

Summary

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

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.

ID	Datum	Namn	Kommentar
0.2	2017-03-30	Ulf	Booking answer in string format: GetTimeTableBookingOnline Response
0.3	2017-04-06	Lena	Shortgened length in Response text för GetTimeTableOnlineID and ResponseID and new field , ResponseTextLabel in GetTimeTableBookingOnline Response
04	2017-05-03	Lena	Updated ResponseTextLabel and endpoints
05	2017-06-27	Lena	Updated from Swedish to english

General

The service is implemented using and published as a Web Service.

Public endpoints

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

<https://www.dhltoolbox.se/LevtidOnline/LevtidOnline.svc>

Security

The access to the web service will be restricted using a passed user name and password. Username and password must be used to access the service. Username and password will be sent in clear text from the client to the service.

All request and responses logged in MDS system

Errors will be encapsulated as exceptions. All errors will be logged by the service.

Error Handling

Errors will be encapsulated as exceptions. All errors will be logged by the service.

DHL TimeTableOnline operations

DHL TimeTableOnline Service manages requests of time table and capacity information from. This section describes the operations exposed by the service.

GetTimeTableOnline operation

The operation gets time table and capacity information.

- Request: GetTimeTableOnline Request
- Response: GetTimeTableOnline Response

GetTimeTableOnline Request

Parameter	Message part	Required / Cardinality	Type / Length	Description
User	Body	Yes	String	User: TimeTableAppUser
Password	Body	Yes	String	Password: TTA%Pwd06
Customer ID	Body	No	String	CustomerID, numeric but not validated.
Type	Body	Yes	Integer	1 = PROD 2 = TEST
Request Type	Body	Yes	Integer	Request type (Webb/DAX flag) 1 = Webb 2 = DAX
CreateTimeStamp	Body	Yes	DateTime	TimeStamp, request sent
CountryCode	Body	Yes	String	SE
PickupPostCode	Body	No	String	Post code for the pickup place, 5 digits.
Arriving terminal	Body	No	Integer	ANK terminal

				Terminalid for the arriving terminal. 2 digits.
DeliveryCountryCode	Body	Yes	String	SE
DeliveryPostCode	Body	Yes	String	Post code for the delivery place. 5 digits
EarliestSentDate	Body	Yes	DateTime	First possible pickup date for DHL.
NoOfDays	Body	Yes	Integer	(To date), X number of traffic days that pickup can occur. Optimal max 10 days.
Verklig vikt	Body	No	Decimal	Real Weight can be 0
Volym	Body	No	Decimal	Volume can be 0
Pallplatser	Body	No	Integer	Podiums can be 0
Fim	Body	No	Decimal	Loading Meters can be 0

GetTimeTableOnline Response

Parameter	Message part	Type / Length	Description
Information	Body	Information	XML tag <Information>, 1 occurrence
TimeTableOnline	Body	TimeTable	XML tag <TimeTableOnline>, x occurrences

XML Response schema <xs:element name="Information

Information

Attribute	Required / Cardinality	Type / Length	Description
Customer ID	N/A	String	CustomerId
Type	N/A	Integer	1 = PROD 2 = TEST
Request Type	N/A	Integer	Request type 1 = Webb 2 = DAX
PickupCountryCode	N/A	String	Passed CountryCode
PickupPostCode	N/A	String	Passed PickupPostCode
Arriving terminal	N/A	Integer	Passed Arriving terminal

DeliveryCountryCode	N/A	String	Passed DeliveryCountryCode
DeliveryPostCode	N/A	String	Passed DeliveryPostCode
EarliestSentDate	N/A	DateTime	Passed EarliestSentDate
NoOfDays	N/A	Integer	Passed # of days
ResponseStatus	N/A		1 = OK 2 = N/A
CreateTimeStamp	N/A	DateTime	Passed TimeStamp, request sent
ResponseTimeStamp	N/A	Integer	TimeStamp, response
GetTimeTableOnlineID	N/A	Integer	Unique id on TimeTableOnline request/ response

TimeTable

<i>Attribute</i>	<i>Required / Cardinality</i>	<i>Type / Length</i>	<i>Description</i>
GetTimeTableOnlineID	N/A	Integer	Unique id on TimeTableOnline request/ response
ResponseID	N/A	Integer	Unique id for response row in TimeTableOnline request/ response
PickupDate	N/A	DateTime	PickupDate for DHL yyyy-mm-dd hh:mm
TypeOfDelivery	N/A	Integer	1 =Regular capacity 2 = Extra capacity
DeliveryDate	N/A	DateTime	DeliveryDate for DHL yyyy-mm-dd hh:mm
DeliveryTimeFrom	N/A	Time	Delivery Time start for period HH:MM
DeliveryTimeTo	N/A		Delivery Time stop for period HH:MM

GetTimeTableBookingOnline operation

The operation creates or deletes a capacity booking.

- Request: GetTimeTablebookingOnline Request
- Response: GetTimeTableBookingOnline Response

GetTimeTablebookingOnline Request

Parameter	Message part	Required / Cardinality	Type / Length	Description
User	Body	Yes	String	User: TimeTableAppUser
Password	Body	Yes	String	Password: TTA%Pwd06
Customer ID	Body	Yes	String	CustomerID
Type	Body	Yes	Integer	1 = PROD 2 = TEST
Request Type	Body	Yes	Integer	Request type 1 = Webb 2 = DAX
CreateTimeStamp	Body	Yes	DateTime	TimeStamp, request sent
GetTimeTableOnline ID	Body	Yes	Integer	Unique id on TimeTableOnline request/ response
Operation	Body	Yes	Integer	1 = Booking 2 = Delete
ResponseID	Body	No	Integer	Unique id on response row in TimeTableOnline request/ response

GetTimeTableBookingOnline Response

Parameter	Message part	Type / Length	Description
Customer ID	N/A	String	Customer ID
Type	N/A	Integer	1 = PROD 2 = TEST
Request Type	N/A	Integer	Request type: 1 = Webb 2 = DAX
CreateTimeStamp	N/A	DateTime	Passed TimeStamp, request sent
ResponseTimeStamp	N/A	DateTime	TimeStamp, response
GetTimeTableOnlineID	N/A		

Operation	Yes	Integer	1 = Booking 2 = Delete
ResponseID	N/A	String	
ResponseStatus	N/A		1 = OK (If Operation = 1 : Booked, If operation = 2: Deleted) 2 = N/A ex not valid 3 = TimeOut on reserved capacity. (Too long time interval between request and)
ResponseText	N/A	String	Customer ID char(6) pad with ' '+ Type char(1) pad with '' + Request Type char(1) pad with ' '+ PickupCountryCode char(2) pad with '' + PickupPostCode p char(5) pad with '' + Arriving terminal char(2) pad with '' + DeliveryCountryCode char(2) pad with '' + DeliveryPostCode char(5) pad with '' + EarliestSentDate yyyy-mm-dd char(20) pad with '' + NoOfDays char(3) pad with '' + ResponseStatus char(2) pad with '' + CreateTimeStamp char(20) pad with '' + ResponseTimeStamp char(20) pad with '' + GetTimeTableOnlineID char(10) pad with '' + ResponseID char(5) pad with '' + PickupDate yyyy-mm-dd char(20) pad with '' + TypeOfDelivery char (1) pad with '' + DeliveryDate yyyy-mm-dd char(20) pad with '' + DeliveryTimeFrom char(20) pad with '' DeliveryTimeTo p char(20) pad with '' + RouteID char(6) pad with '' + DCPlace char(6) pad with ''

ResponseTextLabel	N/A	String	DeliveryDate, DeliveryTimeFrom and DeliveryTimeTo in format 'TID - DD/MM - KL HH:MM – HH:MM'
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ResponseText example:

'12345621SE2523123SE252202017-04-28 2 1 2017-04-28 15:46:19 2017-04-28 15:46:55 10023
4 2017-05-03 22017-05-04 20:00:00 22:00:00 EXT0015 '

ResponseTextLabel example:

'TID - 04/05 - KL 20:00 - 22:00'