WebReserv
Web Services API
Updated June 29, 2010
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1 Introduction

The WebReserv Web Services (WWS) provides developers with direct access to WebReserv’s booking platform. WebReserv Web Services enables you to build solutions that interact with WebReserv.com and WebReserv.eu.

The WebReserv Web Services is available for premium account holders (Silver, Gold, Multi-Location and Enterprise).
## 2 Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/14/08</td>
<td>Added product descriptions to the ProductList.</td>
</tr>
<tr>
<td>9/25/08</td>
<td>BusinessID has been moved to the request structure</td>
</tr>
<tr>
<td>03/21/09</td>
<td>Improved support for languages</td>
</tr>
<tr>
<td>09/15/09</td>
<td>Added support for multi reservations</td>
</tr>
<tr>
<td>11/22/09</td>
<td>Added support for get and set availability</td>
</tr>
</tbody>
</table>
3 Service Information

3.1 API Key

All service invocations must include an API key. The API key must be provided as part of the service request and ensures that the service consumer is allowed to perform the service. Note that different API keys must be used for secure and unsecure transactions.

API keys can be requested from WebReserv support.

3.2 Service URL

All WebReserv services are invoked as HTTP Post. The service URL are

<table>
<thead>
<tr>
<th>Host</th>
<th>Type</th>
<th>URL</th>
</tr>
</thead>
</table>

Secure services, such as GetReservations or GetAvailability must be invoked using the secure URL (https/port 443). If these services are requested using a standard HTTP request, the service will be terminated with an error message.

3.3 Data Types

All information is returned as UTF-8.

3.4 Date/Time format

All date/time fields are encoded in the following format:

YYYY-MM-DD HH:MM:SS GMT

For example, September 1st, 2008 at 5:17 PM EST is encoded as

2008-09-01 22:17:00 GMT
4 Services

4.1 Service Catalog

The following services are provided by the WebReserv Web Services API:

<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProductList</td>
<td>Returns a list of products for a specific business location</td>
</tr>
<tr>
<td>BusinessInformation</td>
<td>Returns business information (name, description etc.) for a specific business location</td>
</tr>
<tr>
<td>Reservations</td>
<td>Returns reservations for a specific business location</td>
</tr>
<tr>
<td>Availability</td>
<td>Returns availability for a specific business location and product</td>
</tr>
<tr>
<td>UpdateAvailability</td>
<td>Updates availability for a specific business location</td>
</tr>
</tbody>
</table>
4.2 Request and Response

The Request and Response elements are the parent elements for other elements. A valid XML service request must contain only one Request element and only one Response element will be returned.

4.2.1 Request

The Request is the top-most element and parent for all service requests. It allows one or more service requests to be embedded in the Request element.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BusinessID</td>
<td>Contains the alphanumeric business identifier (BusinessID).</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>APIKey</td>
<td>Contains the API key or secure API key</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Language</td>
<td>Indicates the requested language for the response messages. This setting can be used to return name, descriptions etc. in different languages. Default is “en”</td>
<td>String</td>
<td>N</td>
</tr>
<tr>
<td>GetBusinessInformation</td>
<td>Child element for business information request</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>GetProductList</td>
<td>Child element for product list request</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>GetReservations</td>
<td>Child element for reservations request</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>GetAvailability</td>
<td>Child element for availability request</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>SetAvailability</td>
<td>Child element for availability update</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
</tbody>
</table>

Multiple services requests (GetBusinessInformation, GetProductList etc) may be embedded in a single service request.

4.2.2 Response

The Response element is the top-most element and parent for all service responses. It allows one or more service responses to be embedded in the Response element.
<table>
<thead>
<tr>
<th><strong>Element</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Reqd.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>BusinessInformation</td>
<td>Contains business information (if requested)</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>ProductList</td>
<td>Contains product list</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>Error</td>
<td>Contains error(s) that occurred for any reason, including invalid data</td>
<td>String</td>
<td>N</td>
</tr>
<tr>
<td>SystemMessage</td>
<td>Contains messages(s) pertaining to the operation of WebReserv WebServices API</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
</tbody>
</table>

### 4.2.3 Example

**Request**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
  <BusinessID>MyBusinessID</BusinessID>
  <APIKey>MyAPIKey</APIKey>
  <Language>en</Language>
  <GetProductList/>
</Request>
```

**Response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Response>
  <ProductList>
    <Language>en</Language>
    <Product>
      <ProductID>1928</ProductID>
      <Name>Standard double</Name>
      <Unit>
        <UnitID>1000</UnitID>
        <Name>Room 202</Name>
      </Unit>
    </Product>
    <Product>
      <ProductID>5</ProductID>
      <Name>Standard single</Name>
      <Unit>
        <UnitID>1002</UnitID>
        <Name>Room 101</Name>
      </Unit>
    </Product>
  </ProductList>
</Response>
```
<Unit>
   <UnitID>1024</UnitID>
   <Name>Room 102</Name>
</Unit>

<Product>
   <ProductID>7</ProductID>
   <Name>Suite</Name>
   <Unit>
      <UnitID>45718</UnitID>
      <Name>Room 410</Name>
   </Unit>
</Product>
</ProductList>
</Response>
4.3 Business Information

The Business Information service provides top-level information about a business. This is the information that is displayed in on WebReserv.com, when a customer views the specified business.

The Business Information consists of a `GetBusinessInformation` request element and a `BusinessInformation` response element.

4.3.1 GetBusinessInformation

GetBusinessInformation is used to retrieve the business description for a business location.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.3.2 BusinessInformation

The Business Information element contains the result of a `GetBusinessInformation` request element.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BusinessID</td>
<td>Contains the alphanumeric business identifier (BusinessID).</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Language</td>
<td>Contains the language of the returned information</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Name</td>
<td>Contains the business name</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Address 1</td>
<td>Contains the first address line</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Address 2</td>
<td>Contains the second address line</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>City</td>
<td>Contains the city</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>State</td>
<td>Contains the state name</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Country</td>
<td>Contains the country name</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Phone</td>
<td>Contains the phone number</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Description</td>
<td>Contains the description of this business</td>
<td>String</td>
<td>Y</td>
</tr>
</tbody>
</table>
4.3.3 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
    <BusinessID>MyBusinessID</BusinessID>
    <APIKey>MyAPIKey</APIKey>
    <Language>en</Language>
    <GetBusinessInformation/>
</Request>
```

Response

```xml
<Response>
    <BusinessInformation>
        <BusinessID>DCSA</BusinessID>
        <Language>en</Language>
        <Name>Casa Deco</Name>
        <Address1>9680 Coconut Road</Address1>
        <City>Miami</City>
        <State>Florida</State>
        <Country>United States</Country>
        <Phone>819-561-1300</Phone>
        <Description>The Casa Deco is a new, european-influenced hotel located in the historic Art-Deco district of Miami. Casa Deco is just blocks away from the best shopping and dining district of Miami. Our name says it all. Our rooms are modern with Italian furniture, TV-on-demand, Internet access and 24-hour room service. Stereo and CD players are available in our suites, and the exclusive downstairs-upstairs bar is the place to meet famous people. Don't miss the opportunity to stay at this unique hotel when visiting Miami....</Description>
        <LastModified>2008-08-05 00:43:06 GMT</LastModified>
    </BusinessInformation>
</Response>
```

Tip:

Use the LastModified field to determine if the BusinessInformation has changed since the last service invocation.
4.4 Product List

The Product List service provides top-level product information about a business. This is the products that are displayed in on WebReserv.com, when a customer views the specified business.

The Product List service consists of a `GetProductList` request element and a `ProductList` response element.

4.4.1 GetProductList

Returns a list (i.e. rooms / cars / airplanes etc.) of products for the specified business.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncludeDescriptions</td>
<td>Designates if product descriptions should be included in the result. Specify <code>true</code> to have product descriptions included.</td>
<td>String</td>
<td>N</td>
</tr>
</tbody>
</table>

4.4.2 ProductList

Returns a list (i.e. rooms / cars / airplanes etc.) of products for the specified business.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>Contains the language of the returned information</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Product</td>
<td>Child element that consists of two elements, ProductID and Name. If IncludeDescriptions was set to <code>true</code>, descriptions will be returned as well.</td>
<td>Child element(s)</td>
<td>Y</td>
</tr>
<tr>
<td>Unit</td>
<td>One or more child elements containing the system generated ID for each unit and the name of the unit</td>
<td>Child Element(s)</td>
<td>Y</td>
</tr>
</tbody>
</table>

4.4.3 Example

**Request**

```xml
<Request>
  <BusinessID>MyBusinessID</BusinessID>
  <APIKey>MyAPIKey</APIKey>
  <Language>en</Language>
  <GetProductList>
</GetProductList>
```
Response

<?xml version="1.0" encoding="UTF-8"?>
<Response>
  <ProductList>
    <Language>en</Language>
    <Product>
      <ProductID>1928</ProductID>
      <Name>Standard double</Name>
      <Unit>
        <UnitID>1000</UnitID>
        <Name>Room 202</Name>
      </Unit>
    </Product>
    <Product>
      <ProductID>1001</ProductID>
      <Name>Room 203</Name>
    </Unit>
  </Product>
  <Product>
    <ProductID>5</ProductID>
    <Name>Standard single</Name>
    <Unit>
      <UnitID>1002</UnitID>
      <Name>Room 101</Name>
    </Unit>
  </Product>
  <Product>
    <ProductID>7</ProductID>
    <Name>Suite</Name>
    <Unit>
      <UnitID>45718</UnitID>
      <Name>Room 410</Name>
    </Unit>
  </Product>
  </ProductList>
</Response>
4.5 Reservations

The Reservations service enables a client to download new and changed reservations. The reservation information provided by this service is similar to the information that can be used when logged in to the Reservation Management System.

The Reservation service consists of a GetReservations request element and a Reservations response element.

Note:

All WebReserv Reservations services are secure. That is, they may only be invoked using HTTPS and a secure API key must be presented in the request. An exception condition will be raised if the reservations service is invoked using an insecure connection or without the appropriate secure API key.

4.5.1 GetReservationList

GetReservationList is used to retrieve the reservations for the specified business location.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Req'd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BookingStartDateDateTime</td>
<td>The time of reservation start date and time for which reservations is to be retrieved</td>
<td>GMT DateTime</td>
<td>Y *</td>
</tr>
<tr>
<td>BookingEndDateDateTime</td>
<td>The time of reservation end date and time for which reservations is to be retrieved</td>
<td>GMT DateTime</td>
<td>Y *</td>
</tr>
<tr>
<td>ReservationStartDateDateTime</td>
<td>The start date and time for which reservations is to be retrieved</td>
<td>GMT DateTime</td>
<td>Y *</td>
</tr>
<tr>
<td>ReservationEndDateDateTime</td>
<td>The end date and time for which reservations is to be retrieved</td>
<td>GMT DateTime</td>
<td>Y *</td>
</tr>
<tr>
<td>Filter</td>
<td>Specifies what reservations to retrieve. Valid options are ALL, CONFIRMED, PENDING, CANCELLED, DECLINED</td>
<td>String</td>
<td>Y</td>
</tr>
</tbody>
</table>

Note: Either BookingStartDateDateTime and BookingEndDateDateTime OR ReservationStartDateDateTime and ReservationEndDateDateTime must be specified. Missing or invalid start/end date/times will result in 0 records being returned.

4.5.2 ReservationList

The Reservation List element contains the result of a GetReservationList request element.
<table>
<thead>
<tr>
<th><strong>Element</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Reqd.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservation</td>
<td>Contains zero, one or more reservations</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
</tbody>
</table>

### 4.5.3 Reservation

The Reservation element contains the element of a single reservation. One or more Reservation elements may be included in the ReservationList.

<table>
<thead>
<tr>
<th><strong>Element</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Reqd.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ReservationCode</td>
<td>Contains the unique reservation code</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Status</td>
<td>Contains the status of this reservation. Valid options are PENDING, CONFIRMED,</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>REJECTED, CANCELLED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserved</td>
<td>Contains the date and time for when this reservation was made</td>
<td>GMT Date Time</td>
<td>Y</td>
</tr>
<tr>
<td>LastModified</td>
<td>Contains the date and time for when this reservation was last modified</td>
<td>GMT Date Time</td>
<td>Y</td>
</tr>
<tr>
<td>ReservationDetails</td>
<td>Contains the reservation details. Note that future versions of WebReserv may include multiple Reservation Details entries.</td>
<td>Child element(s)</td>
<td>Y</td>
</tr>
<tr>
<td>Customer</td>
<td>Contains the customer details.</td>
<td>Child element</td>
<td>Y</td>
</tr>
<tr>
<td>RateCalculation</td>
<td>Contains rate calculation and summary payment information</td>
<td>Child element</td>
<td>Y</td>
</tr>
<tr>
<td>Payment</td>
<td>Contains zero, one or more payment records</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
<tr>
<td>Comments</td>
<td>Contains comments from the customer (if any)</td>
<td>String</td>
<td>N</td>
</tr>
</tbody>
</table>

### ReservationDetails

The Reservation Details element describes the reservation details (product, start, end etc) for one reservation.

<table>
<thead>
<tr>
<th><strong>Element</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Reqd.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ProductID</td>
<td>Contains the ID for this product type</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>StartDateTime</td>
<td>Contains the start date and time for this reservation</td>
<td>Local Date Time</td>
<td>Y</td>
</tr>
<tr>
<td>EndDateTime</td>
<td>Contains the end date and time for this reservation</td>
<td>Local Date Time</td>
<td>Y</td>
</tr>
<tr>
<td>NoUnits</td>
<td>Contains the number of units reserved (i.e. rooms)</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>NoAdults</td>
<td>Contains the number of adults for this reservation.</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>NoChildren</td>
<td>Contains the number of children for this reservation</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>Unit</td>
<td>One or more child elements containing the</td>
<td>Child element</td>
<td>Y</td>
</tr>
<tr>
<td>Element</td>
<td>Description</td>
<td>Type</td>
<td>Reqd.</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>-------</td>
</tr>
<tr>
<td>FirstName</td>
<td>Contains the first name for this customer</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>LastName</td>
<td>Contains the last name for this customer</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Address1</td>
<td>Contains the first address line for this customer</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Address2</td>
<td>Contains the second address line for this customer</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>City</td>
<td>Contains the city</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>StateCode</td>
<td>Contains the 2 character state code (for US customers)</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>State</td>
<td>Contains the state name state (for US customers)</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Zip</td>
<td>Contains the zip or postal code for the customer.</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>CountryCode</td>
<td>Contains the 2-character country code</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Country</td>
<td>Contains the country</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>PhoneNumber</td>
<td>Contains the phone number for this customer</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>EmailAddress</td>
<td>Contains the email address for this customer</td>
<td>String</td>
<td>Y</td>
</tr>
</tbody>
</table>

**RateCalculation**

The Payment Details describe a payment entry. A payment entry can either be cash, check, creditcard or PayPal.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalAmount</td>
<td>Contains the total amount of this reservation after discounts and tax</td>
<td>Decimal 9,2</td>
<td>Y</td>
</tr>
<tr>
<td>DepositAmount</td>
<td>Contains the deposit amount which should be paid upon reservation</td>
<td>Decimal 9,2</td>
<td>Y</td>
</tr>
<tr>
<td>PaymentsAmount</td>
<td>Sum of all payments for this reservation.</td>
<td>Decimal 9,2</td>
<td>Y</td>
</tr>
<tr>
<td>BalanceAmount</td>
<td>Outstanding balance for this reservation.</td>
<td>Decimal 9,2</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Payment**

The Payment Details describe a payment entry. A payment entry can either be cash, check, creditcard or PayPal.
<table>
<thead>
<tr>
<th><strong>Element</strong></th>
<th><strong>Description</strong></th>
<th><strong>Type</strong></th>
<th><strong>Reqd.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Describes the type of payment. Valid options are CC, CASH, CHECK</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Name</td>
<td>Contains the customer name</td>
<td>String</td>
<td>Y</td>
</tr>
<tr>
<td>Creditcard</td>
<td>If the type is creditcard, this field will include the last 4 digits of the creditcard number</td>
<td>String</td>
<td>N</td>
</tr>
<tr>
<td>ExpirationDate</td>
<td>If the type is creditcard, this field will include the expiration month and year, coded as MMYY.</td>
<td>String</td>
<td>N</td>
</tr>
<tr>
<td>Amount</td>
<td>Contains the payment amount</td>
<td>Decimal(9.2)</td>
<td>Y</td>
</tr>
<tr>
<td>Currency</td>
<td>Contains the currency code</td>
<td>String</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 4.5.4 Example

#### Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
  <BusinessID>dcsa</BusinessID>
  <APIKey>MyAPIKey</APIKey>
  <GetReservations>
    <StartDateDateTime>2008-09-01 00:00:00</StartDateDateTime>
    <EndDateDateTime>2008-12-01 00:00:00</EndDateDateTime>
    <Filter/>
  </GetReservations>
</Request>
```

#### Response

```xml
<Response>
  <ReservationList norecords="1">
    <Reservation>
      <ReservationCode>WRSA-1G2DG</ReservationCode>
      <Status>PENDING</Status>
      <Reserved>2008-09-04 16:56:47</Reserved>
      <LastModified>2008-09-04 16:56:47</LastModified>
      <ReservationDetails>
        <ProductID>5</ProductID>
        <StartDateDateTime>2008-11-19 05:00:00</StartDateDateTime>
        <EndDateDateTime>2008-11-27 05:00:00</EndDateDateTime>
        <NoUnits>1</NoUnits>
        <NoAdults>1</NoAdults>
        <NoChildren>0</NoChildren>
        <Unit>
          <UnitID>7121</UnitID>
          <Name>Room 561</Name>
        </Unit>
        <CustomField>
          <ID>1259</ID>
          <Name>Scuba gear (Mask, Fins, Snorkel)</Name>
          <Value>No</Value>
        </CustomField>
      </ReservationDetails>
    </Reservation>
  </ReservationList>
</Response>
```
<CustomField>
  <ID>1098</ID>
  <Name>Birthday</Name>
  <Value />
</CustomField>

<ReservationDetails>
  <Customer>
    <FirstName>Peter</FirstName>
    <LastName>Larson</LastName>
    <Address1>1450 Peachtree St.</Address1>
    <Address2>1</Address2>
    <City>Atlanta</City>
    <StateCode>GA</StateCode>
    <State>Georgia</State>
    <Zip>30350</Zip>
    <Country>United States</Country>
    <Phone>32132</Phone>
    <EmailAddress>peter.larson@someemail.com</EmailAddress>
  </Customer>
  <RateCalculation>
    <TotalAmount>720.00</TotalAmount>
    <DepositAmount>720.00</DepositAmount>
    <PaymentsAmount>250.00</PaymentsAmount>
    <BalanceAmount>470.00</BalanceAmount>
  </RateCalculation>
  <Payment>
    <Type>CC</Type>
    <Name>Peter Larson</Name>
    <CardNo>****0000</CardNo>
    <ExpDate>0107</ExpDate>
    <Amount>250.00</Amount>
    <Currency>USD</Currency>
  </Payment>
  <Comments>Looking forward to the stay!</Comments>
</Reservation>
</ReservationList>
</Response>
4.6 Availability

4.6.1 GetAvailabilityList

GetAvailabilityList is used to retrieve availability for the specified business location.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>StartDateTime</td>
<td>The start date and time for which reservations is to be retrieved</td>
<td>GMT DateTime</td>
<td>Y</td>
</tr>
<tr>
<td>EndDateTime</td>
<td>The end date and time for which reservations is to be retrieved</td>
<td>GMT DateTime</td>
<td>Y</td>
</tr>
<tr>
<td>ProductID</td>
<td>Contains the product ID</td>
<td>Integer</td>
<td>Y</td>
</tr>
</tbody>
</table>

4.6.2 AvailabilityList

The Availability List element contains the result of a GetAvailabilityList request element.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AvailabilityList</td>
<td>Contains zero, one or more Availability entries</td>
<td>Child element(s)</td>
<td>N</td>
</tr>
</tbody>
</table>

4.6.3 Availability

The Availability element contains the element of a single date or schedule. One or more Reservation elements may be included in the ReservationList.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>StartDate (attribute)</td>
<td>Contains the start date for this availability entry</td>
<td>GMT Date</td>
<td>Y</td>
</tr>
<tr>
<td>EndDate (attribute)</td>
<td>Contains the end date for this availability entry</td>
<td>GMT Date</td>
<td>Y</td>
</tr>
<tr>
<td>NoUnits</td>
<td>Contains the total number of units available for this entry</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>OOI</td>
<td>Contains the number of units out-of-inventory (OOI)</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>Reserved</td>
<td>Contains the number of reserved units.</td>
<td>Integer</td>
<td>Y</td>
</tr>
<tr>
<td>Available</td>
<td>Contains the number of available units.</td>
<td>Integer</td>
<td>Y</td>
</tr>
</tbody>
</table>

4.6.4 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
  <BusinessID>dcsa</BusinessID>
```
<APIKey>MyAPIKey</APIKey>
<GetAvailabilityList>
  <StartDateTime>2009-09-01 00:00:00</StartDateTime>
  <EndDateTime>2008-12-01 00:00:00</EndDateTime>
  <ProductID>5</ProductID>
</GetAvailabilityList>
</Request>

Response

<Response>
  <AvailabilityList norecords="2">
    <Availability StartDate="2009-09-01" EndDate="2009-09-02">
      <NoUnits>20</NoUnits>
      <OOI>0</OOI>
      <Reserved>12</Reserved>
      <Available>8</Available>
    </Availability>
    <Availability StartDate="2009-09-02" EndDate="2009-09-03">
      <NoUnits>20</NoUnits>
      <OOI>2</OOI>
      <Reserved>12</Reserved>
      <Available>6</Available>
    </Availability>
  </AvailabilityList>
</Response>

4.6.5 SetAvailability

SetAvailability is used to update availability for the specified business location and product.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type</th>
<th>Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>StartDateTime</td>
<td>The start date and time for which reservations is to be retrieved. Note the time part is ignored.</td>
<td>GMT DateTime</td>
<td>Y</td>
</tr>
<tr>
<td>EndDateTime</td>
<td>The end date and time for which reservations is to be retrieved. Note the time part is ignored.</td>
<td>GMT DateTime</td>
<td>Y</td>
</tr>
<tr>
<td>ProductID</td>
<td>Contains the product ID (optional). If specified, the availability update is for the specified product. If not specified, the availability update indicates that ALL products are unavailable for the specified period of time</td>
<td>Integer</td>
<td>N</td>
</tr>
<tr>
<td>OOI</td>
<td>Specifies the number of units to take out of inventory. A value of 0 deletes an existing entry for the same period of time. A value higher than zero indicates that the specified number of units should be taken out of inventory. Note if ProductID is null, the OOI</td>
<td>Integer</td>
<td>N</td>
</tr>
</tbody>
</table>
Description | Contains the text description for OOI. | String | Y
UnitID | Optional – specifies the unit that is marked as out of inventory. Note: When setting UnitID, always set OOI to 1. | Integer | N

The result message returns any errors that occurred. An empty response message indicates that no errors occurred.

4.6.6 Example

Request

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Request>
  <BusinessID>dcsa</BusinessID>
  <APIKey>MyAPIKey</APIKey>
  <SetAvailability>
    <StartDateTime>2009-12-01 00:00:00</StartDateTime>
    <EndDateTime>2008-12-03 00:00:00</EndDateTime>
    <ProductID>5</ProductID>
    <UnitID>7122</UnitID>
    <Description>Out for maintenance</Description>
  </SetAvailability>
</Request>
```

Response

```xml
<Response>
</Response>
```