
WebReserv Web Services API

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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

Date:	Comment:
9/14/08	Added product descriptions to the ProductList.
9/25/08	BusinessID has been moved to the request structure
03/21/09	Improved support for languages
09/15/09	Added support for multi reservations
11/22/09	Added support for get and set availability

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

<i>Host</i>	<i>Type</i>	<i>URL</i>
WebReserv.com	Standard	http://www.webreserv.com/webservices/http/ServiceManager
WebReserv.com	Secure	https://www.webreserv.com/webservices/http/ServiceManager
WebReserv.eu	Standard	http://www.webreserv.eu/webservices/http/ServiceManager
WebReserv.eu	Secure	https://www.webreserv.eu/webservices/http/ServiceManager

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:

Service	Description
ProductList	Returns a list of products for a specific business location
BusinessInformation	Returns business information (name, description etc.) for a specific business location
Reservations	Returns reservations for a specific business location
Availability	Returns availability for a specific business location and product
UpdateAvailability	Updates availability for a specific business location

4.2 Request and Response

The Request and Reponse elements are the parent elements for other elements. A valid XML service request must contains 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.

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

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.

Element	Description	Type	Reqd.
BusinessInformation	Contains business information (if requested)	Child element(s)	N
ProductList	Contains product list	Child element(s)	N
Error	Contains error(s) that occurred for any reason, including invalid data	String	N
SystemMessage	Contains messages(s) pertaining to the operation of WebReserv WebServices API	Child element(s)	N

4.2.3 Example

Request

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

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>
      <Unit>
        <UnitID>1001</UnitID>
        <Name>Room 203</Name>
      </Unit>
    </Product>
    <Product>
      <ProductID>5</ProductID>
      <Name>Standard single</Name>
      <Unit>
        <UnitID>1002</UnitID>
        <Name>Room 101</Name>
      </Unit>
  </ProductList>
```

```
<Unit>
  <UnitID>1024</UnitID>
  <Name>Room 102</Name>
</Unit>      </Product>
<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.

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>

4.3.2 BusinessInformation

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

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

LastModified	Contains the last modified date. This information can be used to determine if the information has been changed since the last invocation	GMT Date Time	Y
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4.3.3 Example

Request

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

Response

```
<Response>
  <BusinessInformation>
    <BusinessID>DCSA</BusinessID>
    <Language>en</Language>
    <Name>Casa Deco</Name>
    <Address1>9680 Coconut Road</Address1>
    <Address2 />
    <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 visting
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.

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
IncludeDescriptions	Designates if product descriptions should be included in the result. Specify true to have product descriptions included.	String	N

4.4.2 ProductList

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

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

4.4.3 Example

Request

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

</Request>

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>
      <Unit>
        <UnitID>1001</UnitID>
        <Name>Room 203</Name>
      </Unit>
    </Product>
    <Product>
      <ProductID>5</ProductID>
      <Name>Standard single</Name>
      <Unit>
        <UnitID>1002</UnitID>
        <Name>Room 101</Name>
      </Unit>
      <Unit>
        <UnitID>1024</UnitID>
        <Name>Room 102</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.

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
BookingStartDateTime	The time of reservation start date and time for which reservations is to be retrieved	GMT DateTime	Y *
BookingEndDateTime	The time of reservation end date and time for which reservations is to be retrieved	GMT DateTime	Y *
ReservationStartDateTime	The start date and time for which reservations is to be retrieved	GMT DateTime	Y *
ReservationEndDateTime	The end date and time for which reservations is to be retrieved	GMT DateTime	Y *
Filter	Specifies what reservations to retrieve. Valid options are ALL, CONFIRMED, PENDING, CANCELLED, DECLINED	String	Y

Note: Either BookingStartDateTime and BookingEndDateTime OR ReservationStartDateTime and ReservationEndDateTime 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.

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
Reservation	Contains zero, one or more reservations	Child element(s)	N

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.

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

ReservationDetails

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

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
ProductID	Contains the ID for this product type	Integer	Y
StartDateTime	Contains the start date and time for this reservation	Local Date Time	Y
EndDateTime	Contains the end date and time for this reservation	Local Date Time	Y
NoUnits	Contains the number of units reserved (i.e. rooms)	Integer	Y
NoAdults	Contains the number of adults for this reservation.	Integer	Y
NoChildren	Contains the number of children for this reservation	Integer	Y
Unit	One or more child elements containing the	Child	Y

	system generated ID for each unit and the name of the unit	Element	
CustomField	If applicable, contains the custom field(s) and custom field values.	Child Element	N

Customer

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

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
FirstName	Contains the first name for this customer	String	Y
LastName	Contains the last name for this customer	String	Y
Address1	Contains the first address line for this customer	String	Y
Address2	Contains the second address line for this customer	String	Y
City	Contains the city	String	Y
StateCode	Contains the 2 character state code (for US customers)		
State	Contains the state name state (for US customers)	String	Y
Zip	Contains the zip or postal code for the customer.	String	Y
CountryCode	Contains the 2-character country code	String	Y
Country	Contains the country	String	Y
PhoneNumber	Contains the phone number for this customer	String	Y
EmailAddress	Contains the email address for this customer	String	Y

RateCalculation

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

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

Payment

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

Element	Description	Type	Reqd.
Type	Describes the type of payment. Valid options are CC, CASH, CHECK	String	Y
Name	Contains the customer name	String	Y
Creditcard	If the type is creditcard, this field will include the last 4 digits of the creditcard number	String	N
ExpirationDate	If the type is creditcard, this field will include the expiration month and year, coded as MMYYY.	String	N
Amount	Contains the payment amount	Decimal(9.2)	Y
Currency	Contains the currency code	String	Y

4.5.4 Example

Request

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

Response

```
<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>
        <StartDateTime>2008-11-19 05:00:00</StartDateTime>
        <EndDateTime>2008-11-27 05:00:00</EndDateTime>
        <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>
<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>
  <CountryCode>US</CountryCode>
  <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.

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
StartDateTime	The start date and time for which reservations is to be retrieved	GMT DateTime	Y
EndTime	The end date and time for which reservations is to be retrieved	GMT DateTime	Y
ProductID	Contains the product ID	Integer	Y

4.6.2 AvailabilityList

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

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
AvailabilityList	Contains zero, one or more Availability entries	Child element(s)	N

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.

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

4.6.4 Example

Request

```
<?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.

<i>Element</i>	<i>Description</i>	<i>Type</i>	<i>Reqd.</i>
StartDateTime	The start date and time for which reservations is to be retrieved. Note the time part is ignored.	GMT DateTime	Y
EndDateTime	The end date and time for which reservations is to be retrieved. Note the time part is ignored.	GMT DateTime	Y
ProductID	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	Integer	N
OOI	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	Integer	N

	value is ignored.		
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 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

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