

# RUSH ECOMMERCE API DOCUMENTATION

## PURPOSE OF THIS DOCUMENT

This guide is intended for developers who plan to use and have an overview of Ecommerce integration with Rush. This document contains detailed technical specs on the web methods that will be used to communicate client information and rush bookings with Rush.

## REVISION HISTORY (VERSION)

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Document loaded onto website for public consumption

## AUTHOR

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## SERVICE URIS

### TEST ENVIRONMENT

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#### BASE URL

---

<http://34.244.179.157/api/v2/>

### LIVE ENVIRONMENT

---

#### BASE URL

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<https://rush.co.za/api/v2/>

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## GENERATE AUTH TOKEN

In order, to generate the token, the user will have to register on the Rush Website below:

<https://rush.co.za/register>

After registration, the activation link will be sent to the email address used for registration.

Hence, the user will have to notify Rush team on the following email address:

[rush.support@jiniguru.atlassian.net](mailto:rush.support@jiniguru.atlassian.net)

After that the token will be generated which we will be sent to the email address used during registration.

## END POINTS

### COSTCOMPARISON (REQUEST QUOTE)

This endpoint will be used to request a quote for a user through the API. This API comprises of all volumetric data, pick up, drop off details and available carrier services with their respective price for delivery of order.

#### URI

---

/api/v2/costComparison

#### VERB

---

POST

#### HEADERS

---

Header	Description
X-Auth-Token	Token issued to Ecommerce user to identify Ecommerce as the principal.

#### NOTE

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Pickup and DropOff address format :

Address\_line1|| Address\_line2|| Surburb|| State|| PostCode.

OR Without Address\_line2

Address\_line|| || Surburb||State||PostCode

**Parameter Name marked as \* are required**

## List of Addresses

List of Valid addresses can be downloaded from

<https://rush.co.za/ecommerce/address/addressListingEcommerceApi.json>

Note:

**Filter out addresses in the json file where USE equals No.**

### Not a Valid address

```
{
  "SUBURB": "ZWIDE",
  "POSTCODE": "6204",
  "STATE": "PORT ELIZABETH",
  "LOCALE": "PO",
  "USE": "No"
}
```

### Valid address

```
{
  "SUBURB": "ZWIDE",
  "POSTCODE": "6201",
  "STATE": "PORT ELIZABETH",
  "LOCALE": "DA",
  "USE": "Yes"
}
```

## BODY

---

Content-Type = text/json

Parameter Name	Data Type	Description
Insurance	Boolean	If checked order have insurance
insuranceDesc	String	Description of insurance
insuranceValue	Integer	Value of insurance
weight *	Object of Integer	Weight of the item(s) – Minimum 2 KG
length *	Object of Integer	Length of the item(s) – Minimum 1 CM
width *	Object of Integer	Width of the items(s) – Minimum 1 CM
height *	Object of Integer	Height of the item(s) – Minimum 1 CM
amount *	Object of Integer	Amount of item(s)
pick_up *	String	Address to be collected from
sender_name	String	Name of sender
sender_email	String	Email address of sender
sender_tel	String	Phone number of sender
sender_mob	String	Mobile number of sender
receiver_contact *	String	Contact number of Customer Account Contact
receiver_name	String	Name of Customer Account Contact
receiver_mobile	String	Primary phone number of Customer Account Contact
receiver_email	String	Email address of Customer Account Contact
drop_off *	String	Address to be delivered to

## EXAMPLE (WITHOUT INSURANCE)

TYPE	REPRESENTATION
JSON	<pre>{   "insurance":false,   "weight":{     "0":2,     "1":2   },   "length":{     "0":5,     "1":5   },   "width":{     "0":5,     "1":19   },   "height":{     "0":5,     "1":67   },   "amount":{     "0":1,     "1":1   },   "pick_up":"test,test2       ALBERT LUTHULI     BLOEMFONTEIN     9323",   "sender_name":"Vash Sumbh",   "sender_email":"pooroosh.sumbhoolaul@jiniguru.net",   "sender_tel":"",   "sender_mob":"4894968",   "receiver_contact":"testege",   "receiver_name":"jini",   "receiver_phone":"",   "receiver_mobile":"7897564",   "receiver_email":"vashh08@gmail.com",   "drop_off":"2 ,road     reter     ACTON CABA     TSOMO     5401" }</pre>

**Note:**

Length, Width and Height are in **CM.** (Minimum 1 CM)

Weight is in **KG.** (Minimum 2 KG)

Amount refers to the quantity of items. For example:

```
"amount":{
```

```
  "0":2,
```

```
  "1":3
```

```
}
```

Let's say first item is mouse and second item is keyboard.

Here we have 2 mouse and 3 keyboards.

## RESPONSE (WITHOUT INSURANCE)

TYPE	RESPONSE
JSON	<pre>{   "data": {     "CostComparisonResult": {       "CostComparisonResults": {         "Statistics": {           "Reference": [],           "LeastCostIndex": "12",           "FastestCostIndex": "12",           "CalledBy": "WebService",           "Timestamp": "2017-03-10 16:33:49 +11:00",           "ExecutionTime": "00:00:01.1060023"         },         "ResultSet": {           "Result": [             {               "CarrierName": "COURIER IT",               "CarrierService": "BUDGET",               "CarrierAccount": "13614",               "DeliveryTime": "3D",               "DeliveryTimeHours": "72",               "EstDelivery": "2017-03-13T05:00:00",               "NetCost": "1,790.00",               "totdgcharge": "0.00",               "SurcCharge": [],               "SurcType": [],               "Levy": "499.7680000000",               "TotSurChrg": "499.77",               "TotalCost": "2,289.77",               "GSTAmount": "320.57",               "TotalCostIncTax": "2,610.34",               "mrkupchrg": "572.44",               "TotalCostPlusMarkup": "2,862.21",               "GSTOnMarkup": "400.71",               "grandtotmrkup": "3,262.92",               "ItemDesc1": "CARTON",               "ItemDesc2": [],             }           ]         }       }     }   } }</pre>

## RESPONSE (WITHOUT INSURANCE) CONTINUED

TYPE	RESPONSE
JSON	<pre>"ItemDesc3": [],   "ItemDesc4": [],   "ItemDesc5": [],   "ExcludeFromLeastCost": "False",   "RecordId": "0" }, {"totalVolume": 0.1848, "totalAmount": 2, "totalWeight": 4, "insurance": {   "checked": false } }</pre>

## EXAMPLE (WITH INSURANCE)

TYPE	REPRESENTATION
JSON	<pre>{   "insurance":true,   "insuranceDesc":"insurance description",   "insuranceValue":200,   "weight":{     "0":2,     "1":2   },   "length":{     "0":5,     "1":5   },   "width":{     "0":5,     "1":19   },   "height":{     "0":5,     "1":67   },   "amount":{     "0":1,     "1":1   },   "pick_up":"test,test2,ALBERT LUTHULI,BLOEMFONTEIN,9323",   "sender_name":"Vash Sumbh",   "sender_email":"pooroosh.sumbhoolaul@jiniguru.net",   "sender_tel":"",   "account_number":"",   "sender_mob":"4894968",   "receiver_contact":"testege",   "receiver_name":"jini",   "receiver_phone":"",   "receiver_mobile":"7897564",</pre>

## EXAMPLE (WITH INSURANCE) CONTINUED

---

TYPE	REPRESENTATION
JSON	<pre>"receiver_email": "vashh08@gmail.com", "drop_off": "road, reter, ACTON CABA, TSOMO, 5401" }</pre>

## RESPONSE (WITH INSURANCE)

TYPE	RESPONSE
JSON	<pre>{   "data": {     "CostComparisonResult": {       "CostComparisonResults": {         "Statistics": {           "Reference": [],           "LeastCostIndex": "12",           "FastestCostIndex": "12",           "CalledBy": "WebService",           "Timestamp": "2017-03-10 16:33:49 +11:00",           "ExecutionTime": "00:00:01.1060023"         },         "ResultSet": {           "Result": [             {               "CarrierName": "COURIER IT",               "CarrierService": "BUDGET",               "CarrierAccount": "13614",               "DeliveryTime": "3D",               "DeliveryTimeHours": "72",               "EstDelivery": "2017-03-13T05:00:00",               "NetCost": "1,790.00",               "totdgcharge": "0.00",               "SurcCharge": [],               "SurcType": [],               "Levy": "499.7680000000",               "TotSurChrg": "499.77",               "TotalCost": "2,289.77",               "GSTAmount": "320.57",               "TotalCostIncTax": "2,610.34",               "mrkupchrg": "572.44",               "TotalCostPlusMarkup": "2,862.21",               "GSTOnMarkup": "400.71",               "grandtotmrkup": "3,262.92",               "ItemDesc1": "CARTON",               "ItemDesc2": [],             }           ]         }       }     }   } }</pre>

## RESPONSE (WITH INSURANCE) CONTINUED

TYPE	REPRESENTATION
JSON	<pre>"ItemDesc3": [], "ItemDesc4": [], "ItemDesc5": [], "ExcludeFromLeastCost": "False", "RecordId": "0" }, "totalVolume": 0.1848, "totalAmount": 2, "totalWeight": 4, "insurance": {   "checked": true,   "value": 200,   "cost": 17.1,   "net": 15,   "vat": 2.1,   "desc": "insurance Desc" } }</pre>

## RESPONSE STATUS CODE

---

### 1. Authentication has failed. Invalid or no token provided in headers

RESPONSE	STATUS
<pre>{   "error": {     "message": "Unauthorized",     "status_code": 401   } }</pre>	401

RESPONSE	STATUS
<pre>{   "error": {     "message": "Unauthorized. Login has expired.",     "token": null,     "payload":     "e37ca31f46546fe2d8e49f8ccca48a374dbc77     867bc8e339d9ac12de18db758cwefwefwefw     e",     "status_code": 401   } }</pre>	401

### 2. Missing required fields

RESPONSE	STATUS
<pre>{   "error": {     "message": "Not all required fields have     been properly filled in.",     "status_code": 422   } }</pre>	422

3. Volumetric value less than 5

RESPONSE	STATUS
<pre>{   "error": {     "message": "Each Volumetric value must be greater or equal to 5.",     "status_code": 422   } }</pre>	422

4. Weight value less than 2

RESPONSE	STATUS
<pre>{   "error": {     "message": "Weight value must be greater than one.",     "status_code": 422   } }</pre>	422

5. Invalid PickUP or DropOff addresses

RESPONSE	STATUS
<pre>{   "error": {     "message": "Invalid Address Format.",     "status_code": 422   } }</pre>	422

## BOOKINGCONFIRMATION (REQUEST ORDER BOOKING)

This endpoint will be used to request an order booking for a user through the API. This API comprises of all volumetric data, supplier and delivery address along with selected carrier service.

### URI

---

/api/v2/bookingConfirmation

### VERB

---

POST

### HEADERS

---

Header	Description
X-Auth-Token	Token issued to Ecommerce users to identify Ecommerce as the principal.
Rush-email	Rush Account email of the storefront user, to check rush wallet account.

### NOTE:

#### Valid Addresses

List of Valid addresses can be downloaded from <https://rush.co.za/frontend/app/addressListingAll.json>

Volumetric (length, width, height and weight) entered in costComparison API should be same for bookingConfirmation.

Parameters "amt", "cube" and "wgt" values, are available in the costComparison API response.

costComparison parameter		bookingConfirmation parameter
totalVolume	=	cube
totalAmount	=	amt
totalWeight	=	wgt
length	=	length
width	=	width
height	=	height
weight	=	weight

## BODY

---

Content-Type = text/json

Parameter Name	Data Type	Description
CarrierName	String	Name of the Courier to collect the order
CarrierService	String	Service Type Selected by client (Budget, Pronto, Overnight)
CarrierAccount	Integer	Account number of selected Courier
DeliveryTime	String	Number of day the Courier is scheduled to collect
DeliveryTimeHours	String	Number of hours the Courier is scheduled to collect
EstDelivery	String	Exact Date the Courier is scheduled to collect. Date Format Timestamp
NetCost	String	Total order cost including vat (Excluding Surcharge)
totdgcharge	String	The total value of any total dgcharge that were applied to the order.
SurcCharge	Array of String	Value of any surcharges that were applied to the order.
SurcType	Array of String	A description/Type of any surcharges that were applied to the order.
Levy	String	Tax or surcharge applied on the order
TotSurChrg	String	The total value of any surcharge that were applied to the order.
TotalCost	String	Total order cost with vat excluding tax (Including Surcharge) NetCost + TotSurChrg
GSTAmount	String	The goods and services tax imposed on an order
TotalCostIncTax	String	Total order cost including tax (Including Surcharge and GSTAmount) TotalCost + GSTAmount
mrkupchrg	String	a percentage that is added to the cost of an order
TotalCostPlusMarkup	String	Total order cost including markup charges TotalCost + mrkupchrg

## BODY CONTINUED

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**Content-Type = text/json**

Parameter Name	Data Type	Description
GSTOnMarkup	String	Cost of GST amount on markup
grandtotmrkup	String	Total cost of markup TotalCostPlusMarkup + GSTOnMarkup
ItemDesc1	String	By default it is set to CARTON
ExcludeFromLeastCost	String	By default it is set to False
RecordId	String	Provided by IFS
filterType	string	Service Type Selected by client (Budget, Pronto, Overnight)
TotalCostPlusMarkupView	string	Total order cost including markup charges TotalCost + mrkupchrg
sortByPrice	integer	Provided by IFS (TotalCostPlusMarkup)
sortByPriceDecimal	float	Provided by IFS (TotalCostPlusMarkup)
order_date	String	The date the order was created Date Format Timestamp
type	String	Refer to type of order. By default it is set to PARCEL
sender_name	String	Name of sender
sender_company	String	Company Name of sender
sender_email	String	Email address of sender
sender_tel	String	Phone number of sender
sender_mob	String	Mobile number of sender
sender_ref	String	Sender Reference

## BODY CONTINUED

---

**Content-Type = text/json**

Parameter Name	Data Type	Description
receiver_name	String	Name of Customer Account Contact
special_instructions	String	special_instructions for the order delivery
receiver_contact	String	Contact information of the client
receiver_phone	String	Primary phone number of Customer Account Contact
receiver_mobile	String	Primary mobile number of Customer Account Contact
receiver_email	String	Email address of Customer Account Contact
pick_up	String	Address to be collected from
drop_off	String	Address to be delivered to
insurance	Boolean	Set to true to ensure your parcel against theft, loss or damage or set to false for no insurance
insurance_value	Integer	value of insurance
insurance_cost	Float	Amount of insurance
insurance_desc	String	Description of insurance
insurance_text	String	Refer to insurance cost and description
length	Object of Integer	Volumetric size of the orders boxes (CM)
width	Object of Integer	Volumetric size of the orders boxes (CM)
height	Object of Integer	Volumetric size of the orders boxes (CM)
weight	Object of Integer	Volumetric size of the orders boxes (KG)

BODY CONTINUED

---

**Content-Type = text/json**

Parameter Name	Data Type	Description
amount	Object of Integer	Quantity of the parcel to be delivered
parcel_desc	String	Description of parcel
amt	Integer	Total quantity of parcels to be delivered
cube	Float	Total Volume From
wgt	Integer	Total weight of parcels to be delivered
send_ext_invoice	Boolean	If true send invoice to sender mail

## EXAMPLE

---

Objects weight, length, width, height and amount must have key value pairs like: "0" : 2, "1": 5 with value of type integer.

TYPE	REPRESENTATION
JSON	<pre>{   "CarrierName":"SKYNET",   "CarrierService":"BUDGET",   "CarrierAccount":"J18185",   "DeliveryTime":"1D",   "DeliveryTimeHours":"24",   "EstDelivery":"2017-03-04T05:00:00",   "NetCost": "70.00",   "totdgcharge":"0.00",   "SurcCharge":[  ],   "SurcType":[  ],   "Levy": "0.000000",   "TotSurChrg": "0.00",   "TotalCost": "70.00",   "GSTAmount": "9.80",   "TotalCostIncTax": "79.80",   "mrkupchrg": "17.50",   "TotalCostPlusMarkup": "87.50",   "GSTOnMarkup": "12.25",   "grandtotmrkup": "99.75",   "ItemDesc1":"CARTON",   "ItemDesc2":[  ],   "ItemDesc3":[  ],   "ItemDesc4":[</pre>

```
],
  "ItemDesc5":[

  ],
  "ExcludeFromLeastCost":"False",
  "RecordId":"12",

  "filterType":"budget",
  "TotalCostPlusMarkupView":"87.50",
  "sortByPrice":8750,
  "sortByPriceDecimal":87.5,
  "order_date":"2017-03-03 13:11:38",
  "type":"Parcel",
  "sender_name":"StoreFront",
  "sender_company":"Ecommerce Compnay",
  "sender_email":"pooroosh.sumbhoolaul@jiniguru.net",
  "sender_tel":"",
  "sender_mob":"4894968",
  "sender_ref":"",
  "receiver_name":"jini",
  "special_instructions":"",
  "receiver_contact":"testege",
  "receiver_phone":"",
  "receiver_mobile":"7897564",
  "receiver_email":"vashh08@gmail.com",
  "pick_up":"test,test2 | | | ALBERT
LUTHULI | | BLOEMFONTEIN | | 323",
  "drop_off":"2 , road | | reter | | ACTON
CABA | | TSOMO | | 5401",
  "insurance":true,
  "insurance_value":250,
  "insurance_cost":17.1,
  "insurance_desc":"'gergerg'",
  "insurance_text":"'(incl. insurance for 'gergerg' valued
at R250)",
  "length":{
```

```
    "0": "5",
    "1": "5"
  },
  "width": {
    "0": "5",
    "1": "5"
  },
  "height": {
    "0": "5",
    "1": "5"
  },
  "weight": {
    "0": 2,
    "1": 2
  },
  "amount": {
    "0": 1,
    "1": 1
  },
  "parcel_desc": {
    "0": "wrwer",
    "1": "wrwerdwedwe"
  },
  "amt": 2,
  "cube": 0.0001,
  "wgt": 4,
  "send_ext_invoice": false
}
```

## RESPONSE STATUS CODE

---

CODE	COMMENT
200	SUCCESS
422	UNPROCESSABLE
500	FAILURE

RESPONSE	STATUS
<pre>{   "message": "Your Payment was successful.",   "waybill": "TSNR020034" }</pre>	200

RESPONSE	STATUS
<pre>{   "error": {     "message": {       "message": "Not enough amount in Wallet.",       "wallet_amount": ""     },     "status_code": 422   } }</pre>	422

RESPONSE	STATUS
<pre>{   "message": "Internal error. Transaction failed." ,   "status_code": 500 }</pre>	500

## GENERATE PDF (REQUEST WAYBILLS PDF)

This endpoint will be used to request waybills pdf format link when parcels are packed and ready for collection.

### URI

---

/api/v2/generatePDF

### VERB

---

POST

### HEADERS

---

Header	Description
X-Auth-Token	Token issued to Ecommerce users to identify Ecommerce as the principal.

### BODY

---

**Content-Type = text/json**

Parameter Name	Data Type	Description
waybills	object	List of waybills to be collected

### EXAMPLE

---

TYPE	REPRESENTATION
JSON	<pre>{   "waybills":{     "0":"RSH000340042",     "1":"RSH000340010",     "2":"SNR011475"   } }</pre>

## RESPONSE

---

Array of Object :

Key – Waybill Number

Value – Waybill PDF link

RESPONSE	STATUS
<pre>[   {     "RSH000340010": "https://BEARSKIN.ifsconnect.net/webprints/print- x10HdfwU-X10H20630-20170608092724.pdf?_dc=5248011126870415859"   },   {     "SNR011475": "https://BEARSKIN.ifsconnect.net/webprints/print-xQj5gfw- XQJ520668-20170608092733.pdf?_dc=5248011126958805859"   },   {     "RSH000340042": "https://BEARSKIN.ifsconnect.net/webprints/print-x10HffB0- X10H20946-20170608092742.pdf?_dc=5248011127048565859"   } ]</pre>	200

## TRACKWAYBILL (REQUEST WAYBILL TRACKING)

This endpoint will be used to request tracking event for an order's waybill through the API.

### URI

---

/api/v2/trackWaybill/{waybill}

### VERB

---

GET

### HEADERS

---

Header	Description
X-Auth-Token	Token issued to Ecommerce users to identify Ecommerce as the principal.

### URL PARAM

---

Example:

/api/v2/trackWaybill/TCGR002922

## TRACKWAYBILL (RESPONSE WAYBILL TRACKING)

RESPONSE	STATUS
<pre>{   "error": {     "message": "Your connote/ waybill number is invalid.",     "status_code": 404   } }</pre>	404

RESPONSE	STATUS
<pre>{   "error": {     "message": "Something went wrong",     "status_code": 500   } }</pre>	500

RESPONSE	STATUS
<pre>{   "Response": {     "Data": null,     "carriername": "SKYNET",     "carrierlogo": "http://www.rush.co.za/imgs/partners/skynet.j pg",     "waybillnumber": "SNR340047"   } }</pre>	200

RESPONSE	STATUS
<pre> {   "Response": {     "Data": [       {         "eventdate": "2017-05-19",         "eventtime": "17:43:07",         "eventdescription": "Collection checked in at Johannesburg facility",         "eventlocation": "JNB",         "eventstatus": {           "status_code": 1,           "status_type": "D"         }       },       {         "eventdate": "2017-05-20",         "eventtime": "04:30:25",         "eventdescription": "Consignment details captured",         "eventlocation": "JNB",         "eventstatus": {           "status_code": 1,           "status_type": "B"         }       },       {         "eventdate": "2017-05-22",         "eventtime": "06:49:07",         "eventdescription": "Loaded for delivery from Johannesburg facility",         "eventlocation": "JNB",         "eventstatus": {           "status_code": 1,           "status_type": "1"         }       },       {         "eventdate": "2017-05-22",         "eventtime": "07:14:47",         "eventdescription": "Dispatched",         "eventlocation": "JNB",         "eventstatus": {           "status_code": 1,           "status_type": "C"         }       },       {         "eventdate": "2017-05-22", </pre>	<p>200</p>

```

    "eventtime": "12:17:00",
    "eventdescription": "Proof of delivery
details captured",
    "eventlocation": "JNB",
    "eventstatus": {
      "status_code": 2,
      "status_type": "P"
    }
  },
  {
    "eventdate": "2017-05-22",
    "eventtime": "12:17:08",
    "eventdescription": "Delivered",
    "eventlocation": "JNB",
    "eventstatus": {
      "status_code": 2,
      "status_type": "DE"
    }
  }
],
"carriername": "THE COURIER GUY",
"carrierlogo":
"http://www.rush.co.za/imgs/partners/courier-
guy.jpg",
"waybillnumber": "TCGR002922"
}
}

```

Parameter Name	Data Type	Description
Data	Array of strings	Contains waybill's events and status
eventdate	String	Date of tracking event
eventtime	String	Time of tracking event
eventdescription	String	Description of the tracking event
eventlocation	String	Waybill's location
eventstatus	String Object	Contains status_code and status_type
status_code	Integer	Code of waybill's status. 1 – Intransit , 2 – Delivered, 0 - Error
carrier_name	String	Name of the waybill's carrier
carrierlogo	String	URL path of carrier logo
Waybillnumber	String	Waybill Number

