



Web Services Proxy

NZPost tracking web service

V0.5

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Document Management

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Introduction

The purpose of this document is to describe the NZPost Tracking web service. All acronyms used in this document can be found in the Glossary.

Intended Audience

This document should be read by the technical development team, in order to create a connection to the service.

Overview

The service gives third parties the ability to electronically check the status of parcels tracked by New Zealand Post.

A request for a single tracking number can be made via a URL or via an HTTP POST using XML over an HTTP or HTTPS connection. A response is then made over the same connection in XML format. A request for multiple tracking numbers can be made in a similar fashion.

Note that not all parcels are tracked by NZ Post. For a complete list of prefixes that are tracked, please see <http://www.nzpost.co.nz/Cultures/en-NZ/OnlineTools/Tracking/WhatsTrackedWhatsNot/WhatsTrackednWhatsNot.htm>

(This list, current as at 23/04/2009 is also listed in Appendix B)

Glossary

Note that these terms are detailed in terms of the track and trace service. For full descriptions of the terms please refer to relevant RFC documents or Wikipedia.

HTTP/HTTPS	Hypertext Transfer Protocol request / response protocol used on the internet. HTTPS is Secure HTTP and relies on certificates to implement encrypted traffic
Web Service	The track and trace web service is a WCF service wrapper for an NZ Post internal service.
WCF	Windows Communication Foundation. Application Programming Interface used to build applications that intercommunicate. Configuration changes made to WCF allow services to be consumed via different methods (for example REST HTTP GET vs XML/SOAP).WCF Endpoints also allow for control of web traffic and access to a particular service.
REST	Representational State Transfer. In terms of the track and trace service, the important principal of REST applied here is that each tracking number is uniquely addressable and represents a unique resource. As such it can be easily referenced in a URI.
SOAP/XML	A protocol whereby objects are serialized / deserialized into XML for submission over a network.
Online Code (FLAG)	Online Code + Status Code relates to the Status Description returned. Unfortunately the Status Code itself is not returned in the service. This value is returned for reasons of completeness.
URI	Uniform Resource Identifier (often used interchangeably with URL (Uniform Resource Locator)), used to uniquely identify a resource on the internet
JSON	Java Script Object Notation. A lightweight representation of an object in JavaScript format.
JSONP	JSON with Padding. Padding refers to padding the data with a method call. This method call is then run when the output is returned to the calling page. This allows calls to JSON-enabled services to be made cross-domain (for example a site called http://www.thisisacrossdomain.co.uk could call a service at http://service.nzpost.co.nz/service.svc

Messaging Protocol

A request for a single tracking number can be made via an HTTP get request using the REST syntax or via a raw HTTP POST using XML over an HTTP or HTTPS connection. A response is then made over the same connection in XML format. A request for multiple tracking numbers can be made in a similar fashion.

Requests made via SOAP/XML consist of an HTTP Request Header followed by raw XML. A response is then made over the same connection in XML format.

Requests made via REST are made via a URL in a particular format. Only a single Tracking number can be requested via this method. A response is then made over the same connection in XML format.

Requests for JSON objects are requested via a URL containing a JSON endpoint and a format parameter of JSON. The endpoint ensures the service response is returned as JSON, the format string ensures the response is padded with a method call.

Response Structure

The XML Response consists of the following elements:

- A TrackingResults object containing a results object. Each results object consists of one more result items.
- Each result consists of
 - A TrackingNumber (for example AB123456789NZ)
 - A ShortDescription (Of the current status of the parcel)
 - A DetailedDescription (Of the current status of the parcel, expanding on the description above)
 - And optionally, an EventHistory.
 - The EventHistory contains one or more Event objects consisting of
 - A Flag (see Appendix A; Online codes)
 - A Description (for example: Delivered)
 - An EventDate (That the event occurred)
 - And an EventTime (That the event occurred)

An example is as follows:

```
<results xmlns="">
  <result>
    <trackingnumber>string</trackingnumber>
    <shortdescription>string </shortdescription>
    <detaileddescription>string</detaileddescription>
    <eventhistory>
      <eventhistory>
        <eventdate>string</eventdate>
        <eventtime>string</eventtime>
        <flag>string</flag>
        <description>string</description>
      </eventhistory>
      <eventhistory>
        <eventdate>string</eventdate>
        <eventtime>string</eventtime>
        <flag>string</flag>
        <description>string</description>
      </eventhistory>
    </eventhistory>
  </result>
</results>
```

Notes on API key and Version

API Keys will be issued on request. Replace the text {APIKEY} with this value. In future users will be able to register for NZPost services directly.

Current version of the API is 1_0. Replace the text {VERSION} with this value.

If you wish to test the service without actually connecting to live data use MockProvider_1_0 as the version. There is more information on how to use the Mock provider in a later section

TrackID

This function is used to return the status of a single tracking request.

SOAP

Request

The following is a sample SOAP request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /NZPostTracking.svc/soap HTTP/1.1
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://services.nzpost.co.nz/NZP/NZPostTracking/INZPostTracking_1_0/TrackID"
Host: services.nzpost.co.nz
Content-Length: length
Expect: 100-continue
Connection: Keep-Alive

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <TrackID xmlns="http://services.nzpost.co.nz/NZPostTracking">
      <version>{VERSION}</version>
      <apiKey>{APIKEY}</apiKey>
      <IPAddress>{userIPAddress}</IPAddress>
      <trackingID>{trackingID}</trackingID>
    </TrackID>
  </s:Body>
</s:Envelope>
```

Response

```
HTTP/1.1 200 OK
Date: Tue, 09 Feb 2010 03:29:32 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/xml; charset=utf-8
Content-Length: length

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <TrackIDResponse xmlns="http://services.nzpost.co.nz/NZPostTracking">
      <TrackIDResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <results xmlns="">
          <result>
            <trackingnumber>string</trackingnumber>
            <shortdescription>string </shortdescription>
            <detaileddescription>string</detaileddescription>
            <eventhistory>
              <eventhistory>
                <eventdate>string</eventdate>
                <eventtime>string</eventtime>
                <flag>string</flag>
                <description>string</description>
              </eventhistory>
              <eventhistory>
                <eventdate>string</eventdate>
                <eventtime>string</eventtime>
                <flag>string</flag>
                <description>string</description>
              </eventhistory>
            </eventhistory>
          </result>
        </results>
      </TrackIDResult>
    </TrackIDResponse>
```

```
</s:Body>
</s:Envelope>
```

REST

Request

Version is the current version of the API. Eg. 1_0

API Key is the API Key you were supplied with.

UserIPAddress is the IP Address of the end user using your page. This is different from the IP address of the server calling the NZPost service.

TrackingID is the ID being requested – for example AA000000001NZ.

```
GET
http://services.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/{VERSION}/{APIKEY}/{UserIPAd
dress}/{trackingID}
```

Response

```
HTTP/1.1 200 OK
Date: Tue, 09 Feb 2010 03:34:29 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: application/xml; charset=utf-8
Content-Length: length

<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <results>
    <result>
      <trackingnumber>
        string
      </trackingnumber>
      <shortdescription>
        string
      </shortdescription>
      <detaileddescription>
        string
      </detaileddescription>
      <eventhistory>
        <eventhistory>
          <eventdate>string</eventdate>
          <eventtime>string</eventtime>
          <flag>string</flag>
          <description>string</description>
        </eventhistory>
        <eventhistory>
          <eventdate>string</eventdate>
          <eventtime>string</eventtime>
          <flag>string</flag>
          <description>string</description>
        </eventhistory>
      </eventhistory>
    </result>
  </results>
</trackingresults>
```

JSONP, using jQuery

Request

Copy the following into an Html page, update the values in the {}'s and run.

```
<html>
  <head>
    <script type="text/javascript" src="jquery-1.3.2.min.js">
    </script>
    <script type="text/javascript">
      $(function(){
        $("#span").click(function(event){
          var trackingNumber = $("#trackingNumber").val();
          alert("I'll just go get "+trackingNumber+" for you");

          $.ajax({type:"GET",
            url:
"http://services.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/Json/{VERSION}/{APIKEY}/{USER
IPAddress}/"+trackingNumber+"?format=json",
            contentType: "application/json; charset=utf-8",
            dataType: "jsonp",
            success: function(data){
              //callback function
              alert(data.results[0].shortdescription);
            }
          });
        });
      });
    </script>
  </head>
  <body>
    <input type="text" id="trackingNumber"/>
    <span style="color:blue;">Click</span>
    <div id="TResult" class="TResult"></div>
  </body>
</html>
```

Response

Note that the callback method name is created by the jQuery ajax call. Note also that this is not a genuine tracking ID number

```
HTTP/1.1 200 OK
Date: Tue, 09 Feb 2010 03:42:20 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: application/json; charset=utf-8
Content-Length: 542

jsonp1265686897010({"results":[{"trackingnumber":"SA123456789NZ","shortdescription":"Del
ivered Signature","detaileddescription":"Your item number SA123456789NZ was delivered
at 5:40 a.m. on 22 Sep 2009 and was signed for by \"wCP110
NZPOSTSVSCNTRE\"","eventhistory":[{"eventdate":"21\09\2009","eventtime":"16:20","flag"
:"13","description":"Acceptance"},{"eventdate":"22\09\2009","eventtime":"04:59","flag"
:"32","description":"Out for
Delivery"},{"eventdate":"22\09\2009","eventtime":"05:40","flag":"22","description":"De
livered"}]}]);
```

TrackIDs

This function is used to return the status of multiple requests.

SOAP

Request

The following is a sample SOAP request and response. The **placeholders** shown need to be replaced with actual values.

```
POST /NZPostTracking.svc/soap HTTP/1.1
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://services.nzpost.co.nz/NZP/NZPostTracking/INZPostTracking_1_0/TrackIDs"
Host: services.nzpost.co.nz
Content-Length: length
Expect: 100-continue
Connection: Keep-Alive

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <TrackIDs xmlns="http://services.nzpost.co.nz/NZPostTracking">
      <version>{VERSION}</version>
      <apiKey>{APIKEY}</apiKey>
      <IPAddress>{userIPAddress}</IPAddress>
      <trackingIDs>
        <trackingID>{trackingID}</trackingID>
        <trackingID>{trackingID}</trackingID>
      </trackingIDs>
    </TrackIDs>
  </s:Body>
</s:Envelope>
```

Response

```
HTTP/1.1 200 OK
Date: Tue, 09 Feb 2010 03:29:32 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/xml; charset=utf-8
Content-Length: length

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <TrackIDsResponse xmlns="http://services.nzpost.co.nz/NZPostTracking">
      <TrackIDsResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <results xmlns="">
          <result>
            <trackingnumber>
              string
            </trackingnumber>
            <shortdescription>
              string
            </shortdescription>
            <detaileddescription>
              string
            </detaileddescription>
            <eventhistory>
              <eventhistory>
```

```

        <eventdate>string</eventdate>
        <eventtime>string</eventtime>
        <flag>string</flag>
        <description>string</description>
    </eventhistory>
    <eventhistory>
        <eventdate>string</eventdate>
        <eventtime>string</eventtime>
        <flag>string</flag>
        <description>string</description>
    </eventhistory>
</eventhistory>
</result>
<result>
    <trackingnumber>
        string
    </trackingnumber>
    <shortdescription>
        string
    </shortdescription>
    <detaileddescription>
        string
    </detaileddescription>
    <eventhistory>
        <eventhistory>
            <eventdate>string</eventdate>
            <eventtime>string</eventtime>
            <flag>string</flag>
            <description>string</description>
        </eventhistory>
        <eventhistory>
            <eventdate>string</eventdate>
            <eventtime>string</eventtime>
            <flag>string</flag>
            <description>string</description>
        </eventhistory>
    </eventhistory>
</result>
</results>
</TrackIDsResult>
</TrackIDsResponse>
</s:Body>
</s:Envelope>

```

REST

Request

Version is the current version of the API. For example; 1_0

API Key is the API Key you were supplied with.

UserIPAddress is the IP Address of the end user using your page. This is different from the IP address of the server calling the NZPost service.

TrackingID is the ID being requested – for example AA000000001NZ. Each of these is separated by a comma

```
http://services.nzpost.co.nz/NZP/NZPostTracking.svc/TrackIDs/{VERSION}/{APIKEY}/{userIPAddress}/{trackingID},{trackingID}
```

Response

```
HTTP/1.1 200 OK
Date: Tue, 09 Feb 2010 03:46:00 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: application/xml; charset=utf-8
Content-Length: 1603

<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <results>
    <result>
      <trackingnumber>
        string
      </trackingnumber>
      <shortdescription>
        string
      </shortdescription>
      <detaileddescription>
        string
      </detaileddescription>
      <eventhistory>
        <eventhistory>
          <eventdate>string</eventdate>
          <eventtime>string</eventtime>
          <flag>string</flag>
          <description>string</description>
        </eventhistory>
        <eventhistory>
          <eventdate>string</eventdate>
          <eventtime>string</eventtime>
          <flag>string</flag>
          <description>string</description>
        </eventhistory>
      </eventhistory>
    </result>
    <result>
      <trackingnumber>
        string
      </trackingnumber>
      <shortdescription>
```

```

        string
    </shortdescription>
    <detaileddescription>
        string
    </detaileddescription>
    <eventhistory>
        <eventhistory>
            <eventdate>string</eventdate>
            <eventtime>string</eventtime>
            <flag>string</flag>
            <description>string</description>
        </eventhistory>
        <eventhistory>
            <eventdate>string</eventdate>
            <eventtime>string</eventtime>
            <flag>string</flag>
            <description>string</description>
        </eventhistory>
    </eventhistory>
</result>
</results>
</trackingresults>

```

JSONP using jQuery

Request

Copy the following into an Html page and run.

```

<html>
  <head>
    <script type="text/javascript" src="jquery-1.3.2.min.js">
    </script>
    <script type="text/javascript">
      $(function(){
        $("span").click(function(event){
          var trackingNumber1 = $("#trackingNumber1").val();
          var trackingNumber2 = $("#trackingNumber2").val();
          alert("I'll just go get "+trackingNumber1+","+trackingNumber2+" results
for you");

          $.ajax({type:"GET",
            url:
"http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackIDs/Json/VERSION/7442ee81-
432c-41cf-9044-
45c98547d54a/10.1.2.3/"+trackingNumber1+","+trackingNumber2+"?format=json",
            contentType: "application/json; charset=utf-8",
            dataType: "jsonp",
            success: function(data){
              //callback function
              alert(data.results[0].shortdescription);
              alert(data.results[1].shortdescription);
            }
          });
        });
      });
    </script>
  </head>
  <body>
    <input type="text" id="trackingNumber1"/>
    <input type="text" id="trackingNumber2"/>
    <span style="color:blue;">Click</span>
    <div id="TResult" class="TResult"></div>
  </body>

```

</html>

Response

```
HTTP/1.1 200 OK
Date: Wed, 10 Feb 2010 02:13:35 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: application/json; charset=utf-8
Content-Length: 1178
```

```
jsonp1265767956999({"results":[{"trackingnumber":"SA430122587NZ","shortdescription":"Delivered Signature","detaileddescription":"Your item number SA430122587NZ was delivered at 5:40 a.m. on 22 Sep 2009 and was signed for by \"WCP110 NZPOSTSVSCNTRE\"","eventhistory":[{"eventdate":"21/09/2009","eventtime":"16:20","flag":"13","description":"Acceptance"},{"eventdate":"22/09/2009","eventtime":"04:59","flag":"32","description":"Out for Delivery"},{"eventdate":"22/09/2009","eventtime":"05:40","flag":"22","description":"Delivered"}]},{"trackingnumber":"EA820585847NZ","shortdescription":"Error - We don't appear to have a record of that item number (EA820585847NZ). However the item details may not have been received into our tracking system yet. Please try again later or call 0800 501501 should you require further assistance.","detaileddescription":"<P>Sorry, but your tracking number is not valid. Please ensure your tracking numbers are:</P><UL><LI>Accurately typed</LI><LI>In the format XX123456789XX</LI><UL><P>If you have any questions please check out our <A href=\"http://www.nzpost.co.nz/faq\">frequently asked questions.</A></P>","eventhistory":[]}]});
```

Using the Mock service

In order to test the service without calling actual data, use a version number of MockProvider_1_0

Examples, using REST syntax:

Testing the progression of an item through its statuses

You can fake the progression of an item through its tracking states by using the ID BB00000001NZ and incrementing the userIPAddress (starting at 10.10.10.1, ending at 10.1.10.4).

IP: 10.10.10.1

This IP address returns a “not found” response. This is typical if you have sent your item, but it hasn't yet been entered into the system.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.1/BB00000001NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>BB00000001NZ</trackingnumber><shortdescription>Err
or - We don't appear to have a record of that item number (BB00000001NZ). However the item
details may not have been received into our tracking system yet. Please try again later or
call 0800 501501 should you require further
assistance.</shortdescription><detaileddescription>&lt;/P&gt;Sorry, but your tracking number is
not valid. Please ensure your tracking numbers are:&lt;/P&gt;&lt;UL&gt;&lt;LI&gt;Accurately
typed&lt;/LI&gt;&lt;LI&gt;In the format XX123456789XX&lt;/LI&gt;&lt;UL&gt;&lt;P&gt;If you have
any questions please check out our &lt;A href="http://www.nzpost.co.nz/faq"&gt;frequently
asked
questions.&lt;/A&gt;&lt;/P&gt;</detaileddescription><eventhistory/></result></results></tracki
ngresults>
```

IP: 10.10.10.2

This IP address returns the first real status, which is “Accepted”.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.2/BB00000001NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>BB00000001NZ</trackingnumber><shortdescription>Acc
epted</shortdescription><detaileddescription>Your item BB00000001NZ has been picked up at
4:29 PM on 21 Sep 2009. Confirmation of delivery details are not yet available. Please try
again
later.</detaileddescription><eventhistory><eventhistory><eventdate>21/09/2009</eventdate><even
ttime>16:29</eventtime><flag>13</flag><description>Acceptance</description></eventhistory></ev
enthistory></result></results></trackingresults>
```

IP: 10.10.10.3

This IP address returns the second normal status, which is “Out For Delivery”.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.3/BB000000001NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>BB000000001NZ</trackingnumber><shortdescription>Out
for Delivery</shortdescription><detaileddescription>Your item number BB000000001NZ was picked
up at 4:59 AM on 22 Sep 2009 and is currently with a courier for delivery. Confirmation of
delivery details are not yet available. Please try again
later.</detaileddescription><eventhistory><eventhistory><eventdate>21/09/2009</eventdate><even
ttime>16:29</eventtime><flag>13</flag><description>Acceptance</description></eventhistory><eve
nthisory><eventdate>22/09/2009</eventdate><eventtime>04:59</eventtime><flag>32</flag><descrip
tion>Out for
Delivery</description></eventhistory></eventhistory></result></results></trackingresults>
```

IP: 10.10.10.4

This last IP address returns the normal end status, which is “Delivered”.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.4/BB000000001NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>BB000000001NZ</trackingnumber><shortdescription>Del
ivered Signature</shortdescription><detaileddescription>Your item number BB000000001NZ was
delivered at 5:40 a.m. on 22 Sep 2009 and was signed for by "WCP110
NZPOSTSVSCNTRE"</detaileddescription><eventhistory><eventhistory><eventdate>21/09/2009</eventd
ate><eventtime>16:29</eventtime><flag>13</flag><description>Acceptance</description></eventhis
tory><eventhistory><eventdate>22/09/2009</eventdate><eventtime>04:59</eventtime><flag>32</flag
><description>Out for
Delivery</description></eventhistory><eventhistory><eventdate>22/09/2009</eventdate><eventtime
>05:40</eventtime><flag>22</flag><description>Delivered</description></eventhistory></eventhis
tory></result></results></trackingresults>
```

Testing a “not found” response

By using the AA000000001NZ tracking ID, you can get a “not found” response.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.3/AA000000001NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>AA000000001NZ</trackingnumber><shortdescription>Err
or - We don't appear to have a record of that item number (AA000000001NZ). However the item
details may not have been received into our tracking system yet. Please try again later or
call 0800 501501 should you require further
assistance.</shortdescription><detaileddescription>&lt;P&gt;Sorry, but your tracking number is
not valid. Please ensure your tracking numbers are:&lt;/P&gt;&lt;UL&gt;&lt;LI&gt;Accurately
typed&lt;/LI&gt;&lt;LI&gt;In the format XX123456789XX&lt;/LI&gt;&lt;UL&gt;&lt;P&gt;If you have
any questions please check out our &lt;A href="http://www.nzpost.co.nz/faq"&gt;frequently
asked
questions.&lt;/A&gt;&lt;/P&gt;</detaileddescription><eventhistory/></result></results></tracki
ngresults>
```

Testing a “service down” error

By using the AA000000002NZ tracking ID, you can simulate the internal tracking service being unavailable.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.3/AA000000002NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>AA000000002NZ</trackingnumber><shortdescription>Err
or - Domestic service unavailable.</shortdescription><detaileddescription>Error - Sorry but
our domestic tracking service is temporarily unavailable. Please try again
later.</detaileddescription><eventhistory/></result></results></trackingresults>
```

Testing an invalid input request

If you enter an invalid tracking ID, the system returns the invalid input response. You can enter any invalid ID string; in the example "invalidstring" is used.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.3/invalidstring
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>invalidstring</trackingnumber><shortdescription>Err
or - Incorrect format.</shortdescription><detaileddescription>&lt;P&gt;Sorry, but your
tracking number is not valid. Please ensure your tracking numbers
are:&lt;/P&gt;&lt;UL&gt;&lt;LI&gt;Accurately typed&lt;/LI&gt;&lt;LI&gt;In the format
XX123456789XX&lt;/LI&gt;&lt;UL&gt;&lt;P&gt;If you have any questions please check out our
&lt;A href="http://www.nzpost.co.nz/faq"&gt;frequently asked
questions.&lt;/A&gt;&lt;/P&gt;&lt;/detaileddescription><eventhistory/></result></results></t
rackingresults>
```

Testing a valid request

This will always return a valid response, as long as your tracking ID is valid. The item will have progressed through the Accepted, Out For Delivery and Delivered states. Only the Tracking ID returned is updated in the response.

Request

```
http://services.dev.nzpost.co.nz/NZP/NZPostTracking.svc/TrackID/MockProvider_1_0/00000000-0000-0000-0000-000000000000/10.10.10.3/SA102109301NZ
```

Response

```
<trackingresults xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"><results><result><trackingnumber>SA102109301NZ</trackingnumber><shortdescription>Del
ivered Signature</shortdescription><detaileddescription>Your item number SA102109301NZ was
delivered at 5:40 a.m. on 22 Sep 2009 and was signed for by "WCP110
NZPOSTSVSCNTRE"</detaileddescription><eventhistory><eventdate>21/09/2009</eventd
ate><eventtime>16:29</eventtime><flag>13</flag><description>Acceptance</description></eventhis
tory><eventhistory><eventdate>22/09/2009</eventdate><eventtime>04:59</eventtime><flag>32</flag
><description>Out for
Delivery</description></eventhistory><eventhistory><eventdate>22/09/2009</eventdate><eventtime
>05:40</eventtime><flag>22</flag><description>Delivered</description></eventhistory></eventhis
tory></result></results></trackingresults>
```

Appendix A: Online Codes

Domestic

Online Code (FLAG)	Status Code (Not returned in XML)	Status Description	Item #	Example Response Message
13		Acceptance	ZR551632362NZ	Your item ZR551632362NZ has been picked up at 2:12 PM on 23 Nov 2005. Confirmation of delivery details are not yet available. Please try again later.
22	1	Delivered	ZR551632359NZ	Your item number ZR551632359NZ was delivered at 2:05 PM on 23 Nov 2005 and was signed for by "MATT".
51	2	Postshop Handover	ZR551632376NZ	Delivery was attempted for item ZR551632376NZ at 2:19 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options.
52	3	Carded to Depot	ZR551632380NZ	Delivery was attempted for item ZR551632380NZ at 2:21 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options and an automatic redelivery of this item will be made on Saturday
53	5	Unsafe Condition	ZR551632393NZ	Delivery was attempted for item ZR551632393NZ at 2:22 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options and an automatic redelivery of this item will be made on Saturday
53	5	No such address	ZR551632402NZ	Delivery was attempted for item ZR551632402NZ at 4:13 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options and an automatic redelivery of this item will be made on Saturday

53	5	Locked Out	ZR551632416NZ	Delivery was attempted for item ZR551632416NZ at 2:24 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options and an automatic redelivery of this item will be made on Saturday
50	4	Business Closed 9am	ZR551632420NZ	Delivery was attempted for item number ZR551632420NZ at 2:27 PM on 23 Nov 2005. This delivery was not delivered due to the business opening after 9am. A card to call has been left at the delivery address advising alternative delivery options
53	5	Attempted Other	ZR551632433NZ	Delivery was attempted for item ZR551632433NZ at 2:28 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options and an automatic redelivery of this item will be made on Saturday
57	1	Business Closed	ZR551632447NZ	Your item number ZR551632447NZ was undeliverable at 2:30 PM on 23 Nov 2005 as the business was closed. Please call 0800 COURIER (0800 268 7437) for further information
54	2	Missort	ZR551632455NZ	Your item number ZR551632455NZ has been delayed. Please try again later for further delivery information
54	3	Damaged	ZR551632464NZ	Your item number ZR551632464NZ was undeliverable at 2:33 PM on 23 Nov 2005 as the package may have suffered damage in transit. Please call 0800 COURIER (0800 268 7437) for further information
54	4	Undeliverable	ZR551632478NZ	Your item number ZR551632478NZ has been delayed. Please try again later for further delivery information
55	5	Split Delivery	ZR551632481NZ	Your item number ZR551632481NZ was undeliverable at 2:36 PM on 23 Nov 2005. Please call 0800 COURIER (0800 268 7437) for further information
54	6	Bulk Delivery	ZR551632495NZ	Your item number ZR551632495NZ has been delayed. Please try again later for further delivery information
59	7	Card to Call	ZR551632504NZ	Delivery was attempted for item ZR551632504NZ at 2:42 PM on 23 Nov 2005. This delivery was unsuccessful. A card to call has been left at the delivery address advising alternative delivery options and an automatic redelivery of this item will be made on Sa
58	8	Next Cycle	ZR551632518NZ	Your item number ZR551632518NZ was collected by the courier at 4:21 PM on 23 Nov 2005 and delivery will be made by the courier today.

32		Out for Delivery	ZR551632521NZ	Your item number ZR551632521NZ was picked up at 2:47 PM on 23 Nov 2005 and is currently with a courier for delivery. Confirmation of delivery details are not yet available. Please try again later
14	1	Postshop	ZR551632535NZ	Your item number ZR551632535NZ was picked up at 3:32 PM on 23 Nov 2005 and has been allocated for final delivery. Thank you for using CourierPost
14	2	Agent	ZR551632549NZ	Your item number ZR551632549NZ was picked up at 4:23 PM on 23 Nov 2005 and has been allocated for final delivery. Thank you for using CourierPost
14	3	RuralPost	ZR551632552NZ	Your item number ZR551632552NZ was picked up at 3:36 PM on 23 Nov 2005 and has been allocated for final delivery. Thank you for using CourierPost
14	4	CourierPost Run	ZR551632566NZ	Your item number ZR551632566NZ was picked up at 3:37 PM on 23 Nov 2005 and has been allocated for final delivery. Thank you for using CourierPost
14	5	Sub-Contractor	ZR551632570NZ	Your item number ZR551632570NZ was picked up at 3:38 PM on 23 Nov 2005 and has been allocated for final delivery. Thank you for using CourierPost
14	6	Other	ZR551632583NZ	Your item number ZR551632583NZ was picked up at 3:38 PM on 23 Nov 2005 and has been allocated for final delivery. Thank you for using CourierPost

International	Items coming to NZ
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Online Code (FLAG)	Status Description	Example Response Message
A	Picked up	Your item has been collected by the overseas postal service and is en route to their depot
B	Left country of origin	Your Item is in transit to New Zealand
C	Arrived in New Zealand	Your item has arrived in New Zealand
D	In New Zealand Customs	Your item is currently in NZ Customs
E	Left New Zealand Customs	Your item has left customs and is in transit to a NZ Post delivery depot for delivery
F	Delivery Complete	Your item has been successfully delivered.

International	Items leaving NZ
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Online Code (FLAG)	Status Description	Example Response Message
A	Picked up	Your item has been collected and is en route to an NZ Post depot for sorting
B	Left New Zealand	Your Item is in transit to its country of destination
C	Arrived overseas	Your item has arrived at its country of destination
D	In customs	Your item is currently in Customs
E	Left customs	Your item has left customs and is in transit to a delivery depot for delivery
F	Delivery Complete	Your item has been successfully delivered.

Special International codes

Online Code (FLAG)	Status Description	Example Response Message
G1-24	Delivery failed	Delivery was attempted but was not able to be completed for the following reason: <<insert delivery status failed message>> Please call us on XXXXXXXX if you have any questions
H	Tracking number does not exist	Tracking number does not exist
J	Tracking number exists but is Archived	Tracking number exists but is Archived
K, will also include string of digits for Service provider ID	More Information	For more information click here. <link to http://www.dhl.com/cgi-bin/tracking.pl?AWB=1234567890&FORMAT=HTML Where 1234567890 is the service provider ID returned
L, will also include alpha numeric return <name>	Delivery Complete	Your item has been successfully delivered and was signed for by <insert name>. Where <insert name> is replaced by the returned Alpha Numeric that accompanies the flag

Appendix B: Tracking number prefixes tracked by NZ Post (as at 23/04/2009)

Within New Zealand Tracking Number Prefixes

00, AG, AH, AI, AJ, AK, AL, AM, AN, BC, BS, BU, BW, CA, CB, CC, CD, CE, CG, CH, CI, CJ, CK, CL, CN, CO, CP, CV, CX, CY, CZ, DC, DE, DF, DI, DP, DV, DZ, EA, EB, ED, EE, EF, EG, EH, EI, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EW, EY, EZ, FF, FG, FJ, FS, GA, GD, GE, GP, GT, HE, HS, IB, IC, IE, II, IR, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KK, KO, KS, KT, KU, KW, KX, KZ, LI, LO, LR, LX, LY, MF, MG, MI, NE, NG, NH, NN, NO, NQ, NR, NT, NU, NV, NW, OF, OI, OK, OL, OS, PA, PB, PC, PD, PF, PG, PH, PI, PJ, PK, PL, PM, PP, PR, PS, PT, PX, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, RA, RD, RL, RR, SA, SB, SE, SG, SI, SJ, SL, SM, SP, SQ, ST, SU, SW, SX, TE, TL, TP, TS, TW, TX, TY, TZ, UB, UD, UE, UF, UG, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UU, UV, UX, UY, UZ, WK, WL, WP, WS, XL, XM, XN, XO, XP, XX, YA, YB, YC, YD, YE, YF, YP, YR, YS, YT, ZA, ZB, ZC, ZH, ZI, ZL, ZM, ZP, ZR, ZS, ZT, ZV, ZW

Overseas Tracking Number Prefixes

CC, CO, CP, CV, DP, IB, IR, LI, LX, LY, ED, EE, EP, EU, EW, RD, RP, RR, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JQ, JU, JV, JW, JX, JY, JZ, UB, UD, UE, UF, UG, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UU, UV, UX, UY, UZ