



## JSON API DOCUMENTATION

VERSION 1.4

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## 2 Change Log

Version	Changes
1.2	<ul style="list-style-type: none"><li>Added “reason_for_export” field to Customs Invoice section.</li></ul>
1.3	<ul style="list-style-type: none"><li>Added “breakdown_rates” field to rate request</li></ul>
1.4	<ul style="list-style-type: none"><li>Reference values support in Ship request</li><li>Email address for destination/recipient</li><li>Support for send shipment/order confirmation email to recipient</li><li>Added Order Information request</li></ul>

## 3 Introduction :

This document provides the technical specifications of the netParcel JSON API for rating and shipping.

Examples of JSON rating/shipping request and response are provided below.

### JSON Testing and Production URLs:

Testing	<a href="https://test.netparcel.com/shipping_service">https://test.netparcel.com/shipping_service</a>
Production	<a href="https://www.netparcel.com/shipping_service">https://www.netparcel.com/shipping_service</a>

## 4 The Rate Request

The "Rate" request generates discounted shipping rates and services from netParcel based on the customer account for given ship from address, ship to address, and packaging information.

- User provides (at a minimum) from address, to address and packaging information in the JSON request.
- User provides "API Username" and "API Password" parameters in the connection properties. These credentials are issued by netParcel and are tied to your netParcel account.
- Request is submitted to the URL listed above via HTTPS connection.
- netParcel JSON API receives the rate request and determines the discounted rates for given addresses in one request.
- netParcel returns (in the same connection) sends all the ratings back to the client in JSON format.
- User receives the rates and parses the JSON to review rates and services. Service code from the desired service may be used to call the Shipping request.

### 4.1 Sample Rate Request

```
{  
  "rate":{  
    "origin":{  
      "country":"CA",  
      "postal_code":"V3N4R3",  
      "province":"ON",  
      "city":"Burnaby",  
      "name":null,  
    }  
  }  
}
```

```
"address1":"90 Maverick",
  "address2":null,
  "address3":null,
  "phone":null,
  "fax":null,
  "address_type":null,
  "company_name":null
  },
  "destination":{
    "country":"CA",
    "postal_code":"l4j7y9",
    "province":"ON",
    "city":"vaughan",
    "name":"riz mer",
    "address1":"90 street",
    "address2":"",
    "address3":null,
    "phone":"6479988858",
    "fax":null,
    "address_type":null,
    "company_name": ""
  },
  "items":[
    {
      "name":"My TEST - My PRODUCT",
      "sku":"12345",
```

```
        "quantity":1,  
        "weight":30,  
        "weightUnit":"lbs",  
        "price":1200,  
        "vendor":"riznetparcel",  
        "requires_shipping":true,  
        "taxable":true,  
        "fulfillment_service":"manual",  
        "product_id":179093853,  
        "variant_id":410333945  
    },  
    {  
        "name":"Product 2",  
        "sku":"11111",  
        "quantity":2,  
        "weight":20,  
        "weightUnit":"lbs",  
        "price":1500,  
        "vendor":"riznetparcel",  
        "requires_shipping":true,  
        "taxable":true,  
        "fulfillment_service":"manual",  
        "product_id":265200161,  
        "variant_id":616173013  
    }  
],  
    "breakdown_rates":true,
```

```
"packaging_information": {  
    "packaging_type": "My Packaging",  
    "packages": [  
        {  
            "length": 1,  
            "width": 1,  
            "height": 1,  
            "weight": 5,  
            "weightUnit": "lbs",  
            "insurance_amount": 200.00,  
            "description": "TEST",  
            "freight_class": "77.5",  
            "nmfc_code": "12345",  
            "type": "pallet"  
        },  
        {  
            "length": 1,  
            "width": 1,  
            "height": 1,  
            "weight": 20,  
            "weightUnit": "lbs"  
        }  
    ]  
}
```

## 4.2 Elements of the Rate Request

Main Field	Field	Description	Required
origin	country	2 character ISO country code of the origin address. e.g. CA, US	Yes
	postal_code	The Postal Code or Zip Code of the origin address. The value type is Alphanumeric e.g. V3N4R3, 90210	Yes
	province	The 2 character province or state code of the origin address. e.g. CA for California, ON for Ontario	Yes
	city	The city name of the origin address. e.g. BURNABY, Beverly Hills	Yes
	name	Attention name at the origin address.	Yes
	address1	Address line 1 for the origin address.	Yes
	address2	Address line 2 for the origin address.	
	address3	Address line 3 for the origin address.	
	phone	The telephone number of the contact person at the origin address.	Yes
	fax	The fax number of the contact person at the origin address.	
	address_type	The type of address e.g. "business", "residential"	
	company_name	The Company name of the	Yes

		origin address.	
destination	country	2 character ISO country code of the destination address. e.g. CA, US	Yes
	postal_code	The Postal Code or Zip Code of the destination address. The value type is Alphanumeric e.g. V3N4R3, 90210	Yes
	province	The 2 character province or state code of the destination address. e.g. CA for California, ON for Ontario	Yes
	city	The city name of the destination address. e.g. BURNABY, Beverly Hills	Yes
	name	Attention name a the destination address.	Yes
	address1	Address line 1 for the destination address.	Yes
	address2	Address line 2 for the destination address.	
	address3	Address line 3 for the destination address.	
	phone	The telephone number of the contact person at the destination address.	Yes
	fax	The fax number of the contact person at the destination address.	
	address_type	The type of address e.g. "business", "residential"	
	company_name	The Company name of the destination address.	Yes

items	items	Array of "Item" element, "Item" element and its fields are described below.	No
<i>Item</i>	name	Name of the Product	
	sku	A <b>stock keeping unit (SKU)</b> is a product and service identification code for a store or product  The value type is alphanumeric	
	quantity	Quantity of the items to be shipped	
	weight	Weight of the Product	
	weightUnit	The unit of measurement for weight  e.g. LBS(Pounds)	
	price	Price of the product to be shipped	
	vendor	Name of the Vendor	
	requires_shipping	The field takes the TRUE or the FALSE value suggesting whether the shipping is required or not	
	taxable	The field takes the TRUE or the FALSE value suggesting whether the product is taxable or not	
	fulfillment_service	A <b>fulfillment service</b> is a third-party warehouse that prepares and ships your orders for you.  You can either Opt for the fulfillment Service or you can Ship Items <b>Manually</b>	
	product_id	It is a unique number used to identify the Product to be shipped	

	variant_id	<p><b>Variant:</b> The products which comes in more than one option could be added with variants.</p> <p>Options could include size, color, etc</p> <p>A Variant is a set of Combinations of the Options.</p> <p>Each Variant has a Specific Id.</p>	
breakdown_rates		The field takes the TRUE or the FALSE value suggesting whether the rates in the response should be broken down. Default is false	No
packaging_information	packaging_type	<p>We have four Packaging Types</p> <ul style="list-style-type: none"> <li>a) Pallet</li> <li>b) My Packaging</li> <li>c) Envelope</li> <li>d) Pak</li> </ul>	Yes
	packages	Array of "Package" element, "Package" element and its fields are described below.	Yes
Package	length	Length of the Package to Ship	Yes
	width	Width of the Package to Ship	Yes
	height	Height of the Package to Ship	Yes
	weight	Weight of the Package to Ship	Yes
	weightUnit	The unit of measurement for weight e.g. LBS(Pounds)	Yes
	insurance_amount	Insurance amount for the package, in dollar value	
	description	The Product Description	
	freight_class	The Freight class is the calculated value by taking into	Required if "Packaging"

		account the length, width, height and weight of the Package	Type" is set to "Pallet"
	nmfc_code	National Motor Freight Classification (NMFC) is standardized method designed to give consumers a uniform pricing structure when transporting freight	
	type	<p>This is the type of Pallets.</p> <p>It comes under focus only when we select the Package type as Pallet</p> <p>e.g. Pallet, Drum, Boxes, Skid etc</p>	

#### 4.3 Sample Rate Response

```
{
  "rates": [
    {
      "min_delivery_date": "2017-03-03 11:29:00",
      "service_name": "UPS Standard",
      "service_code": "204",
      "max_delivery_date": "2017-03-03 11:29:00",
      "total_price": "3400",
      "currency": "CAD"
    }
  ]
}
```

```
"min_delivery_date":"2017-03-03 11:29:00",
"service_name":"Loomis Domestic Ground",
"service_code":"400",
"max_delivery_date":"2017-03-03 11:29:00",
"total_price":"4100",
"currency":"CAD"
},
{
"min_delivery_date":"2017-02-28 11:29:00",
"service_name":"Purolator PurolatorExpress",
"service_code":"2002",
"max_delivery_date":"2017-02-28 11:29:00",
"total_price":"4900",
"currency":"CAD"
},
{
"min_delivery_date":"2017-03-03 11:29:00",
"service_name":"Purolator PurolatorGround",
"service_code":"2016",
"max_delivery_date":"2017-03-03 11:29:00",
"total_price":"6000",
"currency":"CAD"
},
{
"min_delivery_date":"2017-03-01 11:29:00",
"service_name":"UPS Expedited",
"service_code":"201",
```

```
"max_delivery_date":"2017-03-01 11:29:00",
"total_price":"6400",
"currency":"CAD"
},
{
"min_delivery_date":"2017-02-28 11:29:00",
"service_name":"UPS UPS Saver",
"service_code":"209",
"max_delivery_date":"2017-02-28 11:29:00",
"total_price":"6800",
"currency":"CAD"
},
{
"min_delivery_date":"2017-03-03 11:29:00",
"service_name":"Purolator PurolatorGround10:30AM",
"service_code":"2018",
"max_delivery_date":"2017-03-03 11:29:00",
"total_price":"7700",
"currency":"CAD"
},
{
"min_delivery_date":"2017-02-28 11:29:00",
"service_name":"UPS Express",
"service_code":"200",
"max_delivery_date":"2017-02-28 11:29:00",
"total_price":"7700",
"currency":"CAD"
```

```
},
{
  "min_delivery_date": "2017-03-03 11:29:00",
  "service_name": "Purolator PurolatorGround9AM",
  "service_code": "2017",
  "max_delivery_date": "2017-03-03 11:29:00",
  "total_price": "8600",
  "currency": "CAD"
},
{
  "min_delivery_date": "2017-02-28 11:29:00",
  "service_name": "UPS Express Early AM",
  "service_code": "205",
  "max_delivery_date": "2017-02-28 11:29:00",
  "total_price": "9000",
  "currency": "CAD"
},
{
  "min_delivery_date": "2017-02-28 11:29:00",
  "service_name": "Loomis Domestic Express 12:00",
  "service_code": "403",
  "max_delivery_date": "2017-02-28 11:29:00",
  "total_price": "9900",
  "currency": "CAD"
},
{
  "min_delivery_date": "2017-02-28 11:29:00",
```

```
"service_name":"Loomis Domestic Express 09:00",
"service_code":"402",
"max_delivery_date":"2017-02-28 11:29:00",
"total_price":"10100",
"currency":"CAD"
},
{
"min_delivery_date":"2017-03-03 11:29:00",
"service_name":"Purolator PurolatorGroundEvening",
"service_code":"2019",
"max_delivery_date":"2017-03-03 11:29:00",
"total_price":"10500",
"currency":"CAD"
},
{
"min_delivery_date":"2017-02-28 11:29:00",
"service_name":"Purolator PurolatorExpress10:30AM",
"service_code":"2001",
"max_delivery_date":"2017-02-28 11:29:00",
"total_price":"12900",
"currency":"CAD"
},
{
"min_delivery_date":"2017-02-28 11:29:00",
"service_name":"Purolator PurolatorExpress9AM",
"service_code":"2000",
"max_delivery_date":"2017-02-28 11:29:00",
```

```
"total_price":"14000",
"currency":"CAD"
}
]
}
```

#### 4.4 Elements of the Rate Response

	Field	Description
rates	An array for "rate" element, each rate provides pricing and other details for a specific service available for the given shipment in the request.	<b>This is an array of rate and the fields are described below.</b>
rate	min_delivery_date	Minimum expected delivery date
	service_name	Name of the Service provided by the carrier
	service_code	Each Service returned has a specific service Code. This service code is used to identify the service being requested in the ship request.
	max_delivery_date	Maximum expected delivery date
	total_price	Total Quote for this service. Value is in dollars and cents.

	currency	Currency of the quoted price. Possible values are "USD" and "CAD".
--	----------	---

## 5 The Ship Request

The "Ship" request generates a shipment and corresponding shipping labels under the specified customer account based on the ship from address, ship to address, packaging information and any other instructions specified in the ship request .

- User provides (at a minimum) from address, to address, packaging information and service code in the JSON request.
- User provides "API Username" and "API Password" parameters in the connection properties. These credentials are issued by netParcel and are tied to your netParcel account.
- Request is submitted to the URL listed above via HTTPS connection.
- netParcel JSON API receives the ship request and attempts to generate a shipment and labels with the carrier based on the service code provided.
- netParcel returns (in the same connection) details about the shipment, including order number, shipping label(s) in base 64 encoded string form.
- User receives the response and parses the JSON to view/store details and label(s).

### 5.1 Sample Ship Request

```
{  
  "ship": {  
    "origin": {  
      "country": "CA",  
      "postal_code": "V3N4R3",  
      "province": "BC",  
      "city": "Burnaby",  
      "name": "Riz",  
      "address1": "90 Maverick",  
      "address2": null,  
      "phone": "9059059059",  
      "fax": null,  
      "address_type": null,  
      "company_name": "RIZ TEST"  
    }  
  }  
}
```

```
},  
  
  "destination": {  
  
    "country": "US",  
  
    "postal_code": "77059",  
  
    "province": "TX",  
  
    "city": "Houston",  
  
    "name": "riz mer",  
  
    "address1": "90 street",  
  
    "address2": "",  
  
    "phone": "6479988858",  
  
    "fax": null,  
  
    "address_type": "residential",  
  
    "company_name": "RIZ TEST TO",  
  
    "email": "test@email.com",  
  
    "send_email_confirmation": true  
  
  },  
  
  "service": {  
  
    "service_code": 202,  
  
    "service_name": "UPS Ground"  
  
  },  
  
  "ship_date": "2017-02-01",  
  
  "pick_up": {  
  
    "location": "Front Door",  
  
    "instructions": "Please make sure this gets out",  
  
    "ready_time": {  
  
      "ready_hour": "09",  
  
      "ready_min": "00"  
  
    }  
  
  }  
  
}
```

```
        },  
  
        "close_time": {  
            "close_hour": "17",  
            "close_min": "00"  
        },  
        },  
  
        "special_services": {  
            "saturday_delivery": false,  
            "signature_required": false,  
            "adult_signature": false,  
            "hold_for_pickup": false,  
            "trade_show_pickup": false,  
            "trade_show_delivery": false,  
            "inside_pickup": false,  
            "inside_delivery": false,  
            "tailgate_pickup": false,  
            "tailgate_delivery": false,  
            "appointment_delivery": {  
                "delivery_date": "2017-04-13",  
                "delivery_window_start_time": {  
                    "start_hour": "09",  
                    "start_min": "00"  
                },  
                "delivery_window_end_time": {  
                    "end_hour": "17",  
                    "end_min": "00"  
                }  
            }  
        }  
    }  
}
```

```
    },
    "appointment_pickup": false
},
"customs_invoice": {
    "bill_to": "Consignee",
    "invoice_currency": "CAD",
    "items": [
        {
            "description": "My TEST - My PRODUCT",
            "harmonized_code": "12345",
            "origin_country_code": "CA",
            "quantity": 1,
            "unit_price": 15.05,
            "weight": 30,
            "weightUnit": "lbs",
            "sku": "SKU CODE1"
        },
        {
            "description": "My TEST - My PRODUCT2",
            "harmonized_code": "67890",
            "origin_country_code": "CA",
            "quantity": 2,
            "unit_price": 5.50,
            "weight": 12,
            "weightUnit": "lbs",
            "sku": "SKU CODE2"
        }
    ]
}
```

```
        ],
    },
    "packaging_information": {
        "packaging_type": "My Packaging",
        "packages": [
            {
                "length": 1,
                "width": 1,
                "height": 1,
                "weight": 5,
                "weightUnit": "lbs",
                "insurance_amount": 200.00,
                "description": "TEST",
                "freight_class": "77.5",
                "nmfc_code": "12345",
                "type": "pallet"
            },
            {
                "length": 1,
                "width": 1,
                "height": 1,
                "weight": 20,
                "weightUnit": "lbs"
            }
        ],
    },
    "references": [
        {
            "reference_name": "MY REF",

```

```

        "reference_value": "1234"
    },
    {
        "reference_name": "MY OTHER REF",
        "reference_value": "5678"
    }
]
}

```

## 5.2 Elements of the Ship Request

Main Field	Field	Description	Required
origin	country	2 character ISO country code of the origin address. e.g. CA, US	Yes
	postal_code	The Postal Code or Zip Code of the origin address. The value type is Alphanumeric e.g. V3N4R3, 90210	Yes
	province	The 2 character province or state code of the origin address. e.g. CA for California, ON for Ontario	Yes (for US and Canada shipments)
	city	The city name of the origin address. e.g. Burnaby, Beverly Hills	Yes
	name	Attention name at the origin address.	Yes
	address1	Address line 1 for the origin address.	Yes
	address2	Address line 2 for the origin address.	

	phone	The telephone number of the contact person at the origin address.	Yes
	fax	The fax number of the contact person at the origin address.	
	address_type	The type of address e.g. "business", "residential"	
	company_name	The Company name of the origin address.	Yes
destination	country	2 character ISO country code of the destination address. e.g. CA, US	Yes
	postal_code	The Postal Code or Zip Code of the destination address.  The value type is Alphanumeric  e.g. V3N4R3, 90210	Yes
	province	The 2 character province or state code of the destination address.  e.g. CA for California, ON for Ontario	Yes (for US and Canada shipments)
	city	The city name of the destination address.  e.g. BURNABY, Beverly Hills	Yes
	name	Attention name at the destination address.	Yes
	address1	Address line 1 for the destination address.	Yes
	address2	Address line 2 for the destination address.	
	phone	The telephone number of the contact person at the destination address.	Yes
	fax	The fax number of the contact person at the destination address.	No

	address_type	The type of address e.g. "business", "residential"	No
	company_name	The Company name of the destination address.	Yes
	email	Email address of the recipient	No
	send_email_confirmation	Indicator for order confirmation email to be sent to the recipient	No
service	service_code	The service code to be used to generate the shipment.	Yes
	service_name	Name of the Service provided by the carrier	No
ship_date		The scheduled ship date in yyyy-MM-dd format  E.g. "2021-02-01"	Yes
pick_up	location	A Pickup location needs to be selected from a list of options  E.g. <ul style="list-style-type: none"><li>a. Front Door</li><li>b. Back Door</li><li>c. Side Door</li></ul>	No
	instructions	Instructions, if any, for the pick up	
	ready_time	Pickup ready time for the shipment.  "ready_time" is made up of two elements "ready_hour" and "ready_min" which are described below	
	close_time	Pickup close time for the shipment.  "close_time" is made up of two elements "close_hour" and "close_min" which are	

		described below	
ready_time	ready_hour	Ready hour for the pickup, based on 24 hour format E.g. 10 (for 10am), 15 (for 3pm)	
	ready_min	Ready minutes for the pickup, valid values are 00 to 59	
close_time	close_hour	Close hour for the pickup, based on 24 hour format E.g. 10 (for 10am), 15 (for 3pm)	
	close_min	Close minutes for the pickup, valid values are 00 to 59.	
special_services	saturday_delivery	Indicator for Saturday Delivery service, valid values are "true" and "false".	No, defaults to "false"
	signature_required	Indicator for Signature Required service, valid values are "true" and "false".	No, defaults to "false"
	adult_signature	Indicator for Adult Signature service, valid values are "true" and "false".	No, defaults to "false"
	hold_for_pickup	Indicator for Hold For Pickup service, valid values are "true" and "false".	No, defaults to "false"
	trade_show_pickup	Indicator for Trade Show Pickup service, valid values are "true" and "false".	No, defaults to "false"
	trade_show_delivery	Indicator for Trade Show Delivery service, valid values are "true" and "false".	No, defaults to "false"
	inside_pickup	Indicator for Inside Pickup service, valid values are "true" and "false".	No, defaults to "false"
	inside_delivery	Indicator for Inside Delivery service, valid values are "true"	No, defaults to "false"

		and "false".	
	tailgate_pickup	Indicator for Tailgate Pickup service, valid values are "true" and "false".	No, defaults to "false"
	tailgate_delivery	Indicator for Tailgate Delivery service, valid values are "true" and "false".	No, defaults to "false"
	appointment_delivery	Indicator for Appointment Delivery service  It is made up of three fields "delivery_date", "delivery_window_start_time" and "delivery_window_end_time" which are described below	No, defaults to "false"
delivery_date		The Delivery date of the shipment in yyyy-MM-dd format.	
delivery_window_start_time	start_hour	Start Delivery hour for the appointment, 24 hour format	
	start_min	Start delivery minute for the appointment, valid values are 00-59	
delivery_window_end_time	end_hour	End Delivery hour for the appointment, 24 hour format	
	end_min	End delivery minute for the appointment, valid values are 00-59	
customs_invoice	reason_for_export	Reason for Export to be displayed on the customs invoice document. Valid values are:  a) Sale b) Sample c) Repair	Required for international non-document shipments.

		d) Gift e) Return f) Other	
	bill_to	Entity to which the customs, duties, taxes should be billed.  Valid values are "Consignee" and "Receiver".	
	invoice_currency	Currency of the value of the shipment for customs purposes  E.g. CAD, USD	
	items	Array of "item" elements in customs invoice and the fields are described below.	
<i>item</i>	description	Description of the items to be shipped	Yes
	harmonized_code	Harmonized Code is a standardized system of names and numbers to classify traded products.	Yes
	origin_country_code	Country Code of Ship From Country	Yes
	quantity	Quantity of the items to be shipped	Yes
	unit_price	Price of the product to be shipped	Yes
	weight	Weight of the Product	No
	weightUnit	The unit of measurement for weight  e.g. LBS(Pounds)	No
	sku	A <b>stock keeping unit (SKU)</b> is a product and service identification code for a store or product	No

		The value type is alphanumeric	
packaging_information	packaging_type	<p>The type of packaging used for the shipment. Valid values are:</p> <ul style="list-style-type: none"> <li>a) Pallet</li> <li>b) My Packaging</li> <li>c) Envelope</li> <li>d) Pak</li> </ul>	Yes
	packages	Array of package objects, fields package element are described below.	
package	length	Length of the Package	Yes
	width	Width of the Package	Yes
	height	Height of the Package	Yes
	weight	Weight of the Package	Yes
	weightUnit	<p>The unit of measurement for weight e.g. LBS(Pounds)</p>	No, defaults to LBS
	insurance_amount	The Insurance value(Amount) of the Package	No, defaults to 0
	description	The Product Description	Yes
	freight_class	The Freight class is the calculated value by taking into account the length, width, height and weight of the Package	
	nmfc_code	National Motor Freight Classification ( <b>NMFC</b> ) is standardized method designed to give consumers a uniform pricing structure when transporting freight	

	<b>type</b>	This is the type of Pallets. It comes under focus only when we select the Package type as Pallet e.g. Pallet, Drum, Boxes, Skid etc	
references		Array of references, fields are described below	Optional, max 3
reference_name		Name for the reference field	
	reference_value	Value for reference	

### 5.3 Sample Ship Response

```
{
  "shipment": {"charges": [{"charge_amount": 132.14, "charge_name": "Freight", "charge_code": "FRT"}, {"charge_amount": 1.5, "charge_name": "Residential Surcharge", "charge_code": "ACC"}, {"charge_amount": 15.37, "charge_name": "Fuel", "charge_code": "FSC"}], "tracking_url": "http://wwwapps.ups.com/etracking/tracking.cgi?tracknums_display=25&TypeOfInquiryNumber=T&HTMLp;[Version=4.0&InquiryNumber=1ZY551560197584199"}, "documents": [{"document_name": "labels", "base64_encoded_string": "JVBERi0xLjQKJeLjz9MKMiAwIG9iago8PC9MZW5ndGggNjMvRmlsdGVyLOZsYXRIRGVjb2RIPj5zdHJlYW0KeJwr5CpU"}]}
```

```
MFDQNbE0UDCysAAyDRRMjI0UknMV9DNz0w0UXPIVArcCuQq5nEK4IFIhKVxQDUCW
awhQEgD5tA53CmVuZHN0cmVhbQplbmRvYmoKMyAwIG9iago8PC9UeXBIL1hPYmpl
Y3QvU3VidHlwZS9JbWFnZS9Db2xvcINwYWNIWy9JbmRleGVkL0RldmljZVJHQiAyNTUI
NWlwZD5dL0luZm8gOSAwIFIvU2l6ZSAxMD4+CnN0YXJ0eHJIZgo1NzcxMgoIJUVPRgo=
"}],  

"service_name":"UPS Express",  

"service_code":"200",  

"order_id":320796,  

"total_price":149.01,  

"currency":"USD",  

"master_tracking_num":"1ZY551560197584199"  

}  

}
```

## 5.4 Elements of the Ship Response

	Field	Description	
shipment	charges	This is a breakdown of the charges for the shipment. An array of "charge" objects are returned.	
charges	charge_amount	The Charge amount for a shipping	
	charge_name	Each Charge has a name E.g. 1. Freight 2. Surcharge	
	charge_code	Each Charge has a specific Code E.g.	

		1. FRT 2. ACC	
shipment	tracking_url	The tracking URL that can be used to track this shipment.	
	documents	Array of document and the fields are described below.	
documents	document_name	The name of the document to describe the contents.	
	base64_encoded_string	The PDF Document is returned as a base 64 encoded string.	
shipment	service_name	Service used to generate the shipment.	
	service_code	Service Code of the service used to generate the shipment.	
	order_id	netParcel unique order number associated with this shipment.	
	total_price	Total cost of the shipment.	
	currency	Currency of the cost of shipment. E.g. CAD (Canadian Dollar), USD	
	master_tracking_num	The master tracking number generated for the shipment.	

## 6 The Cancel Request

The "Cancel" request cancels an existing order/shipment under the specified customer account based on the order information specified in the cancel request .

- User provides the order number to be cancelled.

- User provides "API Username" and "API Password" parameters in the connection properties. These credentials are issued by netParcel and are tied to your netParcel account.
- Request is submitted to the URL listed above via HTTPS connection.
- netParcel JSON API receives the cancel request and attempts to cancel the shipment and labels with the carrier based on the service code provided.
- netParcel returns (in the same connection) a response containing the new status of the shipment ("CANCELLED"). If the shipment cannot be cancelled, error messages are returned along with the current status of the shipment.
- User receives the response and parses the JSON to view/store details and take appropriate action if necessary.

## 6.1 Sample Cancel Request

```
{  
  "cancel": {  
    "order_id": 366157  
  }  
}
```

## 6.2 Elements of the Cancel Request

Main Field	Field	Description	Required
order_id		The order/shipment number associated with netParcel that needs to be cancelled.	Yes

## 6.3 Sample Cancel Response

```
{  
  "shipment": {  
    "status": "CANCELLED",  
    "order_id": 366157  
  }  
}
```

## 6.4 Elements of the Cancel Response

	Field	Description	
shipment	status	Status of the shipment. Should show "CANCELLED" if the shipment was successfully cancelled.	
	order_id	The order/shipment number that was sent in the original cancel request.	
errorMessage	s	List of error messages.	

## 7 The Order Information Request

The "Order" request retrieves information about an existing order, including but not limited to the status, tracking number, shipment documents (labels), charges, etc .

- User provides the order number to be retrieved.
- User provides "API Username" and "API Password" parameters in the connection properties. These credentials are issued by netParcel and are tied to your netParcel account.
- Request is submitted to the URL listed above via HTTPS connection.
- netParcel JSON API receives the order information request and attempts to find the shipment associated with the customer.
- netParcel returns (in the same connection) a response containing the shipment details.
- User receives the response and parses the JSON to view/store details and take appropriate action if necessary.

### 7.1 Sample Order Information Request

```
{  
  "order": {  
    "order_id": 453937,  
    "tracking_number": "1Z300V1X6832744762"  
  }  
}
```

## 7.2 Sample Order Information Response

```
{  
    "order": {  
        "charges": [  
            {  
                "charge_name": "Fuel",  
                "charge_code": "FSC",  
                "charge_amount": 2.93  
            },  
            {  
                "charge_name": "Freight",  
                "charge_code": "FRT",  
                "charge_amount": 36.57  
            }  
        ],  
        "master_tracking_num": "1Z300V1X6832744762",  
        "total_price": 39.5,  
        "documents": [  
            {  
                "document_name": "labels",  
                "base64_encoded_string": ""  
            }  
        ],  
        "service_name": "UPS Standard",  
        "service_code": "204",  
        "currency": "CAD",  
        "order_id": 453937,  
        "tracking_url":  
            "http://wwwapps.ups.com/etracking/tracking.cgi?tracknums_displayed=25&TypeOfInquiryNumber=T&HTMLVersion=4.0&InquiryNumber=1Z300V1X6832744762",  
        "status": {  
            "status_name": "IN TRANSIT"  
        }  
    }  
}
```

## 7.3 Elements of the Order Information Response

	Field	Description	
order	charges	This is a breakdown of the charges for the shipment. An array of "charge" objects are returned.	

charges	charge_amount	The Charge amount for a shipping	
	charge_name	Each Charge has a name  E.g. 1. Freight 2. Surcharge	
	charge_code	Each Charge has a specific Code  E.g. 3. FRT 4. ACC	
order	tracking_url	The tracking URL that can be used to track this shipment.	
	documents	Array of document and the fields are described below.	
documents	document_name	The name of the document to describe the contents.	
	base64_encoded_string	The PDF Document is returned as a base 64 encoded string.	
order	service_name	Service used to generate the shipment.	
	service_code	Service Code of the service used to generate the shipment.	
	order_id	netParcel unique order number associated with this shipment.	
	total_price	Total cost of the shipment.	
	currency	Currency of the cost of shipment.  E.g. CAD (Canadian Dollar),	

		USD	
	master_tracking_num	The master tracking number generated for the shipment.	
	status	Element containing status information for the shipment.	
status	status_name	The current status of the shipment. Valid values are: <ol style="list-style-type: none"> <li>1. READY FOR SHIPPING</li> <li>2. IN TRANSIT</li> <li>3. DELIVERED</li> <li>4. CANCELLED</li> </ol>	

## 8 Sample Code

### 8.1 Java

Snippet of code below shows how to send a request to the netParcel server and how to read the response using Java.

```

private static void sendRequest(String type){
    try {

        // SL Rate Request
        FileInputStream fis = new FileInputStream(testRequest.txt);

        Collection<Integer> int_list = new LinkedList<Integer>();

        int value = -1;
        do
        {
            value = fis.read();
            if (value > -1)
            {
                int_list.add(new Integer(value));
            }
        } while (value > -1);

        // Send data
        URLConnection con = new URL(TEST_SERVER_URL).openConnection();
        con.setDoInput(true);
    }
}

```

```
con.setDoOutput(true);
con.setUseCaches(false);
con.setAllowUserInteraction(false);
con.setRequestProperty("Content-Length", Integer.toString(int_list.size()));
con.setRequestProperty("Content-Type", "text/xml");
//set the username and password in the connection
con.setRequestProperty("API_USERNAME", "mynetparcelapiusername");
con.setRequestProperty("API_PASSWORD", "mynetparcelapipassword ");

OutputStream out = con.getOutputStream();

for (Integer i: int_list)
{
    out.write(i.intValue());
}
out.flush();
out.close();

// Dump Response
InputStream in = con.getInputStream();
int_list.clear();
do
{
    value = in.read();
    if (value > -1)
    {
        int_list.add(new Integer(value));
    }
} while (value > -1);

byte[] bytes = new byte[int_list.size()];
int i = 0;
for (Integer l: int_list)
{
    bytes[i] = l.byteValue();
    i++;
}
System.out.println(new String(bytes)); //output the response to the console

} catch (Exception e) {
    e.printStackTrace();
}

}
```