COD HOME DELIVERY API INTEGRATION GUIDE

VERSION 1.6

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DOCUMENT HISTORY

DATE	AUTHOR	STATUS
29th Sep, 2018	MUHAMMAD ARIF	Initial document created.
03rd Oct, 2018	MUHAMMAD ARIF	New Order ID Parameter added in Quick Booking and tracking for order reference.
09th Jan, 2019	MUHAMMAD ARIF	New API Endpoints to Cancel booking and to calculate tariff rates against selected category
27th June, 2019	MUHAMMAD ARIF	New Booking Endpoint to enable customers to book from multiple locations using same credentials.
12th Nov, 2019	MUHAMMAD ARIF	New Item description parameter.
08th Sep, 2021	MUHAMMAD ARIF	Booking API Updated

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1. INTRODUCTION

This API Integration Guide is a technical integration document for clients to interface DEPBS cargo system and allow them for booking Cash on Delivery (Home Delivery) consignments over the Internet.

It shows how to use various functionalities and describes interfacing specifications to furnish a consignment booking request.

API provides access to its functionalities through below listed web services:

SR NO	WEB SERVICE	DESCRIPTION
1	LOCATION	DEPBS available and active cargo terminals.
2	BOOKING	Get information from end user and book a consignment.
3	TRACKING	Track a shipment status

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2. PRE-REQUISITES

To use DEPBS Cargo APIs each client must have below listed pre requisites provided by DEPBS.

1- API Key: Provided by Daewoo.
2- API User: Provided by Daewoo.
3- API Password: Provided by Daewoo.

3. WEB SERVICES

Below is the list of web services to perform various functionalities to book a COD consignment or to track a consignment.

3.1.   Get Locations

Get locations method will provide all the possible destination locations.

WEB SERVICE	getLocations		
DESCRIPTION	**Get locations allowed for booking a COD Home Delivery consignment.**		
API Link	**/api/cargo/getLocations?apiKey=[API_KEY]&apiUser=[API_USER]&apiPassword=[API_PASS]**		
Request Type	**HTTP GET Request**		
INPUT PARAMETERS			
PARAMETERS	DESCRIPTION	MANDATORY/OPTIONAL	DATA TYPE
apiKey	Unique alphanumeric key provided by Daewoo.	Mandatory	String
apiUser	Unique user id provided by Daewoo to access API.	Mandatory	String
apiPassword	Alphanumeric password for user authorization.	Mandatory	String
OUT PARAMETERS			
KEY	DESCRIPTION	DATA FORMAT	DATA TYPE
Success	Boolean value indicating if the operation is successful or not.	JSON	Boolean
Error	Boolean value indicating if any error is occurred during the request operation.	JSON	Boolean
Response	Response Message	JSON	String
ResponseDetail	Response Detail	JSON	String
Data	Destination Data	JSON	Array of JSON Objects

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3.1.2. Sample Request/Response Body

Request Body:

```
string ReqURL = @"https://codapi.daewoo.net.pk/";

string myMethod = @"api/cargo/getLocations?apiKey=[API_KEY]&apiUser=[API_USER]&apiPassword=[API_PASS]";

try{

using (var client = new HttpClient()) {

client.BaseAddress = new Uri(ReqURL);

var result = client.GetAsync(myMethod);

object resultContent = result.Result.Content.ReadAsStringAsync();

}}

catch (Exception ex)

{MessageBox.Show(ex.Message);}
```

Response Body:

```
{
    "Success":true,
    "Error":false,
    "Response":"",
    "ResponseDetail":"",
    "Data":[
            {
                    "terminal_id":10,
                    "terminal_name":"FAISALABAD"
            },
            {
                    "terminal_id":14,
                    "terminal_name":"HYD (LATIFABAD)"
            }
            ]
}
```

3.2.   Quick Book

This service method will allow user to book consignment for specific destination.

WEB SERVICE	quickBook (From Single Location)		
DESCRIPTION	Perform COD Home Delivery consignment booking.		
API Link	api/booking/quickBook?apiKey=[API_KEY]&apiUser=[API_USER]&apiPassword=[API_PASS]		
Request Type	HTTP POST Request		
INPUT PARAMETERS			
PARAMETERS	DESCRIPTION	MANDATORY/OPTIONAL	DATA TYPE

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apiKey	Unique alphanumeric key provided by Daewoo.	Mandatory	String
apiUser	Unique user id provided by Daewoo to access API.	Mandatory	String
apiPassword	Alphanumeric password for user authorization.	Mandatory	String
cNModel	JSON Model body containing consignment details	Mandatory	JSON Body Object
OUT PARAMETERS			
KEY	**DESCRIPTION**	**DATA FORMAT**	**DATA TYPE**
Success	Boolean value indicating if the operation is successful or not.	JSON	Boolean
Error	Boolean value indicating if any error is occurred during the request operation.	JSON	Boolean
Validations	Boolean value indicating if any validation error is occurred during the request operation.	JSON	Boolean
Response	Response Message from the API.	JSON	String
TrackNo	Unique Tracking Number assigned to the consignment.	JSON	String
Barcode	Unique barcode assigned to consignment.	JSON	String
CashCollection	Cash collection amount from the customer.	JSON	String
OrderId	Order ID for reference.	JSON	String

WEB SERVICE	**quickBookV3 (From multiple locations)**		
DESCRIPTION	**Perform COD Home Delivery consignment booking.**		
API Link	**api/booking/quickBookV3?apiKey=[API_KEY]&apiUser=[API_USER]&apiPassword=[API_PASS]**		
Request Type	**HTTP POST Request**		
INPUT PARAMETERS			
PARAMETERS	**DESCRIPTION**	**MANDATORY/OPTIONAL**	**DATA TYPE**
apiKey	Unique alphanumeric key provided by Daewoo.	Mandatory	String
apiUser	Unique user id provided by Daewoo to access API.	Mandatory	String
apiPassword	Alphanumeric password for user authorization.	Mandatory	String
cNModel	JSON Model body containing consignment details	Mandatory	JSON Body Object
OUT PARAMETERS			
KEY	**DESCRIPTION**	**DATA FORMAT**	**DATA TYPE**
Success	Boolean value indicating if the operation is successful or not.	JSON	Boolean
Error	Boolean value indicating if any error is occurred during the request operation.	JSON	Boolean
Validations	Boolean value indicating if any validation error is occurred during the request operation.	JSON	Boolean
Response	Response Message from the API.	JSON	String
TrackNo	Unique Tracking Number assigned to the consignment.	JSON	String
Barcode	Unique barcode assigned to consignment.	JSON	String

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CashCollection	Cash collection amount from the customer.	JSON	String
OrderId	Order ID for reference.	JSON	String

3.2.1. Sample Request/Response Body

Request Body:

```
string ReqURL = @"https://codapi.daewoo.net.pk/";
        string myJson = @"{
                'order_no':'0000000',
                'source_terminal_id':'0',
                'destination_terminal_id':'18',
                 'receiver_name':'Arif',
                 'receiver_cnic':'3630234219423',
                 'receiver_mobile':'03364199945',
                 'receiver_address':'Multan,Pakistan',
                 'receiver_city':'Multan',
                 'receiver_email':'muhammad.arif@daewoo.com.pk',
                 'remarks':'',
                 'category_id':'0',
                 'qty':'1',
                 'weight':'1.2',
                 'barcode':'0',
                 'cod_amount': '2000',
                 'source_location_point': '0.0',
        "destination_location_point": "0.0",
        "source_location_address": "Source address",
        "destination_location_address": "destination address" ,
        "item_description":"Item Description"}";
        string myMethod =
@"api/booking/quickBook[version]?apiKey=[API_KEY]&apiUser=[API_USER]&apiPassword=[API_PASS]";
        client.BaseAddress = new Uri(ReqURL);
        var content = new StringContent(myJson, Encoding.UTF8, "application/json");
        var result = client.PostAsync(myMethod, content);
        object resultContent = result.Result.Content.ReadAsStringAsync();
```

Response Body:

```
{
   "Success": true,
   "Error": false,
   "Validations": true,
   "Response": "Consignment Has been saved succesfully!",
   "TrackNo": "181291509",
   "Barcode": "3000000003",
   "CashCollection": "2000",
   "OrderId": "000000"
}
```

3.3.   Tracking

This service method allows you to track the consignment in real-time.

WEB SERVICE	quickTrack		
DESCRIPTION	Real-time tracking		
API Link	api/booking/quickTrack?trackingNo=[Tracking_No]		
Request Type	HTTP GET Request		
INPUT PARAMETERS			
PARAMETERS	DESCRIPTION	MANDATORY/OPTIONAL	DATA TYPE
trackingNo	Unique Tracking # assigned to consignment by Quick-Track API method.	Mandatory	String
OUT PARAMETERS			
KEY	DESCRIPTION	DATA FORMAT	DATA TYPE
Success	Boolean value indicating if the operation is successful or not.	JSON	Boolean
Error	Boolean value indicating if any error is occurred during the request operation.	JSON	Boolean
Response	API response.	JSON	String
CurrentTrackStatus	Consignment Tracking information.	JSON	JSON Object
TrackingDetails	Consignment Home-Delivery tracking details.	JSON	JSON Object

3.3.1. Sample Request/Response Body

Request Body:

```
string ReqURL = @"https://codapi.daewoo.net.pk/";
string myMethod = @"api/booking/quickTrack?trackingNo=[TRACK_NO]";
using (var client = new HttpClient())
{
client.BaseAddress = new Uri(ReqURL);
var result = client.GetAsync(myMethod);
object resultContent = result.Result.Content.ReadAsStringAsync();
}
```

Response Body:

```
{
  "Result": {
    "Success": true,
    "Error": false,
    "Response": "Tracking Successfull",
    "CurrentTrackStatus": [
      {
        "track_no": 181302021,
```

```
        "order_id": "157598",
        "booking_date_time": "2018-10-03T09:39:06.08",
        "customer": "ELO API COD HD CREDIT",
        "payment_mode_name": "COD CREDIT - (1) Service Charges Included In Product Price",
        "CODMode": "SC In Product Price",
        "source_terminal": "FAISALABAD",
        "source_ccp": "MAIN",
        "destination_terminal": "LAHORE",
        "destination_ccpi": "THOKAR",
        "status_name": "Booked",
        "amount_cod": 2000,
        "remarks": "",
        "web_track_code": 4198,
        "tweight": 1.2,
        "tpieces": 1,
        "tqty": 1,
        "sender_name": "ELO API COD HD CREDIT",
        "sender_contact1": "",
        "sender_address1": "",
        "sender_city": "FAISALABAD",
        "sender_cnic": "",
        "sender_email": "",
        "receiver_name": "Arif",
        "receiver_contact1": "03364199945",
        "receiver_address1": "Multan,Pakistan",
        "receiver_city": "Multan",
        "receiver_cnic": "3630234219423",
        "receiver_email": "muhammad.arif@daewoo.com.pk"
      }
    ],
        "TrackingDetails": [
      {
        "booking_no": 181291509,
        "BarCode": 3000000003,
        "Date": "Oct  1 2018 11:15AM",
        "PortalDate": "2018-10-01 11:15:50",
        "Status": "OR - ON ROUTE",
        "Status_Reason": "ON ROUTE",
        "TransactionTerminal": "LAHORE - THOKAR",
        "add_user": "KASHIF",
        "remarks": "",
        "Collector_Name": "",
        "Collector_Contact": "",
        "Collector_Cnic": "",
        "Rem": "Sheet # 26817 | Delivery # 8397",
        "Collector_Relation": ""
      },
      {
        "booking_no": 181291509,
        "BarCode": 3000000003,
        "Date": "01/10/2018 11:16:01",
        "PortalDate": "01/10/2018 11:16:01",
        "Status": "OK - DELIVERED",
        "Status_Reason": "DELIVERED",
```

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```
            "TransactionTerminal": "LAHORE - THOKAR",
            "add_user": "KASHIF",
            "remarks": "",
            "Collector_Name": "",
            "Collector_Contact": "AAAAAAAA",
            "Collector_Cnic": "",
            "Rem": "Sheet # 26817 | Delivery # 8397",
            "Collector_Relation": "OWNER"
        }
    ]   },
  "Id": 92,
  "Exception": null,
  "Status": 5,
  "IsCanceled": false,
  "IsCompleted": true,
  "CreationOptions": 0,
  "AsyncState": null,
  "IsFaulted": false
}
```

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3.4.   Booking Cancellation

This service method allows you to cancel a booking in real-time.

WEB SERVICE	quickCancel		
DESCRIPTION	Booking cancellation		
API Link	/api/booking/quickCancel?apiKey=[API_KEY]&apiUser=[API_USER] &apiPassword=[API_PASSWORD]&trackingNo=[TRACKING NO]		
Request Type	HTTP POST Request		
INPUT PARAMETERS			
PARAMETERS	**DESCRIPTION**	**MANDATORY/OPTIONAL**	**DATA TYPE**
apiKey	Unique alphanumeric key provided by Daewoo.	Mandatory	String
apiUser	Unique user id provided by Daewoo to access API.	Mandatory	String
apiPassword	Alphanumeric password for user authorization.	Mandatory	String
trackingNo	Unique Tracking # assigned to consignment by Booking API endpoint.	Mandatory	String
OUT PARAMETERS			
KEY	**DESCRIPTION**	**DATA FORMAT**	**DATA TYPE**
Success	Boolean value indicating if the operation is successful or not.	JSON	Boolean
Error	Boolean value indicating if any error is occurred during the request operation.	JSON	Boolean
Response	API response.	JSON	String

3.4.1. Sample Request/Response Body

Request Body:

```
string ReqURL = @"https://codapi.daewoo.net.pk/";
string myMethod =
@"api/booking/quickCancel?apiKey[API_KEY]&apiUser=[API_USER]&apiPassword=[API_PASSWORD]&trackingNo=[TRACKING NO]
 using (var client = new HttpClient())
{
client.BaseAddress = new Uri(ReqURL);
var result = client.PostAsync(myMethod);
object resultContent = result.Result.Content.ReadAsStringAsync();
}
```

Response Body:

```
{
  "Success": true, "Error": false, "Response": "Booking has been cancelled."
}
```

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3.5.   Calculate Tariff Rate

This service method allows you to calculate tariff rate against selected category.

WEB SERVICE	quickCalculateRate		
DESCRIPTION	**Calculate tariff rate**		
API Link	**/api/booking/quickCalculateRate?apiKey=[API_KEY]&apiUser=[API_USER] &apiPassword=[API_PASSWORD]**		
Request Type	**HTTP POST Request**		
INPUT PARAMETERS			
PARAMETERS	**DESCRIPTION**	**MANDATORY/OPTIONAL**	**DATA TYPE**
apiKey	Unique alphanumeric key provided by Daewoo.	Mandatory	String
apiUser	Unique user id provided by Daewoo to access API.	Mandatory	String
apiPassword	Alphanumeric password for user authorization.	Mandatory	String
cNModel	JSON Model body containing item information.	Mandatory	JSON Body Object
OUT PARAMETERS			
KEY	**DESCRIPTION**	**DATA FORMAT**	**DATA TYPE**
Success	Boolean value indicating if the operation is successful or not.	JSON	Boolean
Error	Boolean value indicating if any error is occurred during the request operation.	JSON	Boolean
Validations	Boolean value indicating if any validation error is occurred during the request operation.	JSON	Boolean
Response	API response.	JSON	String
ServiceCharges	Service Charges / Tariff amount calculated against selected category	JSON	Decimal

3.5.1. Sample Request/Response Body

Request Body:

```
string ReqURL = @"https://codapi.daewoo.net.pk/";
      string myJson = @"{
    "destination_terminal_id" : "10",
    "qty" : "1",
    "weight" : "1.5"
}";
      string myMethod = @"api/booking/quickCalculateRate?apiKey=[API_KEY]&apiUser=[API_USER]
&apiPassword=[API_PASS]&trackingNo=[TRACKING_NO]";
      client.BaseAddress = new Uri(ReqURL);
      var content = new StringContent(myJson, Encoding.UTF8, "application/json");
      var result = client.PostAsync(myMethod, content);
      object resultContent = result.Result.Content.ReadAsStringAsync();
```

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Response Body:

```
{
    "Success": true,
    "Error": false,
    "Validations": true,
    "Response": "",
    "ServiceCharges": 208
}
```

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THANK YOU

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