SF-LWR Extension Framework : FedEx Shipping Integration

Functional Overview

Technical Details

Sequence Diagram

Configuration details

Record - FedEx Shipping Provider(Shipping Provider)

Record - FedEx Shipping Service(HTTP Service)

Source Code

Functional Overview

This document provides details specific to integrating with FedEx.

For common details you can refer to parent doc here.

Technical Details

This integration implementation has two parts :

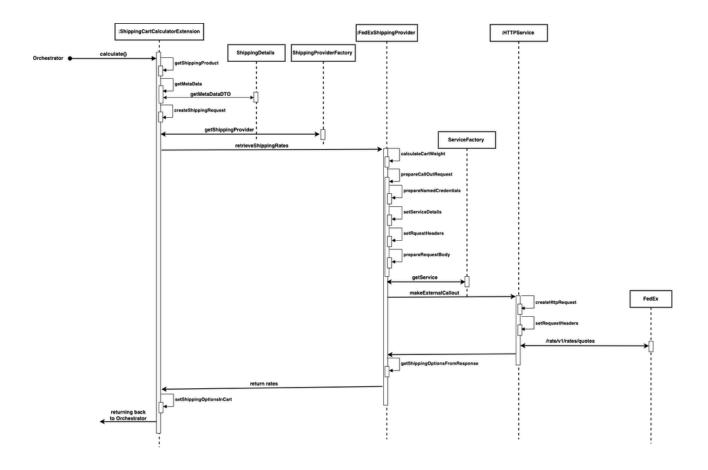
Configuration

- o Custom Meta Data Records
 - FedEx Shipping Provider
 - FedEx Shipping Service
- Named Credentials
 - FedEx Shipping
- External Credentials
 - FedEx Authentication
 - FedExCredentials (Principal)

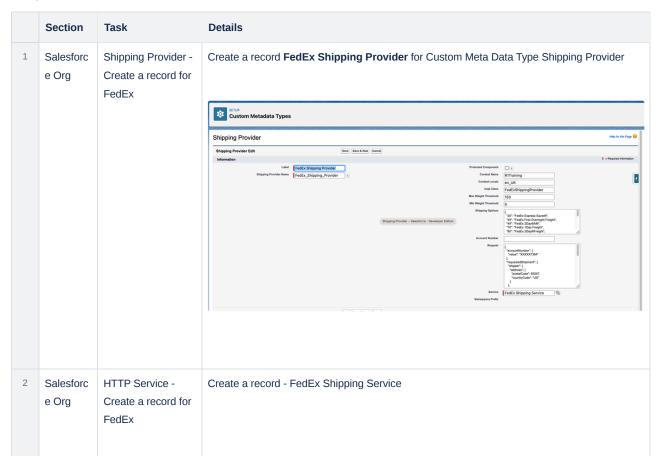
Source Code

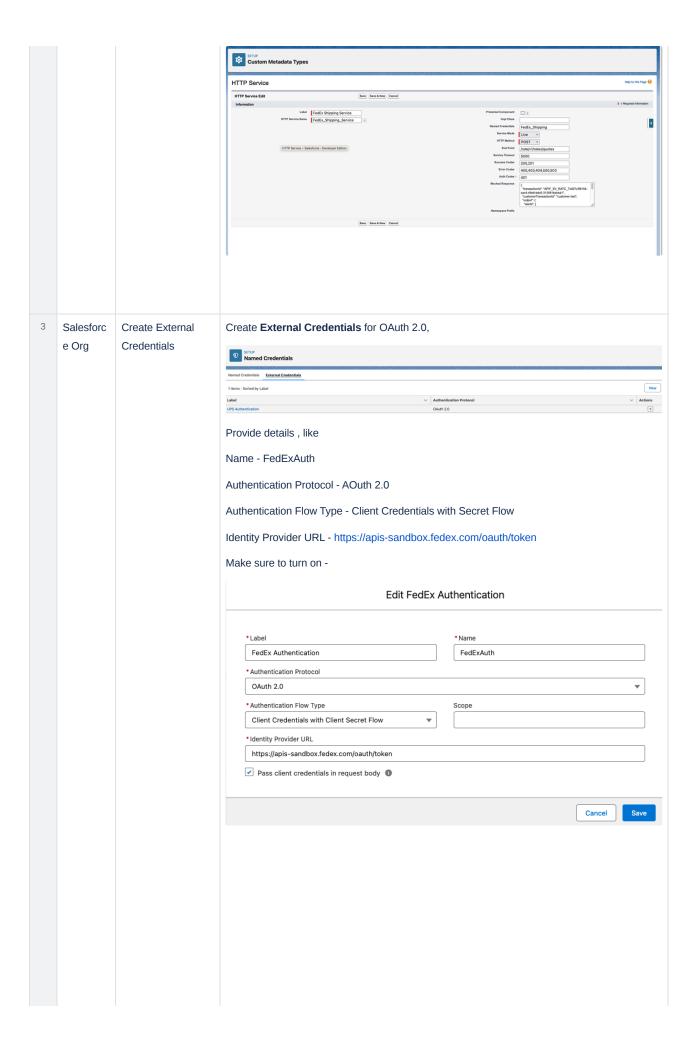
- FedExShippingProvider
- FedExShippingRateRequest
- FedExShippingRateResponse

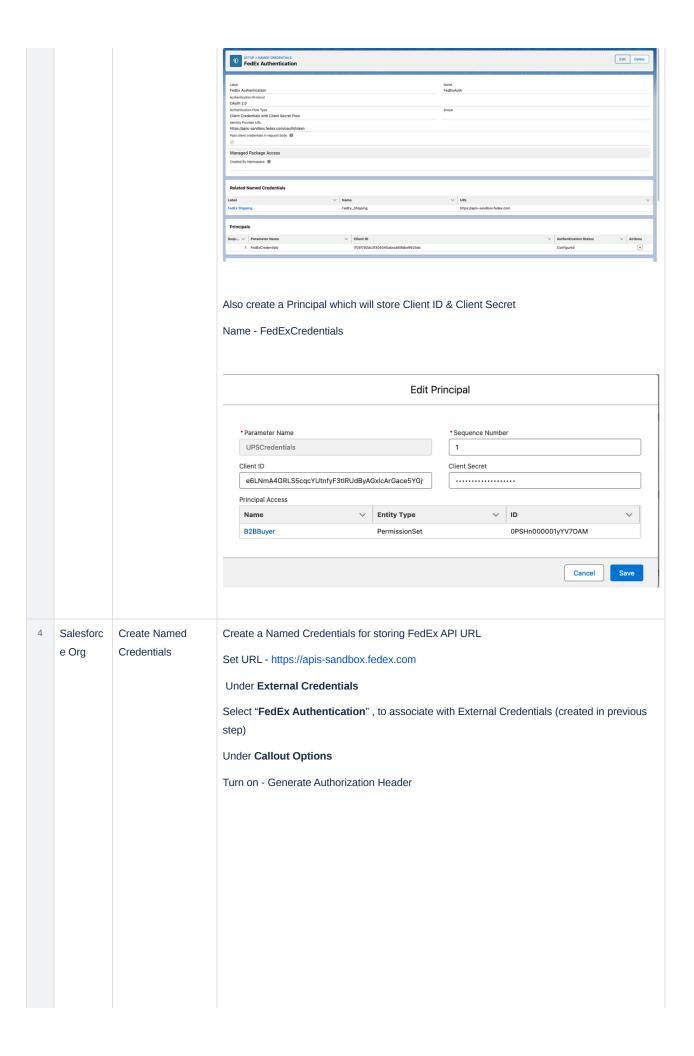
Sequence Diagram

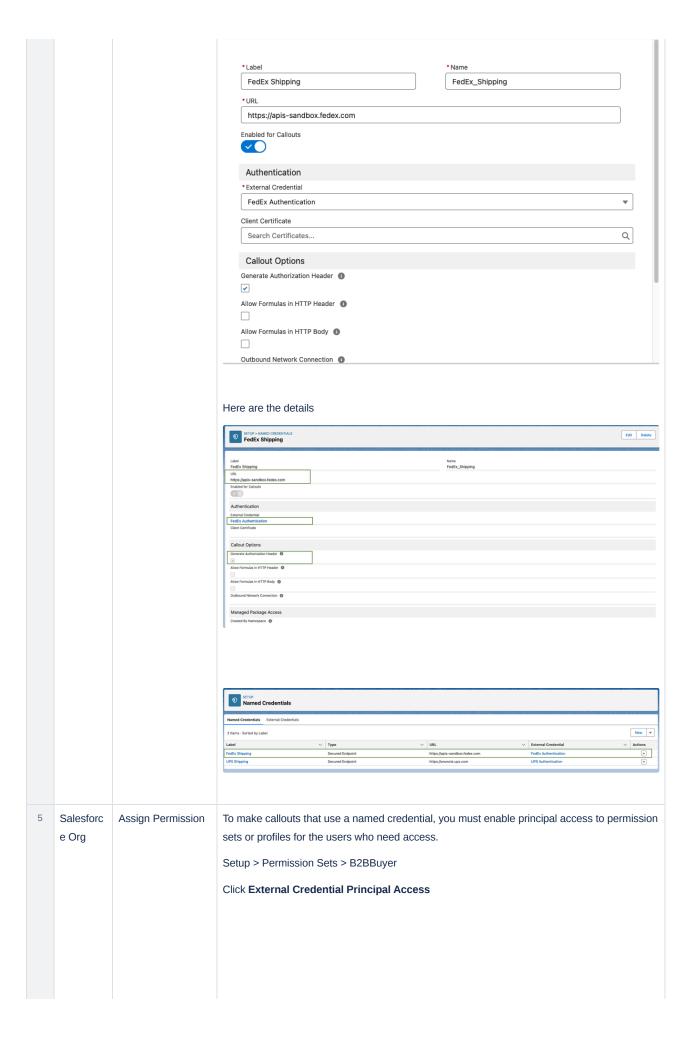


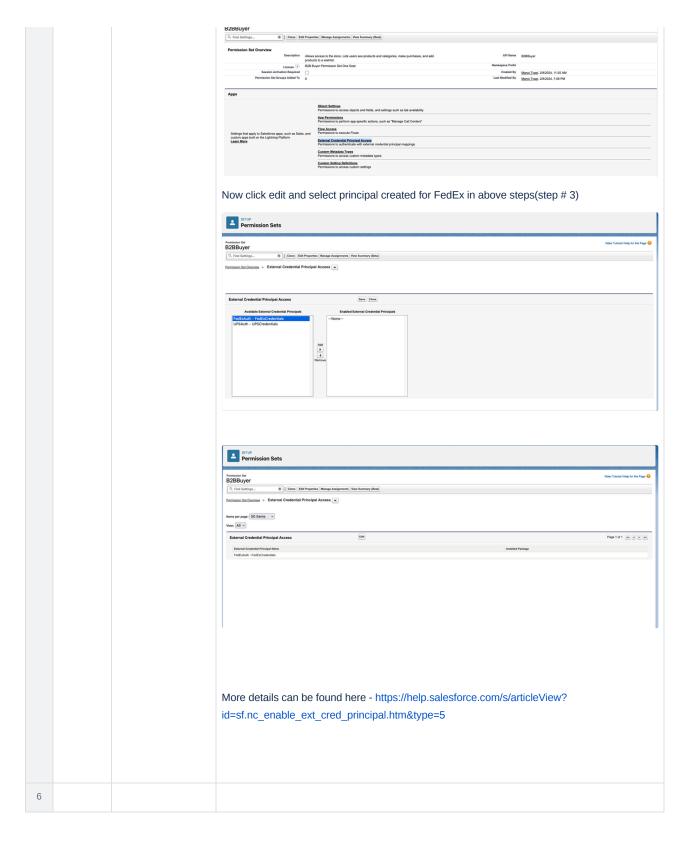
Configuration details











Record - FedEx Shipping Provider (Shipping Provider)

Field Label	Field Value	
Context Name	<webstore name=""> e.g. R1Training</webstore>	
Context Locale	<locale> e.g. en_US</locale>	

```
Impl Class
                                  FedExShippingProvider
Max Weight Threshold
                                  150
Min Weight Threshold
                                  5
Service
                                  FedEx Shipping Service
Account Number
                                  <account number > provider by shipping provider with other credentials
Shipping Options
                                    1 {
                                        "20": "FedEx Express Saver®",
                                    3
                                        "39": "FedEx First Overnight Freight",
                                    4
                                        "49": "FedEx 2Day®AM",
                                        "70": "FedEx 1Day Freight",
                                    5
                                    6 "80": "FedEx 2Day®Freight",
                                        "83": "FedEx 3Day®Freight",
                                    7
                                    8
                                        "90": "FedEx Home Delivery®",
                                    9 "92": "FedEx Ground®",
                                   10 "111": "FedEx Freight®",
                                   "112": "FedEx Freight@Priority",
                                        "113": "FedEx Freight®Economy",
                                   12
                                   "01": "FedEx Priority Overnight®",
                                   14 "03": "FedEx 2Day® ",
                                   "05": "FedEx Standard Overnight®",
                                   16
                                        "06": "FedEx First Overnight®",
                                   "E1": "Extra Hours Priority Overnight",
                                   18 "E5": "Extra Hours Standard Overnight",
                                        "E6": "Extra Hours First Overnight"
                                   19
                                   20 }
Request
                                    1 {
                                        "accountNumber": {
                                    2
                                    3
                                          "value": "XXXXX7364"
                                    4
                                        },
                                    5
                                        "requestedShipment": {
                                          "shipper": {
                                    6
                                    7
                                           "address": {
                                              "postalCode": 65247,
                                    8
                                    9
                                              "countryCode": "US"
                                   10
                                           }
                                   11
                                          },
                                   12
                                         "recipient": {
                                   13
                                          "address": {
                                   14
                                             "postalCode": 75063,
                                   15
                                              "countryCode": "US"
                                   16
                                           }
                                   17
                                           "pickupType": "DROPOFF_AT_FEDEX_LOCATION",
                                   18
                                           "rateRequestType": [
                                   19
                                            "LIST"
                                   20
                                   21
                                   22
                                           "requestedPackageLineItems": [
                                   23
                                           {
                                             "weight": {
                                   24
                                               "units": "LB",
                                   25
                                                "value": 0
                                   26
                                   27
                                              }
                                   28
                                            }
                                   29
                                           ]
```

```
30 }
31 }
```

Record - FedEx Shipping Service(HTTP Service)

```
Field Label
                          Field Value
End Point
                          /api/rating/v1/Shop
HTTP Method
                          GET
                          POST
                          PUT
                          DELETE
                          PATCH
                          HEAD
                          TRACE
Impl Class
                          This is optional so could be left blank
Named Credentials
                          FedEx_Shipping
Service Mode
                          Live
                          Mocked
Timeout
                          5000 (ms)
Success Codes
                          200,201
Error Codes
                          400,403,404,500,503
Auth Codes
                          401
Mocked Response
                             1 {
                                  "transactionId": "APIF\_SV\_RATC\_TxID7c3f6154-cac4-49e8-bdc5-313581bdced1",
                             2
                             3
                                  "customerTransactionId": "customer test",
                             4
                                  "output": {
                             5
                                    "alerts": [
                             6
                                        "code": "VIRTUAL.RESPONSE",
                             7
                                       "message": "This is a Virtual Response.",
                             8
                                        "alertType": "NOTE"
                             9
                            10
                                      },
                            11
                                        "code": "ORIGIN.STATEORPROVINCECODE.CHANGED",
                            12
                                        "message": "The origin state/province code has been changed.",
                            13
                                        "alertType": "NOTE"
                            14
                            15
                                      },
                            16
                            17
                                        "code": "DESTINATION.STATEORPROVINCECODE.CHANGED",
                                        "message": "The destination state/province code has been changed.",
                            18
                                        "alertType": "NOTE"
                            19
                            20
                                     }
                            21
                                    ],
                                    "rateReplyDetails": [
                            22
                            23
                                        "serviceType": "PRIORITY_OVERNIGHT",
                            24
```

```
"serviceName": "FedEx Priority Overnight®",
25
            "packagingType": "YOUR_PACKAGING",
26
            "ratedShipmentDetails": [
27
28
29
                "rateType": "LIST",
30
                "ratedWeightMethod": "ACTUAL",
                "totalDiscounts": 0.0,
31
32
                "totalBaseCharge": 53.23,
                "totalNetCharge": 66.25,
33
                "totalNetFedExCharge": 66.25,
34
35
                "shipmentRateDetail": {
36
                  "rateZone": "02",
                  "dimDivisor": 0,
37
38
                  "fuelSurchargePercent": 14.75,
                  "totalSurcharges": 13.02,
39
                  "totalFreightDiscount": 0.0,
40
                  "surCharges": [
41
42
                      "type": "FUEL",
43
                      "description": "Fuel Surcharge",
44
45
                      "amount": 8.52
46
                    },
47
                      "type": "DELIVERY_AREA",
48
                      "description": "DAS Extended Comm",
49
                      "amount": 4.5
50
51
52
53
                  "pricingCode": "PACKAGE",
                  "totalBillingWeight": {
54
55
                    "units": "LB",
                    "value": 10.0
56
57
                  },
                  "currency": "USD",
58
                  "rateScale": "1486"
59
60
61
                "ratedPackages": [
62
                  {
                    "groupNumber": 0,
63
                    "effectiveNetDiscount": 0.0,
64
65
                    "packageRateDetail": {
                      "rateType": "PAYOR_ACCOUNT_PACKAGE",
66
67
                      "ratedWeightMethod": "ACTUAL",
                      "baseCharge": 53.23,
68
69
                      "netFreight": 53.23,
                      "totalSurcharges": 13.02,
70
                      "netFedExCharge": 66.25,
71
                      "totalTaxes": 0.0,
72
73
                      "netCharge": 66.25,
74
                      "totalRebates": 0.0,
75
                      "billingWeight": {
                        "units": "LB",
76
                        "value": 10.0
77
78
                      "totalFreightDiscounts": 0.0,
79
                      "surcharges": [
80
81
                          "type": "FUEL",
82
                          "description": "Fuel Surcharge",
83
                           "amount": 8.52
84
```

```
85
 86
                           "type": "DELIVERY_AREA",
 87
                           "description": "DAS Extended Comm",
 88
 89
                           "amount": 4.5
 90
                        }
 91
                       ],
                       "currency": "USD"
 92
 93
 94
                  }
 95
                ],
 96
                 "currency": "USD"
 97
98
             ],
             "operationalDetail": {
99
               "ineligibleForMoneyBackGuarantee": false,
100
101
               "astraDescription": "P1",
               "airportId": "TLH",
102
               "serviceCode": "01"
104
             "signatureOptionType": "SERVICE_DEFAULT",
             "serviceDescription": {
106
              "serviceId": "EP1000000002",
               "serviceType": "PRIORITY_OVERNIGHT",
108
               "code": "01",
109
               "names": [
110
                {
                   "type": "long",
112
113
                   "encoding": "utf-8",
                   "value": "FedEx Priority Overnight®"
114
115
                },
116
                   "type": "long",
117
                  "encoding": "ascii",
118
119
                  "value": "FedEx Priority Overnight"
120
121
                 {
                   "type": "medium",
122
                  "encoding": "utf-8",
123
                   "value": "FedEx Priority Overnight®"
124
125
                },
126
127
                  "type": "medium",
                   "encoding": "ascii",
128
129
                   "value": "FedEx Priority Overnight"
130
                 },
131
                   "type": "short",
132
                   "encoding": "utf-8",
133
                   "value": "P-1"
134
135
                 },
136
                   "type": "short",
137
                  "encoding": "ascii",
138
                   "value": "P-1"
139
140
                 },
141
                   "type": "abbrv",
142
                   "encoding": "ascii",
143
                   "value": "P0"
144
```

```
145
146
               ],
               "serviceCategory": "parcel",
147
               "description": "Priority Overnight",
148
149
               "astraDescription": "P1"
150
151
           },
152
             "serviceType": "FEDEX_2_DAY",
153
             "serviceName": "FedEx 2Day®",
154
155
             "packagingType": "YOUR_PACKAGING",
156
             "ratedShipmentDetails": [
157
                  "rateType": "LIST",
158
                 "ratedWeightMethod": "ACTUAL",
159
                 "totalDiscounts": 0.0,
160
161
                 "totalBaseCharge": 30.4,
                 "totalNetCharge": 40.05,
162
163
                 "totalNetFedExCharge": 40.05,
164
                 "shipmentRateDetail": {
                   "rateZone": "02",
                   "dimDivisor": 0,
166
167
                   "fuelSurchargePercent": 14.75,
                   "totalSurcharges": 9.65,
168
                    "totalFreightDiscount": 0.0,
169
                   "surCharges": [
170
171
                        "type": "FUEL",
172
173
                        "description": "Fuel Surcharge",
                       "amount": 5.15
174
175
                     },
176
                        "type": "DELIVERY_AREA",
177
                       "description": "DAS Extended Comm",
178
179
                       "amount": 4.5
180
                     }
181
                   ],
                   "pricingCode": "PACKAGE",
182
                   "totalBillingWeight": {
183
                     "units": "LB",
184
                     "value": 10.0
185
186
                   },
187
                   "currency": "USD",
                   "rateScale": "5980"
188
189
                 },
                 "ratedPackages": [
190
191
                    {
                      "groupNumber": 0,
192
193
                      "effectiveNetDiscount": 0.0,
194
                      "packageRateDetail": {
195
                       "rateType": "PAYOR_ACCOUNT_PACKAGE",
                        "ratedWeightMethod": "ACTUAL",
196
197
                        "baseCharge": 30.4,
198
                       "netFreight": 30.4,
199
                        "totalSurcharges": 9.65,
                        "netFedExCharge": 40.05,
200
201
                        "totalTaxes": 0.0,
202
                        "netCharge": 40.05,
203
                        "totalRebates": 0.0,
204
                        "billingWeight": {
```

```
205
                         "units": "LB",
206
                         "value": 10.0
207
208
                       "totalFreightDiscounts": 0.0,
                       "surcharges": [
209
210
                        {
                           "type": "FUEL",
211
                          "description": "Fuel Surcharge",
212
                          "amount": 5.15
213
214
                        },
215
216
                           "type": "DELIVERY_AREA",
                           "description": "DAS Extended Comm",
217
                          "amount": 4.5
218
219
                        }
220
                       ],
                       "currency": "USD"
221
222
                    }
223
                  }
224
                ],
225
                "currency": "USD"
226
              }
227
            ],
             "operationalDetail": {
228
              "ineligibleForMoneyBackGuarantee": false,
229
              "astraDescription": "E2",
230
231
              "airportId": "TLH",
              "serviceCode": "03"
232
233
             "signatureOptionType": "SERVICE_DEFAULT",
234
235
             "serviceDescription": {
236
              "serviceId": "EP1000000003",
237
               "serviceType": "FEDEX_2_DAY",
238
              "code": "03",
239
               "names": [
240
                {
241
                   "type": "long",
                  "encoding": "utf-8",
242
243
                  "value": "FedEx 2Day®"
244
                },
245
                  "type": "long",
246
247
                  "encoding": "ascii",
                  "value": "FedEx 2Day"
248
249
                },
250
                   "type": "medium",
251
                  "encoding": "utf-8",
252
                  "value": "FedEx 2Day®"
253
254
                },
255
                  "type": "medium",
256
                  "encoding": "ascii",
257
                  "value": "FedEx 2Day"
258
259
                },
260
261
                  "type": "short",
                  "encoding": "utf-8",
262
                  "value": "P-2"
263
264
                },
```

```
265
                   "type": "short",
266
                   "encoding": "ascii",
267
                   "value": "P-2"
268
269
270
                   "type": "abbrv",
271
                   "encoding": "ascii",
272
                   "value": "ES"
273
274
                }
275
276
               "serviceCategory": "parcel",
               "description": "2Day",
277
278
               "astraDescription": "E2"
279
            }
280
           },
281
             "serviceType": "FEDEX_GROUND",
282
283
             "serviceName": "FedEx Ground®",
             "packagingType": "YOUR_PACKAGING",
284
285
             "ratedShipmentDetails": [
286
              {
287
                 "rateType": "LIST",
                 "ratedWeightMethod": "ACTUAL",
288
                 "totalDiscounts": 0.0,
289
                 "totalBaseCharge": 13.51,
290
                 "totalNetCharge": 20.53,
                 "totalNetFedExCharge": 20.53,
292
293
                 "shipmentRateDetail": {
                   "rateZone": "2",
294
                   "dimDivisor": 0,
                   "fuelSurchargePercent": 14.0,
296
                   "totalSurcharges": 7.02,
297
                   "totalFreightDiscount": 0.0,
298
                   "surCharges": [
299
300
301
                       "type": "FUEL",
                       "description": "Fuel Surcharge",
302
                       "level": "PACKAGE",
303
                       "amount": 2.52
304
305
                     },
306
307
                       "type": "DELIVERY_AREA",
                       "description": "DAS Extended Comm",
308
309
                       "level": "PACKAGE",
                       "amount": 4.5
310
311
                     }
312
                   "totalBillingWeight": {
313
314
                    "units": "LB",
315
                     "value": 10.0
316
                   "currency": "USD"
317
318
                 "ratedPackages": [
319
320
321
                     "groupNumber": 0,
                     "effectiveNetDiscount": 0.0,
322
323
                     "packageRateDetail": {
324
                       "rateType": "PAYOR_ACCOUNT_PACKAGE",
```

```
325
                       "ratedWeightMethod": "ACTUAL",
326
                       "baseCharge": 13.51,
                       "netFreight": 13.51,
327
                       "totalSurcharges": 7.02,
328
329
                       "netFedExCharge": 20.53,
330
                       "totalTaxes": 0.0,
331
                       "netCharge": 20.53,
332
                       "totalRebates": 0.0,
                       "billingWeight": {
333
                         "units": "LB",
334
335
                         "value": 10.0
336
                       "totalFreightDiscounts": 0.0,
337
338
                       "surcharges": [
339
                         {
                           "type": "FUEL",
340
                           "description": "Fuel Surcharge",
341
                           "level": "PACKAGE",
342
                           "amount": 2.52
343
344
                         },
345
346
                           "type": "DELIVERY_AREA",
347
                           "description": "DAS Extended Comm",
                           "level": "PACKAGE",
348
                           "amount": 4.5
349
350
                         }
351
                       ],
                       "currency": "USD"
352
353
354
                   }
355
                 ],
                 "currency": "USD"
356
357
               }
358
             ],
             "operationalDetail": {
359
               "ineligibleForMoneyBackGuarantee": false,
360
361
               "astraDescription": "FXG",
               "airportId": "TLH",
362
363
               "serviceCode": "92"
364
             },
             "signatureOptionType": "SERVICE_DEFAULT",
365
             "serviceDescription": {
366
367
               "serviceId": "EP1000000134",
               "serviceType": "FEDEX_GROUND",
368
369
               "code": "92",
               "names": [
370
371
                 {
                   "type": "long",
372
                   "encoding": "utf-8",
373
                   "value": "FedEx Ground®"
374
375
                 },
376
                   "type": "long",
377
                   "encoding": "ascii",
378
                   "value": "FedEx Ground"
379
380
                 },
381
                   "type": "medium",
382
                   "encoding": "utf-8",
383
                   "value": "Ground®"
384
```

```
385
386
               "type": "medium",
387
              "encoding": "ascii",
388
              "value": "Ground"
389
390
             },
391
             {
392
                "type": "short",
              "encoding": "utf-8",
393
              "value": "FG"
394
395
396
              "type": "short",
397
               "encoding": "ascii",
398
               "value": "FG"
399
400
             },
401
402
               "type": "abbrv",
403
              "encoding": "ascii",
404
              "value": "SG"
405
406
           ],
407
           "description": "FedEx Ground",
408
           "astraDescription": "FXG"
       }
409
410
       }
411
      "quoteDate": "2024-02-26",
412
       "encoded": false
413
414 }
415 }
```

Source Code

Class	Details	Code	
FedExShippingPro This class extends			
vider	ShippingProvider class & implements following methods -	1 2 3	<pre>public with sharing class FedExShippingProvider extends Shippin public FedExShippingProvider() {</pre>
		4	public override void prepareRequestBody(
prepareReques	prepareRequestBody	5	ShippingProviderRequest shippingRequest,
	getShippingOptionsFromRe	6	Map <string, string=""> callOutRequest</string,>
	sponse	7) {
		8	FedExShippingRateRequest requestObject = FedExShippingRateR
		9	shippingRequest.shippingMetaData.requestJSON
		10);
		11	if (requestObject != null) {
		12	requestObject.requestedShipment.recipient.address = setSh
		13	shippingRequest
		14);
		15	FedExShippingRateRequest.RequestedPackageLineItems packag
		16	0
		17);
		18	FedExShippingRateRequest.Weight weight = new FedExShippin
		19	<pre>packageLItem.weight.value = shippingRequest.packageWeight</pre>
		20	

```
21
          String strRatingRequestBody = JSON.serialize(requestObjec
22
          callOutRequest.put(Constants.SERVICE_REQUEST_BODY, strRat
23
       }
24
     }
25
26
      public virtual FedExShippingRateRequest.Address setShipToAddr
        ShippingProviderRequest shippingRequest
27
28
        FedExShippingRateRequest.Address address = new FedExShippin
29
        address.postalCode = shippingRequest.postalCode;
30
31
        address.countryCode = shippingRequest.country;
32
        return address;
33
34
      public override Map<String, ShippingProviderResponse> getShip
35
        List<String> responseList,
36
37
        ShippingProviderRequest shippingRequest
38
39
        Map<String, Object> shippingMethods = new Map<String, Objec
40
        Map<String, ShippingProviderResponse> shippingMethodsWithRa
41
          responseList
42
        );
43
        return shippingMethodsWithRate;
44
     }
45
46
      public virtual Map<String, ShippingProviderResponse> parseFed
47
        List<String> lstFedExResponseBody
48
     ) {
49
        Map<String, ShippingProviderResponse> shippingMethodsWithRa
50
        ShippingProviderResponse shippingResponse;
        if (lstFedExResponseBody != null && lstFedExResponseBody.si
51
52
          for (String strFedExResponseBody : lstFedExResponseBody)
            FedExShippingRateResponse fedexShippingRateResponseObj
53
54
              strFedExResponseBody
55
            );
            FedExShippingRateResponse.Output fedexShippingRateRespo
56
57
              FedExShippingRateResponse.RateReplyDetails shipmentOb
58
59
            ) {
60
              Decimal shippingAmount = shipmentObj.ratedShipmentDet
61
                  .totalNetCharge != null
                ? Decimal.valueOf(
62
                    shipmentObj.ratedShipmentDetails[0].totalNetCha
63
64
65
                : 0;
              if (
66
67
                shippingMethodsWithRate.containsKey(
                  \verb|shipmentObj.operationalDetail.serviceCode|\\
68
69
                )
70
              ) {
71
                shippingResponse = shippingMethodsWithRate.get(ship
72
                shippingResponse.cost = shippingResponse.cost + shi
73
              } else {
74
                 shippingResponse = new ShippingProviderResponse();
75
                 shippingResponse.serviceCode = shipmentObj.operati
76
                 shippingResponse.cost = shippingAmount
77
                shippingMethodsWithRate.put(
                  shipmentObj.operationalDetail.serviceCode,
78
79
                  shippingResponse
80
                );
```

FedExShippingRat eRequest

This class is a DTO used to prepare FedEx Shipping rate request which is posted to FedEx to get shipping details

```
public class FedExShippingRateRequest {
 2
      public AccountNumber accountNumber;
 3
      public RequestedShipment requestedShipment;
 4
 5
      public class Address {
 6
        public String postalCode;
 7
        public String countryCode;
8
      }
9
10
      public class Shipper {
11
        public Address address;
12
13
14
      public class RequestedPackageLineItems {
        public Weight weight;
15
16
      }
17
18
      public class RequestedShipment {
19
        public Shipper shipper;
        public Shipper recipient;
20
        public String pickupType;
21
22
        public List<String> rateRequestType;
23
        public List<RequestedPackageLineItems> requestedPackageLine
24
      }
25
26
      public class Weight {
27
        public String units;
        public Decimal value;
28
29
30
31
      public class AccountNumber {
32
        public String value;
33
34
35
      public static FedExShippingRateRequest parse(String json) {
36
        return (FedExShippingRateRequest) System.JSON.deserialize(
37
          json,
38
          {\tt FedExShippingRateRequest.class}
39
        );
40
41
   }
42
43
```

FedExShippingRat eResponse

This class is a DTO used to parse shipping rate response returned by FedEx

```
public class FedExShippingRateResponse {
public class ShipmentRateDetail_Z {
public String rateZone { get; set; }
public Integer dimDivisor { get; set; }
```

```
5
        public Double fuelSurchargePercent { get; set; }
 6
        public Double totalSurcharges { get; set; }
 7
        public Double totalFreightDiscount { get; set; }
 8
        public List<SurCharges_Z> surCharges { get; set; }
 9
        public TotalBillingWeight totalBillingWeight { get; set; }
        public String currency_Z { get; set; } // in json: currenc
10
11
12
        public ShipmentRateDetail_Z(JSONParser parser) {
13
          while (parser.nextToken() != System.JSONToken.END_OBJECT
            if (parser.getCurrentToken() == System.JSONToken.FIELD
14
15
              String text = parser.getText();
              if (parser.nextToken() != System.JSONToken.VALUE_NUL
16
                if (text == 'rateZone') {
17
                  rateZone = parser.getText();
18
19
                } else if (text == 'dimDivisor') {
20
                  dimDivisor = parser.getIntegerValue();
21
                } else if (text == 'fuelSurchargePercent') {
                  fuelSurchargePercent = parser.getDoubleValue();
22
                } else if (text == 'totalSurcharges') {
23
24
                  totalSurcharges = parser.getDoubleValue();
                } else if (text == 'totalFreightDiscount') {
25
26
                  totalFreightDiscount = parser.getDoubleValue();
                } else if (text == 'surCharges') {
27
                  surCharges = arrayOfSurCharges_Z(parser);
28
                } else if (text == 'totalBillingWeight') {
29
                  totalBillingWeight = new TotalBillingWeight(pars
30
                } else if (text == 'currency') {
31
                  currency_Z = parser.getText();
32
33
                } else {
                  System.debug(
35
                    LoggingLevel.WARN,
                    'ShipmentRateDetail_Z consuming unrecognized p
36
37
                  );
38
                  consumeObject(parser);
39
                }
40
41
42
          }
43
        }
44
45
46
      public class RatedPackages_Z {
47
        public Integer groupNumber { get; set; }
48
        public Double effectiveNetDiscount { get; set; }
49
        public PackageRateDetail_Z packageRateDetail { get; set; }
50
51
        public RatedPackages_Z(JSONParser parser) {
          while (parser.nextToken() != System.JSONToken.END_OBJECT
52
            if (parser.getCurrentToken() == System.JSONToken.FIELD
53
54
              String text = parser.getText();
              if (parser.nextToken() != System.JSONToken.VALUE_NUL
55
56
                if (text == 'groupNumber') {
57
                  groupNumber = parser.getIntegerValue();
                } else if (text == 'effectiveNetDiscount') {
58
                  effectiveNetDiscount = parser.getDoubleValue();
59
60
                } else if (text == 'packageRateDetail') {
                  packageRateDetail = new PackageRateDetail_Z(pars
61
62
                } else {
63
                  System.debug(
64
                    LoggingLevel.WARN,
```

```
65
                      'RatedPackages_Z consuming unrecognized proper
66
                   );
67
                   consumeObject(parser);
68
                 }
 69
 70
 71
           }
 72
         }
 73
 74
 75
       public String transactionId { get; set; }
 76
       public String customerTransactionId { get; set; }
 77
       public Output output { get; set; }
 78
 79
       public FedExShippingRateResponse(JSONParser parser) {
80
         while (parser.nextToken() != System.JSONToken.END_OBJECT)
81
           if (parser.getCurrentToken() == System.JSONToken.FIELD_N
             String text = parser.getText();
82
 83
             if (parser.nextToken() != System.JSONToken.VALUE_NULL)
               if (text == 'transactionId') {
84
                 transactionId = parser.getText();
85
86
               } else if (text == 'customerTransactionId') {
                 customerTransactionId = parser.getText();
 87
               } else if (text == 'output') {
88
                 output = new Output(parser);
 89
               } else {
90
 91
                 System.debug(
                   LoggingLevel.WARN,
92
                   'FedExShippingRateResponse consuming unrecognize
93
                   text
94
 95
                 );
                 consumeObject(parser);
96
97
98
             }
99
           }
100
101
102
103
       public class ServiceDescription_Z {
         public String serviceId { get; set; }
104
105
         public String serviceType { get; set; }
106
         public String code { get; set; }
107
         public List<Names> names { get; set; }
108
         public String description { get; set; }
109
         public String astraDescription { get; set; }
110
         public ServiceDescription_Z(JSONParser parser) {
111
           while (parser.nextToken() != System.JSONToken.END_OBJECT
112
             if (parser.getCurrentToken() == System.JSONToken.FIELD
113
114
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
115
116
                 if (text == 'serviceId') {
117
                   serviceId = parser.getText();
118
                 } else if (text == 'serviceType') {
                   serviceType = parser.getText();
119
120
                 } else if (text == 'code') {
121
                   code = parser.getText();
122
                 } else if (text == 'names') {
123
                   names = arrayOfNames(parser);
124
                 } else if (text == 'description') {
```

```
125
                   description = parser.getText();
                 } else if (text == 'astraDescription') {
126
127
                   astraDescription = parser.getText();
128
                 } else {
129
                   System.debug(
130
                     LoggingLevel.WARN,
131
                     'ServiceDescription_Z consuming unrecognized p
132
                   );
133
                   consumeObject(parser);
134
                 }
135
               }
136
             }
137
138
         }
139
       }
140
141
       public class ServiceDescription {
         public String serviceId { get; set; }
142
143
         public String serviceType { get; set; }
144
         public String code { get; set; }
         public List<Names> names { get; set; }
145
146
         public String serviceCategory { get; set; }
147
         public String description { get; set; }
148
         public String astraDescription { get; set; }
149
150
         public ServiceDescription(JSONParser parser) {
           while (parser.nextToken() != System.JSONToken.END_OBJECT
151
152
             if (parser.getCurrentToken() == System.JSONToken.FIELD
               String text = parser.getText();
153
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
154
                 if (text == 'serviceId') {
155
                   serviceId = parser.getText();
156
157
                 } else if (text == 'serviceType') {
158
                   serviceType = parser.getText();
159
                 } else if (text == 'code') {
160
                   code = parser.getText();
161
                 } else if (text == 'names') {
                   names = arrayOfNames(parser);
162
                 } else if (text == 'serviceCategory') {
163
                   serviceCategory = parser.getText();
164
                 } else if (text == 'description') {
165
166
                   description = parser.getText();
                 } else if (text == 'astraDescription') {
167
168
                   astraDescription = parser.getText();
169
                 } else {
170
                   System.debug(
171
                     LoggingLevel.WARN,
172
                     'ServiceDescription consuming unrecognized pro
173
                   );
174
                   consumeObject(parser);
175
                 }
176
177
178
179
         }
180
181
182
       public class PackageRateDetail_Z {
183
         public String rateType { get; set; }
184
         public String ratedWeightMethod { get; set; }
```

```
185
         public Double baseCharge { get; set; }
186
         public Double netFreight { get; set; }
187
         public Double totalSurcharges { get; set; }
         public Double netFedExCharge { get; set; }
188
189
         public Double totalTaxes { get; set; }
190
         public Double netCharge { get; set; }
191
         public Double totalRebates { get; set; }
192
         public TotalBillingWeight billingWeight { get; set; }
193
         public Double totalFreightDiscounts { get; set; }
         public List<SurCharges_Z> surcharges { get; set; }
194
195
         public String currency_Z { get; set; } // in json: currenc
196
197
         public PackageRateDetail_Z(JSONParser parser) {
           while (parser.nextToken() != System.JSONToken.END_OBJECT
198
199
             if (parser.getCurrentToken() == System.JSONToken.FIELD
200
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
201
                 if (text == 'rateType') {
202
                   rateType = parser.getText();
203
                 } else if (text == 'ratedWeightMethod') {
204
205
                   ratedWeightMethod = parser.getText();
206
                 } else if (text == 'baseCharge') {
                   baseCharge = parser.getDoubleValue();
207
                 } else if (text == 'netFreight') {
208
                   netFreight = parser.getDoubleValue();
209
210
                 } else if (text == 'totalSurcharges') {
211
                   totalSurcharges = parser.getDoubleValue();
212
                 } else if (text == 'netFedExCharge') {
213
                   netFedExCharge = parser.getDoubleValue();
                 } else if (text == 'totalTaxes') {
214
215
                   totalTaxes = parser.getDoubleValue();
                 } else if (text == 'netCharge') {
216
217
                   netCharge = parser.getDoubleValue();
                 } else if (text == 'totalRebates') {
218
219
                   totalRebates = parser.getDoubleValue();
                 } else if (text == 'billingWeight') {
220
221
                   billingWeight = new TotalBillingWeight(parser);
                 } else if (text == 'totalFreightDiscounts') {
222
223
                   totalFreightDiscounts = parser.getDoubleValue();
                 } else if (text == 'surcharges') {
224
225
                   surcharges = arrayOfSurCharges_Z(parser);
226
                 } else if (text == 'currency') {
227
                   currency_Z = parser.getText();
228
                 } else {
229
                   System.debug(
230
                     LoggingLevel.WARN,
231
                     'PackageRateDetail_Z consuming unrecognized pr
232
233
                   consumeObject(parser);
234
                 }
235
236
237
           }
238
239
       }
240
241
       public class OperationalDetail {
242
         public Boolean ineligibleForMoneyBackGuarantee { get; set;
243
         public String astraDescription { get; set; }
244
         public String airportId { get; set; }
```

```
245
         public String serviceCode { get; set; }
246
247
         public OperationalDetail(JSONParser parser) {
248
           while (parser.nextToken() != System.JSONToken.END_OBJECT
249
             if (parser.getCurrentToken() == System.JSONToken.FIELD
               String text = parser.getText();
250
251
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
252
                 if (text == 'ineligibleForMoneyBackGuarantee') {
253
                   ineligibleForMoneyBackGuarantee = parser.getBool
254
                 } else if (text == 'astraDescription') {
255
                   astraDescription = parser.getText();
                 } else if (text == 'airportId') {
256
257
                   airportId = parser.getText();
                 } else if (text == 'serviceCode') {
258
259
                   serviceCode = parser.getText();
260
                 } else {
261
                   System.debug(
                     LoggingLevel.WARN,
262
                     'OperationalDetail consuming unrecognized prop
263
264
                   );
                   consumeObject(parser);
265
266
                 }
267
               }
268
             }
269
270
         }
271
272
       public class RatedPackages {
273
         public Integer groupNumber { get; set; }
274
         public Double effectiveNetDiscount { get; set; }
275
276
         public PackageRateDetail packageRateDetail { get; set; }
277
         public RatedPackages(JSONParser parser) {
278
           while (parser.nextToken() != System.JSONToken.END_OBJECT
279
             if (parser.getCurrentToken() == System.JSONToken.FIELD
280
281
               String text = parser.getText();
282
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
283
                 if (text == 'groupNumber') {
                   groupNumber = parser.getIntegerValue();
284
285
                 } else if (text == 'effectiveNetDiscount') {
286
                   effectiveNetDiscount = parser.getDoubleValue();
                 } else if (text == 'packageRateDetail') {
287
288
                   packageRateDetail = new PackageRateDetail(parser
289
                 } else {
290
                   System.debug(
291
                     LoggingLevel.WARN,
292
                     'RatedPackages consuming unrecognized property
293
                   );
294
                   consumeObject(parser);
295
                 }
296
297
298
299
         }
300
301
302
       public class RatedShipmentDetails {
303
         public String rateType { get; set; }
304
         public String ratedWeightMethod { get; set; }
```

```
305
         public Double totalDiscounts { get; set; }
306
         public Double totalBaseCharge { get; set; }
307
         public Double totalNetCharge { get; set; }
308
         public Double totalNetFedExCharge { get; set; }
309
         public ShipmentRateDetail shipmentRateDetail { get; set; }
         public List<RatedPackages> ratedPackages { get; set; }
310
311
         public String currency_Z { get; set; } // in json: currenc
312
313
         public RatedShipmentDetails(JSONParser parser) {
314
           while (parser.nextToken() != System.JSONToken.END_OBJECT
315
             if (parser.getCurrentToken() == System.JSONToken.FIELD
316
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
317
                 if (text == 'rateType') {
318
319
                   rateType = parser.getText();
320
                 } else if (text == 'ratedWeightMethod') {
321
                   ratedWeightMethod = parser.getText();
                 } else if (text == 'totalDiscounts') {
322
                   totalDiscounts = parser.getDoubleValue();
323
                 } else if (text == 'totalBaseCharge') {
324
325
                   totalBaseCharge = parser.getDoubleValue();
326
                 } else if (text == 'totalNetCharge') {
                   totalNetCharge = parser.getDoubleValue();
327
                 } else if (text == 'totalNetFedExCharge') {
328
                   totalNetFedExCharge = parser.getDoubleValue();
329
330
                 } else if (text == 'shipmentRateDetail') {
                   shipmentRateDetail = new ShipmentRateDetail(pars
331
                 } else if (text == 'ratedPackages') {
332
                   ratedPackages = arrayOfRatedPackages(parser);
333
                 } else if (text == 'currency') {
334
335
                   currency_Z = parser.getText();
336
                 } else {
337
                   System.debug(
338
                     LoggingLevel.WARN,
339
                     'RatedShipmentDetails consuming unrecognized p
340
                   );
341
                   consumeObject(parser);
342
                 }
343
               }
             }
344
345
           }
346
         }
347
       }
348
349
       public class RatedShipmentDetails_Z {
350
         public String rateType { get; set; }
351
         public String ratedWeightMethod { get; set; }
352
         public Double totalDiscounts { get; set; }
         public Double totalBaseCharge { get; set; }
353
354
         public Double totalNetCharge { get; set; }
         public Double totalNetFedExCharge { get; set; }
355
356
         public ShipmentRateDetail_Z shipmentRateDetail { get; set;
         public List<RatedPackages_Z> ratedPackages { get; set; }
357
         public String currency_Z { get; set; } // in json: currenc
358
359
360
         public RatedShipmentDetails_Z(JSONParser parser) {
           while (parser.nextToken() != System.JSONToken.END_OBJECT
361
362
             if (parser.getCurrentToken() == System.JSONToken.FIELD
363
               String text = parser.getText();
364
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
```

```
if (text == 'rateType') {
365
366
                   rateType = parser.getText();
367
                 } else if (text == 'ratedWeightMethod') {
368
                   ratedWeightMethod = parser.getText();
369
                 } else if (text == 'totalDiscounts') {
370
                   totalDiscounts = parser.getDoubleValue();
                 } else if (text == 'totalBaseCharge') {
371
372
                   totalBaseCharge = parser.getDoubleValue();
373
                 } else if (text == 'totalNetCharge') {
374
                   totalNetCharge = parser.getDoubleValue();
375
                 } else if (text == 'totalNetFedExCharge') {
376
                   totalNetFedExCharge = parser.getDoubleValue();
377
                 } else if (text == 'shipmentRateDetail') {
                   shipmentRateDetail = new ShipmentRateDetail_Z(pa
378
379
                 } else if (text == 'ratedPackages') {
380
                   ratedPackages = arrayOfRatedPackages_Z(parser);
381
                 } else if (text == 'currency') {
                   currency_Z = parser.getText();
383
                 } else {
384
                   System.debug(
                     LoggingLevel.WARN,
385
386
                     'RatedShipmentDetails_Z consuming unrecognized
387
388
                   );
389
                   consumeObject(parser);
390
                 }
391
               }
392
             }
393
394
395
       }
396
397
       public class SurCharges {
         public String type { get; set; }
398
399
         public String description { get; set; }
         public Double amount { get; set; }
400
401
402
         public SurCharges(JSONParser parser) {
           while (parser.nextToken() != System.JSONToken.END_OBJECT
403
             if (parser.getCurrentToken() == System.JSONToken.FIELD
404
405
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
406
                 if (text == 'type') {
407
408
                   type = parser.getText();
409
                 } else if (text == 'description') {
410
                   description = parser.getText();
411
                 } else if (text == 'amount') {
                   amount = parser.getDoubleValue();
412
413
                 } else {
414
                   System.debug(
415
                     LoggingLevel.WARN,
416
                     'SurCharges consuming unrecognized property: '
417
                   );
418
                   consumeObject(parser);
419
                 }
420
               }
421
             }
422
           }
423
         }
424
       }
```

```
425
       public class Names {
426
427
         public String type { get; set; }
428
         public String encoding { get; set; }
429
         public String value { get; set; }
430
431
         public Names(JSONParser parser) {
432
           while (parser.nextToken() != System.JSONToken.END_OBJECT
433
             if (parser.getCurrentToken() == System.JSONToken.FIELD
434
               String text = parser.getText();
435
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
                 if (text == 'type') {
436
437
                   type = parser.getText();
                 } else if (text == 'encoding') {
438
439
                   encoding = parser.getText();
440
                 } else if (text == 'value') {
441
                   value = parser.getText();
442
                 } else {
443
                   System.debug(
                     LoggingLevel.WARN,
444
445
                      'Names consuming unrecognized property: ' + te
446
                   );
447
                   consumeObject(parser);
448
                 }
449
               }
450
             }
451
452
453
454
455
       public class ShipmentRateDetail {
         public String rateZone { get; set; }
456
457
         public Integer dimDivisor { get; set; }
         public Double fuelSurchargePercent { get; set; }
458
459
         public Double totalSurcharges { get; set; }
         public Double totalFreightDiscount { get; set; }
460
461
         public List<SurCharges> surCharges { get; set; }
462
         public String pricingCode { get; set; }
463
         public TotalBillingWeight totalBillingWeight { get; set; }
         public String currency_Z { get; set; } // in json: currenc
464
465
         public String rateScale { get; set; }
466
         public ShipmentRateDetail(JSONParser parser) {
467
468
           while (parser.nextToken() != System.JSONToken.END_OBJECT
469
             if (parser.getCurrentToken() == System.JSONToken.FIELD
470
               String text = parser.getText();
471
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
                 if (text == 'rateZone') {
472
                   rateZone = parser.getText();
473
474
                 } else if (text == 'dimDivisor') {
475
                   dimDivisor = parser.getIntegerValue();
476
                 } else if (text == 'fuelSurchargePercent') {
477
                   fuelSurchargePercent = parser.getDoubleValue();
478
                 } else if (text == 'totalSurcharges') {
                   totalSurcharges = parser.getDoubleValue();
479
480
                 } else if (text == 'totalFreightDiscount') {
                   totalFreightDiscount = parser.getDoubleValue();
481
482
                 } else if (text == 'surCharges') {
                   surCharges = arrayOfSurCharges(parser);
483
484
                 } else if (text == 'pricingCode') {
```

```
485
                   pricingCode = parser.getText();
486
                 } else if (text == 'totalBillingWeight') {
487
                   totalBillingWeight = new TotalBillingWeight(pars
488
                 } else if (text == 'currency') {
489
                   currency_Z = parser.getText();
490
                 } else if (text == 'rateScale') {
491
                   rateScale = parser.getText();
492
                 } else {
493
                   System.debug(
494
                     LoggingLevel.WARN,
495
                     'ShipmentRateDetail consuming unrecognized pro
496
                   );
497
                   consumeObject(parser);
498
                 }
499
               }
500
             }
501
502
         }
503
       }
504
505
       public class PackageRateDetail {
506
         public String rateType { get; set; }
         public String ratedWeightMethod { get; set; }
507
508
         public Double baseCharge { get; set; }
         public Double netFreight { get; set; }
509
         public Double totalSurcharges { get; set; }
510
511
         public Double netFedExCharge { get; set; }
512
         public Double totalTaxes { get; set; }
513
         public Double netCharge { get; set; }
         public Double totalRebates { get; set; }
514
515
         public TotalBillingWeight billingWeight { get; set; }
         public Double totalFreightDiscounts { get; set; }
516
517
         public List<SurCharges> surcharges { get; set; }
         public String currency_Z { get; set; } // in json: currenc
518
519
         public PackageRateDetail(JSONParser parser) {
520
521
           while (parser.nextToken() != System.JSONToken.END_OBJECT
522
             if (parser.getCurrentToken() == System.JSONToken.FIELD
523
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
524
                 if (text == 'rateType') {
525
526
                   rateType = parser.getText();
                 } else if (text == 'ratedWeightMethod') {
527
528
                   ratedWeightMethod = parser.getText();
529
                 } else if (text == 'baseCharge') {
530
                   baseCharge = parser.getDoubleValue();
                 } else if (text == 'netFreight') {
531
532
                   netFreight = parser.getDoubleValue();
                 } else if (text == 'totalSurcharges') {
533
534
                   totalSurcharges = parser.getDoubleValue();
                 } else if (text == 'netFedExCharge') {
535
536
                   netFedExCharge = parser.getDoubleValue();
537
                 } else if (text == 'totalTaxes') {
                   totalTaxes = parser.getDoubleValue();
538
                 } else if (text == 'netCharge') {
539
540
                   netCharge = parser.getDoubleValue();
                 } else if (text == 'totalRebates') {
541
542
                   totalRebates = parser.getDoubleValue();
                 } else if (text == 'billingWeight') {
543
544
                   billingWeight = new TotalBillingWeight(parser);
```

```
} else if (text == 'totalFreightDiscounts') {
545
                   totalFreightDiscounts = parser.getDoubleValue();
546
547
                 } else if (text == 'surcharges') {
548
                   surcharges = arrayOfSurCharges(parser);
549
                 } else if (text == 'currency') {
                   currency_Z = parser.getText();
550
551
                 } else {
                   System.debug(
552
553
                     LoggingLevel.WARN,
554
                     'PackageRateDetail consuming unrecognized prop
555
                   consumeObject(parser);
556
557
558
               }
559
             }
560
           }
561
562
       }
563
       public class RateReplyDetails {
564
         public String serviceType { get; set; }
565
566
         public String serviceName { get; set; }
         public String packagingType { get; set; }
567
         public List<RatedShipmentDetails> ratedShipmentDetails { g
568
         public OperationalDetail operationalDetail { get; set; }
569
570
         public String signatureOptionType { get; set; }
         public ServiceDescription serviceDescription { get; set; }
571
572
573
         public RateReplyDetails(JSONParser parser) {
574
           while (parser.nextToken() != System.JSONToken.END_OBJECT
             if (parser.getCurrentToken() == System.JSONToken.FIELD
575
576
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
577
                 if (text == 'serviceType') {
578
579
                   serviceType = parser.getText();
                 } else if (text == 'serviceName') {
580
581
                   serviceName = parser.getText();
582
                 } else if (text == 'packagingType') {
583
                   packagingType = parser.getText();
584
                 } else if (text == 'ratedShipmentDetails') {
585
                   ratedShipmentDetails = arrayOfRatedShipmentDetai
                 } else if (text == 'operationalDetail') {
586
                   operationalDetail = new OperationalDetail(parser
587
588
                 } else if (text == 'signatureOptionType') {
589
                   signatureOptionType = parser.getText();
590
                 } else if (text == 'serviceDescription') {
591
                   serviceDescription = new ServiceDescription(pars
592
                 } else {
593
                   System.debug(
594
                     LoggingLevel.WARN,
595
                     'RateReplyDetails consuming unrecognized prope
596
597
                   consumeObject(parser);
598
                 }
599
               }
600
             }
601
           }
602
         }
       }
603
604
```

```
605
       public class TotalBillingWeight {
606
         public String units { get; set; }
607
         public Double value { get; set; }
608
609
         public TotalBillingWeight(JSONParser parser) {
           while (parser.nextToken() != System.JSONToken.END_OBJECT
610
             if (parser.getCurrentToken() == System.JSONToken.FIELD
611
612
               String text = parser.getText();
613
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
614
                 if (text == 'units') {
615
                   units = parser.getText();
616
                 } else if (text == 'value') {
617
                   value = parser.getDoubleValue();
618
                 } else {
619
                   System.debug(
620
                     LoggingLevel.WARN,
621
                     'TotalBillingWeight consuming unrecognized pro
622
                   );
623
                   consumeObject(parser);
624
                 }
625
626
             }
627
           }
628
         }
629
630
       public class Output {
631
632
         public List<Alerts> alerts { get; set; }
633
         public List<RateReplyDetails> rateReplyDetails { get; set;
634
         public String quoteDate { get; set; }
         public Boolean encoded { get; set; }
635
636
637
         public Output(JSONParser parser) {
638
           while (parser.nextToken() != System.JSONToken.END_OBJECT
             if (parser.getCurrentToken() == System.JSONToken.FIELD
639
               String text = parser.getText();
640
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
641
642
                 if (text == 'alerts') {
643
                   alerts = arrayOfAlerts(parser);
644
                 } else if (text == 'rateReplyDetails') {
645
                   rateReplyDetails = arrayOfRateReplyDetails(parse
646
                 } else if (text == 'quoteDate') {
                   quoteDate = parser.getText();
647
648
                 } else if (text == 'encoded') {
649
                   encoded = parser.getBooleanValue();
650
                 } else {
651
                   System.debug(
652
                     LoggingLevel.WARN,
                      'Output consuming unrecognized property: ' + t
653
654
655
                   consumeObject(parser);
656
657
               }
658
             }
659
           }
660
661
       }
662
663
       public class Alerts {
664
         public String code { get; set; }
```

```
public String message { get; set; }
665
666
         public String alertType { get; set; }
667
668
         public Alerts(JSONParser parser) {
669
           while (parser.nextToken() != System.JSONToken.END_OBJECT
670
             if (parser.getCurrentToken() == System.JSONToken.FIELD
671
               String text = parser.getText();
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
672
673
                 if (text == 'code') {
674
                   code = parser.getText();
675
                 } else if (text == 'message') {
676
                   message = parser.getText();
677
                 } else if (text == 'alertType') {
                   alertType = parser.getText();
678
679
                 } else {
680
                   System.debug(
681
                     LoggingLevel.WARN,
                     'Alerts consuming unrecognized property: ' + t
682
683
684
                   consumeObject(parser);
685
686
               }
687
             }
688
           }
689
         }
690
       }
691
692
       public class SurCharges_Z {
693
         public String type { get; set; }
694
         public String description { get; set; }
         public String level { get; set; }
695
         public Double amount { get; set; }
696
697
         public SurCharges_Z(JSONParser parser) {
698
           while (parser.nextToken() != System.JSONToken.END_OBJECT
699
             if (parser.getCurrentToken() == System.JSONToken.FIELD
700
               String text = parser.getText();
701
702
               if (parser.nextToken() != System.JSONToken.VALUE_NUL
703
                 if (text == 'type') {
                   type = parser.getText();
705
                 } else if (text == 'description') {
706
                   description = parser.getText();
                 } else if (text == 'level') {
707
708
                   level = parser.getText();
709
                 } else if (text == 'amount') {
710
                   amount = parser.getDoubleValue();
711
                 } else {
712
                   System.debug(
713
                     LoggingLevel.WARN,
714
                     'SurCharges_Z consuming unrecognized property:
715
                   );
716
                   consumeObject(parser);
717
718
               }
719
             }
720
721
         }
722
       }
723
724
       public static FedExShippingRateResponse parse(String json) {
```

```
System.JSONParser parser = System.JSON.createParser(json);
725
726
         return new FedExShippingRateResponse(parser);
727
      }
728
729
      public static void consumeObject(System.JSONParser parser) {
730
         Integer depth = 0;
731
         do {
732
           System.JSONToken curr = parser.getCurrentToken();
733
734
            curr == System.JSONToken.START_OBJECT ||
735
            curr == System.JSONToken.START_ARRAY
736
           ) {
737
            depth++;
738
          } else if (
739
           curr == System.JSONToken.END_OBJECT ||
740
            curr == System.JSONToken.END_ARRAY
741
          ) {
742
            depth--;
743
744
        } while (depth > 0 && parser.nextToken() != null);
745
746
747
      private static List<Alerts> arrayOfAlerts(System.JSONParser
        List<Alerts> res = new List<Alerts>();
748
749
         if (p.getCurrentToken() == null)
750
           p.nextToken();
751
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
752
           res.add(new Alerts(p));
753
        }
754
        return res;
755
      }
756
      private static List<RatedPackages_Z> arrayOfRatedPackages_Z(
757
        System.JSONParser p
758
759
      ) {
        List<RatedPackages_Z> res = new List<RatedPackages_Z>();
760
        if (p.getCurrentToken() == null)
761
762
           p.nextToken();
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
763
           res.add(new RatedPackages_Z(p));
764
765
        }
766
         return res;
767
768
769
      private static List<SurCharges> arrayOfSurCharges(System.JS0
770
         List<SurCharges> res = new List<SurCharges>();
771
        if (p.getCurrentToken() == null)
772
           p.nextToken();
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
773
774
           res.add(new SurCharges(p));
775
        }
776
         return res;
777
      }
778
779
      private static List<RatedShipmentDetails_Z> arrayOfRatedShip
780
        System.JSONParser p
781
      ) {
782
         List<RatedShipmentDetails_Z> res = new List<RatedShipmentD
783
         if (p.getCurrentToken() == null)
784
           p.nextToken();
```

```
785
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
           res.add(new RatedShipmentDetails_Z(p));
786
787
788
         return res;
789
       }
790
       private static List<Names> arrayOfNames(System.JSONParser p)
791
792
         List<Names> res = new List<Names>();
         if (p.getCurrentToken() == null)
793
           p.nextToken();
794
795
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
796
           res.add(new Names(p));
797
798
        return res;
799
       }
800
801
       private static List<RatedShipmentDetails> arrayOfRatedShipme
         System.JSONParser p
802
803
804
         List<RatedShipmentDetails> res = new List<RatedShipmentDet
805
         if (p.getCurrentToken() == null)
806
           p.nextToken();
807
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
           res.add(new RatedShipmentDetails(p));
808
809
810
         return res;
811
812
813
       private static List<RateReplyDetails> arrayOfRateReplyDetail
         System.JSONParser p
814
815
       ) {
816
         List<RateReplyDetails> res = new List<RateReplyDetails>();
         if (p.getCurrentToken() == null)
817
818
           p.nextToken();
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
819
820
           res.add(new RateReplyDetails(p));
821
         }
822
         return res;
823
       }
824
825
       private static List<SurCharges_Z> arrayOfSurCharges_Z(System
         List<SurCharges_Z> res = new List<SurCharges_Z>();
826
827
         if (p.getCurrentToken() == null)
828
           p.nextToken();
829
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
830
           res.add(new SurCharges_Z(p));
831
         }
832
         return res;
833
       }
834
835
       private static List<RatedPackages> arrayOfRatedPackages(Syst
836
         List<RatedPackages> res = new List<RatedPackages>();
837
         if (p.getCurrentToken() == null)
838
           p.nextToken();
839
         while (p.nextToken() != System.JSONToken.END_ARRAY) {
840
           res.add(new RatedPackages(p));
841
         }
842
         return res;
843
      }
844 }
```