

API Guide

Customer Order Request API

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1. Change Control

This section of the document contains the change control updates made to the content.

Table 1. Change Control Table

Ver sion	Date	Author	Changes	Change Status
1.0	10/01/2024		Authored Customer Order Request API Documentation.	Draft

Table 2. Distribution

Name	Title	Review/Approval
PSG Team Members	Implementation Analysts, Business Analyst	Review

The latest version of this document can be found on the Blume Global Documentation Central Repository.

2. Customer Order API Integration Guide

The latest version is: **v1.0**

This document outlines the Application Programming Interfaces (APIs) connected to the Blume Customer Orders. The API in this document is the Customer Order API. The booking API provides a set of methods or functions that can be called by the requesting application to perform specific actions, such as getting customer orders by the ID or filters, and creating, deleting, canceling, and updating customer orders.

2.1. Customer Order RESTful API

The document contains the following sections:

Introduction (on page 4) The primary audience for this document includes internal developers and partner developers who will integrate Customer Orders with their systems. Additionally, the supply chain manager may refer to this document for integration context. A basic understanding of APIs, Hyper Text Transfer Protocol (HTTP), and Representational State Transfer (REST) may be required to understand the concepts described in this document.	Documentation (on page 6) The Create Customer Order API is an electronic data exchange solution embedded within the Blume Logistics platform, empowering users to seamlessly generate customer orders. This API serves as a vital component in streamlining the order creation process, offering a standardized and efficient method for users to input and manage customer orders within the logistics ecosystem.
Field Description (on page 11) This section provides a list of attributes that appear with the documentation.	Error Codes (on page 34) This section provides a list of common error codes that appear with the documentation.

2.2. Where to Start

We strongly recommend you start with the [Introduction \(on page 4\)](#) to learn the structure of the Customer Order RESTful API.

3. Introduction

Blume provides an extensive list of APIs to manage the customer orders on our platform.

The Customer Order API provides a set of methods or functions that can be called by the requesting application to perform specific actions, such as getting bookings by the ID or filters, and creating, deleting, canceling, and updating customer orders.

3.1. API Guidelines

The following are the API Guidelines:

- All requests must include base URL
- Each request must be called with one of the HTTP verbs – GET, POST, PUT
- User must substitute valid values for mandatory and optional fields as and when required.
- All the request and request parameters are case sensitive
- Data is returned in JSON format
- API attempts to conform to the design principles of Representational State Transfer (REST) and relevant W3C HTTP/1.1 standards
- Only use UTF-8 characters encoding. Parameter values should be converted to UTF-8 and URL encoded according to W3C standards

3.2. Rate Limit

- All requests are subject to a rate limit
- Rate limiting restricts the number of times user can request resources from the API within a certain time window
- The default rate limit is 2000 requests per hour.
- If request exceed than defined rate limit, then HTTP "429 Too Many Requests" response will persist until the next hour begins.

3.3. External URL

To be whitelisted during implementation.

4. Create Customer Order API

The Create Customer Order API establishes a systematic approach to handling customer requests. It serves as the initial trigger for the order management workflow, ensuring accuracy and traceability throughout the entire order fulfillment lifecycle. The generated Order Number acts as a key reference for tracking and managing the progress of individual customer orders.

Table 3. Required Attributes

Request Parameter	Description
reference	Provide shipment number

4.1. Create Customer Order

Description of each field has been provided in the following table along with the APIs' expect or return, complete or partial create shipment.



Note: View the Field Description (*on page 11*) section for additional information on the attributes that are present in the JSON.

Service Name	URL	T ype	Descri ption	Input	Output
Create Shipment	/mbe/v1.0/createShipment	P OST	Create a Shipment	Shipment ent Json	Shipment business identifier with status SUCCESS or Failure

4.1.1. Sample Request to Create Customer Order

```
{
  "correlationId": "11111",
  "payload": {
    "createdBy": "Blume User",
    "originatorCode": "ARCB-EST",
    "shipmentNumber": "SHIPMENT0001",
    "mode": "DRAY",
    "legSequence": "1",
    "serviceType": "Door to Port",
    "shipmentStops": [
      {
```

```
"address": {
  "city": "Pleasanton",
  "state": "CA",
  "country": "US",
  "telephone": "9129672811",
  "postalCode": "94588",
  "contactName": "Main #",
  "addressLine1": "601 East 152Nd St"
},
"stopAction": "Pickup",
"stopNumber": 1,
"plannedArrivalStartDate": "01-01-2024 00:00",
"plannedDepartureStartDate": "01-01-2024 00:00"
},
{
  "address": {
    "city": "Dublin",
    "state": "CA",
    "country": "US",
    "telephone": "9528970216",
    "postalCode": "94578",
    "contactName": "Dave Schulenberg",
    "addressLine1": "4600 Prosper Dr",
    "contactEmail": "dschulenberg@tricam.com"
  },
  "stopAction": "Live Unload",
  "stopNumber": 2,
  "plannedArrivalStartDate": "01-20-2024 00:00",
  "plannedDepartureStartDate": "01-20-2024 00:00"
}
],
"portOfDischarge": "USSAV",
"portOfLoading": "DEHAM",
"portOfLoadingAddress": {
  "city": "Hamburg",
  "country": "DE",
  "state": "HH",
  "postalCode": "",
  "locationName": "Hamburg",
  "unlocode": "DEHAM"
},
"portOfDischargeAddress": {
  "city": "Savannah",
  "country": "US",
  "state": "GA",
  "postalCode": "",
  "locationName": "Savannah",
```

```
"unlocode": "USSAV"
},
"primaryCarrier": "",
"agentName": "",
"agentCode": "",
"incotermsCode": "",
"incotermsName": "",
"shipmentEquipments": [
  {
    "equipmentType": "40HC",
    "equipmentNumber": "CSQU3053208",
    "equipmentClass": "",
    "grossWeight": 50.55,
    "grossWeightUOM": "LB",
    "pieceCount": "45",
    "sealNumber": "SEAL1122",
    "packageType": "Box",
    "isRefrigerated": false
  },
  {
    "equipmentType": "40ST",
    "equipmentNumber": "CSQU3053999",
    "equipmentClass": "",
    "grossWeight": 50.55,
    "grossWeightUOM": "LB",
    "pieceCount": "45",
    "sealNumber": "SEAL1122",
    "packageType": "Box",
    "isRefrigerated": true
  }
],
"isHazmat": true,
"shipmentHazmats": [
  {
    "shippingNameQualifier": "International",
    "hazardousClassification": "9",
    "hazardousComments": "F-ES-E",
    "unNaCode": "UN3166",
    "weightUOM": "LB",
    "weight": "20",
    "hazmatCommodityDescription": "(UN3166 VEHICLE,FLAMMABL)"
  }
],
"importExportAttributes": {
  "vessel": "EVER CAST",
  "vesselCode": "9869978",
  "voyage": "0225-063A"
```



```
    },
    "shipmentParties": [
      {
        "partyType": "Shipper",
        "address": {
          "city": "Stow",
          "state": "",
          "country": "",
          "telephone": "9528970216",
          "postalCode": "44224",
          "addressLine1": "4600 Prosper Dr"
        },
        "partyName": "HONDA MOTOR CO LTD (TYO)",
        "partyCode": "CZ"
      },
      {
        "partyType": "Consignee",
        "address": {
          "city": "Stow",
          "state": "",
          "country": "",
          "telephone": "9528970216",
          "postalCode": "44224",
          "addressLine1": "4600 Prosper Dr"
        },
        "partyName": "HONDA MOTOR EUROPE LOGISTICS NV",
        "partyCode": "CN"
      }
    ],
    "masterWayBillNumber": "",
    "houseWayBillNumber": "",
    "shipmentNotes": [
      {
        "comments": "Comments1"
      },
      {
        "comments": "Comments2"
      }
    ],
    "customAttributes": "{\\"CarPlateNo\\":\\"\\",\\"DriverName\\":\\"\\",\\"DriverContact\\":\\"\\"}"
  }
}
```

4.1.2. Sample Response to Create Customer Order

5. Field Description

Attribute Names pertaining to date and time for example "createDttm" is represented as "MM-dd-yyyy HH:mm".



Attention: The field descriptions are for the reference purposes only.

The field descriptions for the attributes listed in the JSON code block are provided below:

- [Shipment \(on page 11\)](#)
- [Shipment Stops \(on page 16\)](#)
- [Port of Loading Address \(on page 19\)](#)
- [Port of Discharge Address \(on page 21\)](#)
- [Shipment Equipments \(on page 23\)](#)
- [Shipment Hazmats \(on page 26\)](#)
- [Import Export Attributes \(on page 28\)](#)
- [Shipment Parties \(on page 30\)](#)
- [Shipment Notes \(on page 32\)](#)

5.1. Shipment

Table 4. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
correlationId	String	Required	20		Can be any value, like 111,123	Correlation ID is for debugging and log analysis	Used for internal Purpose
createdBy	String	Optional	150			Created By Name	
originatorCode	String	Required	50			An identifier for the Originator office that is managing the shipment	
shipmentNumber	String	Required	100			Shipment number of leg	If the Shipment number is not provided, then the system will generate a Shipment number.
mode	String	Required	50		LCL,DRA Y,AIR-HEAD,AVY,LTL,T	Mode of a shipment	

Table 4. Field Description Table (continued)

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
					L,RAIL, FCL		
serviceType	String	Optional	50				
masterWayBillNumber	String	Optional	50			Master way bill number of a shipment	
houseWayBillNumber	String	Optional	50			House Way bill number of Ocean/Air shipment	
customAttributes	JSON	Optional			These additional attributes will be configured by implementation team and string will be provided during the implementation	Array of Name, Value pairs of pre-configured custom attributes	

Table 4. Field Description Table (continued)

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
					ntation phase.		
isHazmat	Boolean	Optional	1			Flag to set shipment is hazmat or no	
incoTerm Name	String	Optional	255		CIF – Cost Insurance and Freight (insert named port of destination)		
incoTerm Code	String	Optional	255			Incoterm code for International shipment.	
agentCode	String	Optional	20			Code of the Agent	
agentName	String	Optional	250			Name of the Agent	
primaryCarrier	String	Optional	100			Primary Carrier of transport	

Table 4. Field Description Table (continued)

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
						ation that is associated to the master shipment	
portOfDischarge	String	Optional	50			Code of Port of Discharge	
portOfLoading	String	Optional	50			Code of Port of Arrival	

5.2. Shipment Stops

Table 5. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
city	String	Required	50			City of shipment stop	
state	String	Required	100			State of shipment stop	
country	String	Required	100			country of shipment stop	
telephone	String	Optional	50			phone number	
postalCode	String	Required	20			Zip code of shipment stop	
contactName	String	Optional	100			Contact name	
addressLine1	String	Required	200			Address line 1 of shipment stop	
stopAction	String	Required	50		Live Load,Live Unload,Pickup,Delivery,Arrival,Departure,Return	Stop the activity happening on the shipment	

Table 5. Field Description Table (continued)

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
stopNumber	bigint	Required	2			Number of stops on the shipment	
plannedArrivalStartDate	datetime	Required				Local Planned Arrival Start Date and Time	Format: MMdd-yyyy HH:mm Example:12-14-2022 15:20
plannedDepartureStartDate	datetime	Optional				Local Planned Departure Start Date	Format: MMdd-yyyy HH:mm Example:12-14-2022 15:20

5.3. Port of Loading Address

Table 6. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
city	String	Optional	50				
state	String	Optional	100				
country	String	Optional	100				
telephone	String	Optional	50				
postalCode	String	Optional	20				
addressLine1	String	Optional	200				
unlocode	String	Optional	50				

5.4. Port of Discharge Address

Table 7. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
city	String	Optional	50				
state	String	Optional	100				
country	String	Optional	100				
telephone	String	Optional	50				
postalCode	String	Optional	20				
addressLine1	String	Optional	200				
unlocode	String	Optional	50				

5.5. Shipment Equipments

Table 8. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
equipmentType	String	Optional	20		Specify UCU (Unspecified container unit) if unknown.	Sets standard container code like 40ST etc.	22UP-20', Hardtop, 2528-Genet Underslung, 25GP-HIGH CUBE CONT
equipmentNumber	String	Optional	50			Container number	
equipmentClass	String	Optional	50			Class container belongs to	
grossWeight	String	Optional	20,2			gross weight of the container.	
grossWeightUOM	String	Optional	20		KG, LB	weight UOM	
pieceCount	String	Optional	10				
sealNumber	String	Optional	50			Seal Number of a container	

Table 8. Field Description Table (continued)

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
package Type	String	Optional	20			Type of Package	BAG, CASE
isRefrigerated	Boolean	Optional	1			indicates if the container is refrigerated	

5.6. Shipment Hazmats

Table 9. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
shippingNameQualifier	String	Optional	50				
hazardousClassification	String	Optional	50				
hazardousComments	String	Optional	500				
unNaCode	String	Optional	20				
weight	String	Optional	10,2				
weightUOM	String	Optional	10				
hazmatCommodityDescription	String	Optional	500				

5.7. Import Export Attributes

Table 10. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
vessel	String	Optional	100				
vesselCode	String	Optional	50				
voyage	String	Optional	100				

5.8. Shipment Parties

Table 11. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
partyType	String	Optional	50			Shipment Party Type	
partyName	String	Optional	250			Shipment Party Name	
partyCode	String	Optional	250			Shipment Party Code	
city	String	Optional	50				
state	String	Optional	100				
country	String	Optional	100				
telephone	String	Optional	50				
postalCode	String	Optional	20				
addressLine1	String	Optional	200				

5.9. Shipment Notes

Table 12. Field Description Table

Attribute Name	Type	Required/Optional/Conditional/Read Only	Max Length	Condition	Values	Description	Additional Notes
comments	String	Optional	4000			Any additional information related to the shipment.	

6. Error Codes



Note: Please email support@blumeglobal.com to speak with Blume Global Support if you require more information on specific error codes.

Table 13. Error Codes

HTTP	Error Code	Error Description
204	No Content	This status code indicates that the request was successfully processed, but there is no content to send in the response.
401	Unauthorized	Client authentication failed because the client is unknown, no client authentication was included, or an unsupported authentication method was used.
403	Forbidden	This status code means that the server understands the request but refuses to authorize it.
404	Not Found	This response code indicates that the server can't find the requested resource.

7. Appendix

Refer to your customer specific data requirements to ensure you are entering all information requested by your customer.

If you need a copy of your customer data requirements please contact Blume Global Support at support@blumeglobal.com.