

InTour XML v2 Service Hotel Prices

Common Information

Service provides remote programming interface to InTour Office system. It allows you to query and get hotel prices.

Protocols

Service can be accessed by either of two protocols:

1. SOAP over HTTP (standard web-service protocol);
2. Plain XML over HTTP.

To help you create wrapper classes for SOAP service provides its WSDL description.

When using plain XML you should send XML requests in HTTP POST body UTF-8 encoded. Response will also be UTF-8 encoded. Here is an example of plain XML communication method in C# language (contains error logging to console):

```
static string SendHttpRequest ( string xml ) {
    try {
        var rq = HttpWebRequest.Create ( "http://zelsoft.ru/InTourXml_v2/BookingService.ashx" );
        rq.Method = "POST";
        using ( var sw = new StreamWriter ( rq.GetRequestStream ( ), Encoding.UTF8 ) )
            sw.Write ( xml );
        using ( var sr = new StreamReader ( rq.GetResponse ( ).GetResponseStream ( ), Encoding.UTF8 ) )
            return sr.ReadToEnd ( );
    }
    catch ( WebException ex ) {
        using ( var sr = new StreamReader ( ex.Response.GetResponseStream ( ), Encoding.UTF8 ) ) {
            Console.WriteLine ( sr.ReadToEnd ( ) );
        }
        throw;
    }
}
```

Error Handling

There are two error types:

- Handled by service. It depends on request you send and explained in response structures below.
- Unhandled by service. It follows protocols standard error handling mechanisms: HTTP error code plus error description in response body.

Data Types

Service uses following primitive data types:

- String – text string.
- Date – date, format: yyyy-MM-dd (e.g. 2013-12-23).
- DateTime – date with time, format: yyyy-MM-ddTHH:mm:ss(.f) (e.g. 2013-12-23T17:15:23.432).

- Int – integer.
- Decimal – decimal number (e.g. 1234.5).
- Boolean – “true” or “false”.

Square brackets “[]” used in this documentation to denote array of items (e.g. Int[]).

Web Pages

Service web application root contains the following pages:

- BookingService.asmx – SOAP handling page (e.g. http://zelsoft.ru/intourxml_v2/BookingService.asmx). It also provides WSDL description if queried with “?WSDL” parameter (e.g. http://zelsoft.ru/intourxml_v2/BookingService.asmx?WSDL).
- BookingService.ashx – plain XML handling page. (e.g. http://zelsoft.ru/intourxml_v2/BookingService.ashx).
- SendRequest.aspx – helper browser XML testing page (e.g. http://zelsoft.ru/intourxml_v2/SendRequest.aspx).

Requests

Requests and responses have the same structure unrelated to protocol you choose.

All requests must have Login and Password parameters specified. You should ask service owner for login&password pair.

Parameters not marked as mandatory can be omitted from XML request or left with their default values when using SOAP wrapper classes.

SOAP examples below imply you have service wrapper “svc” defined (something like “var svc = new BS.BookingService ();” in C#).

Hotel Prices

You can query hotel prices with **GetHotelPrices** request.

Request

Parameter	Data Type	Mandatory	Description
ReferencesOnly	Boolean		false– References and prices (default value) true – References only (without prices)
IncludeDebugInfo	Boolean		If you want to get debug info (names and codes of references) in the response, set this parameter to true. false is default value.

CityId	Int		City ID
CityCode	String		City code
CityName	String		City name
HotelId	Int		Hotel ID
HotelCode	String		Hotel code
HotelName	String		Hotel name
CreatedBegin	DateTime	Yes	Creation period begin
CreatedEnd	DateTime	Yes	Creation period end
PriceBegin	Date		Price validity period begin
PriceEnd	Date		Price validity period end
PriceType	Int		1 – per room 2 – per person Any other value means “any”

Response

Response consists of Reference and Price elements with following structure:

Field	Description
References	List of all used references
Providers	Array of providers
Id	Identifier of provider
Name	Name of provider
SPOTypes	Array of special offer types
Id	Special offer type identifier
Name	Name of Special offer type
SPO	Array of special offers
TypeId	Special offer type identifier
Code	Special offer code
Currencies	Array of currencies

Id	Currency identifier
Code	Currency code
Cities	Array of cities
Id	City identifier
Code	City code
Name	City name
Hotels	Array of hotels
Id	Hotel identifier
Code	Hotel code
Name	Hotel name
CityId	City identifier
CityCode	City code
RoomTypes	Array of room types
Id	Room type identifier
Code	Room type code
Name	Room type name
RoomCategories	Array of room categories
Id	Room category identifier
Code	Room category code
Name	Room category name
Accommodations	Array of accommodation types
Id	Accommodation type identifier
Code	Accommodation type code
Name	Accommodation type name
MealTypes	Array of meal types
Id	Meal type identifier
Code	Meal type code
Publications	Array of publications

Id	Publication identifier
Date	Publication date and time
HotelPriceLists	Price lists
HotelPriceList	Price list
ProviderId	Identifier of provider
Spold	Special offer identifier
SpoCode	Special offer code (if IncludeDebugInfo=1)
CurrencyPriceId	Price currency identifier
CurrencyPriceCode	Price currency code (if IncludeDebugInfo=1)
CurrencyNetId	Net currency identifier (if provider allows to see it)
CurrencyNetCode	Net currency code (if provider allows to see it and IncludeDebugInfo=1)
HotelPriceItems	Price items
HotelPriceItem	Price item
Id	Price identifier
HotelId	Hotel identifier
HotelCode	Hotel code (if IncludeDebugInfo=1)
RoomTypeId	Room type identifier
RoomTypeCode	Room type code (if IncludeDebugInfo=1)
RoomCategoryId	Room category identifier
RoomCategoryCode	Room category code (if IncludeDebugInfo=1)
AccommodationId	Accommodation identifier
AccommodationCode	Accommodation code (if IncludeDebugInfo=1)
MealTypeId	Meal type identifier
MealTypeCode	Meal type code (if IncludeDebugInfo=1)
Price	Sale price
Net	Net price (if provider allows to see it)
PerRoom	Type of price:

	0 – per person 1 – per room
MinimumStay	Minimum stay duration
MaximumStay	Maximum stay duration
FreeNights	Amount of free nights
BeginDate	Begin date of the price validity period (YYYY-MM-DD)
EndDate	End date of the price validity period (YYYY-MM-DD)
BookingBegin	Begin date of the booking period (YYYY-MM-DD)
BookingEnd	End date of the booking period (YYYY-MM-DD)
WeekDays	Week days when price is valid. For example, if value of this field is '1.....7' it means the price is valid for Monday and Sunday only. If not defined it means the price is valid for each week day (it's equal '1234567' value)
DaysBeforeCheckIn	Amount of days before check-in when booking by this price is valid. This is a variant of "early booking" special offer.
LastUpdate	Date and time of the last modification of this price. format: yyyy-MM-ddTHH:mm:ss.(f) e.g. 2015-06-01T15:25:06.42

SOAP sample request:

```
var hotelPrices = svc.GetHotelPrices ( new BS.GetHotelPricesRq
{
    Login = "Zelsoft",
    Password = "zel123",
    CreatedBegin = new DateTime ( 2015, 07, 29 ),
    CreatedEnd = new DateTime ( 2015, 10, 29 ),
    IncludeDebugInfo = true
} );
```

XML sample request:

```
<GetHotelPricesRq>
  <Login>Zelsoft</Login>
  <Password>zel123</Password>
  <CreatedBegin>2015-07-29</CreatedBegin>
  <CreatedEnd>2015-10-29</CreatedEnd>
  <CityName>Lloret de Mar</CityName>
  <IncludeDebugInfo>true</IncludeDebugInfo>
</GetHotelPricesRq>
```

XML sample response:

```
<?xml version="1.0" encoding="utf-8"?>
<GetHotelPricesRs>
  <References>
    <Providers>
      <Item Id="1013" Name="Anabel"/>
    </Providers>
    <SpoTypes>
      <Item Id="0" Name="Ordinary"/>
    </SpoTypes>
    <Spo>
      <Item Id="0" Code="Ordinary" TypeId="0"/>
    </Spo>
    <Currencies>
      <Item Id="1" Code="EU"/>
    </Currencies>
    <Cities>
      <Item Id="1" Code="LLR" Name="Lloret de Mar"/>
    </Cities>
    <Hotels>
      <Item Id="1013" Code="ANB" Name="Anabel" CityId="1" CityCode="LLR"/>
    </Hotels>
    <RoomTypes>
      <Item Id="1" Code="DBL" Name="Double room"/>
    </RoomTypes>
    <RoomCategories>
      <Item Id="1" Code="STD" Name="Standard"/>
    </RoomCategories>
    <Accommodations>
      <Item Id="12" Code="1Ad" Name="Adult on main place"/>
      <Item Id="48" Code="2Ad" Name="2 Adult in double"/>
    </Accommodations>
    <MealTypes>
      <Item Id="3" Code="BB"/>
      <Item Id="4" Code="HB"/>
    </MealTypes>
  </References>
  <HotelPriceLists>
    <HotelPriceList ProviderId="1013" CurrencyPriceId="1" CurrencyPriceCode="EU" SpoId="0"
    SpoCode="Ordinary">
      <HotelPriceItems>
        <HotelPriceItem Id="7866" HotelId="1013" HotelCode="ANB" RoomTypeId="1"
        RoomTypeCode="DBL" RoomCategoryId="1" RoomCategoryCode="STD" AccommodationId="12"
        AccommodationCode="1Ad" MealTypeId="3" MealTypeCode="BB" Price="100.00" PerRoom="0"
        MinimumStay="0" MaximumStay="99" FreeNights="0" BeginDate="2015-11-01" EndDate="2015-12-20"
        BookingBegin="2015-06-01" BookingEnd="2015-12-20" WeekDays="" DaysBeforeCheckIn="0"
        LastUpdate="2015-06-01T15:25:06.42"/>
        <HotelPriceItem Id="7868" HotelId="1013" HotelCode="ANB" RoomTypeId="1"
        RoomTypeCode="DBL" RoomCategoryId="1" RoomCategoryCode="STD" AccommodationId="12"
        AccommodationCode="1Ad" MealTypeId="3" MealTypeCode="BB" Price="150.00" PerRoom="0"
        MinimumStay="0" MaximumStay="99" FreeNights="0" BeginDate="2015-12-21" EndDate="2016-01-10"
        BookingBegin="2015-06-01" BookingEnd="2016-01-10" WeekDays="" DaysBeforeCheckIn="0"
        LastUpdate="2015-06-01T15:25:06.42"/>
        <HotelPriceItem Id="7867" HotelId="1013" HotelCode="ANB" RoomTypeId="1"
        RoomTypeCode="DBL" RoomCategoryId="1" RoomCategoryCode="STD" AccommodationId="12"
        AccommodationCode="1Ad" MealTypeId="4" MealTypeCode="HB" Price="120.00" PerRoom="0"
        MinimumStay="0" MaximumStay="99" FreeNights="0" BeginDate="2015-11-01" EndDate="2015-12-20"
        BookingBegin="2015-06-01" BookingEnd="2015-12-20" WeekDays="" DaysBeforeCheckIn="0"
        LastUpdate="2015-06-01T15:25:06.42"/>
        <HotelPriceItem Id="7869" HotelId="1013" HotelCode="ANB" RoomTypeId="1"
        RoomTypeCode="DBL" RoomCategoryId="1" RoomCategoryCode="STD" AccommodationId="12"
        AccommodationCode="1Ad" MealTypeId="4" MealTypeCode="HB" Price="160.00" PerRoom="0"
        MinimumStay="0" MaximumStay="99" FreeNights="0" BeginDate="2015-12-21" EndDate="2016-01-10"
        BookingBegin="2015-06-01" BookingEnd="2016-01-10" WeekDays="" DaysBeforeCheckIn="0"
        LastUpdate="2015-06-01T15:25:06.42"/>
        <HotelPriceItem Id="7875" HotelId="1013" HotelCode="ANB" RoomTypeId="1"
        RoomTypeCode="DBL" RoomCategoryId="1" RoomCategoryCode="STD" AccommodationId="48"
        AccommodationCode="2Ad" MealTypeId="3" MealTypeCode="BB" Price="20000.00" PerRoom="1"
        MinimumStay="0" MaximumStay="99" FreeNights="0" BeginDate="2015-09-01" EndDate="2015-10-31"
        BookingBegin="2015-06-01" BookingEnd="2015-10-31" WeekDays="" DaysBeforeCheckIn="0"
        LastUpdate="2015-06-01T15:25:06.42"/>
        <HotelPriceItem Id="7872" HotelId="1013" HotelCode="ANB" RoomTypeId="1"
        RoomTypeCode="DBL" RoomCategoryId="1" RoomCategoryCode="STD" AccommodationId="48"
        AccommodationCode="2Ad" MealTypeId="4" MealTypeCode="HB" Price="265.00" PerRoom="1"
        MinimumStay="0" MaximumStay="99" FreeNights="0" BeginDate="2015-09-01" EndDate="2015-10-31"
        BookingBegin="2015-06-01" BookingEnd="2015-10-31" WeekDays="" DaysBeforeCheckIn="0"
        LastUpdate="2015-06-01T15:25:06.42"/>
      </HotelPriceItems>
    </HotelPriceList>
  </HotelPriceLists>
</GetHotelPricesRs>
```