**ROI-Parcel Service(Stamps.com) Documentation**

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## Stamps-Shop:

1. Similar to UPS/FedEx, in Stamps, there is GetRates method which retrieves the default successful rate response, and Stamps uses the USPS service to call the rates.
2. The decision factor for rates are,

<sws:PackageType>Large Envelope or Flat</sws:PackageType>

<sws:ServiceType>US-PM</sws:ServiceType>

<sws:ShipDate>2016-04-20</sws:ShipDate>

1. The above three are filters for the rates, if user doesn't know what package & serviceType he/she has to choose, we can request for 'Unknown'. Which in turn responds with all valid availabilities.
2. Relative with UPS/FedEx this is an addition for ShopResponse. However, it has been included in the ParcelService ShopRequest to choose the ServiceType, PackagingType.
3. By default, UPS/FedEx assumes the “shipDate” as “currentDate”, hence in Stamps Shop/Rates request, we are sending the “shipDate” as “currentDate”.
4. Response will be reflected with the number: of days and commitment time for the package to reach the destination postal requested.
5. Stamps responds with the Add-Ons available with the serviceTypes, here we have neglected it in the response, to make it similar with the GenericResponse.
6. Added a possibility where if endUser is not aware of the packageType, we can request for 'All'. Which will in turn responds all the possible Packages supported by the Service irrespective of FedEx, UPS, Stamps.
7. Integrated with the 'aggregation-strategy', written in roi-parcelservice, where shop supports, the three default Carriers [FedEx, UPS, Stamps], RateRequestCode[Least-Cost, Least-Cost-InWindow], where Lease-Cost-InWindow will activate the RateRequestArriveDate [currentDate for example].
8. The request will be processed for currentDate irrespective of the Carriers, and filters and ignores the one which is not requested, hence responds with the genericResponse for requestedDate.

## Stamps-Rates:

1. Is specific for the PackageType, ServiceType in the request. For each Carriers, supported till now, FedEx, UPS, Stamps.
2. Testing on various available ServiceTypes, Packages, concluded with generic Packages, Generic errorCodes.
3. The error codes returned from Stamps, are analysed and Customised to return ParcelServiceErrorCodes from the list.

***List of ErrorCodes eg:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ParcelServiceErrorCodes*** | ***FedEXErrorCodes*** | ***UPSErrorCodes*** | ***StampsErrorCodes*** | ***MessageGeneric*** |
| 101 | 868 | 111209, 111100, 111210 | 004F0101, 00490102 | Service is not allowed for the requested details/ not allowed between the requested locations |
| 102 | 988 |  |  | Requested ServiceType account number and associated address is required |
| 103 | 930 | 111215 |  | ServiceType must be designated as residential delivery |
| 104 | 954 |  |  | SmartPostShipmentDetail missing in the request |
| 105 | 612 |  |  | Weight below minimum requirement |
| 201 | 701 | 111500 |  | Invalid packaging Type |
| 301 |  |  | 1000 | Not Available in TestEnviornment |

## Stamps-CreateShipment (CreateIndicium):

1. In stamps, most importantly, when creating shipment, a certain Postage has to be available in the account, to get that, we have to call the PurchasePostage.
2. Each request depends, on a unique Transaction ID, which is solved by generating from Random-UUID in our service inside a bean.
3. In test, there are two different request parameter for the <SampleOnly> element of Soap.
4. True for generating a valid tracking id, with postage.
5. False for generating label without postage, where the tracking id will be invalid.
6. All the shipments are taken care by requesting one of the USPS services.

## Stamps-VoidShipment(CancelIndicium):

1. Either we can choose the tracking Id to request refund, or the StampsTxId, generated from the CreateIndicium Respknse.
2. Testing with StampsTxId will result in responding a production environment url '[www.stamps.com/refund/](http://www.stamps.com/refund/)' where we have to request for void.
3. Testing with Tracking ID, will be able to request for void successfully.