



Mondial Relay

WEB SERVICE

Version : V-5.8

Date : June 2022



Updates

Version	Date	Comment
V-1	July 2006	Document creation
V-2.8	August 2011	List revision and added chapter
V-2.8.1	October 2011	Table of returns code correction
V-3	June 2012	WSI3 method update
V-3.1	August 2012	Available methods update
V- 4	November 2012	Points Relais® segmentation
V-5	September 2015	Update
V-5.1	June 2016	Update WSI3_GetEtiquette : 10x15
V-5.2	April 2017	Tests and Validations process
V-5.3	October 2017	Lockers
V-5.4	March 2018	Update method WSI3_PointRelais_Recherche to WSI4_PointRelais_Recherche Lockers removed
V-5.5	July 2018	Corrections
V-5.6	November 2018	Algorithm example for CRC Stat 92 Zip code REGEX
V-5.7	October 2020	Deletion of 24X
V-5.8	June 2022	Management of the PUDO nature in PUDO research method

Contents

Terminology	4
Web Service.....	4
Web Service method	4
Regular expression	4
Modes of collection and delivery	4
ISO standard	5
MD5 Hash	5
XML transfert.....	5
Web Service	6
General specifications for exchanges.....	6
General description	6
Normal functionality and debugging.....	6
Regularity of calls	6
Information about Web Service methods	6
Generating the security key	7
Label print.....	8
The methods of the Mondial Relay Web Service	9
Point Relais® search.....	9
Zip code search.....	14
Shipment creation	15
Label Creation.....	21
Parcel tracking	26
Concatenated labels retrieval	27
Status codes list	29
Status codes	30
Codes examples	34
C# language	34
Hash MD5 generation function (Message Digest 5).....	34
Hash SHA1 generation function (Secure Hash Algorithm)	34
Method request « WSI4_PointRelais_Recherche » to the Webservice with Visual Studio.....	34
PHP language.....	35
Method request « WSI4_PointRelais_Recherche » to the Web Service with nuSOAP.....	35
ASP3 language	37
Method request « WSI4_PointRelais_Recherche » to the Webservice with Msxml2	37

Terminology

Web Service

The term “Web Service” 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. Web Service is called via a URL and bears a file name.

The software are written up in various program languages and on various platforms can use web services to exchange data via IT networks like internet.

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

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

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

Mondial Relay is not responsible for contents of the above page and cannot guarantee the information.

Web Service method

The term “Web Service method” represents functionality among a whole in Web Service. A method of Web Service is called via a parameter sent to Web Service which contains it.

Regular expression

A regular expression is a character string.

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

Here is a non-exhaustive list of delivery modes.

24R : Point Relais® delivery

24L : Point Relais® XL delivery

HOM : Home delivery <30Kg

LCC : Reverse

LD1/LDS : Home delivery with appointment (contact your sales contact about the eligibility conditions for these products)

XOH : D+1 Delivery

Please note that the delivery modes and options (cash on delivery, multi-parcel shipment, etc.) presented in this document are not available for all contracts (offrestart). Your business contact will be able to inform you about your contract.

ISO standard

The document refers to two ISO standards in order 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

Mondial Relay is not responsible for the content of the above pages and cannot guarantee the information in them.

The Mondial Relay™ website doesn't include all countries and language codes present in the ISO standards mentioned above. To obtain the list of allowed countries and languages, please inquire at Mondial Relay™.

NB : We manage Monaco with the FR ISO Country Code

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>

Mondial Relay™ is not liable for the content of this page and cannot guarantee the page information.

XML transfert

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.

Web Service

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

or

https://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.

Test credentials:

- Enseigne (brand): **BDTEST13**
- Private key: **PrivateK**

Normal functionality and debugging

In normal mode, the Web Service 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 Web Service 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 Web Service 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 Web Service due to a too big monopolization of the resources of our servers.

Information about Web Service methods

The Web Service 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 available methods:

WSI2_CreationExpedition WSI2_CreationEtiquette WSI2_RechercheCP	WSI4_PointRelais_Recherche WSI2_TracingColisDetaille	WSI3_GetEtiquettes WSI2_STAT_Label
---	---	---------------------------------------

Generating the security key

Method

The algorithm for the calculation of the security key is the same for all the available methods of the Web Service 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 « WSI3_GetEtiquettes » with the following parameters:

- Enseigne = « BDTEST13 »
- Expeditions = «12345678 »
- Langue = «FR»

And the following private key: « PrivateK ».

The result of the concatenation gives the following chain of characters: « BDTEST1312345678FRPrivateK ».

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 programming, this method of generation is not given here.

The result of the MD5 algorithm is: 33da5f122daa40241087cc7845bea4b1

As the result must be in upper case, the « Security » parameter is : 33DA5F122DAA40241087CC7845BEA4B1

Online calculation

<http://www.cryptage.org/outil-crypto-hachage.html>

Mondial Relay is not responsible for the content of these pages and cannot give any guarantee on the information it contains.

.NET example:

```
public static string MD5(string data)
{
    byte[] buffer = System.Text.Encoding.Default.GetBytes(data);
    System.Security.Cryptography.MD5CryptoServiceProvider md5Provider = new
    System.Security.Cryptography.MD5CryptoServiceProvider();
    byte[] bufferHash = md5Provider.ComputeHash(buffer);
    StringBuilder retour = new StringBuilder();
    foreach (Byte b in bufferHash) { retour.Append(b.ToString("X2")); }
    return retour.ToString();
}
```

JAVA example:

```
try {
    MessageDigest messageDigest = MessageDigest.getInstance("MD5");
    byte[] b = messageDigest.digest(s.getBytes(Charset.forName("UTF-8")));
    BigInteger bigint = new BigInteger(1, b);
    System.out.println(String.format("%032X", bigint));
} catch (NoSuchAlgorithmException e) {
    System.err.println("No such algorithm");
}
```

Label print

Labels must be printed on a white label and label size may be A4, A5 or 10x15.

- If you use the WebService method WSI2_CreationEtiquette, you must retrieve labels in PDF files generated by the WebService, these PDF must not be resized. The WebService returns different format of label: A4, A5 or 10x15 (you have to choose one of this format).
- If you use the WebService method WSI2_CreationExpédition, you must generate the Mondial Relay label. You must refer to the label specification file, available with the link:
<http://www.mondialrelay.fr/solutionspro/documentation-technique/cahier-des-charges-informatiques/>
This file contains all the rules and specifications of the labels as well as the rules of tests and validations. Tests on labels can also take place after go-live, which may lead to adjustments based on this specification file.

The methods of the Mondial Relay Web Service

Point Relais® search

This method permits to search the 30 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 advices on usage

Usage of location criteria

The location search can be carried out in 2 different ways :

- 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. flower shops, etc.). 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 optional 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 30 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

Usage of filter « Action »

The method results can be limited according to the delivery mode or collection. For that, mention the parameter **Action..** The possible values are:

- SMA : Search Point Relais® XL + L + S + Lockers to be used for parcels respecting: max length 40cm and L+I+h ≤ 80cm and a max weight of 3kg
- APM : Search Lockers only
- MED : Search the Points Relais which suggest the delivery to Point Relais® L
- 24L : Search the Points Relais which suggest the delivery to Point Relais® XL
- REL : Search the Points Relais which suggest the collection from Point Relais®
- 24R or if this field is empty: Search Point Relais® XL + L + Lockers to be used for parcels respecting the size 38x40x60 and a max weight of 25kg
- XOH: Search the Point Relais which are compatible for the D+1

The shipments created after a reserach with the value SMA, APM, MED, 24R or a field empty must be done with the delivery mode 24R.

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).

WSI4_PointRelais_Recherche method

In parameters

Parameters	(F) Facultative / (O) Obligatory	Comment
Enseigne (Merchant)	O	8 Alphanumeric characters
<i>Your merchant code provided by Mondial Relay in your security parameters document</i>		$^{[0-9A-Z]{2}[0-9A-Z]{6}}\$$
Pays (Country)	O	2 Alphanumeric characters
<i>ISO country code from which the search must be made</i>		$^{[A-Za-z]{2}}\$$
NumPointRelais	F/O	6 Alphanumeric characters
<i>Point Relais I D to be used in combination with the country parameter if you want to obtain particular Point Relais® information.</i>		$^{[0-9]{6}}\$$
Ville (City)	F/O	25 Alphanumeric characters
NON APPLICABLE		$^{[A-Za-z_\-']{2,25}}\$$
CP (Zipcode)	F/O	Depends on the country
<i>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.</i>		
Latitude	F/O	11 Characters
<i>Latitude to be used as search origin. If this parameter is given, the zipcode will not be taken into account.</i>		$^{-[0-9]{2}\.[0-9]{7}}\$$
Longitude	F/O	11 Characters
<i>Longitude to be used as search origin. If this parameter is given, the zipcode will not be taken into account.</i>		$^{-[0-9]{2}\.[0-9]{7}}\$$
Taille (Size)	F	List of values
<i>Do not use unless specified by Mondial Relay.</i>		$^{(XS S M L XL 3XL)}\$$
Poids (Weight)	F	6 Numerical characters
<i>Shipment weight in grams. (15 grams minimum)</i>		$^{[0-9]{1,6}}\$$

Parameters	(F) Facultative / (O) Obligatory	Comment
Action	F	List of values
<i>Used to define and adjust the type of "Point Relais®" eligible and offered according to the size of the parcel</i>		^(SMA APM REL MED 24R 24L XOH)\$
DelaiEnvoi	F	6 Numerical characters
<p><i>Optional parameter which permit to specify the lead time : the time necessary between order and shipment sent to Mondial Relay.</i></p> <p><i>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.</i></p> <p><i>A Points Relais® is considered open when it is not on vacation or closed exceptionnaly.</i></p> <p><i>We don't differenciate between open working days and weekends.</i></p>		^-?[0-9]{2}\$
RayonRecherche	F	4 Numerical characters
<i>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".</i>		^[0-9]{1,4}\$
TypeActivite	F	^(\d{3}, \d{3})*\$
<i>Specify trade type for Point Relais®. Several trade types can be specified, they have to be seperated by « , » »</i>		
NACE	NA	Non applicable
NombreResultats	O	Numerical (max : 30)
<i>Defines the number of Points Relais® returned in the response</i>		[0-3][0-9]
SECURITY	O	32 Alphanumerical characters
<p><i>MD5 hash in capital letters for the following string :</i></p> <p><i>[Enseigne][Pays][NumPointRelais][Ville][CP][Latitude][Longitude][Taille][Poids][Action][DelaiEnvoi][RayonRecherche][TypeActivite][NombreResultats][CLE PRIVEE]</i></p> <p><i>The [CLE PRIVEE] (private key) is mentioned on the security parameters document given by Mondial Relay</i></p>		^[0-9A-Z]{32}\$

Out parameters

Parameters	(F) Optional / (O) Obligatory	Comment
STAT	O	3 Numerical characters
<i>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.</i>		<code>^[0-9]{1,3}\$</code>
Points Relais		Data table
>Num	O	6 Numerical characters
<i>Point Relais® ID</i>		<code>^[0-9]{6}\$</code>
>Lgdr1	O	36 Alphanumerical characters
<i>Point Relais® name (Line 1)</i>		
>LgAdr2	O	36 Alphanumerical characters
<i>Point Relais® name (Line 2)</i>		
>LgAdr3	O	36 Alphanumerical characters
<i>Point Relais® address (Line 1)</i>		
>LgAdr4	O	36 Alphanumerical characters
<i>Point Relais® address (Line 2)</i>		
>CP	O	Depends on the country
<i>Point Relais® zipcode</i>		
>Ville	O	32 Alphanumerical characters
<i>Point Relais® city</i>		
>Pays	O	2 Alphanumerical characters
<i>Point Relais® ISO country code</i>		
>Latitude	O	11 Characters
<i>Point Relais® Latitude</i>		<code>^-?[0-9]{2}\.[0-9]{7}\$</code>
>Longitude	O	11 Characters
<i>Point Relais® Longitude</i>		<code>^-?[0-9]{2}\.[0-9]{7}\$</code>
>TypeActive	O	
<i>Point Relais® trade type</i>		
>Distance	O	
<i>Distance in meters from the search origin.</i>		

Parameters	(F) Optional / (O) Obligatory	Comment
>Localisation1	O	
<i>Extra information regarding the Point Relais® situation (Line 1)</i>		
>Localisation2	O	
<i>Extra information regarding the Point Relais® situation (Line 2)</i>		
>Horaire_ Lundi	O	String array [4]
<i>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).</i>		
>Horaire_ Mardi	O	String array [4]
<i>Tuesday opening hours</i>		
>Horaire_ Mercredi	O	String array [4]
<i>Wednesday opening hours</i>		
>Horaire_ Jeudi	O	String array [4]
<i>Thursday opening hours</i>		
>Horaire_ Vendredi	O	String array [4]
<i>Friday opening hours</i>		
>Horaire_ Samedi	O	String array [4]
<i>Saturday opening hours</i>		
>Horaire_ Dimanche	O	String array [4]
<i>Sunday opening hours</i>		
>Informations_Dispo	O	Object array
<i>Information for future Point Relais® vacation period</i>		
>Debut	O	
<i>Start of closing date Date</i>		
>Fin	O	
<i>End of closing date</i>		
>URL_Plan	O	
<i>URL of Point Relais® google map location</i>		
>URL_Photo	O	
<i>URL of Point Relais® picture</i>		

Zip code search

This function permits to have a list of communities and zip codes with the town's name.

WSI2_RechercheCP method

In parameters

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

Out parameters

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

Shipment creation

This method creates shipment in Mondial Relay's system and returns the data to build customized labels.

Phone numbers format :

- FR : "(" + "\\+33" + "[1-9][0-9]{8}" + ")"
- BE (fixes) : + "(" + "\\+32" + "[0-9]{8}" + ")"
- BE (portables) : + "(" + "\\+32" + "[4][0-9]{8}" + ")"
- LU : + "(" + "\\+352" + "[0-9]{6,10}" + ")"
- PT : + "(" + "\\+351" + "[0-9]{9}" + ")"
- ES (fixes) : + "(" + "\\+34" + "9[0-9]{8}" + ")"
- ES (portables) : + "(" + "\\+34" + "6[0-9]{8}" + ")"
- DE : + "(" + "\\+49" + "[0-9]{10,11}" + ")"
- IT : + "(" + "\\+39" + "[0-9]{10}" + ")"
- NL : + "(" + "\\+31" + "[0-9]{9}" + ")"
- Monaco : + "(" + "\\+377" + "[0-9]{5}" + ")"

Zip codes format

- DE : [0-9]{5}
- BE : [0-9]{4}
- ES : [0-9]{5}
- FR : [0-9]{5}
- IT : [0-9]{5}
- LU : [0-9]{4}
- PT : [0-9]{4}(-[0-9]{3})?
- GB : (\w{1,2})\d[\w\d]{0,2}[]?[\w\d]\w{2}
- IE : [0-9A-Z]{0,10}
- NL : [0-9 A-Z]{4,7}
- AT : [0-9]{4}

WSI2_CreationExpedition method

In parameters

Parameters	Facultative / Obligatory	Comment
Enseigne (Merchant)	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}\$
<i>This parameter is the merchant id code given in the document of parameters.</i>		
ModeCol	O	List of predefined values ^(CCC CDR CDS REL)\$
<i>Collection mode</i>		
Modeliv	O	List of predefined values ^(LCC 24R 24L HOM* LD1** LDS**)\$ <i>*HOM for OffreStart accounts (WS dual carrier for other) **LD1/LDS in terme of eligibility conditions</i>
<i>Mode of delivery</i>		
NDossier	F	15 characters ^([0-9A-Z_-]{0,15})\$
<i>Merchant shipment reference, e.g invoice number.</i>		
NClient	F	9 characters ^([0-9A-Z]{0,9})\$
<i>Consignee reference (n°)</i>		
Expe_Langage	O	2 fix characters ISO code ISO, for the french : FR ^[A-Z]{2}\$
<i>Language of the shipper</i>		
Expe_Ad1	O	32 characters ^[0-9A-Z_\-'. ,/]{2,32}\$ Particulars : ^((MR M. M MME MLE MLLE))\$
<i>Shipper (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'</i>		
Expe_Ad2	F	32 characters ^[0-9A-Z_\-'. ,/]{0,32}\$
<i>Shipper (address extra information)</i>		
Expe_Ad3	O	32 characters ^[0-9A-Z_\-'. ,/]{2,32}\$
<i>Shipper (Street) In the Netherlands, the street number must appear at the end of the field</i>		
Expe_Ad4	F	32 characters ^[0-9A-Z_\-'. ,/]{0,32}\$
<i>Shipper (address extra information)</i>		
Expe_Ville	O	Depends on the country, for France : 26 characters ^[A-Z_\-']{2,26}\$
<i>Shipper (City)</i>		
Expe_CP	O	Depends on the country, for France : 5 fix numerical characters ^[0-9@]{1}[0-9]{4}\$
<i>Shipper (Zipcode)</i>		

Parameters	Facultative / Obligatory	Comment
Expe_Pays	O	2 fix characters
<i>Shipper (Country code) (ISO code : FR, BE...)</i>		ISO code for France : FR ^[A-Z]{2}\$
Expe_Tel1	O/F	Depends on the country, for France : 13 numerical characters
<i>Shipper (Phone number)</i>		^(00 \+33 0)[0-9][0-9]{8}\$
Expe_Tel2	F	Depends on the country, for France :13 numerical characters
<i>Shipper (Cell n°)</i>		^(00 \+33 0)[0-9][0-9]{8}\$
Expe_Mail	F	70 characters
<i>Shipper (E-mail)</i>		E-mail format RFC2822 ^[w\-\.\@_]{7,70}\$
Dest_Langage	O	2 fix characters
<i>Language of the consignee</i>		ISO county codes allowed: FR, ES, NL, EN ^[A-Z]{2}\$
Dest_Ad1	O	32 characters
<i>Consignee (Particulars Name First name)</i> Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'		^[0-9A-Z_\-\.' , /]{2,32}\$ Particulars : ^((MR M. M MME MLE MLLE))\$
Dest_Ad2	F	32 characters
<i>Consignee (address extra information)</i>		^[0-9A-Z_\-\.' , /]{0,32}\$
Dest_Ad3	O	32 characters
<i>Consignee (Street)</i> <i>In the Netherlands, the street number must appear at the end of the field</i>		^[0-9A-Z_\-\.' , /]{2,32}\$
Dest_Ad4	F	32 characters
<i>Consignee (address extra information)</i>		^[0-9A-Z_\-\.' , /]{0,32}\$
Dest_Ville	O	Depends on the country, for France : 26 characters
<i>Consignee (City)</i>		^[A-Z_\-\ ']{2,26}\$
Dest_CP	O	Depends on the country, for France :
<i>Consignee (Zipcode)</i>		5 fix numerical characters ^[0-9@]{1}[0-9]{4}\$
Dest_Pays	O	2 fix characters
<i>Consignee (Country code) (ISO code : FR, BE...)</i>		ISO,code for France : FR ^[A-Z]{2}\$
Dest_Tel1	O/F	Depends on the country, for France : 13 numerical characters
<i>Consignee (Phone number), Obligatory for home delivery</i>		^(00 \+33 0)[0-9][0-9]{8}\$
Dest_Tel2	F	Depends on the country, for France : 13 numerical characters
<i>Consignee (Cell number)</i>		^(00 \+33 0)[0-9][0-9]{8}\$

Parameters	Facultative / Obligatory	Comment
Dest_Mail	F	70 characters
<i>Consignee (E-mail)</i>		E-mail format RFC2822 ^[\\w\\-\\.\\@_]{7,70}\$
Poids (Weight)	O	7 numerical digits + 2 optional decimals
<i>Weight in grams (15 grams minimum)</i>		^[0-9]{3,7}\\.[0-9]{0,2}\$
Longueur (Length)	F	3 numerical characters
<i>Developped length in cm.</i>		^[0-9]{0,3}\$
Taille (Size)	F	List of predefined values
<i>Unless notified by Mondial Relay, please leave this zone blank.</i>		^(XS S M L XL 3XL)\$
NbColis	O	2 numerical characters
<i>Quantity of parcels in the shipment</i>		^[0-9]{1,2}\$
CRT_Valeur (COD value)	O	7 numerical characters
<i>COD shipment value in cents</i>		^[0-9]{1,7}\$
CRT_Devis (COD currency)	F	List of predefined values
<i>« EUR » by default.</i>		^(EUR)\$
Exp_Valeur (shipment value)	F	7 numerical characters
<i>Shipment value in cents</i>		^[0-9]{0,7}\$
Exp_Devis (shipment currency)	F	List of predefined values
<i>« EUR » by default.</i>		^(EUR)\$
COL_Rel_Pays	O/F	2 fix characters (ISO code of the country)
<i>Obligatory if collected in Point Relais</i>		^[A-Z]{2}\$ <i>Fill « XX » and the country will be automatically recognized regarding the sender's address</i>
COL_Rel	O/F	6 numerical fix characters (Point Relais® ID)
<i>Obligatory if collected in Point Relais</i>		<i>Fill « AUTO » to automatically select the nearest Point Relais® regarding the sender's zip code</i>
LIV_Rel_Pays	O/F	2 fix characters
<i>Obligatory if delivered in Point Relais</i>		ISO code, for France : FR ^[A-Z]{2}\$
LIV_Rel	O/F	6 numerical fix characters
<i>Obligatory if delivered in Point Relais</i>		^([0-9]{6})\$
Tavisage (notification)	F	List of predefined values
<i>Notification request for shipment. « O » for « Yes » and « N » for « No »</i>		^(O N)\$

Parameters	Facultative / Obligatory	Comment
<i>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.</i>		
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 » and « N » for « No » « N » by default <i>Warning : Please leave this zone empty. We don't use this information.</i>		
Assurance	F	1 character ^([0-9A-Z]{1})\$
Insurance coverage. « 0 » by default. <i>Please contact Mondial Relay to know the different insurance coverage available for Offrestart, managed by contract for others.</i>		
Instructions	F	31 characters ^[0-9A-Z_\-'. ,/]{0,31}
Extra information		
Security	O	32 fix characters ^[0-9A-Z]{32}\$
Security code		

Out parameters

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

N.B.:

Labels specifications are available online (<https://www.mondialrelay.fr/solutionspro/documentation-technique/cahier-des-charges-informatiques/>). Please refer to this document to implement labels. Note that Mondial Relay must validate your labels before any Go Live.

Label Creation

WSI2_CreationEtiquette method

This method expects the same in-parameters than WSI2_CreationExpedition but returns directly a PDL label.

In parameters

Parameters	Facultative / Obligatory	Comment
Enseigne	O	8 fix characters
<i>This parameter is the merchant id code given in the document of parameters.</i>		^[0-9A-Z]{2}[0-9A-Z]{6}\$
ModeCol	O	List of predefined values
<i>Collection mode</i>		^(CCC CDR CDS REL)\$
Modeliv	O	List of predefined values
<i>Mode of delivery</i>		^(LCC 24R 24L HOM* LD1** LDS**)\$ *HOM for OffreStart accounts (WS dual carrier for other) ** in terme of eligibility conditions
NDossier	F	15 characters
<i>Merchant shipment reference.e;g invoice number</i>		^([0-9A-Z_-]{0,15})\$
NClient	F	9 characters
<i>Consignee reference</i>		^([0-9A-Z]{0,9})\$
Expe_Langage	O	2 fix characters
<i>Sender's language</i>		ISO code, for french : FR ^[A-Z]{2}\$
Expe_Ad1	O	32 characters
<i>Sender (Particulars Name First name)</i> <i>Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'</i>		^[0-9A-Z_\-'./]{2,32}\$ Particulars : ^((MR M. M MME MLE MLLE))\$
Expe_Ad2	F	32 characters
<i>Sender (Other name information)</i>		^[0-9A-Z_\-'./]{0,32}\$
Expe_Ad3	O	32 characters
<i>Sender (Street)</i> <i>In the Netherlands, the street number must appear at the end of the field</i>		^[0-9A-Z_\-'./]{2,32}\$
Expe_Ad4	F	32 characters
<i>Sender (Extra address information)</i>		^[0-9A-Z_\-'./]{0,32}\$
Expe_Ville	O	Depends on the country, for France :
<i>Sender (City)</i>		26 characters ^[A-Z_\-']{2,26}\$
Expe_CP	O	Depends on the country, for France :
<i>Sender (Zipcode)</i>		5 fix numerical characters ^[0-9@]{1}[0-9]{4}\$

Parameters	Facultative / Obligatory	Comment
Expe_Pays	O	2 fix characters ISO code, for France : FR ^[A-Z]{2}\$
<i>Sender (Country code) (ISO code : FR, BE...)</i>		
Expe_Tel1	O/F	Depends on the country, for France : 13 numerical characters ^((00 \+ 0)0-9)[0-9]{8}\$
<i>Sender (Phone number)</i>		
Expe_Tel2	F	Format depends on the country, for France : 13 numerical characters ^((00 \+ 0)0-9)[0-9]{8}\$
<i>Sender (Cell number)</i>		
Expe_Mail	F	70 characters Format e-mail RFC2822 ^[w\-\.\@_]{7,70}\$
<i>Sender (E-mail)</i>		
Dest_Langage	O	2 fix characters ISO county codes allowed: FR, ES, NL, EN ^[A-Z]{2}\$
<i>Sender language</i>		
Dest_Ad1	O	32 characters ^[0-9A-Z_\-\.' , /]{2,32}\$ Particulars : ^((MR M. M MME MLE MLLE))\$
<i>Consignee (Particulars Name First name)</i> <i>Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'</i>		
Dest_Ad2	F	32 characters ^[0-9A-Z_\-\.' , /]{0,32}\$
<i>Consignee (Other name information)</i>		
Dest_Ad3	O	32 characters ^[0-9A-Z_\-\.' , /]{2,32}\$
<i>Consignee (Street)</i> <i>In the Netherlands, the street number must appear at the end of the field</i>		
Dest_Ad4	F	32 characters ^[0-9A-Z_\-\.' , /]{0,32}\$
<i>Consignee (Extra address information)</i>		
Dest_Ville	O	Depends on the country, for France : 26 characters ^[A-Z_\-\.']{2,26}\$
<i>Consignee (City)</i>		
Dest_CP	O	Depends on the country, for France : 5 fix numerical characters ^[0-9@]{1}[0-9]{4}\$
<i>Consignee (Zipcode)</i>		
Dest_Pays	O	2 fix characters ISO code, for France : FR ^[A-Z]{2}\$
<i>Consignee (Country code) (ISO code : FR, BE...)</i>		
Dest_Tel1	O/F	Depends on the country, for France : 13 numerical characters ^((00 \+ 0)0-9)[0-9]{8}\$
<i>Consignee (Phone number), Obligatory for home delivery</i>		

Parameters	Facultative / Obligatory	Comment
Dest_Tel2	F	Depends on the country, for France : 13 numerical characters ^((00 \+)33 0)[0-9][0-9]{8}\$
<i>Consignee (Cell phone)</i>		
Dest_Mail	F	70 characters RFC2822 e-mail format ^[w\-\.\@_]{7,70}\$
<i>Consignee (E-mail)</i>		
Poids	O	7 numerical digits + 2 optional decimals ^[0-9]{3,7}\.?[0-9]{0,2}\$
<i>Weight in grams (15 grams minimum)</i>		
Longueur	F	3 numerical characters ^[0-9]{0,3}\$
<i>Developped lenght in cm</i>		
Taille	F	List of predefined values ^(XS S M L XL 3XL)\$
<i>Unless otherwise mentioned by Mondial Relay, please leave this field empty.</i>		
NbColis	O	2 numerical characters ^[0-9]{1,2}\$
<i>Number of parcels in the shipment</i>		
CRT_Valeur	O	7 numerical characters ^[0-9]{1,7}\$
<i>COD shipment value in cents</i>		
CRT_Devis	F	List of predefined values ^(EUR)\$
<i>Currency of COD value, « EUR » by default</i>		
Exp_Valeur	F	7 numerical characters ^[0-9]{0,7}\$
<i>Shipment value in cents</i>		
Exp_Devis	F	List of predefined values ^(EUR)\$
<i>Currency of shipment value, « EUR » by default</i>		
COL_Rel_Pays	O/F	2 fix characters (ISO code of the country) ^[A-Z]{2}\$ <i>Fill « XX » and the country will be automatically recognized regarding the sender's address</i>
<i>Obligatory if collected at Point Relais®</i>		
COL_Rel	O/F	6 numerical fix characters (Point Relais® ID) <i>Fill « AUTO » to automatically select the nearest Point Relais® regarding the sender's zip code</i>
<i>Obligatory if collected at Point Relais®</i>		
LIV_Rel_Pays	O/F	2 fix characters ISO code, for France : FR ^[A-Z]{2}\$
<i>Obligatory if delivered at Point Relais®</i>		
LIV_Rel	O/F	6 fix numerical characters ^([0-9]{6})\$
<i>Obligatory if delivered at Point Relais®</i>		

Parameters	Facultative / Obligatory	Comment
TAvisage <i>Notification request for this shipment.</i> « O » for « Yes » and « N » for « No » <i>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.</i>	F	List of predefined values ^(O N)\$
TReprise « O » for « Yes » and « N » for « No » « N » by default.	F	List of predefined values ^(O N)\$
Montage <i>Assembly time</i> « O » by default.	F	3 numerical characters ^([0-9]{1,3})\$
TRDV <i>Request for delivery appointment :</i> « O » for « Yes » and « N » for « No » « N » by default <i>Warning : Please leave this zone empty. We don't use this information.</i>	F	List of predefined values ^(O N)\$
Assurance <i>Insurance coverage. « O » by default.</i> <i>Please contact Mondial Relay to know the different insurance coverage available for Offrestart, managed by contract for others.</i>	F	1 character ^([0-9A-Z]{1})\$
Instructions <i>Extra information</i>	F	31 characters ^[0-9A-Z_'\-./]{0,31}
Security <i>Security code</i>	O	32 fix characters ^[0-9A-Z]{32}\$
Texte <i>10 x 30 characters separated by « (cr) »</i> <i>WARNING: Please do not take into consideration for the security key calculation.</i>	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.

This text is only displayed on A4 and A5 labels (not on 10x15 labels).

Out parameters

Parameters	Facultative / Obligatory	Comment
STAT	O	3 numerical characters
<i>Call status</i>		$^{[0-9]\{1,3\}}\$$
ExpeditionNum	O	8 fix numerical characters
<i>Mondial Relay shipment number</i>		$^{[0-9]\{8\}}\$$
URL_Etiquette	O	
<i>Label PDF URL</i>		

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 look like the following :

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 the value A5 or 10x15 instead of A4 in the « format » URL parameter.

Parcel tracking

WSI2_TracingColisDetaille method

In parameters

Parameters	Facultative / Obligatory	Comment
Enseigne	O	8 fix characters ^[0-9A-Z]{2}[0-9A-Z]{6}\$
<i>This parameter is the merchant id code given in the document of parameters.</i>		
Expedition	O	8 fix numerical characters ^[0-9]{8}\$
<i>Shipment number</i>		
Langue	O	2 fix characters ISO code, for French : FR ^[A-Z]{2}\$
<i>Language requested for tracking</i>		
Security	O	32 fix characters ^[0-9A-Z]{32}\$
<i>Security code.</i>		

Out parameters

Parameters	Facultative / Obligatory	Comment
STAT	O	3 numerical characters ^[0-9]{1,3}\$
<i>Call status</i>		
Libelle01	O	
Relais_Libelle	F	
<i>Point Relais® name (if needed)</i>		
Relais_Num	F	6 fix numerical characters ^[0-9]{6}\$
<i>Point Relais® number (if needed)</i>		
Libelle02	O	
Tracing	O	Array
<i>Tracking table</i>		
> Tracing_Libelle	F	
<i>Tracking name</i>		

Parameters	Facultative / Obligatory	Comment
> Tracing_Date	F	
<i>Tracking date</i>		
> Tracing_Heure	F	
<i>Tracking hour</i>		
> Tracing_Lieu	F	
<i>Tracking location (City)</i>		
> Tracing_Relais	F	6 fix numerical characters
<i>Point Relais number of tracking (if needed)</i>		^[0-9]{6}\$
> Tracing_Pays	F	2 fix characters
<i>Point Relais® country of tracking (if needed)</i>		^[A-Z]{2}\$

The API return the 5 biggest steps of the shipment tracking:

- Shipment announcement
- Receipt in Mondial Relay network
- Leave the delivery agency
- Available in PUDDO
- Delivered

Concatenated labels retrieval

WSI3_GetEtiquettes method

This method allows to retrieve several labels with a unique Web Service call.

In Parameters

Parameters	Facultative / Obligatory	Comment
Enseigne	O	8 cfix characters ^[0-9A-Z]{2}[0-9A-Z]{6}\$
<i>This parameter is the merchant id code given in the document of parameters.</i>		
Expeditions	O	8 fix numerical characters ^[0-9]{8};[0-9]{8}\$
<i>Shipments numbers to be given into the PDF document.</i>		
Langue	O	2 fix characters ISO code, for French : FR ^[A-Z]{2}\$
<i>Requested language on the labels.</i>		
Security	O	32 fix characters ^[0-9A-Z]{32}\$
<i>Security code.</i>		

Out parameters

Parameters	Facultative / Obligatory	Comment
STAT	O	3 numerical characters ^[0-9]{1,3}\$
<i>Call status</i>		
URL_PDF_A4	O	
<i>URL of PDF, labels in A4 format</i>		
URL_PDF_A5	O	
<i>URL of PDF, labels in A5 format</i>		
URL_PDF_10x15	O	
<i>URL of PDF, labels in 10x15 format</i>		

Status codes list

WSI2_STAT_Label method

In parameters

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

Out parameters

Parameters	Facultative / Obligatory	Comment
Chaîne texte	O	150 characters
Name		

Status codes

Each answer to a web service request gives a status code for this request.

These status codes are numerical and usually in 2 digits.

The following list gives 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	Description
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 (Field NCLIENT)
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

Status code	Description
30	Incorrect address (L1)
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 appointment

Status code	Description
66	Incorrect take back
67	Incorrect latitude
68	Incorrect longitude
69	Incorrect merchant code
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	The Point Relais® country code and the consignee's country code are different. Or Insufficient funds (pre-paid accounts)
93	No information given by the sorting plan. If you want to do a collection or delivery at Point Relais, please check it is available. 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. : § « Generating the security key »



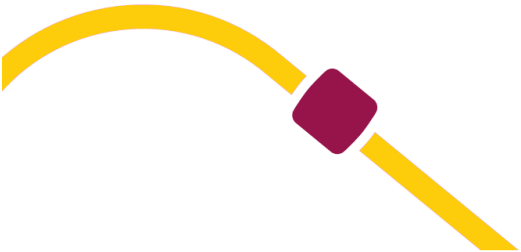
Status code	Description
98	Generic error (Incorrect parameters) This error hides another error from the list and can only happen in production mode. Cf. : § « Normal functionality and debugging »
99	Generic error of service system This error can happen due to a technical service problem. Please notify this error to Mondial Relay with the date and time of the request as well as the parameters sent in order to verify

Status code 97 debug process :

As MD5 hash follows a string concatenation, we will gradually increase the size of the chain by feeding it one field after another.

- So in the first query just fill both fields “Enseigne” and “Security”
- If the status of the request is different from 97, all is well.
- Add the next field and send the new request.
- If the status of the request is different from 97, all is well.
- And we start again until the query status is 97.
- In this case, we found the field with the error.
- Maybe the value of the field is misinterpreted for the MD5 hash (greater than 126 characters in the code page).
- Maybe the field name is misspelled. It may miss a letter for example.

N.B.: The exact order of parameters must be respected



Codes examples

The following examples of codes can be used as examples and can be used freely. If you want to contribute to the available language list and the different ways of contacting the Mondial Relay web services, 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 « WSI4_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_Seurite = GetMd5(
    "BDTEST12" // Enseigne
    + "FR"
    + ""
    + ""
    + "59000"
    + ""
    + ""
    + ""
    + ""
```

```

+ ""
+ ""
+ ""
+ ""
+ ""
+ ""
+ ""
+ ""
+ "Mot_de_passe" // Clé privée
);
WS_MondialRelay.ret_WSI3_PointRelais_Recherche WS_Retour = WS_MR.WSI4_PointRelais_Recherche(
"BDTEST12", // Enseigne
"FR",
"",
"",
"59000",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
"",
Clef_Seurite // Hash MD5
);
if (WS_Retour.STAT == "0") { /* Traitement normal */ } else { /* Traitement des erreurs */ }

```

PHP language

Method request « WSI4_PointRelais_Recherche » to the Web Service with nuSOAP

One of the simplest methods to use a web service 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 zip code in which the trade type can be defined

```

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

// Global Settings definition
// Définition des paramètres globaux
$MR_WebSiteId = "BDTEST12";
$MR_WebSiteKey = "MRT_2012";

$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 définit 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' => "",
        'NombreResultats' => "20",
    );

    // 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(
        'WSI4_PointRelais_Recherche',
        $params,
        'http://api.mondialrelay.com/',
        'http://api.mondialrelay.com/WSI4_PointRelais_Recherche'
    );

    // We check there 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

Method request « WSI4_PointRelais_Recherche » 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("BDTEST12FR75010MRT_2012 "))

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>" & _
"<WSI4_PointRelais_Recherche xmlns=""http://api.mondialrelay.com/"">" & _
"<Enseigne xsi:type=""xsd:string"">BDTEST12</Enseigne>" & _
"<Pays xsi:type=""xsd:string"">FR</Pays>" & _
"<NumPointRelais xsi:type=""xsd:string""></NumPointRelais>" & _
"<Ville xsi:type=""xsd:string""></Ville>" & _
"<CP xsi:type=""xsd:string"">75010</CP>" & _
"<Latitude xsi:type=""xsd:string""></Latitude>" & _
"<Longitude xsi:type=""xsd:string""></Longitude>" & _
"<Taille xsi:type=""xsd:string""></Taille>" & _
"<Poids xsi:type=""xsd:string""></Poids>" & _
"<Action xsi:type=""xsd:string""></Action>" & _
"<DelaiEnvoi xsi:type=""xsd:string""></DelaiEnvoi>" & _
"<RayonRecherche xsi:type=""xsd:string""></RayonRecherche>" & _
"<TypeActivite xsi:type=""xsd:string""></TypeActivite>" & _
"<NombreResultats xsi:type=""xsd:string""></ NombreResultats>" & _
"<Security xsi:type=""xsd:string"">" & security & "</Security>" & _
"</WSI4_PointRelais_Recherche>" & _
"</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
%>
```