



**e-DELIVERY
OF YOUR PARCELS**

www.mondialrelay.fr

WEB SERVICE

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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

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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 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

Please to consider the document “The IT solutions that meets your needs”

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

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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 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>

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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

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	WSI3_PointRelais_Recherche	WSI3_GetEtiquettes
WSI2_CreationEtiquette	WSI2_TracingColisDetaille	WSI2_STAT_Label
WSI2_RechercheCP		

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.functions-online.com/md5.html>

<http://md5-hash-online.waraxe.us/>

<http://www.md5.cz/>

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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.

Delivery modes

Here is a non-exhaustive list of delivery modes.

24R : Point Relais® delivery

24L : Point Relais® XL delivery

24X : Point Relais® XXL delivery

DRI :Colis drive delivery

LD1 : Home delivery (1delivery man)

LDS : Home delivery (2 delivery men)

HOM : Home delivery <30Kg

LCC : Reverse

The methods of the Mondial Relay Web Service

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 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 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® L
- **24L** : Search the Points Relais which suggest the delivery to Point Relais® XL
- **24X** : Search the Points Relais which suggest the delivery to Point Relais® XXL
- **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)

WSI3_PointRelais_Recherche method

In parameters

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

Parameters	(F) Facultative / (O) Obligatory	Comment
Poids (Weight)	F	6 Numerical characters
Shipment weight in grams.		^[0-9]{1,6}\$
Action	F	List of values
Collection or delivery mode.		^(REL 24R 24L 24X DRI)\$
DelaiEnvoi	F	6 Numerical characters
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. We don't differenciate between open working days and weekends.		^-?[0-9]{2}\$
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	Comment
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}\$
Points Relais		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		
>Pays	O	2 Alphanumerical characters
Point Relais® ISO country code		
>Latitude	O	11 Characters
Point Relais® Latitude		^-?[0-9]{2}\.[0-9]{7}\$
>Longitude	O	11 Characters
Point Relais® Longitude		^-?[0-9]{2}\.[0-9]{7}\$

Parameters	(F) Optional / (O) Obligatory	Comment
>TypeActive	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		

Parameters	(F) Optional / (O) Obligatory	Comment
>Debut	O	
Start of closing date Date		
>Fin	O	
End of closing date		
>URL_Plan	O	
URL of Point Relais® google map location		
>URL_Photo	O	
URL of Point Relais® picture		

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

Out parameters

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

Shipment creation

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

WSI2_CreationExpedition method

In parameters

Parameters	Facultative / Obligatory	Comment
Enseigne (Merchant)	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}\$
ModeCol	O	List of predefined values
Collection mode		^(CCC CDR CDS REL)\$
ModeLiv	O	List of predefined values
Mode of delivery		^(LCC LD1 LDS 24R 24L 24X ESP DRI)\$
NDossier	F	15 characters
Merchant shipment reference, e.g invoice number.		^([0-9A-Z_-]{0,15})\$
NClient	F	9 characters
Consignee reference (n°)		^([0-9A-Z]{0,9})\$
Expe_Langage	O	2 fix characters
Language of the shipper		ISO code ISO, for the french : FR ^[A-Z]{2}\$
Expe_Ad1	O	32 characters
Shipper (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'		^[0-9A-Z_\-'./]{2,32}\$ Particulars : ^((MR M. M MME MLE MLLE))\$
Expe_Ad2	F	32 characters
Shipper (address extra information)		^[0-9A-Z_\-'./]{0,32}\$
Expe_Ad3	O	32 characters
Shipper (Street)		^[0-9A-Z_\-'./]{2,32}\$

Parameters	Facultative / Obligatory	Comment
Expe_Ad4	F	32 characters
Shipper (address extra information)		^[0-9A-Z_\-'. ,/]{0,32}\$
Expe_Ville	O	Depends on the country, for France : 26 characters
Shipper (City)		^[A-Z_\-']{2,26}\$
Expe_CP	O	Depends on the country, for France : 5 fix numerical characters
Shipper (Zipcode)		^[0-9]{5}\$
Expe_Pays	O	2 fix characters
Shipper (Country code) (ISO code : FR, BE...)		ISO code for France : FR ^[A-Z]{2}\$
Expe_Tel1	O	Depends on the country, for France : 13 numerical characters
Shipper (Phone number)		^((00 \+)33 0)[0-9]{0-9}{8}\$
Expe_Tel2	F	Depends on the country, for France :13 numerical characters
Shipper (Cell n°)		^((00 \+)33 0)[0-9]{0-9}{8}\$
Expe_Mail	F	70 characters
Shipper (E-mail)		E-mail format RFC2822 ^[\\w\\-\\.\\@_]{7,70}\$
Dest_Langage	O	2 fix characters
Language of the consignee		ISO code, for the french : FR ^[A-Z]{2}\$
Dest_Ad1	O	32 characters
Consignee (Particulars Name First name)		^[0-9A-Z_\-'. ,/]{2,32}\$
Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'		Particulars : ^((MR M. M MME MLE MLLE))\$
Dest_Ad2	F	32 characters
Consignee (address extra information)		^[0-9A-Z_\-'. ,/]{0,32}\$
Dest_Ad3	O	32 characters
Consignee (Street)		^[0-9A-Z_\-'. ,/]{2,32}\$

Parameters	Facultative / Obligatory	Comment
Dest_Ad4	F	32 characters
Consignee (address extra information)		^[0-9A-Z_\-'\. /]{0,32}\$
Dest_Ville	O	Depends on the country, for France : 26 characters
Consignee (City)		^[A-Z_\-']{2,26}\$
Dest_CP	O	Depends on the country, for France :
Consignee (Zipcode)		5 fix numerical characters ^[0-9]{5}\$
Dest_Pays	O	2 fix characters
Consignee (Country code) (ISO code : FR, BE...)		ISO,code for France : FR ^[A-Z]{2}\$
Dest_Tel1	O/F	Depends on the country, for France : 13 numerical characters
Consignee (Phone number), Obligatory for home delivery		^((00 \+)33 0)[0-9]{8}\$
Dest_Tel2	F	Depends on the country, for France : 13 numerical characters
Consignee (Cell number)		^((00 \+)33 0)[0-9]{8}\$
Dest_Mail	F	70 characters
Consignee (E-mail)		E-mail format RFC2822 ^[w\-\.\@_]{7,70}\$
Poids (Weight)	O	7 numerical characters
Weight in grams		^[0-9]{3,7}\$
Longueur (Length)	F	3 numerical characters
Developped length in cm.		^[0-9]{0,3}\$
Taille (Size)	F	List of predefined values
Unless notified by Mondial Relay, please leave this zone blank.		^(XS S M L XL XXL 3XL)\$
NbColis	O	2 numerical characters
Quantity of parcels in the shipment		^[0-9]{1,2}\$

Parameters	Facultative / Obligatory	Comment
CRT_Valeur (COD value)	O	7 numerical characters
COD shipment value in cents		^[0-9]{1,7}\$
CRT_Devis (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_Devis (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
Notification request for shipment. « O » for « Yes » and « 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.		^(O N)\$
TReprise	F	List of predefined values
« O » for « Yes » « N » for « No » « N » by default.		^(O N)\$

Parameters	Facultative / Obligatory	Comment
Montage	F	3 numerical characters
Assembly time « 0 » by default.		^([0-9]{1,3})\$
TRDV	F	List of predefined values
Request for delivery appointment : « O » for « Yes » and « N » for « No » « N » by default Warning : Please leave this zone empty. We don't use this information.		^(O N)\$
Assurance	F	1 character
Insurance coverage. « 0 » by default. Please contact Mondial Relay to know the different insurance coverage available.		^([0-9A-Z]{1})\$
Instructions	F	31 characters
Extra information		^[0-9A-Z_\-'\., /]{0,31}
Security	O	32 fix characters
Security code		^[0-9A-Z]{32}\$

Out parameters

Parameters	Facultative / Obligatory	Comment
STAT	O	3 numerical characters
Call status		^[0-9]{1,3}\$
ExpeditionNum	O	8 fix numerical characters
Mondial Relay shipment number		^[0-9]{8}\$
TRI_AgenceCode	O	4 fix numerical characters
Agency code		^[0-9]{4}\$

Parameters	Facultative / Obligatory	Comment
TRI_Groupe	O	3 fix characters
Sorting group number		^[A-Z][0-9]{2}\$
TRI_Navette	O	6 fix numerical characters
Shuttle run number		^[0-9]{6}\$
TRI_Agence	O	30 characters
Agency name		
TRI_TourneeCode	O	5 fix numerical characters
Delivery run		^[0-9]{5}\$
TRI_LivraisonMode	O	List of predefined values
Mode of delivery		^(LCC LD1 LDS 24R 24L 24X ESP DRI)\$
CodesBarres	O	Table of string characters
Table of barcodes		Format of each element : 26 fix numerical characters ^[0-9]{26}\$

N.B.:

Labels specifications are available in the EDI specifications. Please refer to this document to implement labels. Note that Mondial Relay has to validate your labels before any Go Live.

Phone number format :

```

"(" + "\+33" + "[1-9][0-9]{8}" + ")" // France
+ "(" + "\+32" + "[0-9]{8}" + ")" // Belgium
+ "(" + "\+32" + "[4][0-9]{8}" + ")" // Belgium
+ "(" + "\+352" + "[0-9]{6,10}" + ")" // Luxembourg
+ "(" + "\+351" + "[0-9]{9}" + ")" // Portugal
+ "(" + "\+34" + "9[0-9]{8}" + ")" // Spain
+ "(" + "\+34" + "6[0-9]{8}" + ")" // Spain
+ "(" + "\+49" + "[0-9]{10,11}" + ")" // Germany
+ "(" + "\+39" + "[0-9]{10}" + ")" // Italy
+ "(" + "\+377" + "[0-9]{5}" + ")" // Monaco

```

Label Creation

WSI2_CreationEtiquette method

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

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}\$
ModeCol	O	List of predefined values
Collection mode		^(CCC CDR CDS REL)\$
ModeLiv	O	List of predefined values
Mode of delivery		^(LCC LD1 LDS 24R 24L 24X ESP DRI)\$
NDossier	F	15 characters
Merchant shipment reference.e:g invoice number		^([0-9A-Z_-]{0,15})\$
NClient	F	9 characters
Consignee reference		^([0-9A-Z]{0,9})\$
Expe_Langage	O	2 fix characters
Sender's language		ISO code, for french : FR ^[A-Z]{2}\$
Expe_Ad1	O	32 characters
Sender (Particulars Name First name) Accepted particulars = 'MR', 'M.', 'MME', 'MLE' et 'MLLE'		^[0-9A-Z_\-'./]{2,32}\$ Particulars : ^((MR M. M MME MLE MLLE))\$
Expe_Ad2	F	32 characters
Sender (Other name information)		^[0-9A-Z_\-'./]{0,32}\$
Expe_Ad3	O	32 characters
Sender (Street)		^[0-9A-Z_\-'./]{2,32}\$

Parameters	Facultative / Obligatory	Comment
Expe_Ad4	F	32 characters
Sender (Extra address information)		^[0-9A-Z_\-' , /]{0,32}\$
Expe_Ville	O	Depends on the country, for France :
Sender (City)		26 characters ^[A-Z_\-']{2,26}\$
Expe_CP	O	Depends on the country, for France :
Sender (Zipcode)		5 fix numerical characters ^[0-9]{5}\$
Expe_Pays	O	2 fix characters
Sender (Country code) (ISO code : FR, BE...)		ISO code, for France : FR ^[A-Z]{2}\$
Expe_Tel1	O	Depends on the country, for France :
Sender (Phone number)		13 numerical characters ^((00 \+)33 0)[0-9][0-9]{8}\$
Expe_Tel2	F	Format depends on the country, for France :
Sender (Cell number)		13 numerical characters ^((00 \+)33 0)[0-9][0-9]{8}\$
Expe_Mail	F	70 characters
Sender (E-mail)		Format e-mail RFC2822 ^[w\-\._@_]{7,70}\$
Dest_Langage	O	2 fix characters
Sender language		ISO code, for french : FR ^[A-Z]{2}\$
Dest_Ad1	O	32 characters
Consignee (Particulars Name First name) 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
Consignee (Other name information)		^[0-9A-Z_\-' , /]{0,32}\$

Parameters	Facultative / Obligatory	Comment
Dest_Ad3	O	32 characters
Consignee (Street)		<code>^[0-9A-Z_\-\', /]{2,32}\$</code>
Dest_Ad4	F	32 characters
Consignee (Extra address information)		<code>^[0-9A-Z_\-\', /]{0,32}\$</code>
Dest_Ville	O	Depends on the country, for France : 26 characters
Consignee (City)		<code>^[A-Z_\-']{2,26}\$</code>
Dest_CP	O	Depends on the country, for France : 5 fix numerical characters
Consignee (Zipcode)		<code>^[0-9]{5}\$</code>
Dest_Pays	O	2 fix characters
Consignee (Country code) (ISO code : FR, BE...)		ISO code, for France : FR <code>^[A-Z]{2}\$</code>
Dest_Tel1	O/F	Depends on the country, for France : 13 numerical characters
Consignee (Phone number), Obligatory for home delivery		<code>^((00 \+)33 0)[0-9][0-9]{8}\$</code>
Dest_Tel2	F	Depends on the country, for France : 13 numerical characters
Consignee (Cell phone)		<code>^((00 \+)33 0)[0-9][0-9]{8}\$</code>
Dest_Mail	F	70 characters
Consignee (E-mail)		RFC2822 e-mail format <code>^[w\-\.\@_]{7,70}\$</code>
Poids	O	7 numerical characters
Weight in grams		<code>^[0-9]{3,7}\$</code>
Longueur	F	3 numerical characters
Developped lenght in cm		<code>^[0-9]{0,3}\$</code>
Taille	F	List of predefined values
Unless otherwise mentioned by Mondial Relay, please leave this field empty.		<code>^(XS S M L XL XXL 3XL)\$</code>

Parameters	Facultative / Obligatory	Comment
NbColis	O	2 numerical characters
Number of parcels in the shipment		^[0-9]{1,2}\$
CRT_Valeur	O	7 numerical characters
COD shipment value in cents		^[0-9]{1,7}\$
CRT_Devis	F	List of predefined values
Currency of COD value, « EUR » by default		^(EUR)\$
Exp_Valeur	F	7 numerical characters
Shipment value in cents		^[0-9]{0,7}\$
Exp_Devis	F	List of predefined values
Currency of shipment value, « EUR » by default		^(EUR)\$
COL_Rel_Pays	O/F	2 fix characters
Obligatory if collected at Point Relais®		ISO code, for France : FR ^[A-Z]{2}\$
COL_Rel	O/F	6 fix numerical characters
Obligatory if collected at Point Relais®		^([0-9]{6})\$
LIV_Rel_Pays	O/F	2 fix characters
Obligatory if delivered at Point Relais®		ISO code, for France : FR ^[A-Z]{2}\$
LIV_Rel	O/F	6 fix numerical characters
Obligatory if delivered at Point Relais®		^([0-9]{6})\$
Tavisage	F	List of predefined values
<p>Notification request for this shipment. « O » for « Yes » and « N » for « No »</p> <p>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.</p>		^(O N)\$

Parameters	Facultative / Obligatory	Comment
TReprise	F	List of predefined values
« O » for « Yes » and « N » for « No » « N » by default.		^(O N)\$
Montage	F	3 numerical characters
Assembly time « 0 » by default.		^([0-9]{1,3})\$
TRDV	F	List of predefined values
Request for delivery appointment : « O » for « Yes » and « N » for « No » « N » by default Warning : Please leave this zone empty. We don't use this information.		^(O N)\$
Assurance	F	1 character
Insurance coverage. « 0 » by default. Please contact Mondial Relay to know the different insurance coverage available.		^([0-9A-Z]{1})\$
Instructions	F	31 characters
Extra information		^[0-9A-Z_\'-.,/]{0,31}
Security	O	32 fix characters
Security code		^[0-9A-Z]{32}\$
Texte	F	336 characters
10 x 30 characters separated by « (cr) » WARNING: Please do not take into consideration for the security key calculation.		^([\^<>']{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.

Phone number format :

```

"(" + "\\+33" + "[1-9][0-9]{8}" + ")" // France
+ "|" + "\\+32" + "[0-9]{8}" + ")" // Belgium
+ "|" + "\\+32" + "[4][0-9]{8}" + ")" // Belgium
+ "|" + "\\+352" + "[0-9]{6,10}" + ")" // Luxembourg
+ "|" + "\\+351" + "[0-9]{9}" + ")" // Portugal
+ "|" + "\\+34" + "9[0-9]{8}" + ")" // Spain
+ "|" + "\\+34" + "6[0-9]{8}" + ")" // Spain
+ "|" + "\\+49" + "[0-9]{10,11}" + ")" // Germany
+ "|" + "\\+39" + "[0-9]{10}" + ")" // Italy
+ "|" + "\\+377" + "[0-9]{5}" + ")" // Monaco
+ ")"

```

Out parameters

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

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

Out parameters

Parameters	Facultative / Obligatory	Comment
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	

Parameters	Facultative / Obligatory	Comment
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)		^[A-Z]{2}\$

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

Out parameters

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

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
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	

Status code	Description
20	Incorrect parcel weight
21	Incorrect developed length (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)
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

Status code	Description
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
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

Status code	Description
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.
93	<p>No information given by the sorting plan.</p> <p>If you want to do a collection or delivery at Point Relais, please check it is available.</p> <p>If you want to do a home delivery, please check if the zipcode exists.</p>
94	Unknown parcel
95	Merchant account not activated

Status code	Description
96	
97	Incorrect security key Cf. : § « Generating the security key »
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 « [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_Seurite = 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_Seurite // Hash MD5
);
if (WS_Retour.STAT == "0") { /* Traitement normal */ } else { /* Traitement des erreurs */ }
```

PHP language

Method request « WSI3_RecherchePointRelais » 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' => "",
);

// 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'
);

// 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

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("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>" & _
"<WSI3_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>" & _
"<Security xsi:type=""xsd:string"">" & security & "</Security>" & _
"</WSI3_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

%>
```