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|  |  | Customs-Port Message Integration Specification Document |
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|  | Document Title | Customs-Port Message Integration Specification Document |
|  | Date of Release | 14th January 2022 |
|  | Version No. | Version 1.1 |
|  | Document Owner | CBIC-ICEGATE |

Document Change Approvals

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No.** | **Type of document** | **Type of change** | **Version** | **Creator** | **Update** |
| 1 | API Design Document | Original Version | V1.0 | CBIC | * Raw Document |
| 2 | API Design Document | Updated Version | V1.1 | CBIC | * Addition of Arrival Time (AT) API * Addition of Departure Time (DT) API * Addition of Stuffing (SF) API * Addition of Stripping (ST) API |

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­­Table of Contents

[1. Introduction 5](#_Toc93077715)

[2. Purpose of the Document 5](#_Toc93077716)

[3. Mode of Implementation 5](#_Toc93077717)

[3.1 Base 64 Encoded, Cryptographic & Digital Signature Approach 6](#_Toc93077718)

[4. Authentication and Authorization 6](#_Toc93077719)

[5. APIs to be Developed 7](#_Toc93077720)

[6. API Specification 7](#_Toc93077721)

[6.1 API communicating Conveyance Call Number (VCN) 7](#_Toc93077722)

[6.1.1 API Overview 8](#_Toc93077723)

[6.1.2 API Format 8](#_Toc93077724)

[6.1.3 POST API Format – Posting VCN data to ICEGATE 9](#_Toc93077725)

[6.1.4 POST API Format – VCN acknowledgement sent to Port 15](#_Toc93077726)

[6.1.5 Error Code with Description 20](#_Toc93077727)

[6.2 ATE – Actual Time Event - API Reporting actual Arrival / Departure Time 20](#_Toc93077728)

[6.2.1 API Overview 20](#_Toc93077729)

[6.2.2 POST API Format – To post Arrival/Departure Details to Customs 21](#_Toc93077730)

[6.2.3 POST API Format – Arrival/Departure Details Acknowledgment 27](#_Toc93077731)

[6.2.4 Arrival Time JSON Schema and Sample 30](#_Toc93077732)

[6.2.6 Error Code With Description 30](#_Toc93077733)

[6.3 ELR API - API Reporting Equipment Landed / Loaded Report 31](#_Toc93077734)

[6.3.1 API Overview 31](#_Toc93077735)

[6.3.2 POST API Format – To post Equipment Landed/Loaded Data to Customs 31](#_Toc93077736)

[6.3.3 POST API Format – Equipment Landed/Loaded Details Acknowledgment 37](#_Toc93077737)

[6.3.4 Equipment Landed JSON Schema and Sample 40](#_Toc93077738)

[6.3.6 Error Code With Description 40](#_Toc93077739)

[6.4 CCM API – API Reporting Custom Control Message (EI, EO, PC, CH) 41](#_Toc93077740)

[6.4.1 API Overview 41](#_Toc93077741)

[6.4.2 API Format 42](#_Toc93077742)

[6.4.3 First POST API 42](#_Toc93077743)

[6.4.4 Second POST API 45](#_Toc93077744)

[6.4.5 CCM API – API Reporting Customs Control Message (EI,EO,PC)) – Schema & Sample files 49](#_Toc93077745)

Introduction

Ports play vital role in the overall economic development. About 95 percent by volume and 70 percent by value of the India’s international trade is carried on through maritime transport.

To enabling secure exchange of information between public and private stakeholders w.r.t. port to improve the port operations, an open electronic platform has been envisaged to be developed for port operation. The system optimizes, manages and automates port and logistics processes operate at ports through online submission of data.

# Purpose of the Document

To cover business requirement of ports, an integrated solution is proposed to be developed for to handling of port operations. The communication between Ports & Indian Customs is a two-way communication:

* For all Inbound messages to Customs from Ports, Customs will develop Post API and expose them to Ports­­. Ports will invoke the Customs API to transmit data based on the events defined in this document.

Upon receipt of this data, Indian Customs will update its database and make available an ACK to Ports. e.g. – VCN

* For all Outbound messages from Customs to Ports, ICEGATE will develop and expose the POST API­­. Ports system will invoke the POST API to fetch the data based on the events defined in this document.

Upon receipt of this data Ports will store the data in its database and send an ACK back to Customs.

The document mentioning the details of the APIs to be exchanged between Custom & Port System. The content of this document is meant to act as a guideline for exchanging details through API from both the end.

# Mode of Implementation

Real time RESTful APIs will be developed at both the ends (Ports and ICEGATE). Following are the APIs to be developed:

1. Two POST APIs shall be developed for each of the following three messages, first API to post the data to Customs and second API (ACK API) to get the acknowledgment of the first API request:
   1. Communication of Conveyance Call Number (e.g VCN)
   2. Intimation of Actual Time of Arrival/Departure of Conveyance
   3. Intimation of Transport Equipment’s Landed/Loaded in the conveyance

**POST API Usage** - The API will be developed & exposed by ICEGATE, Ports will consume the same.

1. Two POST APIs shall be developed for Customs Control Messages (e.g Entry Inwards, Entry Outwards etc.):
   1. First API is to get the details in bulk
   2. Second API is to get the status of individual record

**POST APIs Usage:** These APIs shall be developed & exposed by ICEGATE and Ports will consume the same.

**Each payload and Acknowledgement from the respective senders will be base 64 encoded and digitally signed.**

## Base 64 Encoded, Cryptographic & Digital Signature Approach

**Stage 1: At Sender – Sharing the Payload with ICEGATE**

1. Payload will be generated at Sender’s end and the same will be digitally signed by signer utility
2. Signed payload shall be encrypted with AES 256 bit encryption algorithm (with Secret key, which would be of 32 bit).
3. Encrypted payload will be encoded using base64 encoder

**Stage 2. At Receiver – Receiver of the Payload**

1. Received encoded payload will be decoded with base64 decoder. Outcome will be encrypted payload
2. Encrypted payload will be decrypted using AES 256 bit decryption algorithm with shared Secret key. Outcome will be signed payload
3. Signed payload will be verified at receiver end using verify utility.

**NOTE: Secret Key will be shared by ICEGATE to Ports, which is a onetime setup.**

# Authentication and Authorization

* Oauth2.0 used for ensuring Client reliability and to define access rights.
* Client application needs to be registered at Custom External API Gateway.
* CBIC External API Gateway enabled Oauth 2.0 Authentication and Authorization Servers. To post the data in ICEGATE, sender need to invoke Auth API with registered client-id and JWT token
* Post user validation by CBIC API Gateway, Access-Token will be generated and shared with requesting party, as a response of their invoking request.
* Payload shared through REST POST request, hit the Custom interface with bearer (Access-Token), for storing Payload Data at ICEGATE end.

# APIs to be Developed

Following APIs shall be developed as a part of the API integration:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No.** | **Message ID** | **API Description** | **Message flow** | **Exposed By** | **Invoked By** |
| 1 | PCCHC01 | Communication of Conveyance Call Number (e.g VCN) | Port to Customs | ICEGATE | Port (Request submitted through **POST** method) |
| PCCHC01 Ack | Acknowledgment of Communication of Conveyance Call Number (e.g VCN) | Customs to Port | ICEGATE | Port (Request submitted through **POST** method) |
| 2 | PCCHC02 | Intimation of Actual Time of Arrival/Departure of Conveyance | Port to Customs | ICEGATE | Port (Request submitted through **POST** method) |
| PCCHC02 Ack | Acknowledgment of Intimation of Actual Time of Arrival/Departure of Conveyance | Customs to Port | Port (Request submitted through **POST** method) |
| 3 | PCCHC03 | Intimation of Transport Equipment’s Landed/Loaded in the conveyance | Port to Customs | ICEGATE | Port (Request submitted through **POST** method) |
| PCCHC03 ACK | Acknowledgement of Intimation of Transport Equipment’s Landed/Loaded in the conveyance | Customs to Port | Port (Request submitted through **POST** method) |
| 4 | PCCHC04 | To get the count of the records regarding Customs Controls (e.g Entry Inwards, Entry Outwards, Port Clearance) | Customs to Port | ICEGATE | Port (Request submitted through **POST** method) |
| PCCHC04 Ack | To get the individual record on the inputs received in First API using some fields | Customs to Port | Port (Request submitted through **POST** method) |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |

# API Specification

## 5.1 API communicating Conveyance Call Number (VCN)

This API will be invoked by sender to post data to Custom. Upon receiving the request for Voyage Registration (CALINF) from the Authorized Sea Carrier / Authorized Sea Agent, port generate Voyage Number Which will share with Custom for further processing. Ports will share these details to ICGEATE through API post receiving CALINV EDI request message from the port after receiving approval of competent port authority.

### 5.1.1 API Overview

CBIC exposed POST API to take payload from the Ports application on real time basis.

Ports application will invoke this API when ready to push the details to Custom. As a response, ACK will sent back to Ports.



### 5.1.2 API Format

This section describes standard format which will be used to define API exposed at CBIC interface. This API will be published as stateless REST API over HTTPS.

Below table depicts the URI pattern to be used, content type, payload while defining API end points along with API response:

|  |  |
| --- | --- |
| API Endpoint | Defined by Custom |
| Method Type | POST |
| Content Type | Application / JSON |
| URL Description | |
| http/https | All API will be published in production over HTTPS only. HTTP protocol will be used in non-production environments. |
| domain-name | Domain name of Custom API Gateway |
| *Request Validation Header* | |
| Access Bearer | Used for sender validation at receiver end |
| Request Number | Request ID |
| Request Date & Time | Request date & time |
| Service Number | Service ID |
| Channel Number | Customs Channel ID |
| Flag | Test (T) / production (P) indicator |
| Requestor ID | ICEGATE ID of the Requestor |

**Request Payload**

All the request parameters for this API shall be sent with POST request. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser request shall have the following parameters:

| **Parameter** | **Description** |
| --- | --- |
| Bearer/Access-Token/Client-ID | Sender will obtain this parameter post successful validation at CBIC external API Gateway with Client-Id and Password. |
| Payload Data | Payload generated as per defined schema at stakeholder/partner end. This data will be encoded, digitally signed and encrypted as per the SOP approach.  Request Sample JSON and Schema have listed for each API payload. |

### 5.1.3 POST API Format – Posting VCN data to ICEGATE

**Request Payload Header:**

Payload header detailing the type of document exchanged, reference number, sender & receiver identity may along with the IDs of notified parties.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | PCCHC01  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by sender  ( NUMBER (35) ) |
| Sender ID | ICEGATE ID of Terminal Operator Code  ( VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  ( VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all)  ( VARCHAR2 (10) ) |

#### 6.1.3.1 Attributes Details – Request Payload

| Attribute Name | Data Type & Length | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the requestor |
| Record Type | CHAR (1) | M | Record/Message type may be one of the following:  FRESH - F  Cancel – C |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| Mode Of Transport | VARCHAR2(4) | M | Mode of Transport used for crossing the Border/Movement, Coded  Values:1- Sea, 2- Rail, 3- Truck, 4- Air |
| Type of Transport Means | VARCHAR2(2) | M | The type of identifier of the means of transport used in crossing the border/Movement, coded.  Values: Refer below Code List Table – A |
| Identity of the Transport Means | VARCHAR2(25) | M | Unique identifier for ships / registered ship management companies. Values will be: IMO/IATA/Lloyd  **This would normally be 7 digit IMO Number for vessel movement** |
| Vessel Code (Call sign) | VARCHAR2(25) | O | **Check if available in VCN** |
| Voyage Number | VARCHAR2 (10) | M | Unique number assigned by Operator for a voyage |
| Type of Vessel | VARCHAR2(8) | M | E – Empty Vessel C – With Cargo  For Vessel Type C – At least one Cargo line must be filed. Also for Containerized cargo, at least one Container line must be filed. |
| Purpose of Call | VARCHAR2(3) | M | Standard Code Available  Values: Refer Table-B below |
| Shipping Agent Code | VARCHAR2 (17) | O | Shipping Agent Code |
| Line Code | VARCHAR2 (17) | M | MLO Code |
| Terminal Operator Code | VARCHAR2 (17) | M | Code of Terminal Operator |
| Port Code | CHAR (6) | M | Port Code of Reporting |
| Expected Date and Time of Arrival (EDTA) | TIMESTAMP | M | The date and time the ship is estimated to arrive at the port of Call. |
| Expected Date and Time of Departure (EDTD) | TIMESTAMP | M | The date and time the ship is estimated to depart at the port of call. |
| Service Name | VARCHAR2(10) | O |  |
| Allotment Date | DATE | M | Voyage Number Allotment Date |

#### 6.1.3.2 Response Payload

Below table depicts the proposed URL, content type, payload while sending API response:

|  |  |
| --- | --- |
| API response endpoint URL | URL defined by ICEGATE |
| Method | POST |
| Content Type | Application/JSON |
| *URL Description* | |
| http/https | All API will be published in production over HTTPS only. HTTP protocol will be used in non-production environments. |

**Response Data**

Synchronous Response parameters for this API shall be sent with POST. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

Response from CBIC system for this API will be in the following format:

| Parameter | Description |
| --- | --- |
| Requestor ID | ICEGATE ID of the Requestor |
| Common Reference Number | Common Reference Number of request cluster |
| ACK-ID | Generated at Custom end for every transaction, post receiving the data |
| Request Status | Error Code of the status. It is the structural validation of the payload at ICEGATE before inserting the data into database (to be provided by ICEGATE)  SCERR01 error code will be used, if any error occurred. |
| Status Description | ACK Message - Data successfully inserted into database  NAK Message – Data insertion has been failed |

**Attribute Details**

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Common Reference Number | VARCHAR2(25) | M | Common Reference Number of request cluster |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |
| REQUEST STATUS | VARCHAR2(6) | M | 000 for success, else error code along with error appropriate brief will be provided. |
| STATUS DESCRIPTION | VARCHAR2(30) | M | ACK Message - Data successfully inserted into database  NAK Message – Data insertion has been failed |

ACK Response

{

  "status": "success",

  "errorCode": "000",

  "comRefNum": "2019062649815390",

  "message": "data integrated",

  "senderID": "Port ICEGATEID ",

  "ackID": "20081916573396467746447453813"

}

NAK Response

{

  "status": "failure",

  "errorCode": "SCERR01",

  "comRefNum": "2019062649815390",

  "message": "Schema Validation Failed due to bellow Error:\r\n\r\nerror: object has missing required properties ([\"icegatePayload\"])\n    level: \"error\"\n    schema: {\"loadingURI\":\"#\",\"pointer\":\"\"}\n    instance: {\"pointer\":\"\"}\n    domain: \"validation\"\n    keyword: \"required\"\n    required: [\"icegatePayload\"]\n    missing: [\"icegatePayload\"]\ninValid json file",

  "senderID": "Port ICEGATEID",

  "ackID": "2008191656917722894179565488"

}



### 5.1.4 POST API Format – VCN acknowledgement sent to Port

**Request Payload Header:**

Payload header detailing the type of document exchanged, reference number, sender & receiver identity may along with the IDs of notified parties.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | PCCHC01  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by sender  ( NUMBER (35) ) |
| Sender ID | ICEGATE ID Terminal Operator Code  ( VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  ( VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all)  ( VARCHAR2 (10) ) |

#### 5.1.4.1 Attributes Details – Request Payload

| Attribute Name | Data Type & Length | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |

#### 6.1.4.2 Response Payload

Below table depicts the proposed URL, content type, payload while sending API response:

|  |  |
| --- | --- |
| API response endpoint URL | URL defined by ICEGATE |
| Method | POST |
| Content Type | Application/JSON |
| *URL Description* | |
| http/https | All API will be published in production over HTTPS only. HTTP protocol will be used in non-production environments. |

**Response Data**

Synchronous Response parameters for this API shall be sent with POST/GET. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

| **Parameter** | **Description** |
| --- | --- |
| Response Payload Data | Data generated as per defined response schema at receiver end. This data will be digitally signed then encrypted and encoded as per the SOP approach. |

**Attribute Details**

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Status | VARCHAR2(15) | M | ACK Status post consumption of Payload |
| Error Code | VARCHAR2(6) | M | 000 for success, else error code along with error appropriate brief will be provided. |
| Message | VARCHAR2(25) | M | ACK Msg - Data Integrated  NAK Msg - Data not Integrated |
| Common Reference Number | VARCHAR2(25) | M | Common Reference Number of request cluster |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |
| Manifest Number/Rotation Number | VARCHAR2 (15) | O | Initially Manifest Number will be Optional in VCN. It may be Mandatory in future, if required. |
| Manifest Date/Rotation Date | DATE | O | Date of generation of Manifest Number |

ACK Response

{

"status": "success",

"errorCode": "000",

"CommonRefNumber": "2019031955489454",

"Message”: "Data Integrated",

”Requestor ID”: ”JNPT”,

”ackId”: ”xyz”,

”manifestNumber/rotationNumber”: ”123456789”,

”manifestDate/rotationDate”: ”19/05/2019”

}

NAK Response

{

"status": "failure",

"errorCode": "109",

"CommonRefNumber": "2019031955489454",

"Message”: "Data not Integrated",

”Requestor ID”: ”JNPT”

”ackId”: ”xyz”

”manifestNumber/rotationNumber”: ”123456789”

”manifestDate/rotationDate”: ”19/05/2019”

}

Table A: Code List for Type-of-Transport-Means

|  |  |
| --- | --- |
| Code | Value |
| 10 | IMO ship identification number |
| 11 | Sea Going Vessel, not requiring IMO Registration |
| 20 | Wagon number |
| 30 | Registration number of the road vehicle |
| 40 | IATA flight number |
| 41 | Registration number of the aircraft |

Table B: Purpose-of-Call Values

|  |  |
| --- | --- |
| **Code** | **Description** |
| 1 | Cargo operations |
| 2 | Passenger movement |
| 3 | Taking bunkers |
| 4 | Changing crew |
| 5 | Goodwill visit |
| 6 | Taking supplies |
| 7 | Repair |
| 8 | Laid-up |
| 9 | Awaiting orders |
| 10 | Miscellaneous |
| 11 | Crew movement |
| 12 | Cruise, leisure and recreation |
| 13 | Under government order |
| 14 | Quarantine inspection |
| 15 | Refuge |
| 16 | Unloading cargo |
| 17 | Loading cargo |
| 18 | Repair in dry dock |
| 19 | Repair in wet dock |
| 20 | Cargo tank cleaning |
| 21 | Means of transport customs clearance |
| 22 | Degassing |
| 23 | Waste disposal |

### 5.1.5 Error Code with Description

|  |  |  |  |
| --- | --- | --- | --- |
| **Message ID** | **Error Cd** | **Error Description** | **Flag** |
| PCCHC01 | 001 | Entity Type is null or Invalid | F |
| PCCHC01 | 002 | Message type is not in F or C | F |
| PCCHC01 | 003 | Voyage Call no is null | F |
| PCCHC01 | 004 | Mode of Transport is null or Invalid | F |
| PCCHC01 | 005 | Types of Transport mean is null or Invalid | F |
| PCCHC01 | 006 | Transport Mean identity is null or Invalid | F |
| PCCHC01 | 007 | Invalid vessel code | F |
| PCCHC01 | 008 | voyage no is null or Invalid | F |
| PCCHC01 | 009 | Shipping agent code is invalid | F |
| PCCHC01 | 010 | MLO Code is null or invalid | F |
| PCCHC01 | 011 | TO code is null or Invalid | F |
| PCCHC01 | 012 | Port Code is null or Invalid | F |
| PCCHC01 | 013 | EDTA is null | F |
| PCCHC01 | 014 | Voyage Allotment date is null | F |
| PCCHC01 | 015 | Purpose of call is null or Invalid | F |

## 5.2 ATE – Actual Time Event - API Reporting actual Arrival / Departure Time

This API will be invoked by Port, after Arrival of Vessel at Port of Origin. Port Terminal Operator will share this information with Port and Port push the details to Custom post approval of competent authority.

Events are:

1. AT – Arrival
2. AD - Departure

### 5.2.1 API Overview

CBIC exposed POST API to receive ATA details with the Port application on real time basis.

Port application will invoke this API when they are ready to push the details at Custom end. As a response, ACK / NAK will be sent back to Port.

­­



### 5.2.2 POST API Format – To post Arrival/Departure Details to Customs

Payload header includes the information that is being exchanged such as the type of document exchanged, reference number, sender & receiver identity may along with the IDs of parties need to be notified.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | TOCHI02  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by sender  ( NUMBER (35) ) |
| Sender ID | ICEGATE ID of Terminal Operator Code  ( VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  ( VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all)  ( VARCHAR2 (10) ) |

#### 6.2.2.1 Attributes Details – Request Payload

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Record Type/Message Type | CHAR (1) | M | Record/Message type may be one of the following:  FRESH - F  Cancel – C |
| Port Code | CHAR (6) | M | Port Code of Reporting |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| Terminal Operator Code | CHAR (10) | M | TO Code |
| Reporting Event | CHAR (4) | M | PLB/ATA/DEP  (PLB – Pilot Boarded on Arrival,  ARR – All Arrival Time till Cast off,  DEP – All Departure Time till reported by Harbour Master |
| Type of Transport Means | VARCHAR2(2) | M | The type of identifier of the means of transport used in crossing the border/Movement, coded.  Values: Refer below Code List Table – A |
| Identity of the Transport Means | VARCHAR2(25) | M | Unique identifier for ships / registered ship management companies. Values will be: IMO/IATA/Lloyd  This would normally be 7 digit IMO Number for vessel movement |
| Berth Number | VARCHAR2 (6) | M | Number allocated on berthing of vessel  (needed in case of Departure only) |
| Manifest Number/Rotation Number | VARCHAR2(15) | O | The Unique ID generated by Customs for filed Manifest |
| Manifest Date/Rotation Date | Date | O | Date of generation of Manifest Number |
| AR of Terminal Operator (PAN) | VARCHAR2 (17) | O | Authorized Representative of Terminal Operator. (PAN of AR) |
| Arrival / Departure Time reported by TO | TIMESTAMP (YYYY-MM-DD HH:MM:SS) | M | Pilot-Boarded / Complete-Departure Time-Stamp after Arrival / Departure at / from, Port of Call, reported by Terminal Operator  (Note - Departure done by harbor master, not by Port Operators) |
| Final/Amends Arrival / Departure Time (other Timestamp) | ARRAY [EVENT\_CODE, TIMESTAMP] | O | Array of all amends timestamps (final timestamp).  Would be incorporated as 2nd Trigger  1st Trigger – will be Arrival / Departure time, which is Mandatory as in above row  Values would be like:   1. Time of Berthing 2. Anchoring Time 3. Sailing Time 4. Time of Un-Berthing 5. Arrival Time |

#### 6.2.2.2 Response Payload

Below table depicts the proposed URL, content type, payload while sending API response:

|  |  |
| --- | --- |
| API response endpoint URL | URL defined by ICEGATE |
| Method | POST |
| Content Type | Application/JSON |
| *URL Description* | |
| http/https | All API will be published in production over HTTPS only. HTTP protocol will be used in non-production environments. |

**Response Data**

Synchronous Response parameters for this API shall be sent with POST. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

**Attribute Details**

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Common Reference Number | VARCHAR2(25) | M | Common Reference Number of request cluster |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |
| REQUEST STATUS | VARCHAR2(6) | M | 000 for success, else error code along with error appropriate brief will be provided. |
| STATUS DESCRIPTION | VARCHAR2(30) | M | ACK Message - Data successfully inserted into database  NAK Message – Data insertion has been failed |

**Synchronous Response from Customs**

ACK Response

{

"status": "success",

"errorCode": "000",

"CommonRefNumber": "2019031955489454",

"Message”: "Request Processed",

”Requestor ID”: ”JNPT”,

”ackId”: ”1234567890123456”,

}

NAK Response

{

  "status": "failure",

  "errorCode": "SCERR01",

  "comRefNum": "2019062649815390",

  "message": "Schema Validation Failed due to bellow Error:\r\n\r\nerror: object has missing required properties ([\"icegatePayload\"])\n    level: \"error\"\n    schema: {\"loadingURI\":\"#\",\"pointer\":\"\"}\n    instance: {\"pointer\":\"\"}\n    domain: \"validation\"\n    keyword: \"required\"\n    required: [\"icegatePayload\"]\n    missing: [\"icegatePayload\"]\ninValid json file",

  "requestorID": "JNPT",

  "ackid": "1234567890123456",

}

### 5.2.3 POST API Format – Arrival/Departure Details Acknowledgment

**Request Payload Header:**

Payload header detailing the type of document exchanged, reference number, sender & receiver identity may along with the IDs of notified parties.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | TOCHI02 ACK/NACK  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by sender  ( NUMBER (35) ) |
| Sender ID | ICEGATE ID Terminal Operator Code  ( VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  ( VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all)  ( VARCHAR2 (10) ) |

#### 6.2.3.1 Attributes Details – Request Payload

| Attribute Name | Data Type & Length | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |

#### 6.2.3.2 Attributes Details – Response Payload

**Response Data**

Synchronous Response parameters for this API shall be sent with POST/GET. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

| **Parameter** | **Description** |
| --- | --- |
| Response Payload Data | Data generated as per defined response schema at receiver end. This data will be digitally signed then encrypted and encoded as per the SOP approach. |

**Attribute Details**

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Status | VARCHAR2(15) | M | ACK Status post consumption of Payload |
| Error Code | VARCHAR2(6) | M | 000 for success, else error code along with error appropriate brief will be provided. |
| Message | VARCHAR2(25) | M | ACK Msg - Data Integrated  NAK Msg - Data not Integrated |
| Common Reference Number | VARCHAR2(25) | M | Common Reference Number of request cluster |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |

ACK Response

{

"status": "success",

"errorCode": "000",

"CommonRefNumber": "2019031955489454",

"Message”: "Data Integrated",

”Requestor ID”: ”JNPT”,

”ackId”: ”xyz”,

}

NAK Response

{

"status": "failure",

"errorCode": "109",

"CommonRefNumber": "2019031955489454",

"Message”: "Data not Integrated",

”Requestor ID”: ”JNPT”

”ackId”: ”xyz”

}

### 5.2.4 Arrival Time JSON Schema and Sample



### 5.2.6 Error Code With Description

|  |  |  |  |
| --- | --- | --- | --- |
| **Message ID** | **Error code** | **Error Description** | **Flag** |
| PCCHC02 | 001 | Entity Type is null or Invalid | F |
| PCCHC02 | 002 | Message type is not in F/C/S/D | F |
| PCCHC02 | 003 | Port Name is null or Invalid | F |
| PCCHC02 | 004 | Voyage Call No is null or Invalid | F |
| PCCHC02 | 005 | Identity of Transport mean is null or Invalid | F |
| PCCHC02 | 006 | Type of Transport means is null or Invalid | F |
| PCCHC02 | 007 | Rotn No/ Date is null or Invalid | F |
| PCCHC02 | 008 | AR of Terminal Operator (PAN) is null | F |
| PCCHC02 | 009 | Event Code not in PLB/ATA/DEP or null | F |
| PCCHC02 | 010 | Terminal Operator Code is null or Invalid | F |
| PCCHC02 | 011 | Reporting Event is null | F |

## 5.3 ELR API - API Reporting Equipment Landed / Loaded Report

This API will be invoked by Ports, after Arrival of Vessel at Port of Origin. Port Terminal Operator will share this information with Ports and Ports push the details to Custom post approval of competent authority.

### 5.3.1 API Overview

CBIC exposed POST API to receive event timestamp details with the Ports application on real time basis.

Ports application will invoke this API when they are ready to push the details at Custom end. As a response, ACK / NAK will be sent back to Ports.



### 5.3.2 POST API Format – To post Equipment Landed/Loaded Data to Customs

Payload header includes the information that is being exchanged such as the type of document exchanged, reference number, sender & receiver identity may along with the IDs of parties need to be notified.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | TOCHI03  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by Ports/ sender  (NUMBER (35) ) |
| Sender ID | ICEGATE ID of Terminal Operator Code  (VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  (VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all )  ( VARCHAR2 (10) ) |

#### 6.3.2.1 Attributes Details – Request Payload

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Record Type | CHAR (1) | M | Record/Message type may be one of the following:  Fresh - F  **SUPPLEMENT - S (**This event will provide the detail of the subsequent equipment landed/loaded)  Cancel – C  Reconciliation – R  **How it works:**  The very first stock of the equipment will be captured as Fresh (F), then subsequent landing/loading of the equipment will be captured in Supplement (S), Cancel equipment’s will be captured in Cancel (C). Reconciliation (R) event must contain all the equipment’s details.  ***F+S-C=R*** |
| Port Code | CHAR (6) | M | Port Code of Reporting |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| Identity of the Transport Means | VARCHAR2(25) | M | Unique identifier for ships / registered ship management companies. Values will be: IMO/IATA/Lloyd  This would normally be 7 digit IMO Number for vessel movement |
| Total No. of Containers Landed / Loaded (TO) | NUMBER (5) | M | Total Number of transport equipment’s Loaded/Landed by TO |
| Total No. of Transport Equipment Reported in current message | NUMBER (5) | M | The Count of Transport Equipment reported on the Arrival / Departure in current message |
| Landing / Loading Complete Time by TO | TIMESTAMP (YYYY-MM-DD HH:MM:SS) | M | The Actual Time of Completion of Loading / Landing of Cargo as reported by Authorized Terminal Operator |
| Manifest Number/Rotation Number | VARCHAR2(15) | O | The Unique ID generated by Customs for filed Manifest |
| Manifest Date/Rotation Date | Date | O | Date of generation of Manifest Number |
| FLAG | VARCHAR2 (7) | M | Following will be the values:  1. Equipment Landed  2. Equipment Loaded |
| Equipment Details | ARRAY [EQUIPMENT TYPE, EQUIPMENT NUMBER, EQUIPMENT SEQUENCE NO, EQUIPMENT DAMAGE INDICATOR, DESCRIPTION OF DAMAGE EQUIPMENT, CONTAINER WEIGHT (VGM), EQUIPMENT SEAL TYPE, DIMENSION CODE, OVER DIM LENGTH, OVER DIM WIDTH, OVER DIM HEIGHT] | M | List of equipment with their details |

**Details of the attributes in ‘Equipment Details’ array:**

|  |  |  |  |
| --- | --- | --- | --- |
| Equipment Type | VARCHAR2 (3) | M | The Code specifying the type of the Equipment used for Transport.  EDIFACT 8053:  BB-Breakbulk,  BL- Blocks  CH – Chassis,  CN - Container,  OBE -  Onboard  Container,  TE - Trailer |
| EQUIPMENT NUMBER | VARCHAR2(30) | M | Equipment Number/Container Number |
| Equipment sequence no | NUMBER (5) | M | The Serial number of Equipment/Container |
| Equipment damage indicator | CHAR (3) | O |  |
| Description of Damage Equipment | VARCHAR2 (250) | O |  |
| Container Weight (VGM) | NUMBER (14, 2) | M | The Verified Gross Mass (VGM) is the weight of the cargo including dunnage and bracing plus the tare weight of the container carrying this cargo. |
| Equipment Seal Type | VARCHAR2 (5) | M | The Type of Seal used for affixing to a Transport Equipment  1- In Right condition,  2- Damaged |
| Dimension Code | CHAR (3) | O | Dimension Code ( in case of over dimension container only) \*(6145) |
| Over Dim Length | NUMBER (8,2) | O | Over Dimension Length |
| Over Dim Width | NUMBER (8,2) | O | Over Dimension Width |
| Over Dim Height | NUMBER (8,2) | O | Over Dimension Height |

**Synchronous Response from Customs**

ACK Response

{

"status": "success",

"errorCode": "000",

"CommonRefNumber": "2019031955489454",

"Message”: "Request Processed",

”Requestor ID”: ”JNPT”,

”ackId”: ”1234567890123456”,

}

NAK Response

{

  "status": "failure",

  "errorCode": "SCERR01",

  "comRefNum": "2019062649815390",

  "message": "Schema Validation Failed due to bellow Error:\r\n\r\nerror: object has missing required properties ([\"icegatePayload\"])\n    level: \"error\"\n    schema: {\"loadingURI\":\"#\",\"pointer\":\"\"}\n    instance: {\"pointer\":\"\"}\n    domain: \"validation\"\n    keyword: \"required\"\n    required: [\"icegatePayload\"]\n    missing: [\"icegatePayload\"]\ninValid json file",

  "requestorid": "Port ICEGATEID",

  "ackid": "1234567890123456"

}

### 5.3.3 POST API Format – Equipment Landed/Loaded Details Acknowledgment

**Request Payload Header:**

Payload header detailing the type of document exchanged, reference number, sender & receiver identity may along with the IDs of notified parties.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | TOCHI02 ACK/NACK  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by sender  ( NUMBER (35) ) |
| Sender ID | ICEGATE ID Terminal Operator Code  ( VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  ( VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all )  ( VARCHAR2 (10) ) |

#### 6.3.3.1 Attributes Details – Request Payload

| Attribute Name | Data Type & Length | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |

#### 6.3.3.2 Attributes Details – Response Payload

**Response Data**

Synchronous Response parameters for this API shall be sent with POST. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

| **Parameter** | **Description** |
| --- | --- |
| Response Payload Data | Data generated as per defined response schema at receiver end. This data will be digitally signed then encrypted and encoded as per the SOP approach. |

**Attribute Details**

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Status | VARCHAR2(15) | M | ACK Status post consumption of Payload |
| Error Code | VARCHAR2(6) | M | 000 for success, else error code along with error appropriate brief will be provided. |
| Message | VARCHAR2(25) | M | ACK Msg - Data Integrated  NAK Msg - Data not Integrated |
| Common Reference Number | VARCHAR2(25) | M | Common Reference Number of request cluster |
| Requestor ID | VARCHAR2(35) | M | ICEGATE ID of the Requestor |
| ACK-ID | VARCHAR2 (28) | M | Generated at Custom end for every transaction, post successful schema validation |

ACK Response

{

"status": "success",

"errorCode": "000",

"CommonRefNumber": "2019031955489454",

"Message”: "Data Integrated",

”Requestor ID”: ”JNPT”,

”ackId”: ”xyz”,

}

NAK Response

{

"status": "failure",

"errorCode": "109",

"CommonRefNumber": "2019031955489454",

"Message”: "Data not Integrated",

”Requestor ID”: ”JNPT”

”ackId”: ”xyz”

}

### 5.3.4 Equipment Landed JSON Schema and Sample



### 5.3.6 Error Code With Description

|  |  |  |  |
| --- | --- | --- | --- |
| **Message ID** | **Error code** | **Error Description** | Flag |
| PCCHC03 | 001 | Type of Transport means not in 1/2/3/4 | F |
| PCCHC03 | 002 | Message type is not in F/C | F |
| PCCHC03 | 003 | Port Name is null or Invalid | F |
| PCCHC03 | 004 | Voyage Call No is null or Invalid | F |
| PCCHC03 | 005 | Identity of Transprot mean is null or Invalid | F |
| PCCHC03 | 006 | Total No of containers Landed/Loaded is null | F |
| PCCHC03 | 007 | Total No. of Transport Equipment Reported is null | F |
| PCCHC03 | 008 | Landing / Loading Complete Time is null | F |
| PCCHC03 | 009 | Equipment Flag not in 1 or 2 | F |
| PCCHC03 | 010 | Rotn No or Rotn Date is null | F |
| PCCHC03 | 011 | Equipment Type not in BB/BL/CH/CN/OBE/TE | F |
| PCCHC03 | 012 | Equipment no is null | F |
| PCCHC03 | 013 | Equipment sequence no is null | F |
| PCCHC03 | 014 | Container Weight is null | F |
| PCCHC03 | 015 | Equipment Seal Type not in 1 or 2 | F |
| PCCHC03 | 016 | Rotn No or Rotn Date is null | F |

## 5.4 CCM API – API Reporting Custom Control Message (EI, EO, PC, CH)

Two POST APIs shall be developed for this message:

**POST API Usage:** These APIs shall be developed & exposed by ICEGATE and Ports will consume the same.

1. The First POST API shall be used to POST details like Count of Records, Rotation Number, Rotation Date, VCN, Custom Control Timestamp, Flag and array of records as synchronous reply of messages left to be post.. The count of records in the will represent the number of messages to be pulled.
2. The Second POST API will be used to seek the status of individual Control Flags based on the required parameter to post the actual payload from ICEGATE.
3. In response to the request, messages regarding Entry Inward/Control Granted/not Granted message will share with requester.

### 5.4.1 API Overview

This API will be invoked by the Ports, to obtain Entry Inward Grant / Entry Outward Grant / Port Clearance / Container Hold Grant permissions from Custom. Custom facilitate the request after validating Manifest and ATA details filed by them.

The possible events for this API are:

1. Entry Inward Grant (EI)
2. Entry Outward Grant (EO)
3. Port Clearance Grant (PC)
4. Container Hold (CH) ***(Not Included in the Current Development)***

Custom provides Grant details, whenever Custom is ready with such details post vetting Sender-Request.



### 5.4.2 API Format

Payload header includes the information that is being exchanged such as the type of document exchanged, reference number, sender & receiver identity may along with the IDs of parties need to be notified.

The following are the list of parameters that will be passed in the payload Header of request:

| **Parameter** | **Description** |
| --- | --- |
| Doc Type | CHTOI04  ( VARCHAR2 (14) ) |
| Comm Ref. No. | Number assigned to the Payload request by Ports / sender  ( NUMBER (35) ) |
| Sender ID | ICEGATE ID of the Terminal Operator Code  ( VARCHAR2 (10) ) |
| Receiver ID | Port Code of particular place  ( VARCHAR2 (10) ) |
| Sender-ID-Qualifier | Icegate-ID of stakeholders would be like Port/TO/ZZ\_DSC etc.  ( ZZ - for all )  ( VARCHAR2 (10) ) |

### 5.4.3 First POST API

The first POST API will take the count of the messages to be post by ICEGATE.

#### 6.4.3.1 Attributes Details – Request Payload

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2 (35) | M | ICEGATE ID of the Requestor |
| Sender ID | VARCHAR2 (10) | O | Port Code of particular place |
| Receiver ID | VARCHAR2 (10) | O | Terminal Operator Code |
| Sender ID Qualifier | VARCHAR2 (10) | M | ZZ\_DSC (ZZ - for all ) |

**Response Data**

Synchronous Response parameters for this API shall be sent with POST. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

#### 6.4.3.2 Attributes Details – Response Payload

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2(10) | M | ICEGATE ID of the Requestor |
| Count of Records | NUMBER(4) | M | Number of Records in an array |
| Records Array | ARRAY[] | O | Records as array would be available. If count is zero, the records would be nill. |
| Receiver ID | VARCHAR2 (10) | M | The Code of the Receiver ID ( Terminal Operator Code or Custodian Code) |
| FLAG | VARCHAR2(2) | M | Following will be the event values:   1. EO - Entry Outward 2. EI - Entry Inward 3. PC- Port Clearance   4. CH – Container Hold |
| MANIFEST\_NO/ROTATION NO | [VARCHAR2(15) | M | The Unique ID generated by Customs for filed Manifest |
| MANIFEST\_DT/ROTATION DT | Date | M | Date of generation of Manifest Number |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |
| Customs Control Timestamp | Timestamp | O | The Timestamp of exercise of customs Control |
| EQUIPMENT NUMBER | VARCHAR2(30) | O | Equipment Number/Container Number |
| EQUIPMENT TYPE | VARCHAR2(10) | O | The Type of Equipment |
| EQUIPMENT STATUS | VARCHAR2(10) | O | The Status of the Equipment  1.HOLD  2. RELEASE |

### 5.4.4 Second POST API – On Demand API

This API will be invoked by Ports to get the actual payload against the Rotation Number and Rotation Date on demand. If any grant needs to be checked individually, TO/ports can use this API.

#### 5.4.4.1 Attributes Details – Request Payload

| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| --- | --- | --- | --- |
| Requestor ID | VARCHAR2 (35) | M | ICEGATE ID of the Requestor |
| RECEIVER ID | VARCHAR2 (10) | O | Terminal Operator Code |
| RECEIVER ID QUALIFIER | VARCHAR2(2) | O | Receiver ID qualifier |
| FLAG | VARCHAR2(2) | O | Following will be the event values:   1. EO - Entry Outward 2. EI - Entry Inward 3. PC- Port Clearance   CH – Container Hold |
| MANIFEST\_NO/ROTATION\_NO | VARCHAR2(15) | M | The Unique ID generated by Customs for filed Manifest |
| MANIFEST\_DT/ROTATION DT | Date | M | Date of generation of Manifest Number |
| EQUIPMENT NUMBER | VARCHAR2(30) | M | Equipment Number/Container Number |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (4 chars) + Year (4 digits) + Month (2 digits) + Running Serial Number (4 digits)**  ***e.g: BOM1+2021+06+0001 (BOM12021060001)*** |

**Response Data**

Synchronous Response parameters for this API shall be sent with POST. This data will be Base64 encoded JSON payload, digitally signed by communicating stakeholders/partners. The browser URL payload shall have the following parameters:

| **Parameter** | **Description** |
| --- | --- |
| Bearer/Access-Token/Client-ID | Sender will obtain this parameter post successful validation at CBIC external API Gateway with Client-Id and Password. |
| Response Payload Data | Data generated as per defined response schema at receiver end. This data will be encoded, digitally signed and encrypted as per the SOP approach.  Response Sample JSON and Schema have listed for each API. |

#### 6.4.4.2 Attributes Details – Response Payload

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Data Type with Size | Mandatory/  Optional | Description /Remarks |
| Requestor ID | VARCHAR2(10) | M | ICEGATE ID of the Requestor |
| Receiver ID | VARCHAR2 (10) | M | The Code of the Receiver ID ( Terminal Operator Code or Custodian Code) |
| FLAG | VARCHAR2(2) | M | Following will be the event values:   1. EO - Entry Outward 2. EI - Entry Inward 3. PC- Port Clearance   4. CH – Container Hold |
| MANIFEST\_NO/ROTATION NO | [VARCHAR2(15) | M | The Unique ID generated by Customs for filed Manifest |
| MANIFEST\_DT/ROTATION DT | Date | M | Date of generation of Manifest Number |
| Voyage Call Number | VARCHAR2(35) | M | Unique number assigned by Operator for a Voyage  Format: **Location Code (6 chars) + Year (4 digits) + 4 digits running serial no.**  ***e.g: INBOM1+2019+0001 (INBOM120190001)*** |
| Customs Control Timestamp | Timestamp | O | The Timestamp of exercise of customs Control |
| EQUIPMENT NUMBER | VARCHAR2(30) | O | Equipment Number/Container Number |
| EQUIPMENT TYPE | VARCHAR2(10) | O | The Type of Equipment |
| EQUIPMENT STATUS | VARCHAR2(10) | O | The Status of the Equipment  1.HOLD  2. RELEASE |

### 5.4.5 CCM API – API Reporting Customs Control Message (EI,EO,PC)) – Schema & Sample files

