DHL ServicePointLocator API

Used by products:

- DHL Service Point B2C
- DHL Parcel Connect

findnearestservicepoints: used to get a list of a service point sorted in ascending order of distance to a given address. One of this should be selected and used as *AccessPoint* in the transport instruction and print.

getservicepointdetailsmethod: provides the possibility to lookup a known service point via it's unique *servicePointId*. For instance, to minimize the amount of data transferred between a web shop and a transport administrative system, instead of transferring the full address of the selected service point only the *servicePointId* needs to be transferred as the receiving system can look up the data at a later stage.

Select a service point, parcel shop or parcel station, i.e., place of delivery.

The preferred process is that the customer self-selects a service point with the possibility to search with optional address as the preferred may not be the one closest to the consignee address, it may be one near the working place etc. Only if this is not possible an automatic selection based on the consignee address can be performed. In any case as much address data as available should be used as input. For instance, using only postal code and city should be avoided as it will mostly result in poor selections and for international parcel shops this may yield no result deepening on missing or inconsistent geocoding for postal codes is some countries.

Note: Storing data about service points should only be temporally as the data is dynamic, address get updated, a service point is temporarily or permanently closed etc. Usage of "invalid" service points or incorrect data will in best case "only" result in delayed delivery and/or extra fees but in most cases result in return of the goods.

Sweden domestic: DHL ServicePoint B2C and service points

For a Swedish Service Point the result will also state if the additional service *Doorstep delivery* is available for given input. If this service is selected the record *doorStepDelivery* should be used as the *AccesPoint* part in the transport instruction, instead of one of the returned *servicePoints* records.

Note: The number of lockers (package vending machines), in Sweden is currently highly limited so explicit search for this should be avoided as the returned record could be extremely remote from the given location.

International: DHL ParcelConnect with Parcelshops and Parcelstations

The attribute *residentialAddressing* will state if this option is available for this country i.e. the *AccessPoint* part is not required in the Transport Instruction and print. The different addressing possibilities per country, i.e Residential, Parcelshop, or Parcelstation, together with corresponding max and min dimensions is recommended to be retrieved via the Product API to keep the solution up to date with most recent changes.

Note: The API will NOT return records with delivery options, i.e parcel shops, or parcel stations, for a country that isn't supported in this context.

Sample find domestic, i.e., Swedish, service points

Request to *findnearestservicepoints*:

```
{
 "address": {
   "street": "Gustav Adolfsgatan 2",
   /*  streetNumber can be used separately or merged into street as above*/
   "cityName": "Linköping",
   "postalCode": "58220",
   "countryCode": "SE"
 },
/* If additional service cash on deliver is used add:
   "featureCodes" : ["SF054"], */
 "maxNumberOfItems": 5
}
```

Sample response:

```
{
 "status": "OK",
 "doorStepDeliveryAvailable": true,
 "doorStepDelivery": {
   "id": "SE-789800",
   "servicePointId": "SE-789800",
   "name": "HEMLEVERANSOMBUD LINKÖPING",
   "address": {
     "street": "IDÖGATAN 7",
     "cityName": "LINKÖPING",
     "postalCode": "58278",
     "countryCode": "SE"
   },
   "phone": "",
   "locationType": "servicepoint"
 },
 "servicePoints": [
  {
   "id": "SE-926700",
   "servicePointId": "SE-926700",
   "street": "VASAVÄGEN 11",
   "name": "VASAVÄGEN TOBAK",
   "cityName": "LINKÖPING",
   "postalCode": "58220",
   "countryCode": "SE",
   "distance": 0.29,
   "routeDistance": 0.41,
   "distanceUnit": "km",
   "featureCodes": [
     "SF054",  "SPXXL"
   ],
   "locationType": "servicepoint",
   "serviceTypes": [
     "parcel:pick-up",  "parcel:drop-off",  "cash-on-delivery",  "express:pick-up", "express:drop-off"
   ],
   "latitude": 58.414487,
   "longitude": 15.619105,
   "clickAndCollectId": ""
  },
…
```

DHL Service Point B2C in the transport instruction and print

```
…
"parties":[
    …
    {
      "id":" SE-926700",
      "type":"AccessPoint",
      "name":"VASAVÄGEN TOBAK",
      "address":{
        "street":"VASAVÄGEN 11",
        "cityName":"LINKÖPING",
        "postalCode":"58220",
        "countryCode":"SE"
      }
    }
  ]
…
```

DHL Service Point B2C with Doorstep delivery in the transport instruction and print

```
…
  "parties":[
    …
    {
      "id":"SE-789800",
      "type":"AccessPoint",
      "name":"HEMLEVERANSOMBUD LINKÖPING",
      "address":{
        "street":"IDÖGATAN 7",
        "cityName":"LINKÖPING",
        "postalCode":"58278",
        "countryCode":"SE"
      },
      "phone": ""
  ],
  "additionalServices" : {
    "doorstepDelivery" : {
     /* accessCode is optional */
    }
    …
  }
…
```

find international service points, i.e. Parcel shops and Parcel Stations

Request to *findnearestservicepoints*:

```
{
 "address": {
  "street": " Vestebrogade 1",
  "cityName": " Köpenhamn",
  "postalCode": "1620",
  "countryCode": "DK"
 },
 "maxNumberOfItems": 5
/* To exclude ParcelStations add:
  "locationTypes" : ["servicepoint", "postoffice", "postbank"]     */
/* To exclude ParcelShops add:
  "locationTypes" : ["locker"]  */
}
```

Sample response:

```
{
 "status": "OK",
 "servicePoints": [
  {
   "id": "111693",
   "servicePointId": "8009-111693",
   "street": "Vesterbrogade 81",
   "name": "SHOP",
   "shopName": "Dolce",
   "cityName": "København V",
   "postalCode": "1620",
   "countryCode": "DK",
   "distance": 0.06,
   "routeDistance": 0.06,
   "distanceUnit": "km",
   "featureCodes": [],
   "locationType": "servicepoint",
   "serviceTypes": [
     "parcel:pick-up", "parcel:drop-off"
   ],
   "latitude": 55.672337,
   "longitude": 12.548913,
   "clickAndCollectId": ""
  },
...
 "residentialAddressing": false
}
```

DHL Parcel Connect in the transport instruction and print

```
…
"parties":[
    …
    {
      "id":" 111693",
      "type":"AccessPoint",
      "name":" SHOP ",
      "address":{
        "street":" Vesterbrogade 81",
        /* The returned shopName should be set as additionalAddressInfo */
        "additionalAddressInfo": "Dolce",
        "cityName":" København V",
        "postalCode":"1620",
        "countryCode":"DK"
      },
      "phone": "",
      "email": "",
      /* For locationType locker, subType should be set to ParcelStation for all others to PracelShop */
      "subType": "ParcelShop"
    }
  ]
…
```

DHL Parcel Connect in the transport instruction and print