



# Blume Visibility Milestones API Integration Guide (Push)

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## 1. Blume Visibility Milestones API Integration Guide (Push)

The latest version is: v1.0

This document outlines the Application Programming Interfaces (APIs) connected to the Blume Visibility™ system, known here into as "Visibility". The API in this document is the Shipment Milestone API. The purpose of this API is for the user to track shipments in Visibility.

#### 1.1. Milestone RESTful API

The document contains the following sections

and actual dates are provided by different sources like carriers or other third parties.

| #unique_2 (on page )  | Documentation (on page )  |
|---|---|
| includes internal developers and partner developers who will integrate Visibility with  | method for tracking shipments in the<br>Blume Visibility platform. This section also<br>provides the API guidelines that will need to |
| Milestones (on page )   | #unique_5 (on page )  |
| The Shipment Milestone API enables users to track a shipment through a series of events. An Event is something that changes the state of a shipment. We differentiate between three types of event dates; planned, estimated, and actual event dates. Planned dates are assessed automated based on historic system data. Estimated | This section provides a list of common error codes that appear with the documentation.  |





#### 1.2. Where to Start

We strongly recommend you start with the #unique\_2 (on page ) to learn the structure of the Milestone RESTful API.





## 2. Introduction

The primary audience for this document includes internal developers and partner developers who will integrate Visibility 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.





## 3. API Overview

Blume Delivers milestones data as and when new events are received.

#### 3.1. Domains

To be whitelisted during implementation.

The API Endpoint will be provided by the customer for Blume to deliver milestone data.





## 4. Shipment Milestones

Blume will provide the details of milestones to the customer as the events are received. An Event is something that changes the state of a shipment. We differentiate between three types of event dates; planned, estimated, and actual event dates. Planned dates are assessed automated based on historic system data. Estimated and actual dates are provided by different sources like carriers or other third parties. Events are defined by the event name. The event names apply to the different locations/stops of the respective shipment. Only the events mapped with the user's organization will be available. Shipments can be tracked using a container ID and a reference number.

#### 4.1. Shipment Mode Vs Reference Parameter

Shipments can be tracked using below reference numbers based on the mode of the shipment.

| Shipment Mode | Reference Parameter                              |
|---------------|--|
| Air           | HouseBill or MasterWayBillNumber                 |
| Ocean         | BookingNumber or billofLading                    |
| Dray          | WorkOrderNumber or BookingNumber or billofLading |
| Rail          | BookingNumber or billofLading                    |
| Parcel        | TrackingNumber                                   |
| LTL           | proNumber  |

## 4.2. Sample Data Format for the Shipment Milestone Details

Blume will provide the shipment milestone details to the customer in the following format:







```
"country": "VN",
    "latitude": 20.84491,
    "longitude": 106.68808,
    "timezone": "Asia/Bangkok",
   "milestones": [
            "eventCode": "AE",
            "eventName": "Container Load",
            "estimatedDate": "2022-09-08T21:00:00.000+00:00",
            "plannedDate": "2022-09-08T21:00:00.000+00:00"
        },
            "eventCode": "VD",
            "eventName": "Vessel Departure",
            "estimatedDate": "2022-09-09T00:00:00.000+00:00",
            "actualDate": "2022-09-07T20:34:00.000+00:00",
            "plannedDate": "2022-09-09T00:00:00.000+00:00"
   ]
},
   "stopNumber": 2,
   "locationType": "PORT",
   "location": "Yantian",
   "city": "Yantian",
    "state": "Fujian",
   "country": "CN",
    "latitude": 26.85000,
   "longitude": 119.86667,
    "timezone": "Asia/Shanghai",
    "milestones": [
            "eventCode": "CT",
            "eventName": "Customs Release"
        },
            "eventCode": "VA",
            "eventName": "Vessel Arrival",
            "estimatedDate": "2022-12-08T09:27:00.000+00:00",
            "plannedDate": "2022-09-11T05:00:00.000+00:00"
        },
            "eventCode": "UV",
            "eventName": "Container Unload",
            "estimatedDate": "2022-12-10T08:27:00.000+00:00",
            "plannedDate": "2022-09-13T04:00:00.000+00:00"
```







```
"eventCode": "AE",
            "eventName": "Container Load",
            "estimatedDate": "2022-12-12T06:27:00.000+00:00",
            "plannedDate": "2022-09-15T02:00:00.000+00:00"
        },
            "eventCode": "VD",
            "eventName": "Vessel Departure",
            "estimatedDate": "2022-12-12T09:27:00.000+00:00",
            "plannedDate": "2022-09-15T05:00:00.000+00:00"
   ]
},
   "stopNumber": 3,
   "locationType": "PORT",
    "location": "Long Beach",
   "city": "Long Beach",
    "state": "California",
   "country": "US",
    "latitude": 33.76667,
    "longitude": -118.18333,
    "timezone": "America/Los_Angeles",
    "milestones": [
       {
            "eventCode": "CT",
            "eventName": "Customs Release"
        },
            "eventCode": "VA",
            "eventName": "Vessel Arrival",
            "estimatedDate": "2023-01-06T11:27:00.000+00:00",
            "actualDate": "2022-09-27T20:34:00.000+00:00",
            "plannedDate": "2022-09-27T00:00:00.000+00:00"
        },
            "eventCode": "UV",
            "eventName": "Container Unload",
            "estimatedDate": "2023-01-08T10:27:00.000+00:00",
            "plannedDate": "2022-09-28T23:00:00.000+00:00"
            "eventCode": "CA",
            "eventName": "Container Available",
            "estimatedDate": "2023-01-08T10:27:00.000+00:00",
            "plannedDate": "2022-09-28T23:00:00.000+00:00"
```





```
}

1

1

}

1

}
```

## 4.3. Additional Sample Data Format for the Shipment Milestone Details

Blume will provide the shipment milestone details to the customer in the following format:

```
"shipmentStatus": "Active",
"reference": "BLMA02108937",
"unitId": "LCLU0228937",
"stops": [
   {
        "stopNumber": 1,
        "locationType": "DC",
        "location": "Rancho Cucamonga",
        "city": "Rancho Cucamonga",
        "state": "California",
        "country": "US",
        "latitude": 34.10000,
        "longitude": -117.58333,
        "timezone": "America/Los_Angeles",
        "milestones": [
                "eventCode": "X3",
                "eventName": "Pick Up",
                "estimatedDate": "2022-11-18T00:00:00.000+00:00",
                "plannedDate": "2022-11-17T23:00:00.000+00:00"
                "eventCode": "OA",
                "eventName": "Gate Out",
                "estimatedDate": "2022-11-18T01:00:00.000+00:00",
                "actualDate": "2022-11-18T10:00:00.000+00:00",
                "plannedDate": "2022-11-18T00:00:00.000+00:00"
        ]
    },
        "stopNumber": 2,
        "locationType": "DC",
```





```
"location": "Brownwood",
        "city": "Brownwood",
        "state": "Texas",
        "country": "US",
        "latitude": 31.70932,
        "longitude": -98.99116,
        "timezone": "America/Chicago",
        "milestones": [
                "eventCode": "I",
                "eventName": "Gate In",
                "estimatedDate": "2022-11-19T20:17:00.000+00:00",
                "plannedDate": "2022-11-19T10:17:00.000+00:00"
                "eventCode": "X1",
                "eventName": "Delivered",
                "estimatedDate": "2022-11-19T21:17:00.000+00:00",
                "plannedDate": "2022-11-19T11:17:00.000+00:00"
       ]
]
```

## 4.4. Field Description

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

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

**Table 1. Milestone API** 

| Attribute Name | Туре   | Max Length | Description                         |
|----------------|--------|------------|-------------------------------------|
| stopNumber     | bigint | 2          | Number of stops on the shipment leg |
| locationType   | string | 50         | Location Type of shipment           |
| location       | string | 200        | Location Name of<br>Shipment        |
| city           | string | 50         | City of shipment party              |





Table 1. Milestone API (continued)

| Attribute Name              | Туре     | Max Length | Description                                    |
|-----------------------------|----------|------------|--|
| state                       | string   | 20         | State name of shipment party                   |
| country                     | string   | 20         | Country Name of shipment party                 |
| latitude                    | decimal  | 20,5       | Latitude<br>coordinates of<br>location         |
| longitude                   | decimal  | 20,5       | Longitude<br>coordinates of<br>location        |
| timezone                    | string   | 3          | Name of the timezone                           |
| eventCode                   | string   | 10         | Identification code of the event               |
| eventName                   | string   | 255        | Name of the event                              |
| estimatedDate               | datetime |            | Estimated date and time for the milestone      |
| plannedDate                 | datetime |            | Planned date<br>and time for the<br>milestone  |
| actualDate                  | datetime |            | Actual date and time for the milestone         |
| purchaseOrderNum<br>ber     | string   | 50         | Represents<br>Purchase Order<br>Numbers (List) |
| masterShipmentRef<br>erence | string   | 100        | Represents<br>Shipment Number                  |
| partyTypeName               | string   | 100        | Represents Party<br>Type                       |
| partyName                   | string   | 250        | Represents the<br>Party Organization<br>Name   |





### Table 1. Milestone API (continued)

| Attribute Name          | Туре   | Max Length | Description   |
|-------------------------|--------|------------|---|
| partyCode               | string | 250        | Represents the<br>Party Organization<br>Code                      |
| billOfLading            | string | 255        | Represents the<br>BillOfLading Number                             |
| bookingNumber           | string | 100        | Represent the<br>Booking Number                                   |
| houseWayBillNum<br>ber  | string | 100        | Represents the<br>HouseBill Number                                |
| masterWayBillNum<br>ber | string | 100        | Represents the<br>Master Way Bill<br>Number/Airway Bill<br>Number |
| workOrderNumber         | string | 100        | Represents the<br>Work Order Number                               |
| proNmber                | string | 100        | Represents Pro<br>Number of the LTL<br>Shipments                  |
| trackingNumber          | string | 100        | Represents the<br>Tracking Number<br>of the Parcel<br>Shipments   |
| equipmentNumber         | string | 50         | Represents the<br>Container Id                                    |