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Revision History

|  |  |  |  |
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| Version | Date | Owner | Comments |
| Custodian Message Implementation Guide V 0.1 | 10/08/2019 | ICES |  |
| Custodian Message Implementation Guide V 0.2 | 22/08/2019 | ICES |  |
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| Custodian Message Implementation Guide V 1 | 13/11/2019 | ICES | Updated with: indication for list of values, camel case for each attribute of table |
| Custodian Message Implementation Guide V 1.1 | 29/11/2019 | ICES | Updated with: Error Code List, Object Attributes Table |
| Custodian Message Implementation Guide V 1.2 | 09/12/2019 | ICES | Updated with: Key Field Table for Outbound, Schema attribute name as per updated CSN JSON Schema |
| Custodian Message Implementation Guide V 1.3 | 17/01/2020 | ICES | Updated with revised Inbound JSON Schema  |
| Custodian Message Implementation Guide V 1.4 | 17/08/2020 | ICES | Updated with revised Error Code List, JSON Schema & Sample and Field Table |

# Introduction:

##  Background:

Central Board of Indirect Taxes and Custom (CBIC) vide notification No. 38/2018-Cus (NT)dated 11.05.2018 read with notification No. 65/2018-Cus (NT) dated 30.07.2018 and 88/2018-Cus(NT) dated 30.10.2018 notified Sea Cargo Manifest and Transshipment Regulations 2018.

This regulation supersedes the earlier regulations of Import Manifest (Vessels) Regulations, 1971, Export Manifest (Vessels) Regulation, 1976 and Transportation of Goods (Through Foreign Territory) Regulations of 1965. The new regulation stipulates changes in timelines and requirements for advance notice by shipping lines (vessels) arriving in India and Exports through shipping lines (vessels) out of India.

As per the new regulations, the Authorized Sea Carrier (ASC)/Authorized Sea Agent (ASA) shall submit an Arrival Manifest electronically, prior to departure from the last port of call to the Indian Port of call. And submit a Departure Manifest electronically before departure from the Indian Port of call.

The submission of Arrival and Departure Manifest shall have to be complied with by the ASC/ASA before departure from the last port/customs station of call to every Indian customs station and Departure then on respectively.

In addition, the responsibility is also entrusted with various stakeholders authorized under Handling of Cargo in Customs Inland Station. In case of Export, Stuffing or Stripping report generated after filing Shipping Bill by custodian at Export Departure and in case of Import, Stuffing or Stripping report generated by custodian at Import Departure.

## 1.2 Scope:

The Scope of this document is to provide list of messages involved in this carrying out above stated responsibility by Terminal operators and provide format, sample for such communication. The brief of messages are as follows:

**CIM: Customs Inland Manifest**

CIM – SF: Stuffing Report

CIM – ST: Stripping Report

CIM – DT: Departure Time Notification

CIM – AT: Arrival Time Notification

CIM – CC: Customs to Custodian Notification

## 1.3 Stakeholders involved:

Following Stakeholders are involved in the implementation

1. Authorized Sea Carrier (Including Shipping line)
2. Inland Custom Station Operators
3. Terminal Operator
4. Custom Officers
5. Transhipper Custodian
6. Authorized Persons of all the above

# Message Guidelines:

## 2.1 Introduction

This message guideline would help the users to prepare the declaration in the required format. The users can either utilize the data already available in the internal systems to generate this declaration in the required format by modifying their internal software systems or use an Excel/Json utility provided by CBIC/NIC in this regard. (The link for Java Utility is - <http://ices.nic.in/ices/cim>).

The following sections may be referred for the preparation of the file.

1. The structure and Hierarchy of the json object is available in [Section – 4.2](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#4.2 Structure – Hierarchy:) of this document.
2. The attributes of the json objects for different messages is provided in [Section - 5.](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#Object Attribute Table)
3. The Schema and Sample Json formats are available in [Section - 6.](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#JSON Schema and Samples)
4. Certain data elements are coded for bringing uniformity in the processing. The List of values for those data elements are given in [Section - 7](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#List of Values).
5. The file submitted to the ICEGATE should be in following name format. For e.g

***F\_CUCHE01\_ST\_ICEGATEID\_7031\_20200110\_DEC.json***

(<messageType><msgID><reportingEvent><SenderID><jobID><date>\_declaration)

The latest version is always available at the following link (<https://www.icegate.gov.in/SeaManifestRegulation.html>)

##  2.2 Submission of the File – ICEGATE:

The Declaration is to be submitted to Customs by User to ICEGATE either through:

* Web Upload or
* MFTP

An Excel-Utility/Json-Link will be provided to the end user at the Icegate website for generating JSON Inbound file for the simplicity of business.

The JSON file uploaded should be digitally signed as per the required format. (For more details, refer the following link: <https://www.icegate.gov.in/digitalSign/digitalSign.html>

## Acknowledgement of the Declaration:

Any file sent to Icegate through proper channel would be responded through acknowledged mail with the response codes regarding acceptance or rejection of the declaration. If the file, sent by the user is non readable, a mail to that extent would be reverted back.

The List of Error Codes are available in [Section -8](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#Error Code List) and key fields for Outbound File has described in [Section – 9](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#Key Fields Table for Outbound File) of this document.

The Inbound message from the user undergoes two level of validations:

1. **Structural Validation**
2. **Data and Business Logic Validation**

### Structural Validation

It is the 1st level validation which matches the schema of the inbound file with its objects and attributes with the prescribed structure of that message. In case of a mismatch, a structural validation failure (SFL) acknowledgment would be sent as a response to the User.

#### Structural Validation File naming format:

The file sent by the ICEGATE should be in following name format. For e.g

***F\_CUCHE01\_SF\_ICEGATEID\_7031\_20200110\_SFL.json***

(<messageType><msgID><reportingEvent><SenderID><jobID><date>\_structural validation)

#### Vocabulary for errors on Structural Validation failure:

The most common errors found during structural validation and the Keywords in the SFL Outbound File are as follows :

* + Data Type Mismatch (“maxLength “)
	+ Numeric Minimum Field Length Mismatch (“minLength”)
	+ String Maximum Field Length Mismatch (“required”)
	+ Object/Array Discrepancy Mismatch (“type”)
	+ Pattern Mismatch (“pattern”)
	+ Missing required Property/Object (“required”)

For additional details, following links may be referred. (Vocabulary for Structural validation is in section 6 of Link 1 )

1. <https://json-schema.org/draft/2019-09/json-schema-validation.html>

2. <https://json-schema.org/specification.html>

3. <https://json-schema.org/draft-06/json-schema-release-notes.html>

It is the 1st level validation which arises when submitted file fails at Icegate end due to the error in matching the file against the structural schema validation.

#### 2.3.1.3 Sample SFL Outbound Files :

Examples of the SFL outbound file have been given below:

***SFL Example:***

***Sample A: (Schema Validation Failure)***

***NAK Response***

{

"headerField": {

 "senderID": "ICEGATEID",

 "receiverID": "INNSA1",

 "versionNo": "1102",

 "indicator": "T",

 "messageID": "CUCHE01",

 "sequenceOrControlNumber": 7031,

 "date": "20200110",

 "time": "T14:50",

 "reportingEvent": "SF"

 },

"errorDetails":{

 "status": "Schema validation failure",

 "errorCode": "ERR100",

 "errorMessage":[{

 "level": "error",

 "schema": {

 "loadingURI": "#",

 "pointer": "/properties/master/properties/ transportMeans "

 },

 "instance": {

 "pointer": "/master/ "

 },

 "domain": "validation",

 "keyword": "maxLength",

 "message": "string \"Cffkdsahlfk\" is too long (length: 11, maximum allowed: 4)",

 "value": "Cffkdsahlfk",

 "found": 11,

 "maxLength": 4

}]

}

}

Additional sample JSON files have been given under [Section – 6](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#JSON Schema and Samples) of this document

The inbound file would undergo Second level business validation will only after successful structural validation.

### 2.3.2 Business Validation Acknowledgement:

Once the file has been validated for its structural correctness, the Customs Systems would validate the data with its inbuilt directories and data tables. The list of Error Codes given in [Section -8](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#Error Code List) of can serve as an indication on the kind of data validations the inbound files would undergo. *(Latest list of error codes can be accessed from Customs Duty Calculator page accessible through ICEGATE Website).* On Successful integration of the submitted JSON file with the Customs System, a positive ACK will be sent to the submitter with Event No., Date and/or MCIN/PCIN number. In case of error, a negative ACK file with error code and error description will be sent.

#### 2.3.2.1 Business Validation Acknowledgement File Format :

The file sent by the ICEGATE should be in following name format. For e.g

***F\_CUCHE01\_SF\_ICEGATEID\_7031\_20200110\_ACK.json***

(<messageType><msgID><reportingEvent><SenderID><jobID><date>\_Final Acknowledgment)

*2.3.2.2 Sample ACK Files and Schema :*

Sample ACK files and schema have been attached under [Section - 6](file:///C%3A%5CUsers%5CAngoZen%5CDownloads%5CDraft_MIG_CIM-Custodian_v1.2B.docx#JSON Schema and Samples) for the benefit of the stakeholders.

# 3. Process Flow - Sea Terminal Operator:



#  Manifest Master Object

## 4.1 JSON Objects:

* 1. Manifest Declaration
	2. Master CIM
	3. Master Location
	4. Master TM
	5. Master Events
	6. Cargo Container
	7. Cargo Document
	8. Supporting Document
	9. DigiSign

## 4.2 Structure – Hierarchy:



##  Attribute Table – Common structure

### 4.3.1 Manifest Master: Declaration

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| Declaration("declaration")Required-true1..1 | Message Type("messageType") | CHAR (1) | The Flag specifying the action requested on this transmissionLOV: F - FreshA - Amendment | Desc: Default Value - F |
| Port of Reporting("portOfReporting") | VARCHAR2 (10) | The Custom Location of Reporting | Pattern: ([I][N])([A-Z]|[0-9]){8}$ |
| Job No.(“jobNo”) | NUMBER (7) | The Unique ID provided by User for this transmission |  |
| Job Date(“jobDate”) | DATE | Date of generation of unique id provided by user for this transmission | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])$Desc: YYYYMMDD |
| Reporting Event("reportingEvent") | CHAR (4) | The Code specifying the Reporting Event pertaining to this transmissionLOV: SF - Stuffing ReportST - Stripping ReportAT - Arrival TimeDT - Departure TimeCC - Communication to Custodian |  |

### 4.3.2 Manifest Master: CIM

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| CIMRequired-true0…1 | CIM No.("CIMNumber") | NUMBER (12) | The unique id generated by Custom for this compliance |  |
| CIM Date("CIMDate") | DATE | The date unique id generated by Custom for this compliance | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])$Desc: YYYYMMDD |

### 4.3.3 Manifest Master: Location

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| Location("location")Required-True1..1 | Reporting Party Type(reportingPartyType) | CHAR (7)  | LOV: EXP – Exporter, C – Custodian,T – Terminal Operators |  |
| Reporting party Code(reportingPartyCode) | VARCHAR2 (15) | Custom Identification No.  | Pattern: ^[a-zA-Z0-9]{10}$Desc: 03 digit alphanumeric, like – CON, ADN |
| Reference Movement Type("referenceMovementType") | VARCHAR2 (2) | e-waybill / other movement | Pattern: ^[0-9]{12}$Desc: EWAY Bill Flag |
| Reference Movement No.("referenceMovementNumber") | VARCHAR2 (35) | e-waybill no. / Movement No. | Desc: EWAY Bill Number -12 digit numeric, if EW |
| Reference Movement Date("referenceMovementDate") | DATE | e-waybill date / Movement date | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])$Desc: YYYYMMDD |
| Bond No.(bondNumber) | VARCHAR2 (10) | Bond Number |  |
| Reporting Location Code(reportingLocationCode) | VARCHAR2 (15) | Custodian Code | Pattern: ^([a-zA-Z ]|[0-9]){10}([0-9]{3})$Desc: 10 digit alphanumeric  |
| Reporting Location Name(reportingLocationName) | VARCHAR2 (35) | Where stuffing took place  | Desc: Branch Location |
| Next Destination of Unlading(nextDestinationOfUnlading) | VARCHAR2 (10) | Custodian Code of next site | Pattern: ([I][N])([A-Z]|[0-9]){8}$Desc: Destination Custodian Code 10 digit alphanumeric |
| Authorized Person PAN(authorizedPersonPAN) | VARCHAR2 (10) | PAN No. of Authorized Person | Pattern: ^([a-zA-Z]){5}([0-9]){4}([a-zA-Z]){1}$ |

### 4.3.4 Manifest Master: Transport Means

| Object | Attribute Name | Data Type | Remarks | Pattern/Description |
| --- | --- | --- | --- | --- |
| Transport MeansRequired – True0…1 | Transport Means Type("transportMeansType") | CHAR (1) | Means of transport for this transmissionLOV: 1 – Sea, 2 – Rail, 3 – Truck, 4 - Air | Pattern: ^[a-zA-Z0-9]{1}$ |
| Transport Means No.("transportMeansNumber") | VARCHAR2 (12) | Identification No. of train / license plate no. of truck | Desc: Truck or Trailer number | Rail number |
| Transport Means eID Type("transportMeanseIDType") | VARCHAR2 (4) | Fastag or any other type |  |
| Transport Means eID("transportMeanseID") | VARCHAR2 (16) | Fastag No. | Desc: RFID Tag number of vehicle |
| Total Equipment’s("totalEquipments") | NUMBER (4) | Total no. of transport equipment’s |  |

### 4.3.5 Manifest Master: Events

| Object | Attribute Name | Data Type | Description /Remarks | Sample |
| --- | --- | --- | --- | --- |
| Events (“events”)Required – True1…1 | Expected Time of Departure(“expectedTimeOfDeparture”) | TIMESTAMP | Date and Time of event | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])[T]([0-1][0-9]|[2][0-3]):([0-5][0-9])$ |
| Actual Time of Departure(“actualTimeOfDeparture”) | TIMESTAMP | Date and Time of event | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])[T]([0-1][0-9]|[2][0-3]):([0-5][0-9])$ |
| Expected Time of Arrival(expecteTimeOfArrival) | TIMESTAMP | Date and Time of event | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])[T]([0-1][0-9]|[2][0-3]):([0-5][0-9])$ |
| Actual Time of Arrival(actualTimeOfArrival) | TIMESTAMP | Date and Time of event | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])[T]([0-1][0-9]|[2][0-3]):([0-5][0-9])$ |

### 4.3.6 Manifest Master: Cargo Container

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| Cargo Container ("cargoContainer")Required – True1…n | Message Type(“msgTyp”) | CHAR (1) | The Flag specifying the action requested on this transmissionLOV:F - FreshA - Amendment | Desc: Default Value - F |
| Equipment Sequence No.("equipmentSequenceNo") | NUMBER (5) | The Serial number of Equipment referenced in the Transport Document. Starting with 1 |  |
| Equipment ID("equipmentID") | VARCHAR2 (17) | Identification of container or truck no. in case of bonded truckMarks (letters and/or numbers) which identify equipment e.g. unit load device, Container |  |
| Equipment type ("equipmentType") | VARCHAR2 (3) | The Code specifying the type of the Equipment used for TransportLOV: CN - ContainerB - Bonded truckW – WagonCH – ChassisDPL – Onboard Equipment,TE - Trailer | Pattern: Pattern: ^[C][N]$|^[B]$|^[W]$|^[T][E]$|^[D][P][L]$|^[C][H]$|^[B][L]$|^[B][B]$ |
| Equipment Size("equipmentSize") | VARCHAR2 (4) | ISO code of container type | Pattern: ^[a-zA-Z0-9]$Desc: 4 digit alphanumeric |
| Equipment Load Status("equipmentLoadStatus") | CHAR (3) | Code specifying how full piece of transport is.LOV: FCL - Full, LCL - Partial, EMP - Empty | pattern: ^[A-Z]$Desc: FCL, LCL, EMP |
| Additional Equipment Hold("additionalEquipmentHold") | VARCHAR2 (256) | Wagon No., Trailer No, codedThe Identifier for Additional Equipment used for Hold e.g Tray etc. | Desc: Wagon number incase of Rail |
| Final Destination Location(“finalDestinationLocation”) | VARCHAR2 (10) | Port Code of gateway port | Pattern: ([I][N])([A-Z]|[0-9]){8}$Desc: 10 digit alphanumeric |
| Event Date(eventDate) | Date | Date and Time of event when cargo is being transported | Pattern: ^ [0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])$Desc: Sealing Date |
| Equipment seal Type("equipmentSealType") | CHAR (5) | Eseal / other type:LOV:E-Seal – ESEAL,Bottle Seal - BTSL,Other Seal - OTH | Pattern: ^[A-Z]$ |
| Equipment Seal No.("equipmentSealNumber") | CHAR (15) | No. of Equipment Seal | Pattern: "^[a-zA-Z0-9]$Desc: a alphanumeric |
| Other Equipment ID("otherEquipmentID”) | VARCHAR2 (256) | RFID tag or other Reference |  |
| Equipment Status(equipmentStatus”) | CHAR (3) | The Status of the Transport EquipmentDamagedIntactShort landedDelay etc | Pattern: [a-zA-Z0-9]Desc: value= 127 |
| Equipment Pkg(equipmentPkg) | VARCHAR22) | Container BULK |  |
| Equipment Quantity(equipmentQuantity) | NUMBER (16) | No. of container/pkg |  |
| Equipment UQC(equipmentUQC) | CHAR (3) | UQC CodePKG - PackageKGS - Kilograms |  |

### 4.3.7 Manifest Master: Cargo Details

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| Cargo Details ("cargoDetails")Required – True1…n | Message Type("messageType") | CHAR (1) | The Flag specifying the action requested on this transmissionF - FreshA - Amendment | Desc: Default value - F |
| Cargo Sequence No.(cargoSequenceNo) | NUMBER (4) | The serial No. indicating the cargo items carried I transport document |  |
| Document Type(documentType) | VARCHAR2 (4) | Identity the type of documentLOV:PCIN - Primary Cargo Identification No.MCIN - Master Cargo Identification No. | Pattern: "^[S][B]$|^[E][B][E]$|^[E][S][B]$|^[Z][S][B]$|^[M][S][B]$|^[M][B][E]$|^[Z][B][E]$|^[M][C][I][N]$|^[P][C][I][N]$"Desc: like SB |
| Document Site(documentSite) | VARCHAR2 (6) | Indian port code where document issued | Pattern: "([I][N])([A-Z]|[0-9]){4}$ |
| Document No.(documentNo) | NUMBER (7) | Identification No. of document such as: BE No., SB No., MCIN No., PCIN No. |  |
| Document Date(documentDate) | DATE | Date of document | Pattern: ^[0-9]{4}(0[1-9]|1[0-2])(0[1-9]|[1-2][0-9]|3[0-1])$ |
| Shipment Load Status(“shipment LoadStatus”) | CHAR (3) | To indicate if all cargo pertaining to this SB is in this container (F-Full) or if it is loaded in multiple containers (P-Partial)LOV: F-Full, P-Partial | Pattern: ^[P]$|^[F]$Desc: Value = P or F |
| Package Type(packageType) | VARCHAR2 (2) | LOV:P - PackageLB - Liquid BulkDB - Dry Bulk | Pattern: ^[P]$|^[L][B]$|^[D][B]$ |
| Quantity(quantity) | NUMBER (16) | No. of Packages |  |
| Packets From(packetsFrom) | NUMBER (6) | Starting no. of quantity in the container |  |
| Packets To(packetsTo) | NUMBER (6) | Ending no of quantity in the container |  |
| Pack UQC(packUQC) | CHAR (3) | UQC of quantityLOV:PKG - packageKGS - kilograms |  |
| MCIN / PCIN(“mcinPcin”) | VARCHAR2 (20) | The unique Identifier issued by Customs for Transport Contract issued by Main line operator- Master Cargo Identification Number |  |

### 4.3.8 Manifest Master: Supporting Document

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| Supporting Document ("supportingDocuments")Required – True0…n | Message Type("messageType") | CHAR (1) | The Flag specifying the action requested on this transmission. LOV:F - Fresh, A - Amendment | Desc: Default value - F |
| Equipment Serial No.("equipmentSerialNumber") | NUMBER (5) |  |  |
| Document Serial no.("documentSerialNumber") | NUMBER (4)  | Serial No. of document |  |
| Icegate User ID("icegateUserID") | CHAR (15) | Icegate ID of user who uploaded the supporting documents |  |
| IRN No.("IRNNumber") | NUMBER (14) | The unique reference no given by eSanchit on uploading of document |  |
| Document Reference No.("documentReferenceNumber") | CHAR (17) | The unique reference no. given by issue to this document. Eg. Aadhaar No. |  |
| Document Type Code("documentTypeCode") | CHAR (6) | The identifier assigned by Custom to identify the type of document |  |
| Beneficiary Code("beneficiaryCode") | CHAR (35) | The identifier of beneficiary of this documentEg. IEC, Custodian Code etc. |  |

### 4.3.9 Manifest Master: DigiSign

| Object | Attribute Name | Data Type | Remarks | Pattern & Description |
| --- | --- | --- | --- | --- |
| Digi Sign ("digSign")Required – True1…1 | Signature("startSignature") | VARCHAR2 | Start Signature |  |
| Certificate("startCertificate") | VARCHAR2 | Start Certificate |  |
| Version("signerVersion") | VARCHAR2 | Signer Version |  |

# Object Attribute Table

| Object  | Attribute Name | CIM-SF | CIM-ST | CIM-DT | CIM-AT | CIM-CC |
| --- | --- | --- | --- | --- | --- | --- |
| Declaration |  | M | M | M | M | M |
|  | Message Type | M(F) | M(F) | M(F) | M(F) | M(F) |
| Port of Reporting | M | M | M | M | M |
| Job No. | M | M | X | X | X |
| Job Date | M | M | X | X | X |
| Reporting Event | M(SF) | M(ST) | M(DT) | M(AT) | M(CC) |
| CIM |  | X | X | M | M | M |
|  | CIM No. |  |  | M | M | M |
| CIM Date |  |  | M | M | M |
| Location |  | M | M | M | M | M |
|  | Reporting Party Type | M(C) | M(C) | M(C) | M(C) | M(C) |
| Reporting party Code | M(Custodian Code) | M(Custodian Code) | M | M | M |
| Reference Movement Type | X | X | O | O | O |
| Reference Movement No. | X | X | O | O | O |
| Reference Movement Date | X | X | O | O | O |
| Bond No. | X | X | X | X | M |
| Reporting Location Code | M | M | M | M | M |
| Reporting Location Name | M | M | O | O | X |
| Next Destination of Unlading | X | X | M | M | M |
| Authorized Person PAN | M | M | M | M | M |
| Transport Means |  | X | X | M | M | M |
|  | Transport Means Type |  |  | M | M | M |
| Transport Means No. |  |  | M | M | M |
| Transport Means eID Type |  |  | O | O | O |
| Transport Means eID |  |  | O | O | O |
|  | Total Equipment’s |  |  | M | M | M |
| Events |  | X | X | M | M | M |
|  | Expected Time of Departure |  |  | X | X | O |
| Actual Time of Departure |  |  | M | X | O |
| Expected Time of Arrival |  |  | X | X | O |
| Actual Time of Arrival |  |  | X | M | O |
| Cargo Container |  | M | M | M | M | M |
|  | Message Type | M(F) | M(F) | M(F) | M(F) | M(F) |
| Equipment Sequence No. | M | M | M | M | M |
| Container ID | M | M | M | M | M |
| Equipment type | M | M | M | M | M |
| Equipment Size | M | M | M | M | M |
| Equipment Load Status | M | M | X | X | M |
| Additional Equipment Hold | O | O | X | X | O |
| Final Destination Location | M | M | X | X | O |
| Event Date | M | M | X | X | O |
| Equipment seal Type | M | M | X | X | O |
| Equipment Seal No. | M | M | X | X | O |
| Other Equipment ID | O | O | X | X | O |
| Equipment Status | M | M | X | X | M |
| Equipment Pkg | O | O | X | X | O |
| Equipment Quantity | M | M | X | X | O |
| Equipment UQC | O | O | X | X | O |
| Cargo Details |  | M | M | X | X | X |
|  | Message Type | M(F) | M(F) |  |  |  |
| Cargo Sequence No. | M | M |  |  |  |
| Document Type | M | M |  |  |  |
| Document Site | M | M |  |  |  |
| Document No. | O | O |  |  |  |
| Document Date | O | O |  |  |  |
| Shipment Load Status | M | M |  |  |  |
| Package Type | M | M |  |  |  |
| Quantity | O | O |  |  |  |
| Packets From | O | O |  |  |  |
| Packets To | O | O |  |  |  |
| Pack UQC | M | M |  |  |  |
| MCIN / PCIN | M | M |  |  |  |
| Supporting Document |  | O | O | O | O | O |
|  | Message Type | M(F) | M(F) | O(F) | O(F) | O(F) |
| Equipment Serial No. | M | M | M | M | M |
| Document Serial no. | M | M | M | M | M |
| Icegate User ID | M | M | M | M | M |
| IRN No. | M | M | M | M | M |
| Document Reference No. | M | M | M | M | M |
| Document Type Code | M | M | M | M | M |
| Beneficiary Code | O | O | O | O | O |

# JSON Schema and Samples

## Inbound JSON Schema

  

## Inbound JSON Samples

   

## Outbound SFL JSON Schema



## Outbound SFL JSON Samples



## Outbound ACK JSON Schema

 

## Outbound ACK JSON Samples

 

# List of Values

| Object Name | Description | Code |
| --- | --- | --- |
| Message Type | Fresh | F |
| Amendment | A |
| Indicator | Production | P |
| Test | T |
| Reporting Event | Stuffing Report | SF |
| Stripping Report | ST |
| Arrival Time | AT |
| Departure Time | DT |
| Communication to Custodian | CC |
| Reporting Party Type | Exporter | EXP |
| Custodian | C |
| Terminal Operators | T |
| Transport Means Type | Sea | 1 |
| Rail | 2 |
| Truck | 3 |
| Air | 4 |
| Equipment type | Container | C |
| Bonded truck | B |
| wagon | W |
| Package Type | Packaged | P |
| Liquid Bulk | LB |
| Dry Bulk | DB |
| Equipment Load Status | Partial | LCL |
| Empty | EMP |
| Full | FCL |
| Equipment Seal Type | E-Seal | ESEAL |
| Bottle Seal | BTSL |
| Other Seal | OTH |
| Equipment QUC | Package | PKG |
| Kilograms | KGS |
| Document Type | Entry Bill | EBE – EDI BE, ZBE – SEZ BE, MBE – Manual BE |
| Shipping Bill | ESB - EDI SB, ZSB - SEZ SB, MSB – Manual SB |
| Primary Cargo Identification No. | PCIN |
| Master Cargo Identification No. | MCIN |
| Shipment Load Status | Full | F |
| Partial | P |

**Code List: Equipment Status and Equipment Type**

| **Code\_Type** | **Code** | **Code Name** |
| --- | --- | --- |
| Equ\_Status | 001 | Arrival, completed |
| Equ\_Status | 3 | Arrival, in defective condition |
| Equ\_Status | 15 | Consolidated |
| Equ\_Status | 16 | Crossed border |
| Equ\_Status | 18 | Damaged in the course of transportation |
| Equ\_Status | 35 | Forwarded to destination |
| Equ\_Status | 208 | Seals, replaced |
| Equ\_Status | 218 | Damaged |
| Equ\_Status | 238 | Means of transport, damaged |
| Equ\_Status | 309 | Packaging/equipment opened |
| Equ\_Status | 335 | Seals, damaged |
| Equ\_Status | 336 | Seals, broken |
| Equ\_Status | 337 | Seals, tampered |
| Equ\_Status | 127 | Departed, completed on a means of transport |
| Equ\_Status | 94 | Stuffed and sealed |
| Equ\_Status | 71 | Ready for transportation |
| EQU\_Type | BB | Breakbulk |
| EQU\_Type | BL | Blocks |
| EQU\_Type | CH | Chassis |
| EQU\_Type | CN | Container |
| EQU\_Type | DPL | Onboard Equipment |
| EQU\_Type | TE | Trailer |
| EQU\_Type | B | Bonded truck |
| EQU\_Type | W | wagon |

# Error Code List

|  |  |
| --- | --- |
| **Error Code** | **Description (Message Level)** |
| **M 01** | Duplicate record in master table  |
| **CCM 02** | Duplicate record in Container  |
| **CDM 03** | Duplicate record in cargo  |
| **SDM 04** | Duplicate record in Supporting Document  |
| **M 05** | Master record Is missing  |

|  |  |
| --- | --- |
| **Error Code** | **Description (Business level)** |
| **HFB02** | Invalid Reporting event Valid values are (SF,ST,AT,DT) |
| **LCB03** | Party type Should be ‘C’- Custodian |
| **LCB04** | Custodian Commercial Code is invalid |
| **CDB04**  | Mandatory mcin/pcin is missing |
| **CDB05**  | PCIN is not valid  |
| **CDB06**  |  Shipping Bill is not ready for ‘Stuffing’ |
| **CDB07**  |  Stripping message is not received for cargo |
| **CDB08** | Number of packages are more than declared in SB  |
| **CDB09** | Cargo is not available at reporting site for stuffing |
| **CDB10** | Invalid package range |
| **CDB11** | Package is already stuffed |
| **LCB12** | Party Type is not valid |
| **LCB13** | Party Code is not valid |
| **LCB14** | Authorized Person PAN is not valid  |
| **CCB15** | Only one container is allowed per stuffing message |
| **CDB15** | Package numbers are not correct |
| **CCB16** | Container is already stuffed |
| **CDB18** | Shipment Type is not valid |
| **CCB17** | Equipment serial number is already exists for CIN |
| **CDB19** | Shipment Type is not valid for all records for PCIN |
| **CDB20** | SB Location and SF Location does not tally |

*HF – Header Field Object, LC - Location Object, DC – Declaration Object, CD – Cargo Details Object, CC – Cargo Container Object, SD – Supporting Documents Object*

# Key Fields Table for Outbound File

| Object  | Attribute Name | Key Field (SF, ST) | Key Field (AT, DT) | CIM-CC |
| --- | --- | --- | --- | --- |
| Declaration |  | M | M | M |
|  | Message Type | M | M | M |
| Port of Reporting | M | M | M |
| Job No. | M | X | X |
| Job Date | M | X | X |
| Reporting Event | M | M | M |
| CIM |  | X | M | M |
|  | CIM No. |  | M | M |
| CIM Date |  | M | M |
| Location |  | M | M | M |
|  | Reporting Party Type | M | M | M |
| Reporting party Code | M | M | M |
| Reference Movement Type | X | X | X |
| Reference Movement No. | X | X | X |
| Reference Movement Date | X | X | X |
| Bond No. | X | X | X |
| Reporting Location Code | X | X | X |
| Reporting Location Name | X | X | X |
| Next Destination of Unlading | X | X | X |
| Authorized Person PAN | X | X | X |
| Error Code | M | M | M |
| Transport Means |  | X | M | M |
|  | Transport Means Type |  | M | M |
| Transport Means No. |  | M | M |
| Transport Means eID Type |  | X | X |
| Transport Means eID |  | X | X |
|  | Total Equipment’s |  | X | X |
| Error Code |  | M | M |
| Events |  | X | M | M |
|  | Expected Time of Departure |  | X | X |
| Actual Time of Departure |  | X | X |
| Expected Time of Arrival |  | X | X |
| Actual Time of Arrival |  | X | X |
| Error Code |  | M | M |
| Cargo Container |  | M | M | M |
|  | Message Type | M | M | M |
| Equipment Sequence No. | M | M | M |
| Container ID | M | M | M |
| Equipment type | X | X | X |
| Equipment Size | X | X | X |
| Equipment Load Status | X | X | X |
| Additional Equipment Hold | X | X | X |
| Final Destination Location | X | X | X |
| Event Date | X | X | X |
| Equipment seal Type | X | X | X |
| Equipment Seal No. | X | X | X |
| Other Equipment ID | X | X | X |
| Equipment Status | X | X | X |
| Equipment Pkg | X | X | X |
| Equipment Quantity | X | X | X |
| Equipment QUC | X | X | X |
| Error Code |  |  |  |
| Cargo Details |  | M | X | X |
|  | Message Type | M |  |  |
| Cargo Sequence No. | M |  |  |
| Document Type | X |  |  |
| Document Site | X |  |  |
| Document No. | X |  |  |
| Document Date | X |  |  |
| Shipment Load Status | X |  |  |
| Package Type | X |  |  |
| Quantity | X |  |  |
| Packets From | X |  |  |
| Packets To | X |  |  |
| Pack UQC | X |  |  |
| MCIN / PCIN | X |  |  |
|  | Error Code | M |  |  |
| Supporting Document |  | O | O | O |
|  | Message Type | M | M | M |
| Equipment Serial No. | M | M | M |
| Document Serial no. | M | M | M |
| Icegate User ID | X | X | X |
| IRN No. | X | X | X |
| Document Reference No. | X | X | X |
| Document Type Code | X | X | X |
| Beneficiary Code | X | X | X |
| Error code | M | M | M |