



DHL Sweden

DHL ServicePointLocator

Web Service Specification

Version 1.7

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Version history

Date/version	Type	Comment	Updated by	
2016-05-16 / Version 1.7	URL update	Updated URLfor ÅROD	Peter Karlsson	DHL
2016-02-25 / Version 1.6	URL update	Updated URLfor TEST	Peter Karlsson	DHL
2010-09-03 / Version 1.5	Changed content	Changed handling of wsdl. Added parameter BitCatCodes.	Katharina Kronlund	Pdb
2009-03-20 / Version 1.4	Changed Content	Important change of parameter requirement in the GetNearestServicePointsRequest message; Either PostCode or City is again the requirement. Please inquire whether changes are required in client software RouteDistance is now included in the NearbyServicePoint type		
2008-11-25	Changed content	Code COD was changed to SF054 in section 4.3.7 URL's to Public endpoints have been changed.	Patrik Karlsson	Pdb
2008-10-06 / Version 1.3	Changed content	Important change of parameter requirement in the GetNearestServicePointsRequest message; PostCode is always required and City is made optional. Previously either PostCode or City was required. Please inquire whether changes are required in client software. Handling of FeatureCodes and limited resultset added. Changes are made in the messages GetNearestServicePointRequest, GetNearestServicePointResponse and GetServicePointDetailResponse	Patrik Karlsson	Pdb
2007-12-07 / Version 1.2	New document template	New template and new name of the document.	Patrik Karlsson	Pdb
2007-09-03 / Version 1.1		Former published version with the name DHL ServicePoint	Patrik Karlsson	Pdb

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1 Summary

This document describes how to communicate with the web service DHL ServicePointLocator. Target audience is integrators and system developers who will call and use the service.

2 Document versioning and status

This document is not final and is still subject for change.

This document will be versioned with a version number. Changes will be described in short in the Version history section.

3 General

This service is a wrapping of a third party service from YellowMap.

The service is implemented using Microsoft Windows Communication Foundation and published as a Web Service. It is however possible to setup different kinds of communication protocols like MSMQ etc.

3.1 Public endpoints

There's a test and a production version of the service. The table below shows the current URL's to the service.

TEST	https://www.dhltoolboxtest.se/DHLServicePointLocatorWS/ServicePoint.svc
PRODUCTION	https://www.dhltoolbox.se/DHLServicePointLocatorWS/ServicePoint.svc

The WSDL for each service can be retrieved by appending “?wsdl” at the end of the URL.

3.2 Security

The access to the web service is not restricted for now.

3.3 Error Handling

Errors returned in the structured answer from the YellowMap service (i.e. the message contained in the CResultError type) will be thrown as SOAP exceptions to the client. In a Microsoft .Net environment these can be caught as exceptions of type “FaultException”.

Other errors that might occur regarding communication with the YellowMap service, configuration errors etc, will not be published to the client. Instead a general SOAP exception will tell that something went wrong. All errors will be logged by the configurable Logging Application Block (Microsoft Enterprise Library April 2007).

4 DHL ServicePointLocator operations

The ServicePointLocator Service manages the search for ServicePoints located near by a given address and the retrieval of a detailed ServicePoint description. This section describes the operations exposed by the service.

4.1 GetNearestServicePoints operation

This operation returns the ServicePoints that is considered the nearest to a given address.

A list of required feature codes (FeatureCode objects) can be passed in the FeatureCodes parameter. Only ServicePoints that have the required feature codes will be returned.

A list of required bitcat codes (BitCatCode objects) can be passed in the BitCatCodes parameter. Only ServicePoints that have the required bitcat codes will be returned.

The result set can be limited to $1 \leq n \leq 20$ nearest ServicePoints, by using the MaxNumberOfItems parameter. If not used the result set is limited to the 10 nearest ServicePoints.

The operation conforms to the request/response message exchange pattern.

Request message:

GetNearestServicePointsRequest



Response message:

GetNearestServicePointsResponse

4.1.1 GetNearestServicePointsRequest message

Attribute	Message part	Required / Cardinality	Type / Length	Description
CountryCode	Body	Required	String	According to YellowMap documentation this should be a two letter ISO Country Code. This does not however seem to be correct. "S" is used for Sweden, "D" for Germany etc.
Street	Body	Optional	String	Street name
PostCode	Body	Required	String	
City	Body	Optional	String	
FeatureCodes	Body	Optional	FeatureCode[]	An array of FeatureCode objects that are required.
MaxNumberOfItems	Body	Optional	Integer	A value between 1 and 20. Limits the result array size of NearbyServicePoint objects.



BitCatCodes	Body	Optional	BitCatCode[]	An array of BitCatCode objects that are required.
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4.1.2 SOAP envelope request

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetNearestServicePointsRequest
xmlns="http://DHL.ServicePoint.ServiceContracts/2008/10">
      <CountryCode>SE</CountryCode>
      <Street/>
      <PostCode>11145</PostCode>
      <City>STOCKHOLM</City>
      <FeatureCodes i:nil="true"
xmlns:a="http://DHL.ServicePoint.DataContracts/2008/10"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
        <MaxNumberOfItems>0</MaxNumberOfItems>
        <BitCatCodes i:nil="true"
xmlns:a="http://DHL.ServicePoint.DataContracts/2008/10"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
      </GetNearestServicePointsRequest>
    </s:Body>
  </s:Envelope>
```

4.1.3 GetNearestServicePointsResponse message

Attribute	Message part	Type / Length	Description
ServicePoints	Body	NearbyServicePoint[]	An array of NearbyServicePoint objects.

4.2 GetServicePointDetail operation

The operation fetches a ServicePoint detail structure given a ServicePoint id. The operation conforms to the request/response message exchange pattern.

Request message:

GetServicePointDetailRequest



Response message:

GetServicePointDetailResponse



4.2.1 GetServicePointDetailRequest message

Attribute	Message part	Required / Cardinality	Type / Length	Description
ServicePointRef	Body	Required	ServicePointRef	A Service Point reference object containing the official Id for the Service Point.

4.2.2 GetServicePointDetailResponse message

Attribute	Message part	Type / Length	Description
ServicePointDetail	Body	ServicePoint	

4.3 Types

String lengths in the following types refer to the Yellowmap documentation and is not guaranteed by this service.

4.3.1 NearbyServicePoint

The main result item from the *GetNearestServicePoints* operation. Holds slimmed information set for a single Service Point with its distance to the address searched.

Attribute	Required / Cardinality	Type / Length	Description
City		String / 50	
Distance		Decimal	Distance (as the crow flies) in km from the search address according to yellowmap.
Identity		ServicePointRef	
StreetName		String / 80	
FeatureCodes		FeatureCode[]	Array of FeatureCode objects for this ServicePoint.
RouteDistance		Decimal	Route distance in km from the search address according to yellowmap

4.3.2 ServicePointRef

Attribute	Required / Cardinality	Type / Length	Description
DisplayName	Optional	String / 50	The name of the Service Point
Id	Required	String / 10	The Identity of the Service Point

4.3.3 ServicePoint

Attribute	Required / Cardinality	Type / Length	Description
Identity		ServicePointRef	Identity reference containing name and id.
ServiceAddress		ServiceAddress	Structure for address and contact information
FeatureCodes		FeatureCode[]	Array of FeatureCode objects for this ServicePoint.

4.3.4 ServiceAddress

Attribute	Required / Cardinality	Type / Length	Description
Address		PhysicalAddress	Address location
ContactPersonName	Reserved	String	Not used
Telecom		TelecomInfo	Telecom contact information

4.3.5 PhysicalAddress

Attribute	Required / Cardinality	Type / Length	Description
AddresseeName		String / 50	Name of addressee, i.e. service point
City		String / 50	
CountryCode		String / 2	ISO-code
PostCode		String / 12	
Street1		String / 80	
Street2	Reserved	String	Not used

4.3.6 TelecomInfo

Attribute	Required / Cardinality	Type / Length	Description
Email		String / 250	
Fax		String / 40	
Phone		String / 40	

4.3.7 FeatureCode

Attribute	Required / Cardinality	Type / Length	Description
FeatureCode		String	<p>A feature code indicates a feature of a ServicePoint. Valid feature codes are:</p> <ul style="list-style-type: none"> • SF054 Cash On Delivery

4.3.8 BitCatCode

Attribute	Required / Cardinality	Type / Length	Description
BitCatCode		String	<p>A bitcat code indicates a code of a ServicePoint. Valid bitcat codes are:</p> <ul style="list-style-type: none"> • BS01-TD ServicePoints for international packages