Blume Visibility Get Event API Integration Guide (Push)

Contents

1. Blume Visibility Get Event RESTful 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 Get Event 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

Introduction *(on page 4)* 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.	Documentation *(on page 5)* The Get Event API provides users with an electronic data exchange method for tracking latest event in the Blume Visibility platform. This section also provides the API guidelines that will need to be followed.
Milestones *(on page 6)* The Get Event API enables users to track the latest event related to the shipment. 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.	#unique_5 *(on page)* 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 Introduction *(on page 4)* to learn the structure of the Get Event RESTful API.

2. Introduction

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 Get Event API. The purpose of this API is for the user to track the latest event locations in Visibility.

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.

2.1. Purpose of this Document

This API Integration Guide will aid the reader in implementing the Get Event API into a new or existing system. This document will serve the reader as the sole source of information for the Get Event API. Any additional documents referenced in this implementation guide will serve only as context and are not required readings to properly implement these APIs.

3. API Overview

The Get Event API provides users with an electronic data exchange method for tracking latest event in the Blume Visibility system.

3.1. Domains

To be whitelisted during implementation.

TBD

3.2. 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, PATCH.
- 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.

4. Get Event API

The Get Event API enables users to track the latest event related to the shipment. 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. The latest events can be tracked using a shipment number and originator code.

4.1. Get Event Details

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

Service Name	URL	Type	Description	Input	Output
Get Event Details	TBD	Push	Get Event detail via the shipment number and originator code.	Search Criteria	Get the event details for provided shipment number and originator code.

4.1.1. Sample Request to Get Event Details


```
 {
"eventCode": "AG",
"eventName": "Estimated Delivery",
"unitId": "ABCD755172",
"longitude": -123.1207375,
"latitude": 49.2827291,
"locationId": "d1c24544-1b57-490b-bd4d-221c6567a402",
"eventTime": "2022-05-02T00:00:00.000+00:00",
"city": "Vancouver",
"state": "BC",
"country": "CA",
"destinationCity": "",
"destinationState": "",
"carrierCode": "MSCU",
"unitTypeCode": "45G0",
"voyageNumber": "217A",
```

```
"vessel": "MSC CRISTINA",
"mode":"Rail",
"bookingNumber": "54u68k5w",
"originatorName":"XYZ Company"
}
```


4.2. Field Description

Attribute Names pertaining to date and time for example "eventddtm" 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. Get Event API

Attribute Name	Type	Max Length	Description
city	string	50	City of shipment party
state	string	20	State name of shipment party
country	string	20	Country Name of shipment party
latitude	decimal	20,5	Latitude coordinates of location
longitude	decimal	20,5	Longitude coordinates of location
eventCode	string	10	Identification code of the event
eventName	string	TBD	Name of the event
unitId	string	50	Identification number of the unit
locationId	string	TBD	Unique identification for a location
eventTime	datetime	TBD	Date and time of the event

Table 1. Get Event API (continued)

Attribute Name	Type	Max Length	Description
destinationCity	string	TBD	Destination city of shipment party
destinationState	string	TBD	Destination state name of shipment party
carrierCode	string	TBD	Identification code of the carrier
unitTypeCode	string	20	Sets standard container code like 40ST etc.
voyageNumber	string	TBD	Identification number of the voyage
vessel	string	TBD	Name of the vessel
mode	string	TBD	Mode of the shipment
bookingNumber	string	TBD	Booking Number
originatorName	string	TBD	Name of the Originator