



DHL Sweden

DHL Home Delivery Locator
Web Service Specification

Version 1.6

Updated 2016-05-16

Version history

Date/version	Type	Comment	Changed by	Source
2013-06-26 / Version 1.0	New document	New document.	Daniel Arbin	Pdb
2013-10-10 / Version 1.1	Added	Added ReplyStatusDescription	Daniel Arbin	Pdb
2014-01-30 / Version 1.2	Updated hosting	Update to external addresses	Daniel Arbin	Pdb
2014-01-31 / Version 1.3	Added service options Id	Added a list of ServiceOption ID's that is used in DHL QuotePrice	Daniel Arbin	Pdb
2014-2-14 / Version 1.4	Update description	Credential description removed	Daniel Arbin	Pdb
2016-02-25 / Version 1.5	URL update	Updated URLfor TEST.	Peter Karlsson	DHL
2016-05-16 / Version 1.6	URL update	Updated URLfor PROD.	Peter Karlsson	DHL

DHL Home Delivery Locator – Web Service Specification

1	Summary	4
2	Document versioning and status	4
3	General	4
3.1	Hosting.....	4
3.2	Security.....	4
3.3	Error Handling.....	4
4	Operations.....	5
4.1	GetServiceOptions.....	5
4.2	ValidateServiceOptions.....	5
5	Data types.....	5
5.1.1	Credentials.....	5
5.1.2	ServiceOption	5
5.1.3	ServiceOptionsRequest	5
5.1.4	ServiceOptionsReply	6
5.1.5	ServiceOptionsValidationRequest.....	6
5.1.6	ServiceOptionsValidationReply.....	6
5.1.7	DeliveryType (Enum)	7
5.1.8	ReplyStatusType (Enum).....	7
6	XML schema.....	8
6.1.1	DhlHomeDeliveryLocatorWs.xsd	8
6.1.2	DhlHomeDeliveryLocatorWs.DomainClasses.xsd	10
7	List of ServiceOption ID	13

1 Summary

This document describes how to communicate with the web service DHL Home Delivery Locator. 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

The service is implemented using Visual Studio 2010 and C# as a WCF service.

3.1 Hosting

The table below shows the current URL to the service.

TEST	https://www.dhltoolboxtest.se/DhlHomedeliveryLocatorWs/DhlHomedeliveryLocator.svc
PRODUCTION	https://www.dhltoolbox.se/DhlHomedeliveryLocatorWs/DhlHomedeliveryLocator.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 will be restricted using a username and password. Username and password will be sent in as parameters when calling a method. Username and password will be sent in clear text from the client to the service.

3.3 Error Handling

Errors will be thrown as fault exceptions (SOAP fault).

4 Operations

The service manages requests for getting options for home delivery and for validating options combinations. This section describes the operations exposed by the service.

4.1 *GetServiceOptions*

Request parameters: Credentials, ServiceOptionsRequest

Response: ServiceOptionsReply



4.2 *ValidateServiceOptions*

Request parameters: Credentials, ServiceOptionsValidationRequest

Response: ServiceOptionsValidationReply



5 Data types

5.1.1 Credentials

Data	Required	Type	Description
Username	Yes	string	
Password	Yes	string	

5.1.2 ServiceOption

Data	Required	Type	Description
Id	Yes	integer	Id number for the option
Name	Yes	string	Name for the option

5.1.3 ServiceOptionsRequest

Data	Required	Type	Description
CustomerNumber	Yes	string	
PostCode	Yes	string	
PostCodeCityName	Yes	string	City name, only the 3 first characters will be used.
DeliveryType	Yes	DeliveryType	Delivery or return

5.1.4 ServiceOptionsReply

Data		Type	Description
ReplyStatus		ReplyStatusType	Status for reply
ReplyStatusDescription		string	Description of ReplyStatus
ReplyText		string	Text about the reply
ReplyTextAdditional		string	Additional text about the reply
ServiceOptions		Array[ServiceOption]	List of available service options

5.1.5 ServiceOptionsValidationRequest

Data	Required	Type	Description
CustomerNumber	Yes	string	
PostCode	Yes	string	
PostCodeCityName	Yes	string	City name, only the 3 first characters will be used.
DeliveryType	Yes	DeliveryType	Delivery or return
ServiceOptions	Yes	Array[ServiceOption]	List of selected service options

5.1.6 ServiceOptionsValidationReply

Data		Type	Description
ReplyStatus		ReplyStatusType	Status for reply
ReplyStatusDescription		string	Description of ReplyStatus
ReplyText		string	Text about the reply. Example when service combination error: "AVISERING 13 NOT allowed with INBÄRNING"
ReplyTextAdditional		string	Additional text about the reply
ProductCode		string	
PartnerId		string	3 rd party information
PartnerName		string	3 rd party information

PartnerAddress1		string	3 rd party information
PartnerAddress2		string	3 rd party information
PartnerCountry		string	3 rd party information
PartnerPostCode		string	3 rd party information
PartnerCity		string	3 rd party information
PartnerLocation		string	3 rd party information
PartnerPhone		string	3 rd party information

5.1.7 DeliveryType (Enum)

Enum values	Integer value		Description
Delivery			
Return			

5.1.8 ReplyStatusType (Enum)

Enum values	Integer value		Description
			This description is in the attribute: ReplyStatusDescription
Ok	0		
NoDataFound	1		Produkten kan ej bokas till vald ort
CustomerError	2		Felaktigt kundnummer
PostcodeError	3		Felaktigt postnummer eller ort
ServiceCombError	4		Ett eller flera tillval kan ej kombineras
ParameterError	99		En eller fler felaktiga parametrar i XML
Unknown	100		Okänt fel

6 XML schema

6.1.1 DhlHomeDeliveryLocatorWs.xsd

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="http://localhost:50467/DhlHomeDeliveryLocator.svc?xsd=xsd1"
    namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="DeliveryType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Delivery" />
      <xs:enumeration value="Return" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="DeliveryType" nillable="true" type="tns:DeliveryType" />
  <xs:simpleType name="ReplyStatusType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Ok" />
      <xs:enumeration value="NoDataFound" />
      <xs:enumeration value="CustomerError" />
      <xs:enumeration value="PostcodeError" />
      <xs:enumeration value="ServiceCombError" />
      <xs:enumeration value="ParameterError">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">99</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Unknown">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">100</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```



```
</xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>
<xs:element name="ReplyStatusType" nillable="true" type="tns:ReplyStatusType" />
</xs:schema>
```

6.1.2 DhlHomeDeliveryLocatorWs.DomainClasses.xsd

```
<?xml version="1.0" encoding="utf-8"?>

<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs.DomainClasses"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs.DomainClasses"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:import schemaLocation="http://localhost:50467/DhlHomeDeliveryLocator.svc?xsd=xsd3"
    namespace="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs" />

  <xs:complexType name="Credentials">
    <xs:sequence>
      <xs:element minOccurs="0" name="Password" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Username" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="Credentials" nillable="true" type="tns:Credentials" />

  <xs:complexType name="ServiceOptionsRequest">
    <xs:sequence>
      <xs:element minOccurs="0" name="CustomerNumber" nillable="true" type="xs:string" />
      <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs"
        minOccurs="0" name="DeliveryType" type="q1:DeliveryType" />
      <xs:element minOccurs="0" name="PostCode" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="PostCodeCityName" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="ServiceOptionsRequest" nillable="true" type="tns:ServiceOptionsRequest" />

  <xs:complexType name="ServiceOptionsReply">
    <xs:sequence>
      <xs:element minOccurs="0" name="CustomerName" nillable="true" type="xs:string" />
      <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs"
        minOccurs="0" name="ReplyStatus" type="q2:ReplyStatusType" />
      <xs:element minOccurs="0" name="ReplyStatusDescription" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="ReplyText" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="ReplyTextAdditional" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="ServiceOptions" nillable="true" type="tns:ArrayOfServiceOption" />
    </xs:sequence>
  </xs:complexType>

  <xs:element name="ServiceOptionsReply" nillable="true" type="tns:ServiceOptionsReply" />

</xs:schema>
```

```

<xs:complexType name="ArrayOfServiceOption">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ServiceOption" nillable="true"
type="tns:ServiceOption" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfServiceOption" nillable="true" type="tns:ArrayOfServiceOption" />
<xs:complexType name="ServiceOption">
  <xs:sequence>
    <xs:element minOccurs="0" name="Id" type="xs:int" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ServiceOption" nillable="true" type="tns:ServiceOption" />
<xs:complexType name="ServiceOptionsValidationRequest">
  <xs:sequence>
    <xs:element minOccurs="0" name="CustomerNumber" nillable="true" type="xs:string" />
    <xs:element xmlns:q3="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs"
minOccurs="0" name="DeliveryType" type="q3:DeliveryType" />
    <xs:element minOccurs="0" name="PostCode" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PostCodeCityName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ServiceOptions" nillable="true" type="tns:ArrayOfServiceOption" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ServiceOptionsValidationRequest" nillable="true"
type="tns:ServiceOptionsValidationRequest" />
<xs:complexType name="ServiceOptionsValidationReply">
  <xs:sequence>
    <xs:element minOccurs="0" name="CustomerName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerAddress1" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerAddress2" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerCity" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerCountry" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerId" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerLocation" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerPhone" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PartnerPostCode" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ProductCode" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>

```

```
<xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/DhlHomeDeliveryLocatorWs"
minOccurs="0" name="ReplyStatus" type="q4:ReplyStatusType" />
  <xs:element minOccurs="0" name="ReplyStatusDescription" nillable="true" type="xs:string" />
  <xs:element minOccurs="0" name="ReplyText" nillable="true" type="xs:string" />
  <xs:element minOccurs="0" name="ReplyTextAdditional" nillable="true" type="xs:string" />
</xs:sequence>
</xs:complexType>
<xs:element name="ServiceOptionsValidationReply" nillable="true"
type="tns:ServiceOptionsValidationReply" />
</xs:schema>
```

7 List of ServiceOption ID

Insurance = 2
CarryingInside = 3
DeliveryNotification = 8
Co2ClimateCompensation = 20
DeliveryMonitoring = 36
PickUpAtTerminal = 49
CarryingToDesignatedLocation = 53
DoubleCrew = 54
RetrievalOfTransportPackaging = 55
EveningDelivery = 56
WeekendDelivery = 57
TimeBooking = 58
InstallationSimple = 59
InstallationAdvanced = 61
Assembly20 = 62
Assembly40 = 63
Assembly60 = 64
RemovalOldItem = 65
CarryingFromDesignatedLocation = 66
EveningDeliveryB = 67
EveningDeliveryC = 68
EveningDeliveryD = 69
EveningDeliveryE = 70