**Web Service Technical Document**

**(Turboviz Transport)**

Pickup and Delivery

Version 1.6.6

Revision History

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# Introduction

This document spells out the 3 Integrations of Registration, Transit Scan & Acceptance and SignOff Processes.

Registration Process

This comprises of the Mobile device sending the system a request for registration and the system returning the registration ID.

Transit Scan

This is used to scan multiple consignments via the mobile device only once the scanning has been done and sent to the system that the system matches the consignments and despatches the Job to the mobile device. It then updates the status of the consignment.

Scan & Acceptance and SignOff Processes

Once the Job is sent to the device the user has the option to either accept or reject the job. If rejected then the feedback is sent to the system. In the instance that the job is accepted then,

All subsequent statuses will be updated until the job is closed.



## URL Definition

The reason to add this section is to avoid URL Link misunderstand between the developers when they try to implement the services from now on, changes for URL such as IP, Domain will be defined in here.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SERVER | Server Type | IP | Port No | Domain Name |
| Turboviz Production | Live | 108.161.134.22 | 8180 | au.turboviz.com |
| Turboviz Test | Test | - | - | - |

Note: You can use either domain name or IP and Port together

Ex : <http://au.turboviz.com/workflow/rest/api/v1/MultiPodService/saveMultiplePOD>

OR

<http://108.161.134.22:8180/workflow/rest/api/v1/MultiPodService/saveMultiplePOD>

# DATA STRUCTURE

Please note that \* mark indicate the mandatory fields and below Field order same as the web service parameters order.

## 2.1 Registration via mobile Device

When a mobile is registered the following details are received from the mobile. These details need to be saved in the system and a Registration ID is generated and sent along with a status and with a token. The token will be used to verify the device when the device is using other web-services.

* Full Name
* Company Name
* Email Address
* Phone No
* State
* Device ID
* Registration Date and Time
* Longitude
* Latitude
* deviceName
* gcmId – Google Message ID
* applicationType – To Identify the Application being used in registraion
* siteCode - To which branch the device is belong to

*Note : “Application Type” and “Site-Code” is added to comply with the asset application so other mobile application may not need these two fields (2016-08-25). The value for “Application Type” depend on the mobile application ex : for usual shipment deliveries value is “SHIPMENT\_APP” for Asset Application the value would be “ASSET\_APP”*

* The email address will be used as unique data to validate.
* The system will check if there is a matching record in the system for the email address.
* If YES then the system will send the already existing registration id and status confirmation to the device and update the current date and time.
* If NO then the system will create a new registration id and update the above data including registration date and time, it will then pass the registration id back to the device and a status confirmation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | Full Name | String | 100 | CP AGENT 1 |
| 2 | Company Name\* | String | 50 | CP |
| 3 | Email Address\* | String | 50 |  |
| 4 | Phone No | Number | 15 | 0775123456 |
| 5 | State | String | 20 |  |
| 6 | Device ID\* | String | 10 | DI1234 |
| 7 | Registration Date and Time | DateTime |  | dd-mm-yyyy hh:mm |
| 8 | Latitude | String | 20 |  |
| 9 | Longitude | String | 20 |  |
| 10 | deviceName | String | 20 |  |
| 11 | gcmId | String | 150 |  |
| 12 | applicationType | String | 50 |  |
| 13 | siteCode | String | 20 |  |

Via the return response the following will be sent back to the mobile device.

* Registration ID
* Status Confirmation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | Registration ID\* | String | 20 |  |
| 2 | Status Confirmation\* | String | 50 |  |
| 3 | token | String | 40 |  |

## Registration via mobile Device

URL

http://<IPAddress>:<Port>/workflow/rest/api/v1/swPickupDetails/register

http://<domain Name>/workflow/rest/api/v1/swPickupDetails/register

**Parameters List**

* fullName
* company
* email
* phoneNo
* state
* deviceId
* registrationDateTime
* latitude
* longitude
* deviceName
* gcmId
* applicationType
* siteCode

**Important Notes**

* Dates must be passed as formatted String – format (dd-MM-yyyy HH:mm:ss).
* Above URL is working only with post method.
* It must be on enctype="multipart/form-data".

**Response**

If success

[ {"msg" : "Ok","registrationId" : 8, “token” : “6kqo8fla5pj6cge3u8houv0i8b”} ]

If not

Response code and Msg

**2.2 Scan Multiple Consignment (Multi POD Scan)**

Please note that \* mark indicate the mandatory.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | deviceId\* | String | Varchar(50) | 78 |
| 2 | userName | String | Varchar(50) | DONJ |
| 3 | registrationId | String | Varchar(20) | 27 |
| 4 | latitude | String | Varchar(200) |  |
| 5 | longitude | String | Varchar(60) |  |
| 6 | signOffDatetime\* | String | Varchar(50) | DD-MM-YYYY HH:MM:SS |
| 7 | transportProvider\* | String | Varchar(50) | DHL |
| 8 | reciverNameImage | String |  | BASE 64 Encoed String |
| 9 | signature | String |  | BASE 64 Encoed String |
| 10 | customerRating | String |  | BASE 64 Encoed String |
| 11 | reciverSignatureName | String | Varchar(50) | Name of the Receiver “Tom Riddle” |

Header data structure

**In http request header**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | device-token\* | String | Varchar(40) | b204a2mj0u3rb7hcfkmm63bqso |
| 2 | device-identification\* | String | Varchar(50) | 865753028941613 |

***device-token -***  The token given to the device when device is registered with the system

***device-identification –*** Id of the device AKA “deviceId”

Line item data structure (Consignment Details)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | consignmentNo\* | String | Varchar(50) |  |
| 2 | Pieces\* | Integer | 4 | 4 |
| 3 | deliveryNote | String |  |  |
| 4 | accountType |  |  |  |
| 5 | status | String | Varchar(50) | Mobile Status |
| 6 | specialNotes | String | Varchar (100) |  |
| 7 | photoConsignment | String |  | Base 64 Encoded String |
| 8 | shipmentPod | String |  | Base 64 Encoded String |
| 9 | reBookDatetime | String |  | 29-11-2016 16:02:00 |
| 10 | signOffDatetime | String |  | 29-11-2016 16:02:00 |
| 11 | photoConsignmentDatetime | String |  | 29-11-2016 16:02:00 |

The URL: http://{serverIp}:{port} /workflow/rest/api/v1/MultiPodService/saveMultiplePOD

OR

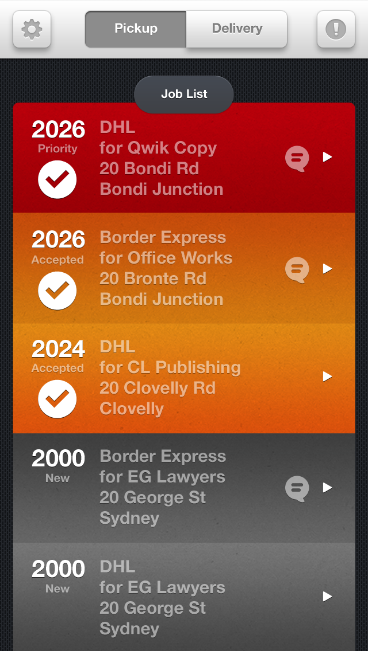
http://{domainName}/workflow/rest/api/v1/MultiPodService/saveMultiplePOD

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

Web Service Respond Codes

|  |  |
| --- | --- |
| Response | Description |
| Please Fill Mandatory Data | If Mandatory Fields not Filled |
| Error | If Error OR an Exception |
| Successful | If Data Save Successfully saved |
|  |  |

## 2.3 Job details sent to the Mobile Device

When the Job is entered into the system the Device User needs to click a button this will send Registration ID to the web service and the web service will pass the following details to the mobile.

Once user clicks on the pickup button the mobile device sends the Registration ID and Device ID to get the allocated pickup jobs, same service is used for the delivery.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | Device ID\* | String | 10 |  |
| 2 | Registration ID\* | String | 20 |  |
| 3 | Latitude | String | 20 |  |
| 4 | Longitude | String | 20 |  |

The Registration ID and Device ID will be checked and

* If a match is not found will return the message – “Authentication Failed”
* If a match is found then will look for allocated pickup jobs
* If not found it will return the message – “No Pickup Jobs assigned”
* If found it will return the following

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | Carrier\* | String | 25 | DHL |
| 2 | Sub-Contractor\* |  | 25 | DHLA1 |
| 3 | Job Reference\* | String | 14 | CPAUAU00000001 |
| 4 | Booking Reference | String | 25 |  |
| 5 | Pickup First Name | String | 25 |  |
| 6 | Pickup Last Name | String | 25 |  |
| 7 | Pickup Mobile No | String | 10 |  |
| 8 | Pickup Date | Date Time |  | DD-MM-YYYY |
| 9 | Pickup Address Unit/No | String | 25 |  |
| 10 | Pickup Address Street | String | 25 |  |
| 11 | Pickup Address Suburb | String | 25 |  |
| 12 | Pickup Address State | String | 25 |  |
| 13 | Pickup Address Postcode | String | 25 |  |
| 14 | Pickup Contact No (Site) | Number | 10 |  |
| 15 | Pickup Special Instructions | String | 50 |  |
| 16 | Pickup Close By ( Time ) | Date Time |  | dd-mm-yyy hh:ss |
| 17 | Pickup Hazards Goods | String | 25 |  |
| 18 | Delivery First Name | String | 50 |  |
| 19 | Delivery Last Name |  |  |  |
| 20 | Delivery Address Unit/No | String | 25 |  |
| 21 | Delivery Address Street | String | 25 |  |
| 22 | Delivery Address Suburb | String | 25 |  |
| 23 | Delivery Address State | String | 25 |  |
| 24 | Pickup Address Postcode | String | 25 |  |
| 25 | Delivery Contact No(Site) | Number | 10 |  |
| 26 | Delivery Mobile No | Number | 10 |  |
| 27 | Delivery Special Instructions | String | 50 |  |
| 28 | Delivery Date | Date Time |  | dd-mm-yyyy |
| 29 | Priority\* | String | 5 | Yes/no |
| 30 | Status | String |  | New/reassign |
| 31 | Consignment No \* | String | 50 | Mandatory if job type is delivery |
| 32 | Notification | String | 5 | Yes/No |
| 33 | companyId | Number | 10 |  |
| 34 | acceptedTime | Date Time |  | dd-MM-yyyy HH:mm:ss if accepted time is not found en empaty string will be returned |

## Job details sent to the Mobile Device

**URL**

http://{IP}:{Port}/workflow/rest/api/v1/swPickupDetails/{deviceId}/{registrationId}

OR

http://{domain}/workflow/rest/api/v1/swPickupDetails/{deviceId}/{registrationId}

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

**Response**

Response will be represented as a JSON

Example:

[{"msg":"No Pickup Jobs Assigned"}]

OR

    [

        {

            "pickupAddressStreet": "Desk005",

            "jobType": "D",

            "pickupAddressState": "Desk005",

            "pickupFirstName": "Test 3",

            "pickupAddressSuburb": "Suburbn005",

            "deliverySpecialInstructions": "test DHLAUS00000028",

            "deliveryFirstName": "Test 3",

            "deliveryAddressPostcode": "PC005",

            "jobCreatedDate": "12-11-2015 14:33:47",

            "deliveryAddressState": "Desk005",

            "jobReference": null,

            "deliveryLastName": "Test 3",

            "priority": "YES",

            "pickupDate": "11-11-2015 00:00:00",

            "pickupMobileNo": "0112789456",

            "pickupCloseBy": "19-11-2015 14:33:00",

            "deliveryAddressSuburb": "Suburbn005",

            "carrier": "DHL",

            "deliveryDate": "12-11-2015 00:00:00",

            "jobNo": "29",

            "bookingReference": "DHLAUS00000028",

            "pickupLastName": "Test 3",

            "pickupAddressPostcode": "PC005",

            "pickupContactNo": "1234567890",

            "pickupSpecialInstructions": "test DHLAUS00000028",

            "deliveryContactNo": "1234567890",

            "status": "Assigned",

            "pickupAddressNo": "UN005",

            "deliveryAddressNo": "UN005",

            "subContractor": "DHL AGENT 1",

            "deliveryAddressStreet": "Street005",

            "deliveryMobileNo": "0112789456",

            "pickupHazardsGoods": "no hazard",

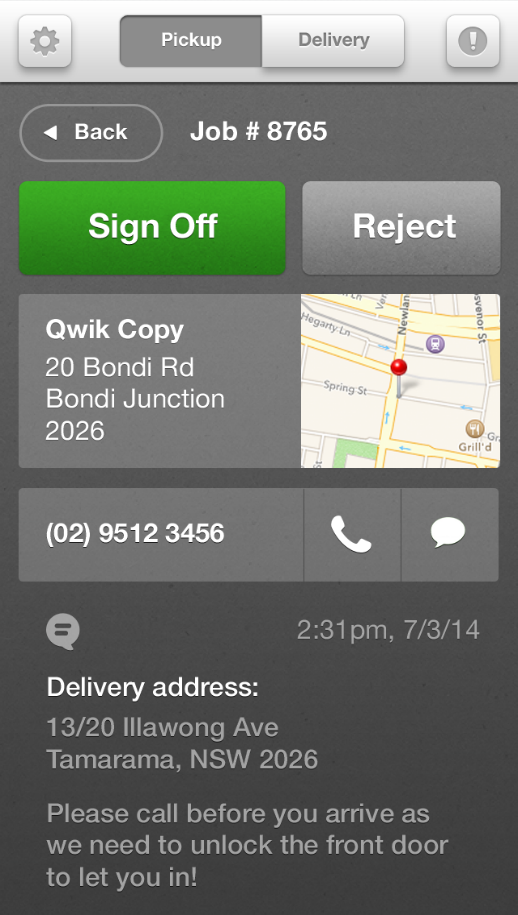
“consignment” : “CONTEST”

}

  ]

URL is only allowed the GET method to retrieve the pickup details or create a rest client

## 2.4 Status Update sent from Mobile



When the Device User sends the status updates for a JOB, the following needs to be updated on the system via the web service. This service can be used for both pickup and delivery jobs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Field name | Parameter | Type | Length | Sample Data |
| 1 | Booking Reference\* | bookingReference | String | 20 |  |
| 2 | Job Reference\* | jobReference | String | 14 |  |
| 3 | Consignment No | consignment | String | 50 |  |
| 5 | Account Type | accountType | String | 20 |  |
| 6 | Job Status | pickupStatus | String | 50 | Picked Up/Missed/Cancelled |
| 7 | Scan or Data Entry | scanOrDataEntry | String | 50 | Consignment No will send via this |
| 8 | Pieces | pieces | String | 20 |  |
| 9 | Receiver Name | reciverName | String | 50 |  |
| 7 | Special Notes | specialNotes | String | 50 | If the job type “D” use the delivery note option |
| 10 | Photo Consignment | photoConsignment | Data[] |  | picture |  |
| 11 | Pickup Note | pickUpNote | String | 50 |  |
| 12 | Sign Off Date Time | signOffDatetime | Date Time |  |  |
| 13 | Device ID\* | deviceId | String | 10 |  |
| 14 | Registration ID\* | registrationId | String | 20 |  |
| 15 | Photo Consignment Date Time | photoConsignmentDatetime | Date Time |  | DD:MM:YYYY HH:MM:SS |
| 16 | Latitude | latitude | String | 20 |  |
| 17 | Longitude | longitude | String | 20 |  |
| 18 | Receiver Signature Name | reciverSignatureName | String | 50 | In case of delivery. |
| 19 | Receiver Signature | reciverSignature | Data[] |  | In case of delivery. Sign image need to be pass. |
| 20 | Shipment Photo | shipmentPod | Data[] |  | If the delivery status “damage” |
| 21 | Customer Rating | customerRating | Data[] |  | Field Name “customerRating” |

In http request header

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | device-token\* | String | Varchar(40) | b204a2mj0u3rb7hcfkmm63bqso |
| 2 | device-identification\* | String | Varchar(50) | 865753028941613 |

***device-token -***  The token given to the device when device is registered with the system

***device-identification –*** Id of the device AKA “deviceId”

## Device User sends the status updates for Jobs (Sign Off)

**URL**

http://{IP}:{Port} /workflow/rest/api/v1/swPickupDetails/signOff

OR

http://{domain} /workflow/rest/api/v1/swPickupDetails/signOff

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

**Parameters List**

JobNumber

bookingReference

accountType

pickupStatus

scanOrDataEntry

pieces

reciverName

specialNotes

photoConsignment

fileDetail

reBookDatetime

pickUpNote

signOffDatetime

deviceId

photoConsignmentDatetime

latitude

longitude

registrationId

**Important Notes**

* Dates must be passed as formatted String – format (dd-MM-yyyy HH:mm:ss).
* Above URL works only with post method.
* It must be on enctype="multipart/form-data".
* photoConsignment is a file that is a picture.

**Response**

If success

[ {"msg" : "Ok"} ]

If failed

Response code and Msg

# Web Service Details

RESTful web services are designed to expose APIs on the Turboviz web and used JSON message format. REST stands for Representational State Transfer. It aims to provide better performance, scalability, and flexibility than traditional web services.

**Quick Scan Web-Service**

Please note that \* mark indicate the mandatory.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | deviceId\* | String | Varchar(50) | 78 |
| 2 | userName | String | Varchar(50) | DONJ |
| 3 | registrationId | String | Varchar(20) | 27 |
| 4 | latitude | String | Varchar(200) |  |
| 5 | longitude | String | Varchar(60) |  |
| 6 | signOffDatetime\* | String | Varchar(50) | DD-MM-YYYY HH:MM:SS |
| 7 | transportProvider\* | String | Varchar(50) | DHL |
| 8 | pickupStatus | String |  | BASE 64 Encoed String |

Header data structure

**In http request header**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | device-token\* | String | Varchar(40) | b204a2mj0u3rb7hcfkmm63bqso |
| 2 | device-identification\* | String | Varchar(50) | 865753028941613 |

***device-token -***  The token given to the device when device is registered with the system

***device-identification –*** Id of the device AKA “deviceId”

Line item data structure (Consignment Details)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | consignmentNo\* | String | Varchar(50) |  |
| 2 | pieces\* | Integer | 4 | 4 |
| 3 | description | String |  |  |
| 4 | shipmentPhoto | String |  | BASE 64 Encoed String |

**Save Quick Scan**

**URL**

http://{IP}:{Port}/workflow /rest/api/v1/ConsignmentService/saveMultiShipmentPOD

OR

http://{domain}/workflow /rest/api/v1/ConsignmentService/saveMultiShipmentPOD

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

## {

## "longitude": "1",

## "latitude": "1",

## "signOffDatetime": "07-12-2016 14:54:00",

## "pickupStatus": "Transit",

## "userName": "Yasitha C",

## "transportProvider" : "DPHIBM",

## "deviceId": "892520860V",

## "registrationId" : "65",

## "shipments": [

## {

## "consignmentNo": "con-161207-1436",

## "description" : "A test Description",

## "shipmentPhoto": "",

## "pieces": 4

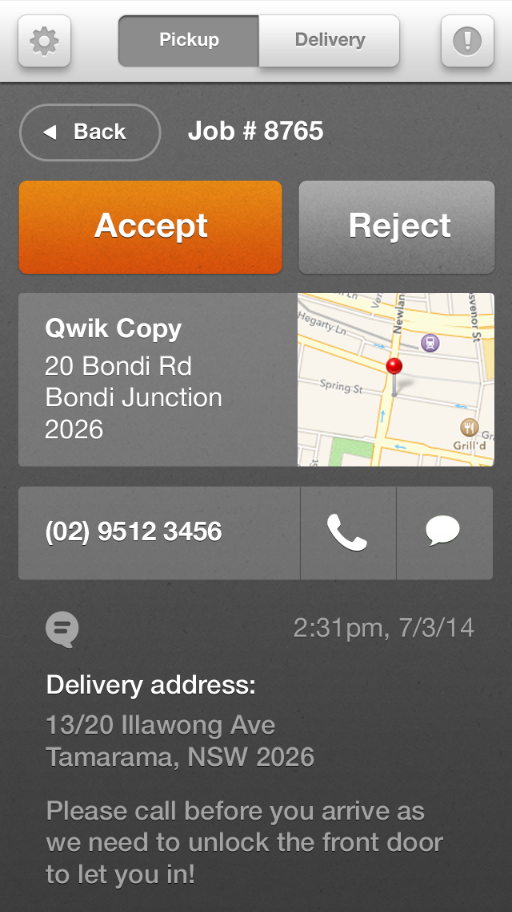
## }

## ]

## }

# Phase 2

## 4.1 Acceptance or Rejection of Job

Once the mobile device receives the jobs the Device User selects one and can either ‘Accept’ or ‘Reject’ a pickup. This feedback needs to be sent via a web service back to the system

If Accepted – the job needs to be locked to the Device User and Mobile Device

If Rejected – then the job needs to be unlocked so it can be assigned to another Device User.

When the Device User Accepts of Rejects the following details will be sent to the Web Service

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Field name | Parameter | Type | Length | Sample Data |
| 1 | Pickup Status\* | pickupStatus | String | 10 | ‘Accept’ if accept button selected or ‘Cancelled’ if Reject button is selected |
| 2 | Booking Reference\* | bookingReference | String | 20 |  |
| 3 | Device ID\* | deviceId | String | 10 |  |
| 4 | Registration ID\* | registrationId | String | 20 |  |
| 5 | Status Date and Time | signOffDatetime | DateTime |  | dd-MM-yyyy HH:mm:ss |
| 6 | Latitude | latitude | String | 20 |  |
| 7 | Longitude | longitude | String | 20 |  |
| 8 | Job Id | JobNumber | Long |  | 1502 |

Once the Accept or reject request is received the web service will respond to the request by a status message

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | Registration ID\* | String | 10 |  |
| 2 | Status \* | String | 20 |  |

In http request header

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | device-token\* | String | Varchar(40) | b204a2mj0u3rb7hcfkmm63bqso |
| 2 | device-identification\* | String | Varchar(50) | 865753028941613 |

***device-token -***  The token given to the device when device is registered with the system

***device-identification –*** Id of the device AKA “deviceId”

“Sign Off” API will be used to send either “Accept” or “Reject”. Please refer

## “2.4 Status Update sent from Mobile”

**4.3 Retrieving all drivers currently registered with the System**

This will retrieve all the drivers currently registered with the system. This Service is a ‘HTTP GET’ method

URL: http://{IP}:{Port}/workflow/rest/api/v1/DriverService/getAllDrivers

OR

http://{Domain }/workflow/rest/api/v1/DriverService/getAllDrivers

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

This method will return a ‘JSON’ array. Following are the details include in a return JSON element

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | id | Number | 5 | 41 |
| 2 | country | String |  |  |
| 3 | registerdDate | Date time |  | ’05-12-2016 18:59:55’ dd-MM-yyyy HH:mm:ss |
| 4 | companyName | String | 30 | ‘TURBOTRANS’ (also known as transport agent) |
| 5 | latitutde | String |  | 9.921877 |
| 6 | longitude | String |  | 9.921877 |
| 7 | fullName | String | 50 | “Yasitha” (Name of the driver) |
| 8 | mobileNO | String | 10 | 0719123456 |
| 9 | isActive | String |  | ‘true’ or ‘false’ |
| 10 | deviceId | String |  | 865291028423845 |
| 11 | registerdStatus | String |  | ‘Sucess’ |
| 12 | deviceName | String |  | ‘My Device 0012’ |
| 13 | gcmId | String |  | Google Registration Id |
| 14 | registrationId | Number |  | ‘57’ |
| 15 | Email | String |  | ‘test@test.com’ |

If there is no drivers

Following message will return to retriever.

[{"msg" : "Drivers not be found"} ]

Ex :

|  |  |
| --- | --- |
| country | "India" |
| registeredDate | "07-12-2015 18:00:40" |
| companyName | "CLOUDFOYO" |
| latitude | "9.921877" |
| fullName | "SANGEET" |
| mobileNo | "8547421850" |

**4.4 Retrieving All the Jobs by Registration Id**

This web service will be used to retrieve all the job for a single user registration id, thus far jobs were retrieved by for given registration id and for given device id

With this service jobs can be retrieved by the user registration id

This web service use ‘HTTP GET’ method

URL : http://{domain} /workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationId/<registrationID>

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | registrationID\* | Number | 10 |  |

Following message will receive if given registration id is not valid

{

 "msg": "Registrtion Id is not valid"

}

Following message will receive if there is no job for given registration id

  {

 "msg": "No Pickup Jobs Assigned"

   }

The result will return as a JSON array

Followings are the attributes include in a specific Json element

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | Carrier\* | String | 25 | DHL |
| 2 | Sub-Contractor\* |  | 25 | DHLA1 |
| 3 | Job Reference\* | String | 14 | CPAUAU00000001 |
| 4 | Booking Reference | String | 25 |  |
| 5 | Pickup First Name | String | 25 |  |
| 6 | Pickup Last Name | String | 25 |  |
| 7 | Pickup Mobile No | String | 10 |  |
| 8 | Pickup Date | Date Time |  | DD-MM-YYYY |
| 9 | Pickup Address Unit/No | String | 25 |  |
| 10 | Pickup Address Street | String | 25 |  |
| 11 | Pickup Address Suburb | String | 25 |  |
| 12 | Pickup Address State | String | 25 |  |
| 13 | Pickup Address Postcode | String | 25 |  |
| 14 | Pickup Contact No (Site) | Number | 10 |  |
| 15 | Pickup Special Instructions | String | 50 |  |
| 16 | Pickup Close By ( Time ) | Date Time |  | dd-mm-yyy hh:ss |
| 17 | Pickup Hazards Goods | String | 25 |  |
| 18 | Delivery First Name | String | 50 |  |
| 19 | Delivery Last Name |  |  |  |
| 20 | Delivery Address Unit/No | String | 25 |  |
| 21 | Delivery Address Street | String | 25 |  |
| 22 | Delivery Address Suburb | String | 25 |  |
| 23 | Delivery Address State | String | 25 |  |
| 24 | Pickup Address Postcode | String | 25 |  |
| 25 | Delivery Contact No(Site) | Number | 10 |  |
| 26 | Delivery Mobile No | Number | 10 |  |
| 27 | Delivery Special Instructions | String | 50 |  |
| 28 | Delivery Date | Date Time |  | dd-mm-yyyy |
| 29 | Priority\* | String | 5 | Yes/no |
| 30 | Status | String |  | New/reassign |
| 31 | Consignment No \* | String | 50 | Mandatory if job type is delivery |
| 32 | Notification | String | 5 | Yes/No |
| 33 | companyId | Number | 10 |  |
| 34 | acceptedTime | Date Time |  | dd-MM-yyyy HH:mm:ss if accepted time is not found en empaty string will be returned |

**4.4 Retrieving Accepted Date and Time**

For to pull accepted date and time two web-service method will be used

1. Pulling Date and Time by giving job reference

         http://{domain}/workflow/rest/api/v1/DriverService/getAcceptTimeByJobReference/{jobReference}

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | jobReference \* | String | 12 | ‘DBPHA000012’ |

Ex: http://{domain}/workflow/rest/api/v1/DriverService/getAcceptTimeByJobReference/DPHIPHL00001177

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

Example Out put

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | signOffDate | Date Time |  | 22-04-2016 09:32:00 (yyyy-MM-dd HH:mm:ss) |
| 2 | createDate | Date Time |  | 22-04-2016 09:00:00 (yyyy-MM-dd HH:mm:ss) |

* “signOffDate” is the date and time that send to back-end with the ‘Accept’ status.
* “createDate” is the server date and time when the status hit the back-end

Outputs

* If job reference could not found the result would be following.

[

  {

    "msg": "Job Reference Could not Found"

  }

]

* If “Accept” Status could not find or does not exist for given job reference result would be following.

[

  {

    "msg": "Job does not have an Accept status"

  }

]

1. Pulling Date and Time by giving job id

URL: http://{IP}:{Port}/workflow/rest/api/v1/DriverService/getAcceptTimeByJobID/{jobId}

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

EX: [http://108.161.134.22:8180/workflow/rest/api/v1/DriverService/getAcceptTimeByJobID/1178](http://108.161.137.29:8180/workflow/rest/api/v1/DriverService/getAcceptTimeByJobID/1178)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | jobId \* | Number |  | 652 |

Example Out put

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | signOffDate | Date Time |  | 22-04-2016 09:32:00 (yyyy-MM-dd HH:mm:ss) |
| 2 | createDate | Date Time |  | 22-04-2016 09:00:00 (yyyy-MM-dd HH:mm:ss) |

* “signOffDate” is the date and time that send to back-end with the ‘Accept’ status.
* “createDate” is the server date and time when the status hit the back-end

Outputs

* If the given job id is not valid result would be following.

[

  {

    "msg": "Given Id is not valid"

  }

]

* If the given id could not found or does not exist result would be following

[

  {

    "msg": "Job ID Could not Found"

  }

]

* If th given id does not have an “Accept” status result would be following.

[

  {

    "msg": "Job does not have an Accept status"

  }

]

**4.5 Bag scan web service**

http://{IPAddress}:{Port}/workflow/rest/api/v1/BagScanService/saveBagScan

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

There are two statuses for bag scan

1). Scan In To Bag – When items are scanned in to bag

2). Scan Out From Bag – When items are scanned out from the bag

The header and shipment is very similar to POD scan, but in shipment section, the first item is  always consider as the bag in both scanned.

An example is attached with this mail

The Json structure to be made as follows,

{

  "longitude": "1",

  "latitude": "1",

  "signOffDatetime": "26-04-2016 07:12:00",

  "pickupStatus": "Scan Out From Bag",     <Can be either Scan In To Bag  or Scan Out From Bag >

  "userName": "Yasitha C",

  "transportProvider" : "IBM Philippines",

  "deviceId": "11111111BB",

  "shipments": [

    {

      <The very first element always consider as the bag>

      "consignmentNo": "BAG \_001",

      "description"  : "Description is an item in bag",

      "pieces": 4,

       “shipmentPhoto” : <base 64 encoded image>

    },

    {

      "consignmentNo": "BAG\_ITEM\_001",

      "description"  : "Description is an item in bag",

      "pieces": 4,

       “shipmentPhoto” : <base 64 encoded image>

    },

    {

      "consignmentNo": "BAG\_ITEM\_002",

      "description"  : "Description is an item in bag",

      "pieces": 4,

       “shipmentPhoto” : <base 64 encoded image>

    }

  ]

}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | deviceId\* | String | Varchar(50) | 78 |
| 2 | userName | String | Varchar(50) | DONJ |
| 3 | pickupStatus\* | String | Varchar(50) | Scan In To Bag |
| 4 | registrationId | String | Varchar(20) | 27 |
| 5 | Latitude | String | Varchar(200) |  |
| 6 | Longitude | String | Varchar(60) |  |
| 7 | signOffDatetime\* | String | Varchar(50) | DD-MM-YYYY HH:MM:SS |
| 8 | transportProvider\* | String | Varchar(50) | DHL |

Header data structure

In http request header

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Field name | Type | Length | Sample Data |
| 1 | device-token\* | String | Varchar(40) | b204a2mj0u3rb7hcfkmm63bqso |
| 2 | device-identification\* | String | Varchar(50) | 865753028941613 |

***device-token -***  The token given to the device when device is registered with the system

***device-identification –*** Id of the device AKA “deviceId”

Line item data structure (Consignment Details)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Field name** | **Type** | **Length** | **Sample Data** |
| 1 | consignmentNo\* | String | Varchar(50) |  |
| 2 | Pieces\* | Integer | 4 | 4 |
| 3 | description | String | 100 | Test Description |
| 4 | shipmentPhoto | String |  | Image encoded into base64 format |

\*N.B : The field ‘transportProvider’ will used to carry client/customer name or client/customer code. This change done because to support multiplicity (mean by a company can have multiple carriers and vice versa) to minimize the changes to mobile app. There is a separate section to setup customer in mobile application.

**4.5 My Action Web-Service**

This web service (Also known as ‘Driver Action’) will be used to record driver’s action. The driver will select the one of the statuses from the side menu, and with that driver can send a description and an image which both are optional.

Jason Structure as follows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Field name** | **Type** | **Length** | **Sample Data** |
| 1 | longitude\* | String | Varchar(50) | 6.458 |
| 2 | Latitude\* | String | Varchar(50) | 79.99 |
| 3 | signoffDateAndTime\* | Date | dd-MM-yyyy HH:mm:ss | 25-05-2016 11:13:00 |
| 4 | deviceId\* | String | Varchar(30) | 869153027316626 |
| 5 | action\* | String | Varchar(100) | Stop For Break |
| 6 | comment | String | Varchar(200) |  |
| 7 | deviceUser \* | String | Varchar(50) | D User 100 |
| 8 | photo | String |  | Base 64 Encoded String |

In http request header

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Field name** | **Type** | **Length** | **Sample Data** |
| 1 | device-token\* | String | Varchar(40) | b204a2mj0u3rb7hcfkmm63bqso |
| 2 | device-identification\* | String | Varchar(50) | 865753028941613 |

***device-token -***  The token given to the device when device is registered with the system

***device-identification –*** Id of the device AKA “deviceId”

*•The comment and the photo are optional fields*

The Link For: My Action Web Service

http://{IPAddress}:{Port}/workflow/rest/api/v1/MyactionService/saveMyAction

Or

http://{domain}/workflow/rest/api/v1/MyactionService/saveMyAction

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

JSON Structure as follows

{

"longitude": "121",

"latitude": "101",

"signoffDateAndTime": "25-05-2016 11:13:00",

"deviceId": "892520860V",

"action" : "10% Empty",

"comment" : "storage is available",

"deviceUser" : "user\_1",

"photo" : <base64 encoced image as a string>

}

If the given device id is empty following message will be thrown

{

"code": 400,

"msg": "Please send device id"

}

If the given device id is not valid following message will be thrown

{

"code": 400,

"msg": "Incorrect Device"

}

If the driver action successfully saved following message will be shown

{

"code": 200,

"msg": "Successfull"

}

***Web Services For MAP API***

*Retrieving Jobs for a specific Customer*

This method will be used to retrieve job by giving the customer name

In here customer is a text value

“getJobListByRegistrationIdAndCutomer/{registrationId}/{customer}”

ex : [http://localhost:8080/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomer/{244}/{IBM Philippines](http://localhost:8080/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomer/%7b244%7d/%7bIBM%20Philippines)}

URL

http://{domain}/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomer/65/{IBM Philippines}

OR

http://{IPAddress}:{Port}/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomer/65/{IBM Philippines

 Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

 If customer does not exist

[{"msg":"Company does not exist "}]

Customer name is valid but does not have jobs

If customer does not have jobs

[{"msg":"No Pickup Jobs Assigned"}]

This method will be used to retrieve job by giving the customer id

In here customer id is a numerical value

“getJobListByRegistrationIdAndCutomerID/{registrationId}/{customerid}”

ex : <http://localhost:8080/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomerID/244/14864>

 URL

<http://au.turboviz.com/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomerID/65/1486>

OR

[http://108.161.134.22:8180/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomerID/65/1486](http://au.turboviz.com/workflow/rest/api/v1/swPickupDetails/getJobListByRegistrationIdAndCutomerID/65/1486)

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

If given customer id is not valid

[{"msg":"Customer Id is not valid"}]

Customer id is valid but does not have jobs

If customer does not have jobs

[{"msg":"No Pickup Jobs Assigned"}]

***Courier List by the company***

The method is a “POST” method

EX : <http://localhost:8080/workflow/rest/api/v1/CustomerCourierService/getCouriersForthisCustomer>

URL

http://{domain}/workflow/rest/api/v1/CustomerCourierService/getCouriersForthisCustomer

 OR

http://{IPAddress}:{Port}/workflow/rest/api/v1/CustomerCourierService/getCouriersForthisCustomer

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

 Data should push to backend like following,

{  "customer": "3250"}

Typical output will be like following

[

  {

    "gcmkey": "AIzaSyBagyyR4ZhT6cZBi79Qgdafgwb7F73EEws",

    "countrycode": "PHL",

    "carriername": "DPHDB",

    "carriercode": "DPHD"

  },

  {

    "gcmkey": "AIzaSyBagyyR4ZhT6cZBi79Qgdafgwb7F73EEws",

    "countrycode": "PHL",

    "carriername": "DPHIBM",

    "carriercode": "DPHI"

  }

]

Following error messages  will be thrown;

If Compay does not exist

{

  "code": 400,

  "msg": "Company Not found"

}

If  no couriers for the company

{

  "code": 400,

  "msg": "No couriers for the company"

}

***Customer List by the Courier***

The method is a “POST” method

Ex :

<http://localhost:8080/workflow/rest/api/v1/CustomerCourierService/getCustomersForThisCourier>

URL

http://{domain}/workflow/rest/api/v1/CustomerCourierService/getCustomersForThisCourie

OR

http://{IPAdress}:{Port}/workflow/rest/api/v1/CustomerCourierService/getCustomersForThisCourier

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

Data should push to backend like following,

{

  "customer": "3250"

}

Typical output will be like following

[

  {

    "companyid": "1486",

    "companyname": "IBM Philippines",

    "companycode": "PHIBM",

    "country": "Philippines"

  },

  {

    "companyid": "3250",

    "companyname": "Deutsche Bank Philippines",

    "companycode": "PHDB",

    "country": "Philippines"

  }

]

Following error messages  will be thrown;

If Compay does not exist

{

  "code": 400,

  "msg": "Courier Not found"

}

Please note: The following web services are changed from “POST” to “GET”

*Customer list from The Courier*

/CustomerCourierService/getCustomersForThisCourier/DPHI

EX :  <http://localhost:8080/workflow/rest/api/v1/CustomerCourierService/getCustomersForThisCourier/DPHI>

URL

http://{IPAddress}:{Port}/workflow/rest/api/v1/CustomerCourierService/getCustomersForThisCourier/DPHI

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

*Courier List from the Customer*

/getCouriersForthisCustomer/1486

Ex : <http://localhost:8080/workflow/rest/api/v1/CustomerCourierService/getCouriersForthisCustomer/1486>

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)

URL

http://{IPAddress}:{Port}/workflow/rest/api/v1/CustomerCourierService/getCouriersForthisCustomer/1486

Note: For URL definition please refer section [***1.1 URL Definition***](#_URL_Definition)