Partner Guide – JSON-RPC

Editor	Kc	**Creation Date**	November 9, 2010
Last Editor	Kc	**Last Update**	14-10-2011

Contact Information

Address: @Leisure
Affiliate Marketing
Doornakkersweg 26
5642MP Eindhoven, Netherlands

Phone:	0031 40 - 216 36 00
Fax:	0031 40 - 212 44 80
Web:	www.leisure-group.eu/en/partners
E-mail:	webtech@leisure-group.eu

Version History

Date	Revision	Change
09-11-2010	1.0	Creation of document
20-12-2010	1.1	Change in • ListOfHousesV1 • DataOfHousesV1 • MinimumNumberOfNights
13-01-2011	1.2	Minimumprice added
29-03-2011	1.3	LayoutExtendedV2 added Brand explanation added
11-04-2011	1.4	Calculation of number of bed- and bathrooms added Example script added to calculate number of bed- and bathrooms
14-10-2011	1.5	Removal of AvailabilityNightV1

Table of contents

General Information

Components

This document describes the JSON-RPC interface that @Leisure has made available to you. With this interface you can make a pre-defined request to the server, and get the information you want.

⚠ The interface is not built to be used as a search engine.
You'll have to save the output-data into your own database and feed your website from there.

This guide describes the following components:

- Detailed descriptions of the pre-defined JSON-RPC interface calls.
- Examples for implementing the JSON-RPC interface calls.

Commission

@Leisure pays a percentage for each booking you make trough the affiliate programme. In order to assign these bookings to you correctly, you must submit your so called "partner code" (Pt) when making the JSON-RPC booking call. The partner code is assigned by your @Leisure contact when you sign up. It is of great importance that you submit your partner code in order to get your commission!

Testing

In order to test you implemented solution we have so called 'demo' (XX-) houses available with demo availability. When you book a 'demo' house no real booking will be made. The information entered will not be send to the financial administration.
Please do NOT book other houses to test your code!

Picture server

@Leisure uses a picture server that contains all pictures of the available accommodations. We use our own picture server to guarantee that the pictures are updated when an accommodation changes. Another advantage is that you can just link to the pictures instead of downloading them all.

JSON-RPC

Version

@Leisure uses JSON-RPC 2.0

Introduction

JSON-RPC is a lightweight remote procedure call.
The communication between client and server happens trough JSON(JavaScript Object Notation).

Where to find up-to-date information about our Calls?

https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC or JSONRPC Advanced

Do you need the basic or advanced JSONRPC?

The basic version of our JSONRPC delivers you the minimal information you need to make a correct partner implementation.

The advanced version provides you of more detailed information of each house to provide your website of even more information about each house. Please check out our JSONRPC Advanced section.

How to call the JSON-RPC

The url for calling the JSON-RPC is built as follows:
https://*theNameOfTheCallInLowerCase*.jsonrpc-partner.net/cgi/lars/jsonrpc-partner/jsonrpc.htm

Common error codes

Errorcode	Description
-32000	Field ... is unknown
-32001	Mandatory Field ... is missing
-32002	Field ... , Value ... is incorrect or unknown
-32003	Error ...
-32600	Invalid Request.
-32601	Method not found.
-32602	Invalid params.
-32603	Internal error.
-32700	Parse error.

Fault error structure

```
{
        "jsonrpc": 2.0,
        "error": {
                "code": -32002,
                "message": "Field WebPartnerPassword, Value password is incorrect or unknown"
        },
        "id": 13699201
}
```

The JSON-RPC calls

ListOfHousesV1

General
This call retrieves a list of accommodation codes.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC
↳ ListOfHousesV1

DataOfHousesV1

General
This call retrieves detailed data of specific accommodations.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC
↳ DataOfHousesV1

CheckAvailabilityV1

General
This call lets you check the availability of 1 house for 1 period.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC
↳ CheckAvailabilityV1

BookingAdditionsV1 (advanced)

General
This call lets you retrieve additions before a booking.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC Advanced
↳ BookingAdditionsV1

PlaceBookingV1

General
This call lets you place a booking (or an option).

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC
↳ PlaceBookingV1

ReferenceRegionsV1

General
This call retrieves the reference data for Countries + Regions.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC
↳ ReferenceRegionsV1

ReferencePropertiesV1 (advanced)

General
This call retrieves the reference data for accommodation properties.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC Advanced
↳ ReferencePropertiesV1

ReferenceLayoutItemsV1 (advanced)

General
This call retrieves the reference data for House-Layout items

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC Advanced
↳ ReferenceLayoutItemsV1

ReferenceLayoutDetailsV1 (advanced)

General
This call retrieves the reference data for House-Layout details.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC Advanced
↳ ReferenceLayoutDetailsV1

ReferenceParksV1 (advanced)

General
This call retrieves the reference data for Holiday parks.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC Advanced
↳ ReferenceParksV1

ReferenceSkiAreasV1 (advanced)

General
This call retrieves the reference data for ski areas.

Up to date information about this call
https://www.leisure-partners.net/ (Login with your webpartner username and password)
↳ Interface
↳ JSONRPC Advanced
↳ ReferenceSkiAreasV1

How to use the @Leisure RPC system

The daily loading of all housedata

1. Call ListOfHousesV1 to get the housecodes of all houses with some extra data. Within this list you can filter the houses you want to load.
2. Call with those housecodes the DataOfHousesV1 call. This call will return all data of that(those) specific house(s) or a member "error" with the reason why there isn't any data for this house.

The daily loading of all reference data

It's recommended that you'll call all our reference-data-calls once a day. The answer of these calls contain for example all explanations of our property-, object-, floor-, … numbers.

For an up to date list of our reference calls check our partner-login-backend-system.

LayoutExtendedV2 explained

An accommodation-layout is divided into items. Each 'item' can be a child element of another 'item'. To implement the extended layout you'll need these calls:

- DataOfHousesV1 (pass LayoutExtendedV2 in "Items")
  - This call will give you the layout of each accommodation
- ReferenceLayoutItemsV1
  - Translations of the item-id's
- ReferenceLayoutDetailsV1
  - Translations of the detail-id's

Calculate number of bed- and bathrooms

You'll need to parse LayoutExtendedV2 and see how many Items there are for each accommodation with following id's. Please keep the NumberOfItems value in mind.

Bedroom id's: 1028, 1030, 1031, 1032, 1033, 1035, 1038, 1040
Bathroom id's: 1031, 1042

See "An example to parse LayoutExtendedV2" in this document for a PHP example script.

Different brands

@Leisure has a couple of brands. In the 'BasicInformationV2' you'll find a member 'Brands' that contains the different brands of the accommodation.

Different Brand-ids

- BV → Belvilla
- AR → Ardennes Relais
- C4A →Casa4all
- JV → Julles Villas

Please contact your affiliate manager for more information about these brands.

How to create a booking

Link to @Leisure booking screen

Iframe link with arrival date, number of nights and housecode
www.belvilla.org/cgi/eris/extern/pvct/pvct.htm?pvct=xmlbk&Pt=YOURPT&ad=YYYY-MM-DD&nig=NUMBER_OF_NIGHTS&huiscode=HOUSECODE&Frames=nee&T= LANG

Link to bookingscreen on an @Leisure brand website with arrival date, number of nights and housecode
www.belvilla.org/cgi/eris/extern/pvct/pvct.htm?pvct=xmlbk&Pt=YOURPT&ad=YYYY-MM-DD&nig=NUMBER_OF_NIGHTS&huiscode=HOUSECODE&Frames=ja&T= LANG

Iframe link with arrival date, departure date and housecode
www.belvilla.org/cgi/eris/extern/pvct/pvct.htm?pvct=xmlbk&Pt=YOURPT&ad=YYYY-MM-DD&dd=YYYY-MM-DD&huiscode=HOUSECODE&Frames=nee&T= LANG

Link to bookingscreen on an @Leisure brand website with arrival date, departure date and housecode
www.belvilla.org/cgi/eris/extern/pvct/pvct.htm?pvct=xmlbk&Pt=YOURPT&ad=YYYY-MM-DD&dd=YYYY-MM-DD &huiscode=HOUSECODE&Frames=ja&T=LANG

Create your own booking screen

See Appendix A for the flow of our bookingscreen.

What about options?

An option can only be made on houses where the BasicInformation → OptionsAllowed member is *Yes*.

Examples

An example of a call to an @Leisure JSON-RPC server using a PHP client with CURL

The example below shows how to call listOfHousesV1.

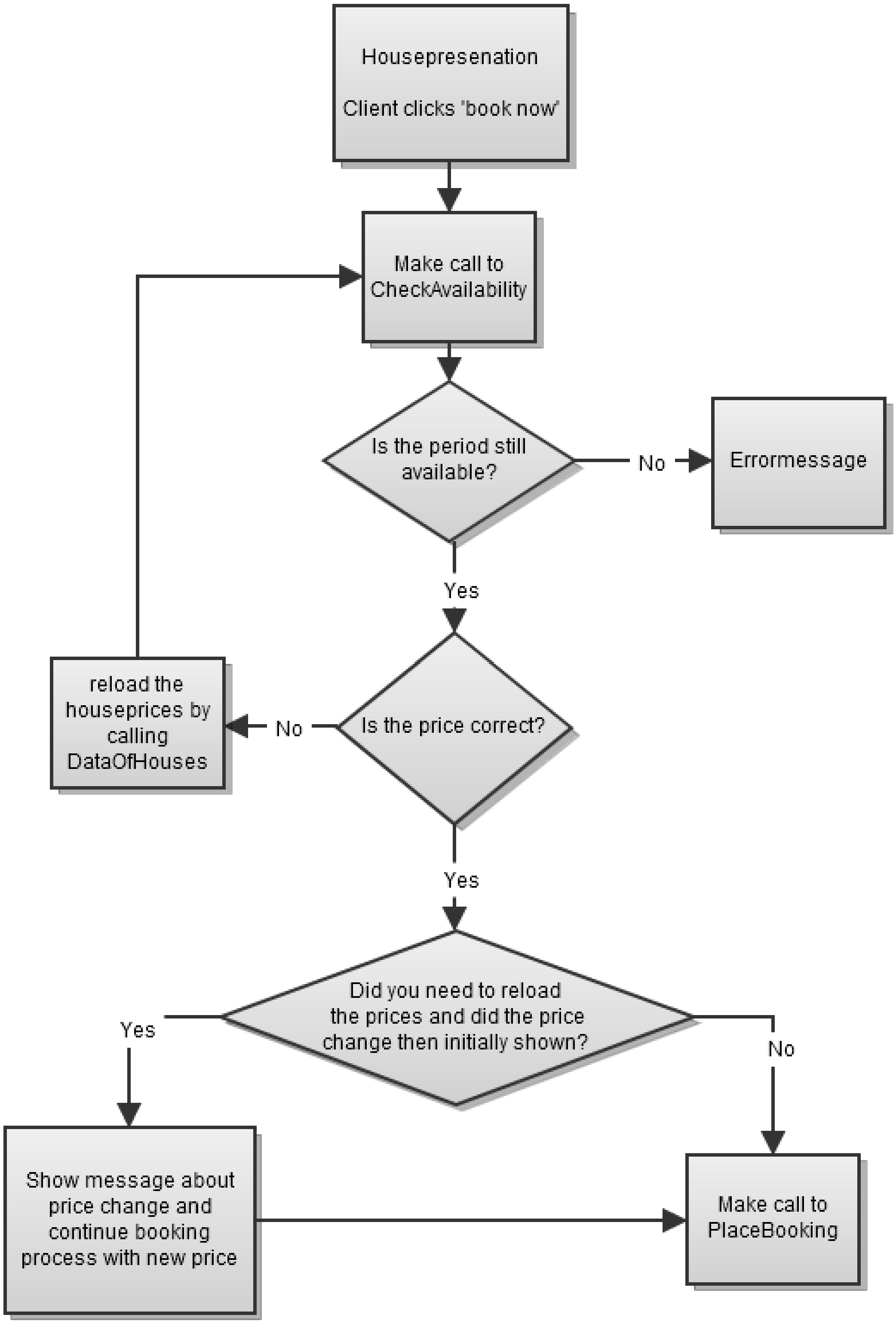
```
<?php
        $url = "https://listofhousesv1.jsonrpc-partner.net/cgi/lars/jsonrpc-partner/jsonrpc.htm";   /* use only lowercase characters in the URL */
        $post_data = array(
            'jsonrpc' => '2.0',
            'method' => 'ListOfHousesV1',
            'params' => array(
                'WebpartnerCode' => 'demo',
                'WebpartnerPassword' => 'pt7er3',
            ),
            'id'=>91180577 /* a unique integer to identify the call for synchronisation */
        );
        $ch = curl_init();
        curl_setopt($ch, CURLOPT_URL, $url);
        curl_setopt($ch, CURLOPT_POST, 1);
        curl_setopt($ch, CURLOPT_HTTPHEADER, array('content-type: application/json','Accept-Encoding: gzip,deflate'));
        curl_setopt($ch, CURLOPT_SSLVERSION,3); /* Due to an OpenSSL issue */
        curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);  /* Due to a wildcard certificate */
        curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 2);
        curl_setopt($ch, CURLOPT_ENCODING, 1); /* If result is gzip then unzip */
        curl_setopt($ch, CURLOPT_POSTFIELDS, json_encode($post_data));
        curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
        if ($result = curl_exec($ch)) {
          if ($res = json_decode($result)) {
            print_r($res);
          } else echo json_last_error();
        } else echo curl_error($ch);
        curl_close($ch);
?>
```

Note: If you want to use this code for another call then please see which $post_data that call needs and don’t forget to change the subdomain of the $url variable. Each call has its own subdomain.

Example to parse LayoutExtendedV2

```php
<?php
$bedroomnumbers = array(1028,1030,1031,1032,1033,1035,1038,1040);
$bathroomnumbers = array(1031,1042);
$numberOfBedRooms = 0;
$numberOfBathRooms = 0;

if(isset($acco->LayoutExtendedV2)){
        foreach($acco->LayoutExtendedV2 as $layout){
                $item = $layout->Item;
                $sequenceNumber = $layout->SequenceNumber;
                $numberOfItems = $layout->NumberOfItems;
                $parentItem = isset($layout->ParentItem) ? $layout->ParentItem : 'NULL';
                $parentSequenceNumber = isset($layout->ParentSequenceNumber) ? $layout->ParentSequenceNumber : 'NULL';

                /*
                        Insert code to save layout data to your own database
                */
                if(in_array($item, $bedroomnumbers)){
                        $numberOfBedRooms += $numberOfItems;
                        //echo $HouseCode." bedroom + ".$numberOfItems." = ".$numberOfBedRooms."\n";
                }
                if(in_array($item, $bathroomnumbers)){
                        $numberOfBathRooms += $numberOfItems;
                        //echo $HouseCode." bathroom +".$numberOfItems." = ".$numberOfBathRooms."\n";
                }

                if(isset($layout->Details)){
                        foreach($layout->Details as $detailnumber){
                                /*
                                        Insert code to save layout details data to your own database
                                */
                        }
                }
        }
}

if($numberOfBedRooms == 0) $numberOfBedRooms = 1;
if($numberOfBathRooms == 0) $numberOfBathRooms = 1;
/*
		Insert code to save the number of bed- and bathrooms to your own database
*/
?>
```

Appendix A: The flow of the booking screen


Housepresenation
Client clicks 'book now'
Make call to CheckAvailability
Is the period still available?
No
Errormessage
Yes
Is the price correct?
No
reload the houseprices by calling DataOfHouses
Yes
Did you need to reload the prices and did the price change then initially shown?
Yes
No
Show message about price change and continue booking process with new price
Make call to PlaceBooking