



Flexibilité – Tracking Business Solutions

Colissimo Web Service for Parcel Tracking

Technical document – Version November 2015
Specifications of Colissimo Tracking Web Service

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I. Introduction to SOAP

La Poste provides a WebService for its customers. This service returns tracking information about parcels shipped on their behalf.

This document gives general information about the SOAP protocol used as well as information about accessing this Web Service.

I.1 Definition of a Web Service

A Web Service is an IT programme which enables real-time communication and data exchanges between different applications and systems in distributed environments without the need for human intervention.

Web Services offer these functions in the form of executable services or remote procedures (Remote Procedure Calls). Their specifications are based on a standard exchange protocol: SOAP (Simple Object Access Protocol).

SOAP is based on a transport protocol (HTTP, SMTP or POP) and a language structuring the data exchanged in the form of messages: XML.

An example of an HTTP request and response, containing SOAP messages in the form of an XML code "envelope".

Source: W3C <http://www.w3.org/TR/soap/>

Request:

```
POST /StockQuote HTTP/1.1
Host: www.stockquoteserver.com
Content-Type: text/xml; charset="utf-8"
Content-Length: nnnn
SOAPAction: "Some-URI"

<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">

  <SOAP-ENV:Body>
    <m:GetLastTradePrice xmlns:m="Some-URI">
      <symbol>DIS</symbol>
    </m:GetLastTradePrice>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Response:

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset="utf-8"
Content-Length: nnnn

<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">

  <SOAP-ENV:Body>
    <m:GetLastTradePriceResponse xmlns:m="Some-URI">
      <Price>34.5</Price>
    </m:GetLastTradePriceResponse>
  </SOAP-ENV:Body>

</SOAP-ENV:Envelope>
```

I.2 SOAP Client Implementation

You must have a "client implementation" to access a SOAP Web Service.

Here is a non-exhaustive list for the most common languages:

Language	SOAP client implementation
Java	Apache Axis: http://ws.apache.org/axis/index.html
.Net (C#, VB.Net, ASP.Net)	Microsoft SOAP Toolkit : http://msdn.microsoft.com/webservices/
Perl	SOAP::Lite: http://www.soaplite.com/
C++	Apache Axis C++: http://ws.apache.org/axis/cpp gSOAP C++: http://www.cs.fsu.edu/~engelen/soap.html SOAP C++ SQLData: http://www.sqldata.com/soapclient/soapclient30.htm
PHP	PHP-SOAP: http://phpsoaptoolkit.sourceforge.net/phpsoap/ PEAR SOAP Client/Server for PHP: http://pear.php.net/package/SOAP
Python	Python Web Services: http://pywebsvcs.sourceforge.net/

II. Parcel Tracking Web Service

II.1 Subscribing to the service

To enable the tracking Web Service on your account, prior subscription to the service on the business portal is needed. To do so:

Step 1- Log onto the business portal with the login/password of the account in question, and then select the section: "Your tools/Tracking of your parcels for your addressees".

Step 2- Download and read the terms and conditions of use before validating the request.

Step 3- Check the acceptance box for the General Terms & Conditions, then validate.

Once the request is validated, the subscription is immediately activated.

The use of the Parcel Tracking Web Service must comply with the General Terms & Conditions approved by the Customer.

Any use deemed non-compliant by the La Poste shall result in the service being stopped without notice

II.2 URL

The tracking Web Service is accessible at this address during production:

<https://www.coliposte.fr/tracking-chargeur-cxf/TrackingServiceWS?wsdl>

This service requires:

1. a Colissimo contract number
2. a password
3. the provision of client IP addresses invoking the Web Service

II.3 Invoking the service

The Service is invoked through an HTTP or HTTPS request encapsulating a parcel tracking search request.

The service can be accessed using the SOAP protocol by calling an XML/HTTP URL and passing parameters (with no types being assigned to the input fields):

[https://www.coliposte.fr/tracking-chargeur-cxf/TrackingServiceWS/track?accountNumber=\[accountNumber\]&password=\[password\]&skybillNumber=\[skybillNumber\]](https://www.coliposte.fr/tracking-chargeur-cxf/TrackingServiceWS/track?accountNumber=[accountNumber]&password=[password]&skybillNumber=[skybillNumber])

Parameter	Meaning	Comments
accountNumber	Client contract number	6 numeric characters (NNNNNN)
Password	Password	
skybillNumber	Parcel number	12 or 13 alphanumeric characters

Example: <https://www.coliposte.fr/tracking-chargeur-cxf/TrackingServiceWS/track?accountNumber=123456&password=ABC123&skybillNumber=8V12345678901>

Example of a SOAP envelope:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <track xmlns="http://chargeur.tracking.geopost.com/">
      <accountNumber xmlns="">123456</accountNumber>
      <password xmlns="">ABC123</password>
      <skybillNumber xmlns="">8V12345678901</skybillNumber>
    </track>
  </s:Body>
</s:Envelope>
```

II.4 Response

The response is provided in the form of a SOAP structure of the following type
SkybillInformationResult

Parameter	Meaning	Type
-----------	---------	------

errorMessage	Error description	String[0..1]
errorCode	Error code (see coding below)	int[0..1]
eventCode	Parcel event code according to the INOVERT coding	String[0..1]
eventDate	<p>Date and time of the parcel event in the YYYY-MM-DDTHH:MM:SS±hh:mm format where:</p> <p>T: a constant separating the date from the time</p> <p>±hh:mm corresponds to the offset in respect of universal time (UTC)</p>	Date
eventLibelle	Parcel event description	String[0..1]
eventSite	Parcel event site	String[0..1]
recipientCity	Addressee city	String[0..1]
recipientCountryCode	Addressee country code, Iso norm	String[0..1]
recipientZipCode	Addressee postcode	String[0..1]
skybillNumber	Parcel number	String[0..1]

Example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:trackResponse xmlns:ns1="http://chargeur.tracking.geopost.com/">
      <return>
        <errorCode>0</errorCode>
        <eventCode>RENAVI</eventCode>
        <eventDate>2009-05-18T00:00:00+02:00</eventDate>
        <eventLibelle>Rendu - destinataire avisé</eventLibelle>
      </return>
    </ns1:trackResponse>
  </soap:Body>
</soap:Envelope>
```

```

        <eventSite> Agence Seine Maritime </eventSite>

        <recipientCity>Sainte-Gemme Moronval</recipientCity>

        <recipientCountryCode>FR</recipientCountryCode>

        <recipientZipCode>28500</recipientZipCode>

        <skybillNumber>8V12345678901</skybillNumber>

    </return>

</ns1:trackResponse>

</soap:Body>

</soap:Envelope>

```

II.5 Event returned

The Web Service returns the last event available when the query is made in the form of a code with its meaning established according to the INOVERT standard.

III. Error Codes

Error code	Comments
0	No error
101	Invalid parcel number
103	Parcel number more than 30 days' old
104	Parcel number outside customer range
105	Unknown parcel number
201	Invalid identifier/password
202	Unauthorised service for this identifier
1000	System error (technical error)

IV. Contacts

La Poste - Colissimo provides you with support, which we advise you to call in the following cases:

<p>Preliminary study & Solution deployment</p>	<p>For any technical issue related with the solution described in this document:</p> <ul style="list-style-type: none"> Customer Solutions Support, at 0241.742.088, from Monday to Friday, 9 am to 6 pm.
<p>Operational phase, after solution deployment</p>	<p>In case of failure, anomaly or incident:</p> <ul style="list-style-type: none"> The Service Centre on 0825.086.005, from Monday to Friday, from 8am to 6pm. Say "Incident", then "Solutions Web" when asked to choose. <p>The availability and proper operation of our systems are supervised, even outside these hours.</p>