WEBSERVICE SOLUTION

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Contents

Terminology

WebService

The term "WebService" represents a computer program enabling the communication and the exchange of information between heterogeneous applications and systems in distributed environments. They are thus a set of functionalities presented on Internet or an Intranet, by and for applications or machines, without human intervention, and in real time. WebService is called via a URL and bears a file name.

The softwares are writen up in various program languages and on various plateforms can use web services to exchange datas via IT networks like internet.

This interoperability is due to the use of open normes grouped in the SOA generic term (Service Oriented Architecture).

The main avantage of the Web Service usage is the automatic information flow exchange in real time with the Mondial Relay servers as opposed to files exchanges (via ftp) which take place at regular intervals during the day.

The Webservices use standards and open protocols. All the exchange data are formated in XML. This coding can be carried out by SOAP or XML-RPC. Based on the HTTP protocol, the webservices can operate through numerous firewalls without filter modifications.

For further information, please consult : http://fr.wikipedia.org/wiki/Service_Web

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WebService method

The term "WebService method" represents functionality among a whole in WebService. A method of WebService is called via a parameter sent to WebService which contains it.

Regular expression

A regular expression is a character strings.

The regular expressions are used today by IT people in publishing and text control as well as in formal language usage which are part of the IT languages.

Modes of collection and delivery

CCC : Merchant collection
CDR : Home collection for the standard shipments
CDS : Home collection for heavy or bulky shipments
REL : Point Relais® collection
LCC : Merchant delivery
HOM : Home delivery
LD1 : Home delivery for standard shipments
LDS : Home delivery for heavy or bulky shipments
24R : Point Relais® delivery
24L : Point Relais® XL delivery
24X : Point Relais® XXL delivery
DRI : Colisdrive® delivery

ISO standard

The document refers to two ISO standards inorder to identify the countries and languages.

The reference standard for the country codes is ISO 3166-1. Only the code « alpha-2 » from this standard is used by Mondial Relay.

For further information, please consult the following : *http://en.wikipedia.org/wiki/ISO_3166-1*

The reference standard for the language codes is ISO 639-1.

For further information, please consult the following : *http://en.wikipedia.org/wiki/ISO_639-1*

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The Mondial Relay™ website doesn't include all countries and language codes present in the ISO standards mentioned above.

To obtain the list of autorized countries and languages, please inquire at Mondial Relay™.

MD5 hash

The MD5 Message-Digest Algorithm is a widely used cryptographic hash function that produces a 128-bit (16-byte) hash value. Specified in RFC 1321, MD5 has been employed in a wide variety of security applications, and is also commonly used to check data integrity. An MD5 hash is typically expressed as a 32-digit hexadecimal number.

For further information, please consult the following page : http://en.wikipedia.org/wiki/MD5

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XML transfer

XML is a meta-language. It is a tool which generalizes the principle of logical tagging and makes it possible to build tagging languages to represent the documents in terms of logical structures, independently of their mode of processing. The logical tagging takes place in the following order:

- Identification of the formal structure of the document. The essence of the document is described by identifying the various elements which constitute it,

- Tagging of the document in accordance with the formal structure defined.

WebService

General specifications for exchanges

General description

This section of the documentation describes the principal functionalities for the interconnection of the Website of Mondial Relay with external merchant Websites.

The principle of communication is based on Web Service.

The Web Service provided to you by Mondial Relay is :

http://api.mondialrelay.com/Web_Services.asmx

All the calls to the Web Service method will be secured with a control key. The algorithm for the calculation of this control key is detailed further in this document.

Normal functionality and debugging

In normal mode, the WebService should always return the 0 code (successful operation) or the codes 80 to 83 (Tracking codes). The other codes are used for debugging during the programming phase and the debugging phase. It is necessary to set up all the filters in order to correct the errors in the parameters. During the production phase, you should not use the error codes given by the WebService for a manual correction of the requests.

You should contact the IT Dept of Mondial Relay if help is needed for setting up the filters

Regularity of calls

In normal mode, the WebService method of Mondial Relay must not be called in « batch », that means that the calls must not be grouped in a big lot of calls, during the night for example. The calls must be spread during the entire day and night, in relation to the needs of final users (search of PUP / orders / and so on.). This kind of organization is necessary in order not to cause problems to other users of the WebService due to a too big monopolization of the resources of our servers.

Information about WebService methods

The WebService of Mondial Relay may have other methods than the one shown in the present documentation; generally they are older versions or versions we are currently developing. Please do not try to use them.

Please find the avalaible methods :

WSI2_CreationExpedition WSI2_CreationEtiquette WSI2_RechercheCP WSI2_RechercheArgumentsTri	WSI3_PointRelais_Recherche WSI2_TracingColisDetaille	WSI2_GetEtiquettes WSI2_STAT_Label

Method

The algorithm for the calculation of the security key is the same for all the available methods of the WebService from Mondial Relay. The method consists in the concatenation of all the input parameters, in the order of the present documentation, taking in account the optional parameters (except if mentioned). The result of the first concatenation is then grouped with the private key of the brand (usually on 8 digits). Next step this result is encrypted in a non reversible way through the Hash MD5 algorithm. This MD5 algorithm returns a 32 digits key. For the use of this key into a Web Service, it has to be inserted in UPPER CASE (unless the contrary is specified).

Example

Calculation of the method « WSI2_GetEtiquettes » with the following parameters :
–   Enseigne   =   « BDTEST12 »
–   Expeditions   =   «12345678 »
–   Langue   =   «FR »
and the following private key : « MRT_2012 ».
The result of the concatenation gives the following chain of characters: « BDTEST1212345678FRMRT_2012 ».
One can notice the presence of all parameters mentioned in the correct order in the document, the optional parameters being empty, they do not appear in the concatenation, but in case they are specified, it must be taken into consideration.
Next, the MD5 algorithm is applied to this string, the algorithm is well known in the field of programing, this method of generation is not given here.
The result of the MD5 algorithm is: : 1e746127dfd37eb079c22ed0c898fe79
As the result must be put in upper case, the « Security » parameter is : 1E746127DFD37EB079C22ED0C898FE79

Calculation online

http://www.functions-online.com/md5.html
http://md5-hash-online.waraxe.us/
http://www.md5.cz/
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The methods of the Mondial Relay Webservice

Point Relais® search

This method permits to search the 10 nearest Points Relais® from a given location (from a GPS address or by both Zip code/Country). The results can be sorted by Points Relais® trade type.

By using the filter on the Point Relais® number, this method permits to obtain information about one particular Point Relais®.

INSTRUCTIONS AND ADVICE ON USAGE
Usage of location criteria
The location search can be carried out in 3 different ways :
·   Via the city name + the country code (less reliable method)
·   Via the city zip code + the country code
·   Via GPS (Latitude + Longitude)

Usage of filter « Typeactivite » (Trade Type)
The results of the method can be defined to certain Point Relais® trade types (i.e. flowershops, …) . To use it, inform the optional parameter **TypeActivite**. If you want to use several trade types in parameters, please separate them with the comas « , ». If the parameter is left blank, you will obtain all Point Relais® trade types. The available trade types list can be sent to you on request.

Usage of filter « Rayonrecherche» (Search radius)
The method results can be limited from the point of search origin. For that, mention the optionnal parameter **RayonRecherche** with a value in KM. If the parameter is left blank, the search radius by default will be 50 Km. If you don't want to use this filter, mention 0 as parameter value. Please note this method will never post more than 10 Point Relais®.
A maximum search radius is applied according to the action type parameter :
·   Action = REL , Maximum radius = 75 Km
·   Action = 24R, Maximum radius = 100 Km
·   Action = 24L, Maximum radius = 100 Km
·   Action = 24X, Maximum radius = 100 Km
·   Action = DRI, , Maximum radius = 200 Km

Usage of filter « Action »
The method results can be limited according to the delivery mode or collection. For that, mention the parameter **Action** . If the parameter is left blank, the value 24R by default will be used.
The possible values are :
·   **24R** : Search the Points Relais which suggest the delivery to Point Relais®
·   **DRI** : Search the Points Relais wich suggest the delivery to Colisdrive®
·   **REL** : Search the Points Relais which suggest the collection from Point Relais®

Usage of filter « Délais d'envoi » (lead time)
The method results can be adapted according to the time needed to send the shipments to Mondial Relay. Please just specify the number of days in the parameter « DelaisEnvoi ».

Usage of filter « Numéro de Point Relais® » (Point Relais® number)
You can obtain information on a particular Point Relais by specify the parameters « Pays » (Country) and « NumPointRelais » (Point Relais® number)

Method name

WSI3_PointRelais_Recherche

In parameters

Parameters	*(F) Optional / (O) Obligatory*	*Regular expression format*
Enseigne (Merchant)	O	8 Alphanumerical characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
Your merchant code provided by Mondial Relay in your security parameters document		
Pays (Country)	O	2 Alphanumerical characters ^[A-Za-z]{2}$
ISO country code from which the search must be made		
NumPointRelais	F/O	6 Alphanumerical characters ^[0-9]{6}$
Point Relais I D to be used in combination with the country parameter if you want to obtain particular Point Relais® information.		
Ville (City)	F/O	25 Alphanumerical characters ^[A-Za-z_\-']{2,25}$
City name to be used as search origin. The results will be sorted by the nearest distance from the search city in descending order. This parameter is optional if zipcode is given.		
CP (Zipcode)	F/O	Depends on the country
Zipcode to be used as search origin. The results will be sorted by the nearest distance from the search zipcode in descending order. This parameter is optional if the city is given but we advise to use the zipcode.		
Latitude	F/O	11 Characters ^-?[0-9]{2}\.[0-9]{7}$
Latitude to be used as search origin. If this parameter is given, the zipcode will not be taken into account.		
Longitude	F/O	11 Characters ^-?[0-9]{2}\.[0-9]{7}$
Longitude to be used as search origin. If this parameter is given, the zipcode will not be taken into account.		
Taille (Size)	F	List of values ^(XS|S|M|L|XL|XXL|3XL)$
Do not use unless specified by Mondial Relay.		
Poids (Weight)	F	6 Numerical characters ^[0-9]{1,6}$
Shipment weight in grams.		
Action	F	List of values ^(REL|24R|24L|24X|DRI)$
Collection or delivery mode.		
DelaiEnvoi	F	6 Numerical characters ^-?[0-9]{2})$
Optional parameter which permit to specify the lead time : the time necessary between order and shipment sent to Mondial Relay. When the webservice is used on the D day with a given number of days before the parcel shipment (ie. 28 days), the webservice gives just the Points Relais® which are open on D+28 days and will remain open for an extra 14 days beyond, in order to give the end user enough time to pick up the parcel. A Points Relais® is considered open when it is not on vacation or closed exceptionnaly.		

Parameters	(F) Optional / (O) Obligatory	Regular expression format
We don't differenciate between open working days and weekends.		
RayonRecherche	F	4 Numerical characters
Search radius in Km from a point of search origin. If not given or blank, the value by default is 50Km. In order not to use this filter "RayonRecherche" please mention "0".		^[0-9]{1,4}$
TypeActivite	F	^(\d{3},|\d{3})*$
Specify trade type for Point Relais®. Several trade types can be specified, they have to be seperated by « , » »		
SECURITY	O	32 Alphanumerical characters
MD5 hash in capital letters for the following string : [Enseigne][Pays][NumPointRelais][Ville][CP][Latitude][Longitude] [Taille][Poids][Action][DelaiEnvoi][RayonRecherche] [TypeActivite] [CLE PRIVEE] The [CLE PRIVEE] (private key) is mentioned on the security parameters document given by Mondial Relay		^[0-9A-Z]{32}$

Out parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
STAT	O	3 Numerical characters
The return code of the request is 0 per default (0 if all is correct). For the others codes, please consult the return codes list.		^[0-9]{1,3}$
PointsRelais		Data table
>Num	O	6 Numerical characters
Point Relais® ID		^[0-9]{6}$
>Lgdr1	O	36 Alphanumerical characters
Point Relais® name (Line 1)		
>LgAdr2	O	36 Alphanumerical characters
Point Relais® name (Line 2)		
>LgAdr3	O	36 Alphanumerical characters
Point Relais® address (Line 1)		
>LgAdr4	O	36 Alphanumerical characters
Point Relais® address (Line 2)		
>CP	O	Depends on the country
Point Relais® zipcode		
>Ville	O	32 Alphanumerical characters
Point Relais® city		

Parameters	(F) Optional / (O) Obligatory	Regular expression format
>Pays	O	2 Alphanumerical characters
Point Relais® ISO country code		
>Latitude	O	11 Characters ^-?[0-9]{2}\.[0-9]{7}$
Point Relais® Latitude		
>Longitude	O	11 Characters ^-?[0-9]{2}\.[0-9]{7}$
Point Relais® Longitude		
>TypeActivite	O	
Point Relais® trade type		
>Distance	O	
Distance in meters from the search origin.		
>Localisation1	O	
Extra information regarding the Point Relais® situation (Line 1)		
>Localisation2	O	
Extra information regarding the Point Relais® situation (Line 2)		
>Horaire_ Lundi	O	String array [4]
Monday opening hours (Data 1 : Opening hours slot 1), (Data 2 : Closing time slot 1), (Data 3 : Opening hours slot 2), (Data 4 : Closing time slot 2).		
>Horaire_ Mardi	O	String array [4]
Tuesday opening hours		
>Horaire_ Mercredi	O	String array [4]
Wednesday opening hours		
>Horaire_ Jeudi	O	String array [4]
Thursday opening hours		
>Horaire_ Vendredi	O	String array [4]
Friday opening hours		
>Horaire_ Samedi	O	String array [4]
Saturday opening hours		
>Horaire_ Dimanche	O	String array [4]
Sunday opening hours		
>Informations_Dispo	O	Object array
Information for future Point Relais® vacation period		
>Debut	O	
Start of closing date Date		
>Fin	O	
End of closing date		
>URL_Plan	O	
URL of Point Relais® google map location		

Parameters	(F) Optional / (O) Obligatory	Regular expression format
>URL_Photo	O	
URL of Point Relais® picture		

Example code

This example performs a **24R** Points Relais® search in a radius of **20Km** around the zipcode **75010** in **France**.
The trade type can be defined all well.

PHP with NUSOAP librairy

```php
<?php
require_once('lib/nusoap.php');


//we define Global Settings
//définition des paramètres de sécurité globaux

$MR_WebSiteId           = "BDTEST13";

$MR_WebSiteKey          = "PrivateK";



$client = new nusoap_client("http://api.mondialrelay.com/Web_Services.asmx", true);

$client->soap_defencoding = 'utf-8';


//we define parameters as a string Array. Each Key/Val represents a parameter of the soap call
//on défini les paramètres comme un tableau de Strings. Chaque paire (Clé/Valeur) correspond à un paramètre de l'appel SOAP

$params = array(

        'Enseigne'  => $MR_ WebSiteId,

        'Pays'      => "FR",

        'Ville'     => "",

        'CP'        => "75010",

        'Latitude'  => "",

        'Longitude' => "",

        'Taille'    => "",

        'Poids'     => "",

        'Action'    => "",

        'DelaiEnvoi'        => "0",

        'RayonRecherche'    => "20",

        //'TypeActivite'    => "",

        'Security'  => strtoupper(md5($MR_ WebSiteId."FR" . "75010" . "20" . "0" . $MR_ WebSiteKey ))
);


//we make the call and load it in the $result var
//on réalise l'appel et stocke le résultat dans la variable $result

$result    =    $client->call('WSI2_RecherchePointRelaisAvancee',    $params,    'http://api.mondialrelay.com/',
'http://api.mondialrelay.com/WSI2_RecherchePointRelaisAvancee');


//we check their is no error during the process
//on vérifie que tout s'est bien passé
if ($client->fault)
{
        echo '<h2>Fault (Expect - The request contains an invalid SOAP body)</h2><pre>';
```

```php
        print_r($result);

        echo '</pre>';
}
else
{

        $err = $client->getError();

        if ($err) { echo '<h2>Error</h2><pre>' . $err . '</pre>'; }

        else

        {

                echo '<h2>Result</h2><pre>';

                print_r($result);

                echo '</pre>';

        }
}

echo '<h2>Request</h2><pre>' . htmlspecialchars($client->request, ENT_QUOTES) . '</pre>';

echo '<h2>Response</h2><pre>' . htmlspecialchars($client->response, ENT_QUOTES) . '</pre>';

echo '<h2>Debug</h2><pre>' . htmlspecialchars($client->getDebug(), ENT_QUOTES) . '</pre>';
?>
```

Zip code searchl

This fonction permits to have a list of communities and zip codes with the towns name.

Method name

WSI2_RechercheCP

In parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Enseigne (Merchant) This parameter is the merchant id code given in the document of parameters.	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
Pays (Country) ISO country code from which the search must be made	O	2 fix characters ISO code, for France : FR ^[A-Z]{2}$
Ville (City) The starting letters of the city for the search.	O	3 to 26 characters [A-Z_\-']{3,26}
CP (Zipcode) Zipcode of the city for the search.	F	Depends on the country, for France : 5 fix numerical characters ^[0-9]{5}$
NbResult Quantity of results wanted	O	1 to 2 numerical characters Maximum : 15
Security Security code.	O	32 fix characters ^[0-9A-Z]{32}$

Out parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
STAT Call status	O	3 numerical characters ^[0-9]{1,3}$
Liste (List) Table of communities		Data table
> CP (Zipcode) Zipcode of City	O	Depends on the country, for France : 5 fix numerical characters ^[0-9]{5}$
> Ville (City) City name	O	32 characters
> Pays (Country) Country code of the city	O	2 fix characters ISO code, for France : FR ^[A-Z]{2}$

Method name

WSI2_CreationExpedition

In parameters

Parameters	*(F) Optional / (O) Obligatory*	*Regular expression format*
Enseigne (Merchant) This parameter is the merchant id code given in the document of parameters.	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
ModeCol Collection mode	O	List of predefined values ^(CCC|CDR|CDS|REL)$
ModeLiv Mode of delivery	O	List of predefined values ^(LCC|LD1|LDS|24R|24L|24X|ESP|DRI)$
NDossier Merchant shipment reference, e.g invoice number.	F	15 characters ^(|[0-9A-Z_ -]{0,15})$
NClient Consignee reference (n°)	F	9 characters ^(|[0-9A-Z]{0,9})$
Expe_Langage Language of the shipper	O	2 fix characters ISO code ISO, for the french : FR ^[A-Z]{2}$
Expe_Ad1 Shipper (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$ Particulars : ^((MR|M.|M|MME|MLE|MLLE))$
Expe_Ad2 Shipper (address extra information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Expe_Ad3 Shipper (Street)	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$
Expe_Ad4 Shipper (address extra information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Expe_Ville Shipper (City)	O	Depends on the country, for France : 26 characters ^[A-Z_\-']{2,26}$
Expe_CP Shipper (Zipcode)	O	Depends on the country, for France : 5 fix numerical characters ^[0-9]{5}$
Expe_Pays Shipper (Country code) (ISO code : FR, BE...)	O	2 fix characters ISO code for France : FR ^[A-Z]{2}$
Expe_Tel1 Shipper (Phone number)	O	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Expe_Tel2 Shipper (Cell n°)	F	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$
Expe_Mail Shipper (E-mail)	F	70 characters E-mail format RFC2822 ^[\w\-\.\@_]{7,70}$
Dest_Langage Language of the consignee	O	2 fix characters ISO code, for the french : FR ^[A-Z]{2}$
Dest_Ad1 Consignee (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$ Particulars : ^((MR|M.|M|MME|MLE|MLLE))$
Dest_Ad2 Consignee (address extra information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Dest_Ad3 Consignee (Street)	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$
Dest_Ad4 Consignee (address extra information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Dest_Ville Consignee (City)	O	Depends on the country, for France : 26 characters ^[A-Z_\-']{2,26}$
Dest_CP Consignee (Zipcode)	O	Depends on the country, for France : 5 fix numerical characters ^[0-9]{5}$
Dest_Pays Consignee (Country code) (ISO code : FR, BE...)	O	2 fix characters ISO,code for France : FR ^[A-Z]{2}$
Dest_Tel1 Consignee (Phone number), Obligatory for home delivery	O/F	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$
Dest_Tel2 Consignee (Cell number)	F	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$
Dest_Mail Consignee (E-mail)	F	70 characters E-mail format RFC2822 ^[\w\-\.\@_]{7,70}$
Poids (Weight) Weight in grams	O	7 numerical characters ^[0-9]{3,7}$
Longueur (Length) Developped length in cm.	F	3 numerical characters ^[0-9]{0,3}$
Taille (Size) Unless notified by Mondial Relay, please leave this zone blank.	F	List of predefined values ^(XS|S|M|L|XL|XXL|3XL)$

Parameters	(F) Optional / (O) Obligatory	Regular expression format
NbColis	O	2 numerical characters
Quantity of parcels in the shipment		^[0-9]{1,2}$
CRT_Valeur (COD value)	O	7 numerical characters
COD shipment value in cents		^[0-9]{1,7}$
CRT_Devise (COD currency)	F	List of predefined values
« EUR » by default.		^(|EUR)$
Exp_Valeur (shipment value)	F	7 numerical characters
Shipment value in cents		^[0-9]{0,7}$
Exp_Devise (shipment currency)	F	List of predefined values
« EUR » by default.		^(|EUR)$
COL_Rel_Pays	O/F	2 fix characters
Obligatory if collected in Point Relais		ISO code, for France : FR ^[A-Z]{2}$
COL_Rel	O/F	6 numerical fix characters
Obligatory if collected in Point Relais		^(|[0-9]{6})$
LIV_Rel_Pays	O/F	2 fix characters
Obligatory if delivered in Point Relais		ISO code, for France : FR ^[A-Z]{2}$
LIV_Rel	O/F	6 numerical fix characters
Obligatory if delivered in Point Relais		^(|[0-9]{6})$
Tavisage (notification)	F	List of predefined values ^(|O|N)$
Notification request for shipment. « O » for « Yes » « N » for « No » Warning : the Mondial Relay notification process can go beyond a simple request. Please contact Mondial Relay to know standard notification process. If you have no use for the notification process, please leave this zone empty.		
TReprise	F	List of predefined values ^(|O|N)$
« O » for « Yes » « N » for « No » « N » by default.		
Montage	F	3 numerical characters ^(|[0-9]{1,3})$
Assembly time « 0 » by default.		
TRDV	F	List of predefined values ^(|O|N)$
Request for delivery appointment : « O » for « Yes » « N » for « No » « N » by default Warning : Please leave this zone empty. We don't use this information.		

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Assurance Insurance coverage. « 0 » by default. Please contact Mondial Relay to know the different insurance coverage avalaible.	F	1 character ^(|[0-9A-Z]{1})$
Instructions Extra information	F	31 characters ^[0-9A-Z_\-'., /]{0,31}
Security Security code	O	32 fix characters ^[0-9A-Z]{32}$

Out parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
STAT Call status	O	3 numerical characters ^[0-9]{1,3}$
ExpeditionNum Mondial Relay shipment number	O	8 fix numerical characters ^[0-9]{8}$
TRI_AgenceCode Agency code	O	4 fix numerical characters ^[0-9]{4}$
TRI_Groupe Sorting group number	O	3 fix characters ^[A-Z][0-9]{2}$
TRI_Navette Shuttle run number	O	6 fix numerical characters ^[0-9]{6}$
TRI_Agence Agency name	O	30 characters
TRI_TourneeCode Delivery run	O	5 fix numerical characters ^[0-9]{5}$
TRI_LivraisonMode Mode of delivery	O	List of predefined values ^(LCC|LD1|LDS|24R|24L|24X|ESP|DRI)$
CodesBarres Table of barcodes	O	Table of string characters Format of each element : 26 fix numerical characters ^[0-9]{26}$

N.B.:

This method creates a shipment and gives you the information to mention on the label.
The label description can be found in the « **EDI Solution** » document.
Please go to the above document to make your labels.

Method name

WSI2_CreationEtiquette

In parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Enseigne This parameter is the merchant id code given in the document of parameters.	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
ModeCol Collection mode	O	List of predefined values ^(CCC|CDR|CDS|REL)$
ModeLiv Mode of delivery	O	List of predefined values ^(LCC|LD1|LDS|24R|24L|24X|ESP|DRI)$
NDossier Merchant shipment reference.e;g invoice number	F	15 characters ^(|[0-9A-Z_ -]{0,15})$
NClient Consignee reference	F	9 characters ^(|[0-9A-Z]{0,9})$
Expe_Langage Sender's language	O	2 fix characters ISO code, for french : FR ^[A-Z]{2}$
Expe_Ad1 Sender (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$ Particulars : ^((MR|M.|M|MME|MLE|MLLE))$
Expe_Ad2 Sender (Other name information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Expe_Ad3 Sender (Street)	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$
Expe_Ad4 Sender (Extra address information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Expe_Ville Sender (City)	O	Depends on the country, for France : 26 characters ^[A-Z_\-']{2,26}$
Expe_CP Sender (Zipcode)	O	Depends on the country, for France : 5 fix numerical characters ^[0-9]{5}$
Expe_Pays Sender (Country code) (ISO code : FR, BE...)	O	2 fix characters ISO code, for France : FR ^[A-Z]{2}$
Expe_Tel1 Sender (Phone number)	O	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Expe_Tel2 Sender (Cell number)	F	Format depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$
Expe_Mail Sender (E-mail)	F	70 characters Format e-mail RFC2822 ^[\w\-\.\@_]{7,70}$
Dest_Langage Sender language	O	2 fix characters ISO code, for french : FR ^[A-Z]{2}$
Dest_Ad1 Consignee (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$ Particulars : ^((MR|M.|M|MME|MLE|MLLE))$
Dest_Ad2 Consignee (Other name information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Dest_Ad3 Consignee (Street)	O	32 characters ^[0-9A-Z_\-'., /]{2,32}$
Dest_Ad4 Consignee (Extra address information)	F	32 characters ^[0-9A-Z_\-'., /]{0,32}$
Dest_Ville Consignee (City)	O	Depends on the country, for France : 26 characters ^[A-Z_\-']{2,26}$
Dest_CP Consignee (Zipcode)	O	Depends on the country, for France : 5 fix numerical characters ^[0-9]{5}$
Dest_Pays Consignee (Country code) (ISO code : FR, BE...)	O	2 fix characters ISO code, for France : FR ^[A-Z]{2}$
Dest_Tel1 Consignee (Phone number), Obligatory for home delivery	O/F	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$
Dest_Tel2 Consignee (Cell phone)	F	Depends on the country, for France : 13 numerical characters ^((00|\+)33|0)[0-9][0-9]{8}$
Dest_Mail Consignee (E-mail)	F	70 characters RFC2822 e-mail format ^[\w\-\.\@_]{7,70}$
Poids Weight in grams	O	7 numerical characters ^[0-9]{3,7}$
Longueur Developped lenght in cm	F	3 numerical characters ^[0-9]{0,3}$
Taille Unless otherwise mentioned by Mondial Relay, please leave this field empty.	F	List of predefined values ^(XS|S|M|L|XL|XXL|3XL)$

Parameters	(F) Optional / (O) Obligatory	Regular expression format
NbColis Number of parcels in the shipment	O	2 numerical characters ^[0-9]{1,2}$
CRT_Valeur COD shipment value in cents	O	7 numerical characters ^[0-9]{1,7}$
CRT_Devise Currency of COD value, « EUR » by default	F	List of predefined values ^(|EUR)$
Exp_Valeur Shipment value in cents	F	7 numerical characters ^[0-9]{0,7}$
Exp_Devise Currency of shipment value, « EUR » by default	F	List of predefined values ^(|EUR)$
COL_Rel_Pays Obligatory if collected at Point Relais®	O/F	2 fix caracters ISO code, for France : FR ^[A-Z]{2}$
COL_Rel Obligatory if collected at Point Relais®	O/F	6 fix numerical characters ^(|[0-9]{6})$
LIV_Rel_Pays Obligatory if delivered at Point Relais®	O/F	2 fix characters ISO code, for France : FR ^[A-Z]{2}$
LIV_Rel Obligatory if delivered at Point Relais®	O/F	6 fix numerical characters ^(|[0-9]{6})$
TAvisage Notification request for this shipment. « O » for « Yes » « N » for « No » Warning : the Mondial Relay notification process can go beyond a simple request. Please contact Mondial Relay to know standard notification process. If you are not concerned by the notification process, please leave this zone empty.	F	List of predefined values ^(|O|N)$
TReprise « O » for « Yes » « N » for « No » « N » by default.	F	List of predefined values ^(|O|N)$
Montage Assembly time « 0 » by default.	F	3 numerical characters ^(|[0-9]{1,3})$
TRDV Request for delivery appointment : « O » for « Yes » « N » for « No » « N » by default Warning : Please leave this zone empty. We don't use this information.	F	List of predefined values ^(|O|N)$

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Assurance Insurance coverage. « 0 » by default. Please contact Mondial Relay to know the different insurance coverage avalaible.	F	1 character ^(|[0-9A-Z]{1})$
Instructions Extra information	F	31 characters ^[0-9A-Z_\-'., /]{0,31}
Security Security code	O	32 fix characters ^[0-9A-Z]{32}$
Texte 10 x 30 characters separated by « (cr) » WARNING : Please do not take into consideration for the security key calculation.	F	336 characters ^([^<>&']{3,30})(\(cr\)[^<>&']{0,30}){0,9}$

The « Texte » field corresponds to the items which make up the shipment, this field will be present in the second part of the label. This field cannot have the following characters " & " < and >.

This field can have a maximum of 10 lines of up to 30 characters.
Each line corresponds to an item.
Each end of line will be translated in the text field by the string characters « (cr) ».
This string of characters will permit the back to margin during print out.
In case the text field has more than 10 lines, these would be deleted during print out.

Out parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
STAT Call status	O	3 numerical characters ^[0-9]{1,3}$
ExpeditionNum Mondial Relay shipment number	O	8 fix numerical characters ^[0-9]{8}$
URL_Etiquette Label PDF URL	O	

The value given by **URL_Etiquette** does not include the domain name and the protocol.

After reconstitution of the complete link, the PDF url must be as follows :
http://www.mondialrelay.com/ww2/PDF/StickerMaker2.aspx?
ens=BDTEST___11&expedition=17169784&lg=FR&format=A4&crc=FF6273F49A0CCF4C4E058D8F904C618F

You can choose the label format by mentioning if nedeed the value A5 or 10x15 instead of A4 in the « format » URL parameter.

Method name

WSI2_TracingColisDetaille

In parameters

Parameters	*(F) Optional / (O) Obligatory*	*Regular expression format*
Enseigne This parameter is the merchant id code given in the document of parameters.	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
Expedition Shipment number	O	8 fix numerical characters ^[0-9]{8}$
Langue Language requested for tracking	O	2 fix characters ISO code, for French : FR ^[A-Z]{2}$
Security Security code.	O	32 fix characters ^[0-9A-Z]{32}$

Out parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
STAT	O	3 numerical characters
Call status		^[0-9]{1,3}$
Libelle01	O	
Relais_Libelle	F	
Point Relais® name (if needed)		
Relais_Num	F	6 fix numerical characters
Point Relais® number (if needed)		^[0-9]{6}$
Libelle02	O	
Tracing	O	Array
Tracking table		
> Tracing_Libelle	F	
Tracking name		
> Tracing_Date	F	
Tracking date		
> Tracing_Heure	F	
Tracking hour		
> Tracing_Lieu	F	
Tracking location (City)		
> Tracing_Relais	F	6 fix numerical characters
Point Relais number of tracking (if needed)		^[0-9]{6}$
> Tracing_Pays	F	2 fix characters
Point Relais® country of tracking (if needed)		ISO code, for France : FR ^[A-Z]{2}$

Method name

WSI2_GetEtiquettes

In parameters

Parameters	*(F) Optional / (O) Obligatory*	*Regular expression format*
Enseigne This parameter is the merchant id code given in the document of parameters.	O	8 cfix characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
Expeditions Shipments numbers to be given into the PDF document.	O	8 fix numerical characters stated again and separated by a semicolon ^[0-9]{8}(;[0-9]{8})*$
Langue Requested language on the labels.	O	2 fix characters ISO code, for French : FR ^[A-Z]{2}$
Security Security code.	O	32 fix characters ^[0-9A-Z]{32}$

Out parameters

Parameters	*(F) Optional / (O) Obligatory*	*Regular expression format*
STAT Call status	O	3 numerical characters ^[0-9]{1,3}$
URL_PDF_A4 URL of PDF, labels in A4 format	O	
URL_PDF_A5 URL of PDF, labels in A5 format	O	

Method name

WSI2_STAT_Label

In parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Enseigne This parameter is the merchant id code given in the document of parameters.	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}$
STAT_ID Status number	O	3 numerical characters ^[0-9]{1,3}$
Langue Requested language for the name Only in french for the time being.	O	2 fix characters ISO code, for French : FR ^[A-Z]{2}$
Security Security code.	O	32 fice characters ^[0-9A-Z]{32}$

Out parameters

Parameters	(F) Optional / (O) Obligatory	Regular expression format
Chaîne texte Name	O	150 characters

Status codes

Each answer to a webservice request gives a status code for this request.
These status codes are numerical and usually in 2 digits.
The following list give the link between the code and the error name for the dysfunction correction.
Please note that the answer code « 0 » indicates the request is correct and was received successfully.
However some requests like tracking requests don't give « 0 » but other codes for status of the shipment are posted.

Status code	Name
0	Successfull operation
1	Incorrect merchant
2	Merchant number empty
3	Incorrect merchant account number
4	
5	Incorrect Merchant shipment reference
6	
7	Incorrect Consignee reference
8	Incorrect password or hash
9	Unknown or not unique city
10	Incorrect type of collection
11	Point Relais® collection number incorrect
12	Point Relais® collection country.incorrect
13	Incorrect type of delivery
14	Incorrect delivery Point Relais® number
15	Point Relais delivery country.incorrect
16	
17	
18	
19	
20	Incorrect parcel weight
21	Incorrect developped lenght (length + height)
22	Incorrect parcel size
23	
24	Incorrect shipment number
25	
26	Incorrect assembly time
27	Incorrect mode of collection or delivery
28	Incorrect mode of collection
29	Incorrect mode of delivery
30	Incorrect address (L1)

Status code	Name
31	Incorrect address (L2)
32	
33	Incorrect address (L3)
34	Incorrect address (L4)
35	Incorrect city
36	Incorrect zipcode
37	Incorrect country
38	Incorrect phone number
39	Incorrect e-mail
40	Missing parameters
41	
42	Incorrect COD value
43	Incorrect COD currency
44	Incorrect shipment value
45	Incorrect shipment value currency
46	End of shipments number range reached
47	Incorrect number of parcels
48	Multi-Parcel not permitted at Point Relais®
49	Incorrect action
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	Incorrect text field (this error code has no impact)
61	Incorrect notification request
62	Incorrect extra delivery information
63	Incorrect insurance
64	Incorrect assembly time
65	Incorrect appointement
66	Incorrect take back
67	Incorrect latitude
68	Incorrect longitude
69	Incorrect merchant code

Status code	Name
70	Incorrect Point Relais® number
71	Incorrect Nature de point de vente non valide
72	
73	
74	Incorrect language
75	
76	
77	
78	Incorrect country of collection
79	Incorrect country of delivery
80	Tracking code : Recorded parcel
81	Tracking code : Parcel in process at Mondial Relay
82	Tracking code : Delivered parcel
83	Tracking code : Anomaly
84	(Reserved tracking code)
85	(Reserved tracking code)
86	(Reserved tracking code)
87	(Reserved tracking code)
88	(Reserved tracking code)
89	(Reserved tracking code)
90	
91	
92	
93	No information given by the sorting plan. If you want to do a collection or delivery at Point Relais, please check it is avalaible. If you want to do a home delivery, please check if the zipcode exists.
94	Unknown parcel
95	Merchant account not activated
96	
97	Incorrect security key Cf. : § « Génération de la clé de sécurité »
98	Generic error (Incorrect parameters) This error hides an other error from the list and can only happen in production mode. Cf. : § « Fonctionnement normal et debugage »
99	Generic error of service system This error can happen due to a technical service problem. Please notify this error to Mondial Relay with the date and time of the request as well as the parameters sent in order to verify

.

Examples of codes

The following examples of codes can be used as examples and can used freely. If you want to contribute to the available language list and the different ways of contacting the Mondial Relay webservices, please send your source code examples to : servicesupport@mondialrelay.fr

C# language

Hash MD5 generation function (Message Digest 5)

```
public static string GetMd5(string Args)
{
            string resultat = "";
            System.Security.Cryptography.MD5CryptoServiceProvider MD5_Provider
                        = new System.Security.Cryptography.MD5CryptoServiceProvider();
            byte[] buffer = System.Text.Encoding.Default.GetBytes(Args);
            buffer = MD5_Provider.ComputeHash(buffer);
            foreach (byte b in buffer) { resultat += b.ToString("X2"); }
            return resultat;

}
```

Hash SHA1 generation function (Secure Hash Algorithm)

```
public static string GetSHA1(string Args)
{
            string resultat = "";
            System.Security.Cryptography.SHA1CryptoServiceProvider SHA1_Provider =
                        new System.Security.Cryptography.SHA1CryptoServiceProvider();
            byte[] buffer = System.Text.Encoding.ASCII.GetBytes(Args);
            buffer = SHA1_Provider.ComputeHash(buffer);
            foreach (byte b in buffer) { resultat += b.ToString("X2"); }
            return resultat;

}
```

Method request « WSI3_PointRelais_Recherche » to the WebService with Visual Studio

In the solution explorer, clic with the right button on the project name. Select « References », « Add a reference » or « Add a web reference »

When you obtain the dialogbox « Add a web reference », mention the Mondial Relay service URL into the address zone, validate.

The Mondial Relay methods are posted on the left side of the dialogbox.

Choose a name for the web reference, e.g : « WS_MondialRelay » then clic on « Add the reference ».

```
WS_MondialRelay.Web_Services WS_MR = new WS_MondialRelay.Web_Services();
string Clef_Securite = GetMd5(
            "BDTEST12" // Enseigne
            + "FR"
            + ""
            + ""
            + "59000"
            + ""
            + ""
            + ""
            + ""
            + ""
            + ""
            + ""
            + ""
            + "Mot_de_passe" // Clé privée
);
WS_MondialRelay.ret_WSI3_PointRelais_Recherche WS_Retour = WS_MR.WSI3_PointRelais_Recherche(
            "BDTEST12", // Enseigne
            "FR",
            "",
            "",
            "59000",
            "",
            "",
            "",
            "",
            "",
            "",
            "",
            Clef_Securite // Hash MD5
);
if (WS_Retour.STAT == "0") { /* Traitement normal */ } else { /* Traitement des erreurs */ }
```

PHP language

Method request « WSI3_RecherchePointRelais » to the WebService with nuSOAP

One of the simplest methods to use a webservice in PHP is the usage of the « nuSOAP » library : « nuSOAP » is a free PHP library.

This code example does a Points Relais® search (mode of delivery 24R) in a radius of 20Km in France, around the 75010 zipcode in which the trade type can be defined.

```php
<?php
require_once('lib/nusoap.php');

// Global Settings definition
// Définition des paramètres globaux
$MR_WebSiteId = "BDTESTMR";
$MR_WebSiteKey = "Mot_de_passe";

$client = new nusoap_client("http://api.mondialrelay.com/Web_Services.asmx?WSDL", true);
$client->soap_defencoding = 'utf-8';

// We define the parameters as a string array. Each Key/Val represents a parameter of the soap call
// On défini les paramètres dans un tableau de chaînes. Chaque paire Clé/Valeur est un paramètre de l'appel SOAP
$params = array(
        'Enseigne' => $MR_ WebSiteId,
        'Pays' => "FR",
        //'NumPointRelais' => "",
        'Ville' => "",
        'CP' => "75010",
        'Latitude' => "",
        'Longitude' => "",
        'Taille' => "",
        'Poids' => "",
        'Action' => "",
        'DelaiEnvoi' => "0",
        'RayonRecherche' => "20",
        //'TypeActivite' => "",
    //'NACE' => "",
);

// We generate the request's security code
// On génère la clé de sécurité de l'appel
$code = implode("", $params);
$code .= $MR_WebSiteKey;
$params["Security"] = strtoupper(md5($code));

// We make the call and load it in the $result var
// On réalise l'appel et stocke le résultat dans la variable $result
$result = $client->call(
        'WSI3_PointRelais_Recherche',
        $params,
        'http://api.mondialrelay.com/',
        'http://api.mondialrelay.com/WSI3_PointRelais_Recherche'
);
```

```php
// We check their is no error during the process
// On vérifie qu'il n'y a pas eu d'erreur
if ($client->fault)
{
        echo '<h2>Fault (Expect - The request contains an invalid SOAP body)</h2><pre>';
        print_r($result);
        echo '</pre>';
}
else
{
        $err = $client->getError();
        if ($err) { echo '<h2>Error</h2><pre>' . $err . '</pre>'; }
        else
        {
                echo '<h2>Result</h2><pre>';
                print_r($result);
                echo '</pre>';
        }
}
echo '<h2>Request</h2><pre>' . htmlspecialchars($client->request, ENT_QUOTES) . '</pre>';
echo '<h2>Response</h2><pre>' . htmlspecialchars($client->response, ENT_QUOTES) . '</pre>';
echo '<h2>Debug</h2><pre>' . htmlspecialchars($client->getDebug(), ENT_QUOTES) . '</pre>';
?>
```

ASP3 language

Creation function of MD5 hash (Message Digest 5)

For more documentation, you can consult the following page : http://www.frez.co.uk/freecode.htm#md5
For more documentation, you can consult the following page : http://www.freevbcode.com/ShowCode.Asp?ID=2366
Mondial Relay cannot be responsable for the contents of these pages and cannot guarantee their information..

Methode request « WSI3_RecherchePointRelais » to the WebService with Msxml2

```
<!--#include virtual = "/md5.asp"-->

<%
dim requestXML
dim sParams
dim security

set requestXML = Server.CreateObject("Msxml2.XMLHTTP")

requestXML.Open "post","http://api.mondialrelay.com/Web_Services.asmx" ,false

' Définition de l'entête SOAP/ XML standard
requestXML.setRequestHeader "Content-Type", "text/xml"
requestXML.setRequestHeader "MessageType", "CALL"

' Génération du hachage de sécurité
security = Ucase(md5("BDTESTMRFR75010Mot_de_passe "))

sParams = _
"<?xml version=""1.0"" encoding=""utf-8""?><soap12:Envelope xmlns:xsi=""http://www.w3.org/2001/XMLSchema-
instance""  xmlns:xsd=""http://www.w3.org/2001/XMLSchema""   xmlns:soap12=""http://www.w3.org/2003/05/soap-
envelope"">" &_
"<soap12:Body>" &_
"<WSI2_RecherchePointRelais xmlns=""http://api.mondialrelay.com/"">" & _
                        "<Enseigne xsi:type=""xsd:string"">BDTESTMR</Enseigne>" & _
                        "<Pays xsi:type=""xsd:string"">FR</Pays>" & _
                        "<Ville xsi:type=""xsd:string""></Ville>" &_
                        "<CP xsi:type=""xsd:string"">75010</CP>" & _
                        "<Taille xsi:type=""xsd:string""></Taille>" &_
                        "<Poids xsi:type=""xsd:string""></Poids>" &_
                        "<Action xsi:type=""xsd:string""></Action>" &_
                        "<Security xsi:type=""xsd:string"">" & security & "</Security> &_
"</WSI2_RecherchePointRelais>" &_
"</soap12:Body></soap12:Envelope>"

requestXML.send sParams

if (requestXML.Status = 200) then
            Response.Write "Requete SOAP OK<br/>"
            Response.Write "Résultat = " &  requestXML.responseText & "<br/>"
else
            Response.Write "Erreur requete SOAP : " & requestXML.Status  & "<br/>"
end if

%>
```

Java

Creation function of MD5 hash (Message Digest 5)

For more documentation, you can consult the following page : http://fr.wikipedia.org/wiki/MD5
For more documentation, you can consult the following page : http://www.twmacinta.com/myjava/fast_md5.php
Mondial Relay cannot be responsable for the contents of these pages and cannot guarantee their information.

Method request to the WebService

No example avalaible.