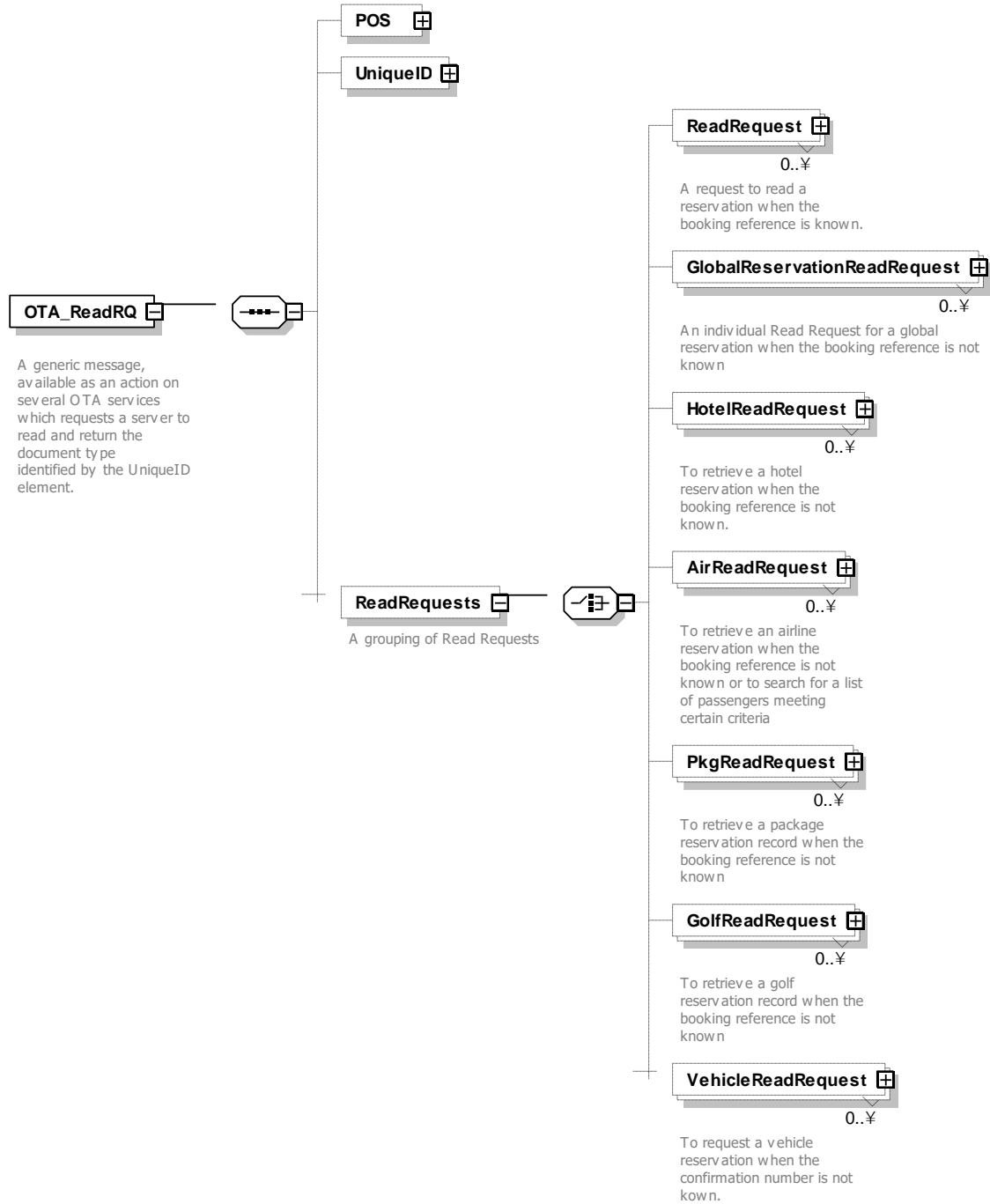
Figure 9. OTA_ReadRQ Schema

9.1   OTA_ReadRQ Elements and Attributes

The following table shows the attributes of the OTA_ReadRQ that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
0	**OTA_ReadRQ**		1	Y	
1	**ReadRequests**		1	Y	
2	**ReadRequest**		1	Y	
3	**UniqueID**		1	Y	
	@Type	OTA_CodeType	1	Y	The value of *Type* should be "14", (according to the OTA Code List Unique ID Type) which signifies that the ID is a Hilton reservation number
	@ID	StringLength1to32	1	Y	The *ID* value will be the actual Hilton reservation number.
4	**CompanyName**		1	Y	Should always be set to "Hilton".
3	**Verification**		1	Y	
4	**PersonName**		1	Y	
5	**Surname**		1	Y	Last name of the person whose name is on the reservation.

<div align="center">**Table 15. OTA_ReadRQ Elements and Attributes**</div>

9.2   OTA_ReadRQ Example

Example1 – This example is requesting a Hilton reservation with a confirmation number of 3306515008 and a last name of MOUSE.

```
<OTA_ReadRQ TimeStamp="2008-03-18T13:35:05.627" Target="Production" Version="3.0"
    PrimaryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
  <ReadRequests>
   <ReadRequest>
    <UniqueID Type="14" ID="3306515008">
     <CompanyName>Hilton</CompanyName>
    </UniqueID>
    <Verification>
     <PersonName>
       <Surname>MOUSE</Surname>
    </PersonName>
   </Verification>
 </ReadRequest>
</ReadRequests>
</OTA_ReadRQ>
```

9.3   OTA_Read Response Example

Example 1 - The response to the OTA_ReadRQ transaction is the OTA_HotelResRS. Below is the response to the request shown in Example 1.

```
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
    gID="en-us" Version="3.0" ResResponseType="Ignored" TimeStamp="2008-03-
    31T17:15:16.58-05:00">
 <Success />
 <HotelReservations>
  <HotelReservation>
   <RoomStays>
    <RoomStay>
     <RoomTypes>
       <RoomType RoomTypeCode="K1RO" NumberOfUnits="1">
        <RoomDescription>
          <Text>1 KING BED HORIZON FLOOR</Text>
        </RoomDescription>
        <Amenities>
          <Amenity RoomAmenity="8">N</Amenity>
        </Amenities>
       </RoomType>
     </RoomTypes>
     <RatePlans>
```

```xml
        <RatePlan RatePlanCode="LV3">
          <RatePlanDescription>
            <Text>BEST AVAILABLE RATE</Text>
          </RatePlanDescription>
        </RatePlan>
      </RatePlans>
    <RoomRates>
      <RoomRate RatePlanCode="LV3" RoomTypeCode="K1RO" EffectiveDate="2008-10-
05" ExpireDate="2008-10-07">
        <Rates>
          <Rate EffectiveDate="2008-10-05" ExpireDate="2008-10-07" RateTimeUnit="Day">
            <Base CurrencyCode="USD" AmountBeforeTax="439.00" />
          </Rate>
        </Rates>
      </RoomRate>
    </RoomRates>
    <BasicPropertyInfo BrandCode="HI" HotelName="HILTON NEW ORLEANS RIVERSIDE"
HotelCode="MSYNH" />
  </RoomStay>
</RoomStays>
<ResGuests>
  <ResGuest>
    <Profiles>
      <ProfileInfo>
        <Profile>
          <Customer>
            <PersonName>
              <GivenName>MICKEY</GivenName>
              <Surname>MOUSE</Surname>
            </PersonName>
            <Telephone PhoneNumber="9012341234" />
            <Address>
              <AddressLine>755 Crossover</AddressLine>
              <CityName>Memphis</CityName>
              <StateProv StateCode="TN" />
              <CountryName Code="US" />
            </Address>
          </Customer>
        </Profile>
      </ProfileInfo>
    </Profiles>
  </ResGuest>
</ResGuests>
<ResGlobalInfo>
  <GuestCounts IsPerRoom="true">
    <GuestCount Count="2" AgeQualifyingCode="10" />
  </GuestCounts>
  <TimeSpan Start="2008-10-05" Duration="P2D" />
  <Guarantee>
    <GuaranteeDescription>
      <Text>CREDIT CARD DEPOSIT</Text>
    </GuaranteeDescription>
  </Guarantee>
  <CancelPenalties>
    <CancelPenalty>
      <PenaltyDescription>
```

```
            <Text>Cxl 3 days prior to Arrival</Text>
          </PenaltyDescription>
        </CancelPenalty>
      </CancelPenalties>
      <Total CurrencyCode="USD" AmountAfterTax="998.14">
        <Taxes>
          <Tax Code="14" Amount="0.00" CurrencyCode="USD" />
          <Tax Code="17" Amount="120.14" CurrencyCode="USD" />
        </Taxes>
      </Total>
        <HotelReservationIDs>
          <HotelReservationID ResID_Type="14" ResID_Source="Hilton"
      ResID_Value="3306515008" />
        </HotelReservationIDs>
      </ResGlobalInfo>
    </HotelReservation>
  </HotelReservations>
</OTA_HotelResRS>
```

Example 2 - Below is a response to a Read request to retrieve a booking that has been cancelled. The Cancellation information is contained in the HotelReservationID ResID_Type="15" element.

```
<OTA_HotelResRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLan-
    gID="en-us" Version="3.0" ResResponseType="Ignored" TimeStamp="2008-03-
    31T15:12:29.06-05:00">
 <Success />
   <HotelReservations>
     <HotelReservation>
       <RoomStays>
         <RoomStay>
           <BasicPropertyInfo HotelCode="MSYNH" />
         </RoomStay>
       </RoomStays>
       <ResGuests>
         <ResGuest>
           <Profiles>
             <ProfileInfo>
               <Profile>
                 <Customer>
                   <PersonName>
                     <GivenName>John</GivenName>
                     <Surname>Smith</Surname>
                   </PersonName>
                   <Telephone PhoneNumber="9012341234" />
                   <Address>
                     <AddressLine>755 Crossover</AddressLine>
                     <CityName>Memphis</CityName>
                     <StateProv StateCode="TN" />
                     <CountryName Code="US" />
                   </Address>
                 </Customer>
               </Profile>
             </ProfileInfo>
           </Profiles>
```

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```
        </ResGuest>
      </ResGuests>
    <ResGlobalInfo>
      <HotelReservationIDs>
        <HotelReservationID ResID_Type="14" ResID_Source="Hilton"
    ResID_Value="3309133138" />
        <HotelReservationID ResID_Type="15" ResID_Source="Hilton"
    ResID_Value="1752655596" />
      </HotelReservationIDs>
    </ResGlobalInfo>
  </HotelReservation>
 </HotelReservations>
</OTA_HotelResRS>
```

10   OTA_Cancel

The OTA_CancelRQ/RS messages are used to cancel a previously made reservation. The request will cancel the entire reservation.

A reservation can only be cancelled if the following conditions are met:

- The reservation was made by you.

- The OTA_CancelRQ message contains the confirmation number of the reservation.

- If the terms and conditions of the rate allow it.
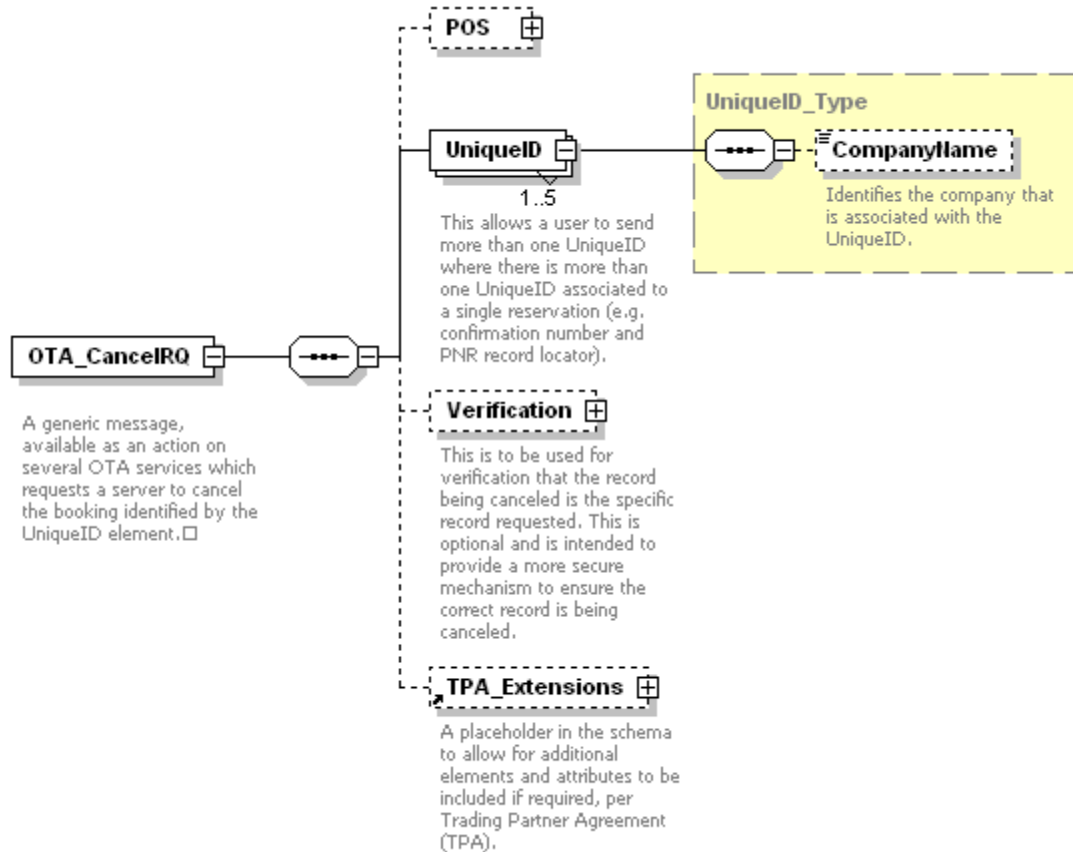
Figure 10. OTA_CancelRQ Schema

8.1 OTA_CancelRQ Elements and Attributes

In the OTA_CancelRQ message, the CancelType attribute should always be "Commit". No partial or pending cancellations are allowed.

Level	Name	Type	Occurs	Required	Comments
	Table 15. OTA_CancelRQ Elements and Attributes				
0	**OTA_CancelRQ**		1	Y	
	@CancelType	TransactionAction-Type		Y	If the *CancelType* is *not* set to "Commit", the cancel request will be ignored.
1	**UniqueID**		1..2	Y	There can be two occurrences of the UniqueID element. One to contain the confirmation number generated by HTE which is *required,* and the other for any identifier that you maintain for the reservation on your side which is *optional*.
	@ID	StringLength1to32		Y	The *ID* value will be the actual Hilton reservation number (required) *or* the client specific confirmation number. (NOTE: If a client specific ID is used, it *must* match the HotelReservationID ResID_Value that was sent in the ResRQ *or* it must be left blank).
	@Type	OTA_CodeType		Y	The value of the *Type* should either be "14", (according to the OTA Code List Unique ID Type) which signifies that the ID is a Hilton reservation number, or a "5" to send in your identifier.
2	**CompanyName**		1	Y	
1	**Verification**		1	Y	Verification is the container element for the cancellation verification information. Guest name, Property information and the time span of reservation need to be sent in the Verification element to ensure that the

Level	Name	Type	Occurs	Required	Comments
					correct booking is being cancelled.
2	**PersonName**		1	Y	
3	**GivenName**		1	Y	
3	**Surname**		1	Y	
2	**Vendor**		2	Y	The Vendor element is used to send in the property information.
	@Code	StringLength1to8		Y	The possible values for Vendor@Code are "2" for BrandCode and "3" for HotelCode.
2	**Reservation-TimeSpan**		1	Y	
	@Start	DateOrTimeOr-DateTimeType		Y	
	@Duration	DurationType		Y	

Example 1 - The following is an example of an OTA_CancelRQ. "12345" is the identifier used by the customer "MYTRAVEL"sending in the transaction. This information will be echoed back in the reply transaction. "3296390004" is the confirmation number that was returned by the Hilton Transaction Exchange in the OTA_HotelResRS transaction which is required for the reservation to be cancelled.

```
<OTA_CancelRQ CancelType="Commit" TimeStamp="2008-03-20T10:14:49.618" Tar-
    get="Production" Version="3.0" PrimaryLangID="en-us"
    xmlns="http://www.opentravel.org/OTA/2003/05">
  <UniqueID Type="5" ID="12345">
    <CompanyName>MYTRAVEL</CompanyName>
  </UniqueID>
  <UniqueID Type="14" ID="3296390004">
    <CompanyName>HIlton</CompanyName>
  </UniqueID>
  <Verification>
    <PersonName>
      <GivenName>Ben</GivenName>
      <Surname>Smith</Surname>
  </PersonName>
    <Vendor Code="2">HI</Vendor>
    <Vendor Code="3">LONWA</Vendor>
    <ReservationTimeSpan Start="2008-09-12" Duration="P3D" />
  </Verification>
</OTA_CancelRQ>
```
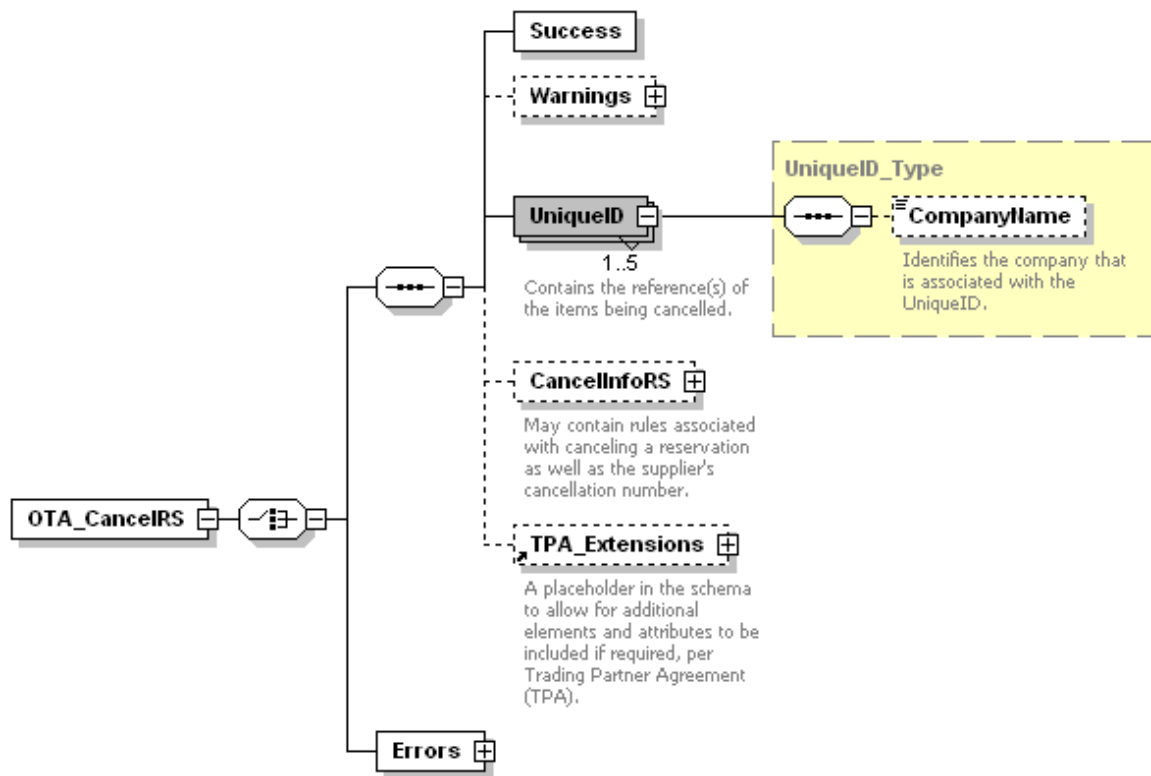
Figure 11. OTA_CancelRS Schema

8.2 OTA_CancelRS Elements and Attributes

The OTA_CancelRS message will indicate either the cancellation was successful or it was not. If the reservation was successfully cancelled, a <Success/> element and a cancellation number will be provided.

The following table shows the attributes of the OTA_HotelDescriptiveInfoRS that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
0	**OTA_CancelRS**		1	Y	
	@Status	TransactionStatusType	1	Y	OTA_CancelRS@Status will be "Cancelled" if the cancellation was successful or "Unsuccessful" if the cancellation was not successful.
1	**Success**		0..1	N	
1	**Errors**		0..1	N	See section 4.1.2 for more info on errors.
2	**Error**		1	Y	
	@Type	OTA_CodeType		Y	
1	**Warnings**		0..1	N	See section 4.1.2 for more info on warnings.
2	**Warning**		1	Y	
	@Type	OTA_CodeType		Y	
1	**UniqueID**		0..2	N	
	@ID	StringLength1to32	1	Y	Client identifier.
	@Type	OTA_CodeType	1	Y	Type of the client should be set to "5".
2	**CompanyName**		1	Y	
1	**CancelInfoRS**		0..1	N	
2	**UniqueID**		1	Y	The UniqueID elements that were sent in the OTA_CancelRQ will be echoed back in the UniqueID elements in OTA_CancelRS element.
	@ID	StringLength1to32	1		If the cancellation was successful then the UniqueID@ID will contain the Hilton cancellation number.

The table title: **Table 16. OTA_CancelRS Elements and Attributes**

Level	Name	Type	Occurs	Required	Comments
	@Type	OTA_CodeType	1		If the cancellation was successful then the UniqueID@Type attribute of "15" (according to the OTA Code List Unique ID Type (UIT)) will be returned.
3	**CompanyName**		1	Y	Should be set to "Hilton".

The table title is: **Table 16. OTA_CancelRS Elements and Attributes**

The following examples are two possible OTA_CancelRS responses.

Example 1 - The response below indicates that a reservation with a Hilton confirmation number of 3296390004 was successfully cancelled by MYTRAVEL company. The Hilton cancellation number of 84060789 was returned.

```
<OTA_CancelRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test"
    PrimaryLangID="en-us" Version="3.0" TimeStamp="2008-03-20T11:43:31.11-05:00" Sta-
    tus="Cancelled">
  <Success />
    <UniqueID ID="12345" Type="5">
      <CompanyName>MYTRAVEL</CompanyName>
    </UniqueID>
    <UniqueID ID="3296390004" Type="14">
      <CompanyName>Hilton</CompanyName>
    </UniqueID>
  <CancelInfoRS>
    <UniqueID ID="84060789" Type="15">
      <CompanyName>Hilton</CompanyName>
    </UniqueID>
  </CancelInfoRS>
</OTA_CancelRS>
```

Example 2 - If the cancellation was not successful, an <Error> element will be provided and it will include the reason why the reservation could not be cancelled. An Error Type value of "3" indicates a "Biz rule" according to the OTA Code List Error Warning Type (EWT).

```
<OTA_CancelRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test"
 PrimaryLangID="en-us" Version="3.0" TimeStamp="2008-03-20T11:14:49.88-05:00" Sta-
 tus="Unsuccessful">
  <Errors>
   <Error Type="3">USER NOT AUTHORIZED TO MOD/CANCEL THIS BOOKING</Error>
  </Errors>
</OTA_CancelRS>
```

11   OTA_HotelDescriptiveInfo

The OTA_ HotelDescriptiveInfoRQ/RS messages are used to provide detailed descrip-
tive information about a hotel property. The OTA_ HotelDescriptiveInfoRQ message
must contain the hotel property's HotelCode. The OTA_HotelDescriptiveInfoRS mes-
sage is intended to provide detailed information regarding a property's service offerings,
amenities, and area information, as well as policies and local contact information. The
maximum number of HotelCodes that can be requested in a single request to the Hilton
Transaction Exchange is limited to 25.
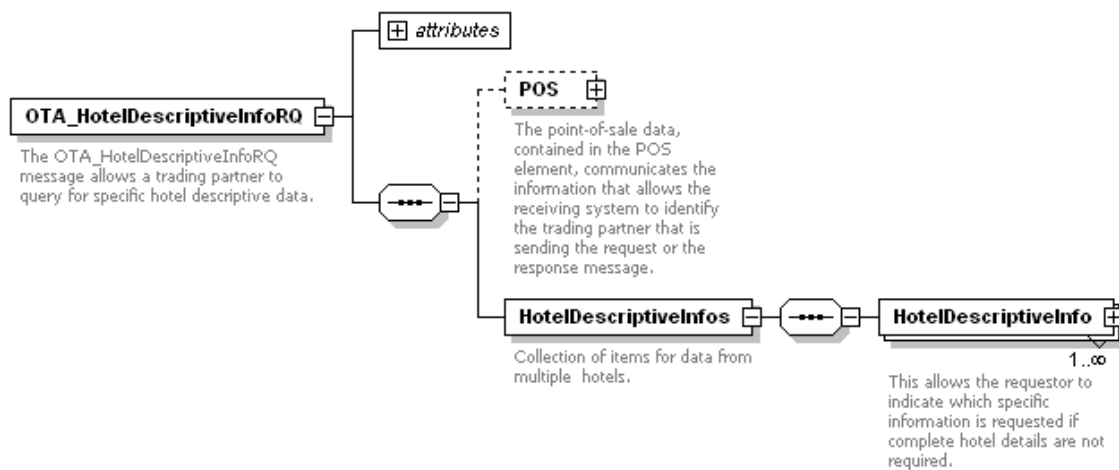
Figure 12. OTA_ HotelDescriptiveInfoRQ Schema

11.1   OTA_ HotelDescriptiveInfoRQ Elements and At-
tributes

The OTA_ HotelDescriptiveInfoRQ message is used to gain descriptive information re-
garding a particular property by simply providing the property's HotelCode.

The following table shows the supported attributes and elements for this request.

Level	Name	Type	Occurs	Required	Comments
Table 17. OTA_ HotelDescriptiveInfoRQ Elements and Attributes					
0	**OTA_HotelDescriptiveInfoRQ**		1	Y	
1	**HotelDescriptiveInfos**		1	Y	
2	**HotelDescriptiveInfo**		1..25	Y	
	@ HotelCode	StringLength1to8		Y	Five character Hilton hotel code.

The following is an example of a request for Hotel Descriptive Information:

```
<OTA_HotelDescriptiveInfoRQ TimeStamp="2008-03-16T19:08:49.589" Target="Production"
Version="3.0" PrimaryLangID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
  <HotelDescriptiveInfos>
    <HotelDescriptiveInfo HotelCode="NYCDT" />
  </HotelDescriptiveInfos>
</OTA_HotelDescriptiveInfoRQ>
```
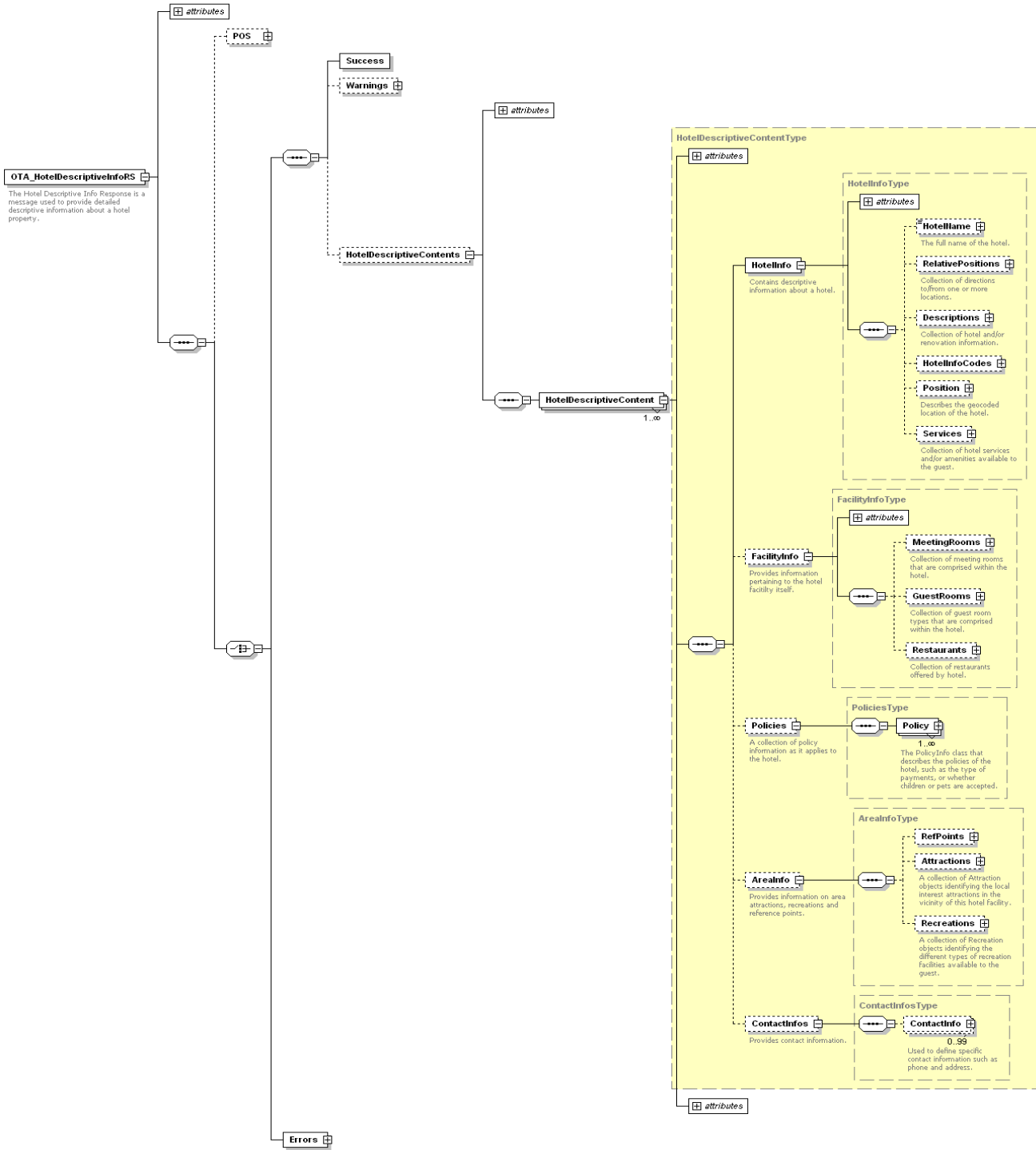
Figure 13. OTA_ HotelDescriptiveInfoRS Schema

11.2 OTA_ HotelDescriptiveInfoRS Elements and Attributes

The following table shows the attributes of the OTA_HotelDescriptiveInfoRS that are supported by the Hilton Transaction Exchange.

Level	Name	Type	Occurs	Required	Comments
	Table 18. OTA_ HotelDescriptiveInfoRS Elements and Attributes				
Level	**Name**	**Type**	**Occurs**	**Required**	**Comments**
0	**OTA_HotelDescriptiveInfoRS**		1	Y	
1	**Success**		0..1	N	See section 4.1.2 for more info on success.
1	**Errors**		0..1	N	See section 4.1.2 for more info on errors.
2	**Error**		1	Y	
	@Type	OTA_CodeType		Y	
1	**Warrnings**		0..1	N	See section 4.1.2 for more info on warnings.
2	**Warning**		1	Y	
	@Type	OTA_CodeType		Y	
1	**HotelDescriptiveContents**		0..1	N	
2	**HotelDescriptiveContent**		1..25	Y	
	@ HotelCityCode	StringLength1to8		N	Seven character hotel code (includes a two character brand code at the end).
	@ HotelName	StringLength1to128		Y	Name of the hotel.
	@ ChainCode	StringLength1to8		Y	Hilton specific chain code. For mapping assistance, see the Brand vs Chain code table in Appendix A, Table 7.
	@ HotelCode	StringLength1to8		Y	Five character hotel code.
3	**HotelInfo**		1	Y	
4	**CategoryCodes**		0..1	N	
5	**SegmentCategory**		1..n	Y	This element will be returned for a resort property.

Level	Name	Type	Occurs	Required	Comments
	@CodeDetail				@CodeDetail will always be 12
	@Code				@Code will always be "Resort"
4	**Descriptions**		1	Y	
5	**Description**		1	Y	
6	**Text**		1	Y	Detailed description of the hotel.
6	**URL**		1	Y	URL of the hotel.
4	**Position**		1	Y	
	@Latitude	StringLength1to16	1	Y	Latitude coordinates of the hotel.
	@Longitude	StringLength1to16	1	Y	Longitude coordinates of the hotel.
4	**Services**		0..n	N	Describes hotel amenities.
5	**Service**		1..n		
	@CodeDetail	StringLength1to64		N	Description of the hotel amenity as per the OTA_CodeTable Hotel Amenity Code (HAC) table.
	@Code	OTA_CodeType		N	Hotel amenity code as per the the OTA_CodeTable Hotel Amenity Code (HAC) table.
	@ProximityCode	ProximityType		N	Possible values are onsite and offsite.
	@ BusinessServiceCode	OTA_CodeType		N	Business service code as per the the OTA_CodeTable Business Srvc Type table.
3	**FacilityInfo**		0..n	N	
	@ LastUpdated	dateTime		Y	Date the hotel information was last updated.
4	**GuestRooms**		0..1	N	
5	**GuestRoom**		0..n	N	
6	**Amenities**		0..1	N	Describes room amenities.

Table 18. OTA_ HotelDescriptiveInfoRS Elements and Attributes

Table 18. OTA_ HotelDescriptiveInfoRS Elements and Attributes					
Level	Name	Type	Occurs	Required	Comments
7	**Amenity**		0..n	N	
	@ *CodeDetail*	StringLength1to64		Y	Description of the room amenity as per the OTA_CodeTable Room Amenity Type (RMA) table.
	@ *RoomAmenityCode*	OTA_CodeType		Y	Room amenity code as per the the OTA_CodeTable Room Amenity Type (RMA) table.
	@*ProximityCode*	ProximityType		Y	Possible values are onsite and offsite.
3	**Policies**		0..1	N	
4	**Policy**		1..n	Y	
5	**PolicyInfo**		0..1	N	
	@ *CheckInTime*	TimeOrDateTimeType		Y	Hotel check in time.
	@ *CheckOutTime*	TimeOrDateTimeType		Y	Hotel check out time.
3	**AreaInfo**		0..1	N	
4	**Recreations**		0..1	N	
5	**Recreation**		1..n	Y	Describes the recreations available at the hotel.
	@ CodeDetail	StringLength1to64		Y	Description of the recreation as per the OTA_CodeTable Recreation Srvc Type (RST) table.
	@ Code	OTA_CodeType		Y	Recreation code as per the the OTA_CodeTable Recreation Srvc Type (RST) table.
	@*ProximityCode*	ProximityType		Y	Possible values are onsite and offsite.
3	**ContactInfos**		0..1	N	
4	**ContactInfo**		1	Y	

Level	Name	Type	Occurs	Required	Comments
5	**Addresses**		1	Y	
6	**Address**		1	Y	
7	**AddressLine**		1..3	Y	
7	**CityName**		1	N	
7	**PostalCode**		0..1	N	
7	**StateProv**		0..1	N	
7	**CountryName**		1	N	
5	**Phones**		1	Y	
6	**Phone**		1..2	Y	Provides the phone numbers and technology types available at the hotel.
	@ PhoneNumber	StringLength1to32	1	N	Phone numbers of the hotel.
	@ PhoneTechType	OTA_CodeType	1	N	Phone code as per the the OTA_CodeTable Phone Technology Type (PTT) table. A value of "1" indicates a voice number and a value of "3" indicates a fax number.

Table 18. OTA_ HotelDescriptiveInfoRS Elements and Attributes

An example of a successful response:

```
<OTA_HotelDescriptiveInfoRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" Prima-
    ryLangID="en-us" Version="3.0" TimeStamp="2008-03-16T20:00:48.91-05:00">
<Success />
<HotelDescriptiveContents>
<HotelDescriptiveContent HotelCityCode="NYCDTDT" HotelName="Doubletree Metropolitan Hotel New
    York City" ChainCode="DH" HotelCode="NYCDT" HotelCodeContext="hilton">
<HotelInfo>
<Descriptions>
<Description>
<Text>The Doubletree Metropolitan Hotel New York City, located at Lexington Avenue and 51st Street
    in the heart of Midtown Manhattan's fashionable East Side, is walking distance from Park Avenue,
    Rockefeller Center and the Broadway Theater District. Recently renovated with 21st century ameni-
    ties and restored to reflect its retro, 1960's glory, the Doubletree Metropolitan is still the ideal place
    to stay in the Big Apple. Business travelers enjoy the convenience of being in the center of the mid-
    town business district, surrounded by Fortune 500 companies. We offer a full slate of business sup-
    port services like meeting rooms, a well-appointed Business Center, equipment rentals and high-
    speed internet access. Walk to world-class shopping on Fifth Avenue and the shops of Madison Av-
    enue, as well as to entertainment attractions like the NBC Studio Tour, Broadway shows and Radio
    City Music Hall. We're close to everything that is New York City - Central Park, St. Patrick's Cathe-
    dral, the United Nations, The Empire State Building, and Grand Central Station. Do NYC in style
    from the Doubletree Metropolitan!See and be seen at afternoon tea or with evening cocktails at chic
    and trendy The Met Bar. Dine at The Met Grill, serving up elegant cuisine in popular surroundings
    for breakfast, lunch and dinner daily. Work out in our fitness center or be styled in our Salon. Get
    pampered at the Doubletree Metropolitan. Our Concierge and attentive staff members will attend to
    your every need, and your comfort is guaranteed. As always - enjoy our very special warm choco-
    late chip cookie at check-in!</Text>
<URL>http://doubletree.hilton.com/en/dt/hotels/index.jhtml?ctyhocn=NYCDTDT</URL>
</Description>
</Descriptions>
<Position Latitude="40.7569" Longitude="-73.9721" />
<Services>
<Service CodeDetail="Meeting Rooms" Code="24" ProximityCode="onsite" />
<Service CodeDetail="Restaraunt" Code="76" ProximityCode="onsite" />
<Service CodeDetail="High Speed Internet" Code="178" ProximityCode="onsite" />
<Service CodeDetail="Wireless Internet Access" Code="179" ProximityCode="onsite" />
<Service CodeDetail="Wheel chair accessl" Code="101" ProximityCode="onsite" />
<Service CodeDetail="Business Center" ProximityCode="onsite" BusinessServiceCode="39" />
<Service />
</Services>
</HotelInfo>
<Policies>
<Policy>
<PolicyInfo CheckInTime="15:00:00" CheckOutTime="12:00:00" />
</Policy>
</Policies>
<AreaInfo>
<Recreations>
<Recreation CodeDetail="Fitness Center" Code="23" ProximityCode="onsite" />
<Recreation />
</Recreations>
</AreaInfo>
<ContactInfos>
<ContactInfo>
<Addresses>
```

```xml
<Address>
<AddressLine>569 Lexington Avenue</AddressLine>
<CityName>New York</CityName>
<PostalCode>10022</PostalCode>
<StateProv>NY</StateProv>
<CountryName>US</CountryName>
</Address>
</Addresses>
<Phones>
<Phone PhoneNumber="1-212-752-7000" PhoneTechType="1" />
<Phone PhoneNumber="1-212-758-6311" PhoneTechType="3" />
</Phones>
</ContactInfo>
</ContactInfos>
</HotelDescriptiveContent>
</HotelDescriptiveContents>
</OTA_HotelDescriptiveInfoRS>
```

12   OTA_Ping

The OTA_Ping message is used to test application connectivity. Free-form text data that is passed to the server in the request is echoed back in the response message.
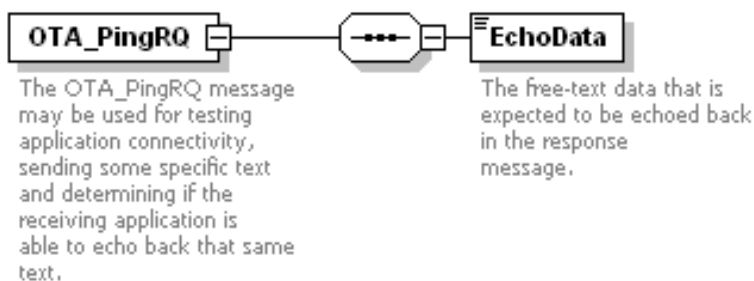
Figure 14. OTA_ PingRQ Schema

12.1 OTA_PingRQ Elements and Attributes

The supported attributes and elements for this request are shown in the following table.

<table>
<tr><th colspan="6">Table 19. OTA_PingRQ Elements and Attributes</th></tr>
<tr><th>Level</th><th>Name</th><th>Type</th><th>Occurs</th><th>Required</th><th>Comments</th></tr>
<tr><td>0</td><td>OTA_PingRQ</td><td></td><td>1</td><td></td><td></td></tr>
<tr><td>1</td><td>EchoData</td><td></td><td>1</td><td></td><td></td></tr>
</table>

The following is an example of a request.

```
<OTA_PingRQ TimeStamp="2008-03-16T19:22:26.08" Target="Production" Version="3.0" PrimaryLan-
gID="en-us" xmlns="http://www.opentravel.org/OTA/2003/05">
  <EchoData>Hello World</EchoData>
</OTA_PingRQ>
```
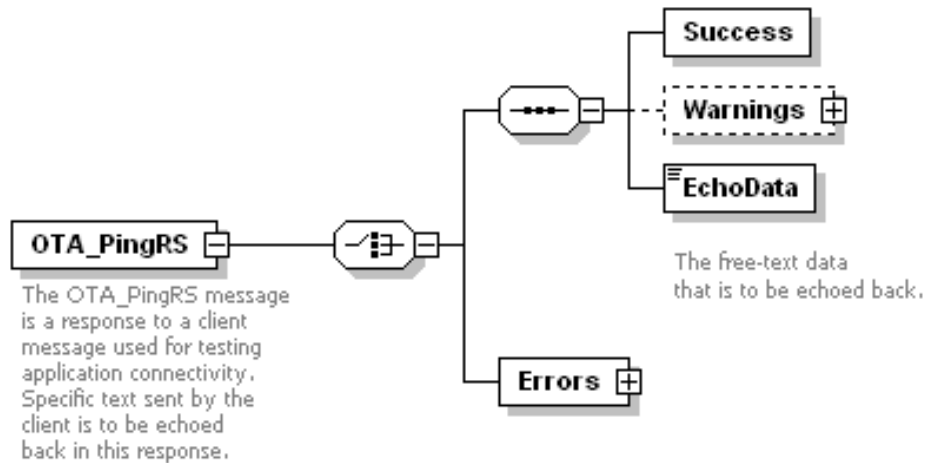
Figure 15. OTA_ PingRS Schema

12.2 OTA_PingRS Elements and Attributes

The elements and attributes supported by the Transaction Exchange shown below.

Level	Name	Type	Occurs	Required	Comments
	Table 20. OTA_PingRS Elements and Attributes				
0	**OTA_PingRS**		1		
1	**EchoData**		1		

The following is an example of a response.

```
<OTA_PingRS xmlns="http://www.opentravel.org/OTA/2003/05" Target="Test" PrimaryLangID="en-us"
Version="3.0" TimeStamp="2008-03-16T20:22:26.24-05:00">
<Success />
  <EchoData>Hello World</EchoData>
</OTA_PingRS>
```

13   WSDL

13.1 Introduction

The Web Services Definition Language (WSDL) is an XML format for describing web services and how to access them. It specifies the location of the service and the operations (or methods) the service exposes. This section explains how the WSDL's are created for services based on Open Travel Alliance (OTA) XML schema specifications.

"Contract-first" style of service design is followed for maximum service interoperability. Contract-first design can be considered akin to "interface-first" design, whereby the service interface is designed *before* development begins rather than generated from code. The WSDL files will greatly reduce time and complexity of consuming web services thus helping OTA implementers to quickly develop/automatically generate client applications.

13.2 WSDL Definition

A WSDL file defines services as collections of network endpoints, or ports. The protocol and data format specification for a particular port type constitutes a reusable binding. A port is defined by associating a network address with a reusable binding, and a collection of ports define a service. Hence, a WSDL file uses the following elements in the definition of network services:

- Types– a container for data type definitions using some type system (such as XSD).

- Message–definition of the data being communicated.

- Operation–description of an action supported by the service.

- Port Type–set of operations supported by one or more endpoints.

- Binding–protocol and data format specification for a particular port type.

- Port– a single endpoint defined as a combination of a binding and a network address.

- Service– a collection of related endpoints.

13.3 HTE WSDL

WSDL is logically divided into two files, namely the interface definition wsdl file and the binding implementation wsdl file. The interface definition wsdl file describes data types and messages supported by the service. The implementation binding wsdl file defines the implementation specifics such as the transport and binding information for a given service. T*hese files including the schemas are bundled into a zip file together with sample SOAP request xml files as an XMLSpy project that can be emailed to you upon request from Hilton.* The

WSDL files are organized into the following three components:

- XML schemas are placed in separate files.

- WSDL message abstractions are placed in a separate interface definition wsdl file.

- Service bindings are placed in a separate implementation binding wsdl file.

How import is leveraged here:

- Service bindings import the message definitions

  - Uses <wsdl:import> to import definitions

- Message definitions import the schemas

  - Uses <xs:import> to import definitions

Figure 16. Schema\WSDL Modular Design

The key benefits of this modular WSDL design:

- Fits model where XSD/WSDL are created independently.

- Easier to manage and maintain.

- Addresses situations where XML schemas already exist.

- Increases reusability of schemas across projects.

13.3.1 Interface Definition WSDL file

The interface definition wsdl file refers only to the data types and message operations already defined by HTE schemas. Each of the interface definition wsdl file imports a unique combination of HTE message schemas.

The sample below shows an interface definition wsdl file for a Hotel Search message. While the HTE schemas themselves can be included in the <types> section of the WSDL, the schemas have been imported (referenced) in order to reduce the size and complexity of the WSDL, and to adhere to modular WSDL design. In the example below, the import element is qualified as "xs:import" where the xs: prefix is associated with the W3C schema namespace. The WSDL specification allows for importing of both schema files and other WSDL files. Since in this case the imported file is a schema, the WS-I recommends that the "import" element be qualified with a namespace prefix indicating that the import statement refers to the W3C schema xs:import rather than a WSDL wsdl:import.

13.3.1.1   Interface Definition WSDL file components

The interface definition WSDL file is comprised of the following parts.

- **Definitions** - The wsdl:definitions element is the root element of a WSDL file and defines the name of the web service in addition to serving as a container for the other WSDL sections. Additionally, all namespaces used within the WSDL file are declared here.

- **Types** - The wsdl:types element describes all the data types used in the message request and response payload. The request and response message payloads for document literal services are defined in this section by referencing the appropriate XML schemas. The request and response payload are SOAP formatted XML messages. The HTE request payload contains a SOAP header which is also defined in this section.

- **Message** - The wsdl:message element describes a single request or response message. It defines the name of the message and contains three message part elements, representing SOAP header, request and response. The SOAP header, request and response messages are defined by referencing appropriate XML schema(s) from the wsdl:types section of the WSDL.

- **PortType** - The wsdl:portType element combines multiple wsdl:message elements to form a complete round-trip operation. A portType combines one request and one response message into a single request/response operation

Below is an example of an interface definition WSDL file.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ota="http://www.opentravel.org/OTA/2003/05 "
    xmlns:ns="http://schemas.xmlsoap.org/soap/encoding/"
    targetNamespace="http://www.opentravel.org/OTA/2003/05"
    name="HotelSearchService" >

<wsdl:types>
    <! -- The datatypes used in the message request and response payload-->
    <xs:schema>
        <! -- Import OTA Schema for Hotel Search Request (OTA_HotelSearchRQ) -->
        <xs:import namespace="http://www.opentravel.org/OTA/2003/05"
schemaLocation="OTA_HotelSearchRQ.xsd"/>
        <!-- Import the SOAP header to be added to the Request Payload -->
        <xs:import namespace="http://www.opentravel.org/OTA/2003/05"
schemaLocation="OTA_SoapHeader.xsd"/>
    </xs:schema>

    <xs:schema>
        <!-- Import OTA Schema for Hotel Search Response (OTA_HotelSearchRS) -->
        <xs:import namespace="http://www.opentravel.org/OTA/2003/05"
                schemaLocation="OTA_HotelSearchRS.xsd"/>
    </xs:schema>
</wsdl:types>

<wsdl:message name="SoapHeader">
    <wsdl:part name="Interface" element="ota:Interface"/>
</wsdl:message>
<wsdl:message name="HotelSearchRequest">
```

```
                <!-- The Request(OTA_HotelSearchRQ) message used by the web service. -->
                <wsdl:part name="OTA_HotelSearchRQ" element="ota:OTA_HotelSearchRQ"/>
        </wsdl:message>

        <wsdl:message name="HotelSearchResponse">
                <!-- The Response(OTA_HotelSearchRS) message returned by the web service. -->
                <wsdl:part name="OTA_HotelSearchRS" element="ota:OTA_HotelSearchRS"/>
        </wsdl:message>

<wsdl:portType name="HotelSearchPortType">
        <!-- OTAHotelSearch is the single request/response operation that can be performed by the
web service. The input and output messages that are involved are HotelSearchRequest and Ho-
telSearchResponse -->
        <wsdl:operation name="OTAHotelSearch">
            <wsdl:input message="ota:HotelSearchRequest"/>
            <wsdl:output message="ota:HotelSearchResponse"/>
        </wsdl:operation>
    </wsdl:portType>
</wsdl:definitions>
```

13.3.2 Binding Implementation WSDL file

This section describes the SOAP based binding implementation WSDL files. The binding implementation WSDL is a separate document referencing the interface definition WSDL. The referenced WSDL file should be imported as shown in the example below. It should be noted that the "import" element in this WSDL refers to the "WSDL" namespace rather than the "schema" namespace. The "import" element is explicitly qualified with a pre-defined 'wsdl:' prefix.

13.3.2.1   Binding Implementation WSDL file components

The binding implementation WSDL file is comprised of the following parts

- **Binding** - The wsdl:binding element specifies how the service is implemented using SOAP. The WSDL recommendation includes built-in extensions for defining SOAP services. Therefore, SOAP-specific information is defined within the wsdl:binding element.

- **Service** - The wsdl:service element defines the Internet Protocol (IP) address for invoking the specified service. This includes a resolvable URL for invoking the service.

Below is an example of a binding implementation WSDL file.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:ota="http://www.opentravel.org/OTA/2003/05"
xmlns:ns="http://schemas.xmlsoap.org/soap/encoding/" name="HotelSearchService"
targetNamespace="http://www.opentravel.org/OTA/2003/05">

    <!-- Import Interface Definition WSDL file -->
<wsdl:import namespace="http://www.opentravel.org/OTA/2003/05"
location="OTAHotelSearchInf.wsdl"/>

    <wsdl:binding name="HotelSearchBinding" type="ota:HotelSearchPortType">
        <!-- The binding technique used is SOAP -->
```

```
<soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
        <!-- The operation is document-oriented -->
        <wsdl:operation name="OTAHotelSearch">
            <soap:operation soapAction="OTA_HotelSearchRQ"/>
            <!-- "literal" is used to include OTA XML schema as is-->
            <wsdl:input>
                <!-- Soap Header to be added to the payload -->
                <soap:header message="ota:SoapHeader" part="Interface" use="literal"
namespace="http://www.opentravel.org/OTA/2003/05"/>
                <soap:body use="literal" namespace="http://www.opentravel.org/OTA/2003/05"/>
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" namespace="http://www.opentravel.org/OTA/2003/05"/>
            </wsdl:output>
        </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="OTAHotelSearchService">
        <wsdl:port name="HotelSearchPort" binding="ota:HotelSearchBinding">
            <!-- Specifies the IP address for invoking the specified service -->
            <soap:address location="https://htestg.hilton.com:11201/ota/OTA.pl"/>
        </wsdl:port>
    </wsdl:service>
</wsdl:definitions>
```

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Appendix A. Constants

The following Hilton-specific constant values should be used. For OTA-specified constants, see the 2004B OTA specification code table. Hilton-specific constants are also available on our API Developer Hub: [Code Mappings | Hilton Dev Portal for documentation](#)

A.1	Hilton Payment/Guarantee Codes

PaymentCode	Description
FP	FULL PREPAYMENT NO CXL
CC	CREDIT CARD GUARANTEE
TA	GUARANTEE TO TRAVEL AGENT
CD	CREDIT CARD DEPOSIT
CO	GUARANTEE TO COMPANY (HCRS)
CR	GUARANTEE TO COMPANY (PCRS)
4P	4PM HOLD NOTE: Rarely used, and exception approval required. Not listed on the Developer Hub
6P	6PM HOLD NOTE: Rarely used, and exception approval required. Not listed on the Developer Hub

A.2   Hilton Brand Codes – Please refer to the [Code Mappings](#) page on the API Developer Portal for a list of current brand codes.

A.3   OTA Code List Error Warning Type (EWT) – 2004B Specification

Code	Name	Description
1	Unknown	Indicates an unknown error
2	No implementation	Indicates that the target business system has no implementation for the intended request.
3	Biz rule	Indicates that the XML message has passed a low-level validation check, but that the business rules for the request message were not met.
4	Authentication	Indicates the message lacks adequate security credentials

A.3 OTA Code List Error Warning Type (EWT) – 2004B Specification

Code	Name	Description
5	Authentication timeout	Indicates that the security credentials in the message have expired
6	Authorization	Indicates the message lacks adequate security credentials
7	Protocol violation	Indicates that a request was sent within a message exchange that does not align to the message
8	Transaction model	Indicates that the target business system does not support the intended transaction-oriented operation
9	Authentical model	Indicates the type of authentication requested is not recognized
10	Required field missing	Indicates that an element or attribute that is required by the schema (or required by agreement between trading partners) is missing from the message

A.4 Hilton Meal Plan Codes – Please refer to the Code Mappings page on the API Developer Portal for a list of current meal plan codes.

A.5 Hilton Booking Codes

Code	Name	Description
BAR	Best Available Rate	This rate is the lowest published rate for the day or days associated with the stay for the room type selected at the property.
CORPORATE	Corporate Rate	Corporate rates are those rates that are available only to the specific company at the hotel for a specific room type. These may be static or floating depending on how the rate for the company has been configured for the specific hotel.
CHAINWIDE	Chainwide Rate	Client specific corporate booking discount.
LEISURE	Leisure Rate	Each brand has a specific set of leisure rates that are available to the general public. These rates may differ from BAR but will also have specific amenities or options associated with the rate - for example, free breakfast or a food and beverage credit.
MEMBERSHIP	Membership Rate	Typically this includes AAA and AARP rates only. Brands may choose to include additional rate plans in this category in the future.

A.5   Hilton Booking Codes

Code	Name	Description
ADV PURCHASE	Advance Purchase	Internet rates that require full pre-payment at time of booking. These rates may be lower than BAR but do not allow cancellation after booking.

A.6 Hilton Room Amenity Codes

Code	Name	Description	Usage
0	One Bed	Indicates that the room has one bed regardless of the bed type.	May be returned in HotelAvailRS but cannot be requested. Can be requested in HotelResRQ and HotelResModifyRQ.
1	Two Beds	Indicates that the room has two beds regardless of the bed type.	May be returned in HotelAvailRS but cannot be requested. Can be requested in HotelResRQ and HotelResModifyRQ.
2	Suite	Indicates the room is classified as a suite.	May be returned in HotelAvailRS but cannot be requested.
3	Executive	Indicates the room is classified as an executive room.	May be returned in HotelAvailRS but cannot be requested.
4	Towers	The location of the room is a tower in the hotel.	May be returned in HotelAvailRS but cannot be requested.
5	Accessible	The room is handicapped-accessible.	May be returned in HotelAvailRS but cannot be requested.
6	Smoking	Indicates the room is a smoking room.	Can be requested in HotelAvailRQ, HotelResRQ and HotelResModifyRQ.
7	Non-smoking	Indicates the room is a non-smoking room.	Can be requested in HotelAvailRQ, HotelResRQ and HotelResModifyRQ.
8	Meal Plan	Indicates there is a meal plan code associated with the room stay.	May be returned in HotelAvailRS but cannot be requested.
9	Extra Bed	This value can be sent in OTA_HotelAvailRQ to request for rooms that support a rolla-way or crib.	Can be requested in HotelAvailRQ.
10	Rollaway	This value can be used in OTA_HotelResRQ to request for a rollaway.	Can be requested in HotelResRQ and HotelResModifyRQ.
11	Crib	This value can be used in OTA_HotelResRQ to request	Can be requested in HotelResRQ and HotelResModifyRQ.

		for a crib.	
12	First Floor	Room is located on the first floor.	May be returned in HotelAvailRS. Can-not be requested.
13	Extra Guest(s)	This room allows an extra guest(s).	May be returned in HotelAvailRS. Can-not be requested.
14	Connecting	Indicates a connecting room.	May be returned in HotelAvailRS. Can-not be requested.

A.7 Hilton Chain Code Vs. Brand Code Mapping – Please refer to the Code Map-pings page on the API Developer Portal for a list of current brand code mappings.

Appendix B. References

The following documents and publications are referenced in this document:

SOAP 1.1 Specification http://www.w3.org/TR/2000/NOTE-SOAP-20000508/

HTTP 1.1 Status Codes http://www.w3.org/Protocols/HTTP/HTRESP.html

IATA codes http://www.iata.org

ISO 4217 Currency Codes http://www.id3.org/iso4217.html

OTA 2004B Specification http://www.opentravel.org/2004B/

XML 1.0 Specification http://www.w3.org/TR/2004/REC-xml-20040204/

Appendix C. Acronyms and Abbreviations

The following acronyms and abbreviations are used in this document:

HTE   Hilton Transaction Exchange

HTTP   HyperText Transfer Protocol

IATA   International Air Transportation Code

OTA   Open Travel Alliance

SOAP   Simple Object Access Protocol

TLS   Transport Layer Security

WSDL   Web Services Definition Language

XML   Extensible Markup Language

XSD   XML Schema Definition

Appendix D. Best Practices and Frequently Asked Questions (FAQ)

Listed below are best practices and some frequently asked questions regarding HTE errors, development, troubleshooting, and connectivity.   Click on the question to go an answer.

Connectivity Error Messages – If you receive one or more of the following errors, please verify the IP address you are using is within the IP range that you originally provided us.   Many times a client may undergo network changes during the development process and be attempting to use an IP address that has not been previously authenticated against the Hilton firewalls.

- Request timed out.
- Http status: 403 Forbidden.
- FaultString: javax.net.tls.TLS HandshakeException. Received fatal alert: handshake_failure.
- There is no error or there is no response from our server or the connection is refused.

Verify with your network engineers that your IP addresses/proxy servers are allowing connection to Hilton on port 11201 only. In some instances, client networks have translated the https request to other incorrect ports, i.e. 80.

If you discover that your IP address is not within the range you provided to Hilton, please let us know immediately following the process noted on the Developer Portal Production Support page. Adding an IP range to Hilton firewalls typically takes 5 to 7 working days due to our stringent security policies.

Certificate Related Error Messages – HTE requires a signed Verisign certificate. If you encounter any of the errors below, please verify that a Verisign certificate has been loaded into your TLS library. See the Developer's Guide, page 8, for additional information.
- Certificate Expired -or- Certificate Does Not Match
- sun.security.validator.ValidatorException: No trusted certificate found.

Additional Connectivity Test – If all the above problems have been ruled out or corrected, please perform the test(s) below. This test will help us determine if the issue is on your end or our end.

From your box do one of the following:

- **wget https://htestg.hilton.com:11201/ota/Canned.pl (For HTE Canned)**
- **wget https://htestg.hilton.com:11201/ota/OTA.pl (For HTE Staging)**
- **wget https://hte.hilton.com:11201/ota/OTA.pl (For HTE Prod)**

The correct response from us should be -

```
wget https://hte.hilton.com:11201/ota/OTA.pl
  https://hte.hilton.com:11201/ota/OTA.pl
       => `OTA.pl'
Resolving hte.hilton.com... done.
Connecting to hte.hilton.com[192.251.124.81]:11201... connected.
HTTP request sent, awaiting response... 411 Length Required
ERROR 411: Length Required
```

If you get the following, please contact us immediately with the IP address from where you did the above test and date when you performed this test. This will help us research our firewall logs and analyze the issue.

```
wget https://hte.hilton.com:11201/ota/OTA.pl
  https://hte.hilton.com:11201/ota/OTA.pl
  => `OTA.pl'
Resolving hte.hilton.com... done.
Connecting to hte.hilton.com[192.251.124.81]:11201... connected.

Unable to establish TLS connection
```

Element Prefixes – Some development tools will insert a namespace prefix such as "**:ns1**" or "**:element**" at the beginning of each element. HTE does not accept any leading element prefixes. Some of our clients have found helpful information regarding namespace prefixes at this Java Forum location: http://forum.java.sun.com/thread.jspa?threadID=697876&tstart=75

Appendix E. HTE Incident Tracking Form

No longer used.

Appendix F. HTE Transaction Errors

Please refer to the Error Reference Guide on the API Developer Portal.

Appendix G. Version 3.0 Developers Guide Record of Changes

G.1   Reelase Version 4.0 Updates – June 2023

Updated title page to clarify this is the HTE2 guide.

Removed the brand code table and added reference to the Dev Portal. Same for Error codes.

Removed HTE Support email and added link to Dev Portal Production Support page.

Addressed all comments from prior version.

Removed "Hilton Proprietary and Confidential Materials" footer as this file is designed to be shared with partners.

G.2   Release Version 3.0 Updates

- **Title page and footnote**
    - o   Updated Hilton logo and brand images on title page. (11-3-17)
    - o   Updated Hilton name and date on footnote. (11-3-17)
- **Chapter 1 – Introduction**
    - o   Updated Technical Support information to include after hours instructions and phone numbers. (11-6-17)
- **Chapter 2 – Messaging Protocol**
    - o   Corrected the SOAP example in Section 2.3. (5-21-08)
    - o   Updated Section 2.5 to reflect current security protocol to Transport Layer Security (TLS).   (02-21-17)
- **Chapter 4**
    - o   Added reference to Appendix F Error Messages to section 4.12 (9-20-16)
- **Chapter 5 - OTA_HotelSearch**
    - o   Updated HotelSearchRQ examples with correct date format.
    - o   Changed the value in the Occurs column for element Property in the OTA_HotelSearchRS Elements and Attributes table.
    - o   Updated HotelSearchRS examples with correct date format. Corrected Warning attribute format.
- **Chapter 6 - OTA_HotelAvail**
    - o   Changed the value in the Occurs column for element Warning in the OTA_HotelAvailRS Elements and Attributes table.
    - o   Changed the value in the Occurs and Required column for element PaymentPolicies in the OTA_HotelAvailRS Elements and Attributes table.
    - o   Changed the value in the Occurs column for element Tax in the OTA_HotelAvailRS Elements and Attributes table.
    - o   Update all the OTA_HotelAvailRS examples.

- o Corrected the RateMode values in OTA_HotelAvailRS Elements and Attributes table. (5-21-08)
- o Corrected Comments for AdditionalGuestAmounts element in Table 9. (7-09-08)
- o Added note about meal plan not being returned in a multi prop response. (7-09-13)
- o Expanded definition of AmountBeforeTax and AmountAfterTax. (8-4-21)

- **Chapter 7 - OTA_HotelRes**
  - o Updated OTA_HotelResRQ example 1.
  - o Changed the value in the Occurs column for element Tax in the OTA_HotelResRS Elements and Attributes table.
  - o Changed the value in the Occurs and Required column for element Guarantee in the OTA_HotelResRS Elements and Attributes table.
  - o Changed the value in the Required column for attribute ResID_Type in the OTA_HotelResRS Elements and Attributes table.
  - o Updated comment for CardCode attribute in ResRQ: changed Table 12 to Table 11. Added uppercase comment. (10-14-10)
  - o Removed comments regarding Initiate from RQ and RS. (Oct 2012)
  - o Added max character limit to GivenName, SurName, and AddressLine.
  - o Secured credit card number. (Mar 2016)
  - o Expanded definition of AmountBeforeTax and AmountAfterTax. (8-4-21)

- **Chapter 8 - OTA_HotelResModify**
  - o Updated OTA_HotelResModifyRQ example 1.
  - o Changed the value in the Occurs column for element Tax in the OTA_HotelResModifyRS Elements and Attributes table.
  - o Secured credit card number. (Mar 2016)
  - o Expanded definition of AmountBeforeTax and AmountAfterTax. (8-4-21)

- **Chapter 10 - OTA_Cancel**
  - o Removed the line "If you need to cancel a 'segement' of a reservation…." since in HTE 3.0 only one room can be booked per OTA_HotelRes transaction.
  - o Added additional information regarding the correct use of the UniqueID ID attribute in the OTA_CancelRQ Elements and Attributes table. (5-21-08)

- **Chapter 11 - OTA_HotelDescriptiveInfo**
  - o Added the element HotelInfo->CategoryCodes (01-24-12)
- **Appendix E**
  - o Deleted the imbedded incident form and inserted it as an attachment to the PDF file.

- **Appendix F**
  - Added "HTE Transaction Errors" as Appendix F (09-20-16)
  - Updated. (10-27-16)
  - Updated. (11-15-16)
  - Updated. (10-10-18)
- **Appendix G**
  - Record of Changes moved from Appendix F to Appendix G.
- **Table A.4 Hilton Meal Plan Codes**
  - Added note about meal plan not being returned in a multi prop response. (7-09-13)
  - Added meal plan "Q" – breakfast, lunch, and dinner. (12-10-13)
  - Added note about PCRS not using meal plan codes. (10-10-18)
  - Added "1 - American Breakfast" (04-06-21)
- **Table A.2 Hilton Brand Codes**
  - Added Home2 brand. (2-14-14)
  - Added Curio and Canopy brands. (10-31-14)
  - Added Tru brand. (09-15-16)
  - Added Tapestry brand. (11-14-17)
  - Added Motto and Signia brands. (3-14-19)
  - Added new brand OL. (9-19-19)
  - Removed table. (28 Jul 2022. Onika Huggins)
- **Table A.6 Hilton Amenity Codes**
  - Updated table; added Usage column; added back codes 12-14. (3-29-18)
- **Table A.7 Hilton Chain Code vs. Brand Code Mapping**
  - Added new brand HT. (4-29-13)
  - Added new brands QQ and UP. (3-22-18)
  - Added new brands UA and SA. (3-14-19)
  - Added new brand OL. (9-19-19)
  - Added brand names to this table. (28 Jul 2022. Onika Huggins)

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