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Cross Border logisticS systemS Interface

Technical Specifications (Batch Protocol)

V1.0

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**Revisions**

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# Introduction

This specification is intended to assist Client software developers to develop integration component using ECMS cross-border logistics API. The interface definition includes the logistic manifest request to ECMS, Event tracking request to ECMS and invoice file exchange.

# Interaction Scenario



# Interface Transactions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Interface Group | Interface | Description | Mode | Remark |
| Manifest | Manifest | Client uses this transaction to send the order logistics manifest for ECMS logistics services. | Batch | Contains multiple orders in one file |
| Mawb | Mawb | Client uses this transaction to send the mawb for ECMS logistics services. | Single | Only one mawb in one file |
| Event tracking | Event Tracking | ECMS uses this transaction to send the logistics event history for specific orders. | Batch | Contains multiple orders in one file |
| Invoice | Freight and Duty Invoice file | ECMS uses this transaction to send the freight and duty invoice files for the orders to the Client. | Batch | One freight and duty invoice files for multiple orders |
| Transfer summary file | Client uses this transaction to send Freight and Duty invoice transfer summary files to client for competency checking. | Batch | Daily transfer summary |
| Invoice audit file | Client use this transaction to transfer the freight and duty invoice audit file to ECMS after confirmed by the Client | Batch | For each freight and duty invoice files |

# Interface Definitions

* **Note**
* Field M/O flag: M：Mandatory / O：Optional

## Manifest File Interface

### Protocol

* **Request Method**: Client file server SFTP PUT to ECMS file server
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_M.XML (XXX stands for the unique ID assigned to the client by ECMS for interaction, ZZZZZZ stands for 6 digits sequence number, name appends with “M” to represent the manifest file)

### Request Message

* **Manifest Structure**

|  |  |
| --- | --- |
| **Element** | **remark** |
| <Manifest> |  |
| <Header>..</Header> |  |
| <Shipments> |  |
| <Shipment> | Repeat for multiple house air waybills in this manifest, the elements under this node are defined in the Element Section |
| <Contents> |  |
| <ContentItem>...</ContentItem> | Repeat for each product in one house air waybill, the elements under this node are defined in the Element Section |
| <ContentItem>...</ContentItem> |  |
| </Contents> |  |
| <Consignee></Consignee> |  |
| <Shipper> </Shipper> |  |
| <**Buyer>…</Buyer>** |  |
| </Shipment> |  |
| </Shipments> |  |
| </Manifest> |  |

* **Manifest Elements**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Element** | **M/O** | **Type** | | **Length** | | | | **Value** | **Description** |
| **Header** | |  | |  | | | |  |  |
| **ManifestId** | **M** | **String** | | **32** | | | |  | **to identify this unique manifest** |
| **ActionCode** | **M** | | **String** | | **1** | | | **Default: A (Add)** |  |
| **SendDate** | **M** | **String** | | **16** | | | |  | **yyyyMMddHHmmss** |
| **MerchantId** | **M** | **String** | | **10** | | | |  | **Merchant id , pre-assigned by ECMS** |
| **CarrierId** | **M** | **String** | | **4** | | | |  | **Fiex: ECMS** |
| **Version** | **M** | **String** | | **8** | | | | **Default 1.0** |  |
| **Shipments**  **Shipment** | |  | |  | | | |  |  |
| **TrackNo** | **M** | **String** | | **64** | | | |  | **Merchant’s Tracking Number** |
| ECMSTrackNo | O | String | | 32 | | | |  | ECMS’s waybill number |
| LastMileDeliveryNo | O | String | | 32 | | | |  | Last Mile Delivery’s waybill number |
| **OrderNo** | **M** | **String** | | **64** | | | |  | **Merchant’s order number** |
| **Mawb** | **M** | **String** | | **16** | | | |  | **Master waybill** |
| **Description** | **M** | **String** | | **256** | | | |  | **Order Description** |
| **OrderDate** | **M** | **String** | | **14** | | | | **YYYYMMDDHHMMSS** | **Merchant’s order time** |
| **Weight** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places** | **Package gross weight** |
| **Length** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places** | **Package length** |
| **Width** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places** | **Package width** |
| **Height** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places** | **Package height** |
| **WeightUnit** | **O** | **String** | | **2** | | | | **Default kg** | **kg/lb** |
| **LengthUnit** | **O** | **String** | | **2** | | | | **Default cm** | **in/cm** |
| **GoodsValue** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places** |  |
| **FreightValue** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places. If there is no freight, Pls filled 0.** |  |
| **TaxValue** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places. If there is no tax, Pls filled 0.** |  |
| **ActuralPaid** | **M** | **Double** | | **10,2** | | | | **The amount actually paid by the user.**  **Numeric, retained two decimal places** |  |
| **Insurance** | **M** | **Double** | | **10,2** | | | | **Numeric, retained two decimal places. If there is no insurance, Pls filled 0.** | **Package claimed insurance value** |
| **Currency** | **M** | **String** | | **3** | | | | **Must be 3 characters, Default=USD** | **Currency abbreviation** |
| **Danger** | **M** | **String** | | **1** | | | | **NonDanger：N**  **Danger：Y** | **Hazardous** |
| DangerDescription | O | String | | 256 | | | |  | Danger Description |
| ShipRef1 | O | String | | 100 | | | |  | Package referenceno1 |
| ShipRef2 | O | String | | 100 | | | |  | Package referenceno2 |
| ShipRef3 | O | String | | 50 | | | |  | Package referenceno3 |
| ShipRef4 | O | String | | 50 | | | |  | Package referenceno4 |
| ShipRef5 | O | String | | 50 | | | |  | Package referenceno5 |
| ShipRef6 | O | String | | 50 | | | |  | Package referenceno6 |
| **Contents**  **ContentItem** | | | | | | | | | |
| **ProductCode** | **M** | **String** | | **50** | | | **Must be A~Z a~z 0~9 - \* $** | | **Item product code, SKU ID** |
| **Brand** | **M** | **String** | | **100** | | |  | | **Item brand** |
| SubBrand | O | String | | 100 | | |  | | Item sub brand |
| **Name** | **M** | **String** | | **64** | | |  | | **Item name** |
| **Description** | **M** | **String** | | **200** | | |  | | **Item description** |
| ExpHSCode | O | String | | 32 | | |  | | Item’s HS code in export country |
| ImpHSCode | O | String | | 32 | | |  | | Item’s HS code in import country |
| **Quantity** | **M** | **Int** | |  | | |  | | **Item quantity** |
| **UnitPrice** | **M** | **Double** | | **10,2** | | | **Must be a number, retained two decimal places** | | **Item unit price** |
| **Country** | **M** | **String** | | **2** | | | **Must be 2 characters** | | **Item country abbreviation of the product origin country** |
| **UnitWeight** | **M** | **Double** | | **10,2** | | | **Must be a number, retained two decimal digits** | | **Item unit weight** |
| Specification | M | String | | 128 | | |  | | Item specification.  ie. 10x2x5 cm,50ml. |
| Url | O | String | | 1000 | | |  | | product link. |
| ManufactureDate | O | String | | 8 | | |  | | Date of manufacture |
| ItemRef1 | O | String | | 50 | | |  | | Item referenceno1 |
| ItemRef2 | O | String | | 50 | | |  | | Item referenceno2 |
| ItemRef3 | O | String | | 50 | | |  | | Item referenceno3 |
| ItemRef4 | O | String | | 50 | | |  | | Item referenceno4 |
| ItemRef5 | O | String | | 50 | | |  | | Item referenceno5 |
| ItemRef6 | O | String | | 50 | | |  | | Item referenceno6 |
| **Consignee** | | | |  | |  | | |  |
| **FirstName** | **M** | **String** | | **100** | |  | | | **Consignee’s first name** |
| LastName | O | String | | 100 | |  | | | Consignee’s last name |
| **Country** | **M** | **String** | | **2** | | **Must be 2 characters** | | | **Consignee’s country abbreviation** |
| **State** | **M** | **String** | | **50** | |  | | | **Consignee’s state or province** |
| **City** | **M** | **String** | | **50** | |  | | | **Consignee’s city** |
| **ZipCode** | **M** | **String** | | **10** | | **Must be A~Z a~z 0~9** | | | **Consignee’s zip** |
| **Address1** | **M** | **String** | | **200** | |  | | | **Consignee’s address1** |
| Address2 | O | String | | 200 | |  | | | Consignee’s address2 |
| Address3 | O | String | | 200 | |  | | | Consignee’s address3 |
| **CellPhone** | **M** | **String** | | **20** | |  | | | **Consignee’s cell phone number** |
| **Email** | **M** | **String** | | **64** | | **Format:** [**xxx@xxx.com**](mailto:xxx@xxx.com) | | | **Consignee’s email** |
| RegisteredCellPhone | O | String | | 20 | | Format: 1234567890 | | | Customer’s registered user’s cell phone number. The RegisteredCellPhone and RegisteredEmail fields at least one field is needed |
| RegisteredEmail | O | String | | 64 | | Format: [xxx@gmail.com](mailto:xxx@gmail.com) | | | Customer’s registered user’s email, The RegisteredCellPhone and RegisteredEmail fields at least one field is needed |
| **Shipper** | | | |  | |  | | |  |
| **CompanyName** | **M** | **String** | | **100** | |  | | | **Shipper’s company name** |
| FirstName | O | String | | 100 | |  | | | Shipper’s first name |
| LastName | O | String | | 100 | |  | | | Shipper’s last name |
| **Country** | **M** | **String** | | **2** | | **Must be 2 characters, Default=US** | | | **Shipper’s country abbreviation** |
| **State** | **M** | **String** | | **50** | |  | | | **Shipper’s state** |
| **City** | **M** | **String** | | **50** | |  | | | **Shipper’s city** |
| **ZipCode** | **M** | **String** | | **10** | | **Must be A~Z a~z 0~9** | | | **Shipper’s zip** |
| **Address1** | **M** | **String** | | **200** | |  | | | **Shipper’s address1** |
| Address2 | O | String | | 200 | |  | | | Shipper’s address2 |
| Address3 | O | String | | 200 | |  | | | Shipper’s address3 |
| Phone | O | String | | 20 | |  | | | Shipper’s phone number |
| **Email** | **M** | **String** | | **64** | | **Format:** [**xxx@xxx.com**](mailto:xxx@xxx.com) | | | **Shipper’s email** |
| **Buyer** | | | |  | |  | | |  |
| **IDType** | **M** | **Int** | | **1** | | **0: Identity card**  **1: Passport** | | | **Buyer’s identification Type.** |
| **IDName** | **M** | **String** | | **50** | |  | | | **Buyer’s identification name** |
| **IDNumber** | **M** | **String** | | **20** | |  | | | **Buyer’s identification number** |
| **Phone** | **M** | **String** | | **32** | |  | | | **Buyer’s telephone number** |
| **Email** | **M** | **String** | | **256** | |  | | | **Buyer’s email.** |
| PayCompany | O | String | | 2 | | 01: Alipay  02: Tenpay  03: AMEX  04: DSC  05: MC  06: VISA  07: Paypal  08: UnionPay | | | Payment company |
| PayConfNo | O | String | | 50 | |  | | | Payment Confirmation Number (provided by the Payment Company) |
| PayRef1 | O | String | | 50 | |  | | | Other Payment Info (Reserved for future use) |

### Response File

* **Request Method**: Client file server SFTP GET from ECMS file server
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_M\_R.XML (X*XX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_M is the original request manifest file, ‘R’ stands for response file)
* **Structure**

|  |  |
| --- | --- |
| **Element** | **remark** |
| <Response> |  |
| <ManifestResults> |  |
| < ManifestResult >…</ ManifestResult > |  |
| </ManifestResults> |  |
| </Response> |  |

* **Element**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Element** | **M/O** | **Type** | | **Length** | | **Value** | | **Description** |
| **ManifestResults** | | |  | |  | |  | |
| **ManifestResult** | | |  | |  | |  | |
| **Ack** | **M** | **String** | | **10** | |  | | **Success or Failure** |
| **ExecuteTime** | **M** | **String** | | **16** | |  | | **UTC yyyyMMddHHmmss** |
| **Code** | **M** | **String** | | **10** | |  | | **Refer to 6.1 error codes** |
| **Message** | **M** | **String** | | **500** | |  | | **Refer to 6.1 error codes** |
| **ManifestId** | **M** | **String** | | **32** | |  | |  |

### Message Example

**Request:** manifest XML

<?xml version="1.0" encoding="utf-8"?>

<Manifest>

<Header>

<ManifestId>201604110001</ManifestId>

<ActionCode>A</ActionCode>

<SendDate>20160411143030</SendDate>

<MerchantId>XXX01</MerchantId>

<CarrierId>ECMS</CarrierId>

<Version>1.0</Version>

</Header>

<Shipments>

<Shipment>

<TrackNo>APEJFK0000000008</TrackNo>

<OrderNo>108-4039934-4021019</OrderNo>

<Mawb>99911112222</Mawb>

<Description>保温杯</Description>

<OrderDate>20160410143030</OrderDate>

<Weight>0.75</Weight>

<Length>10</Length>

<Width>10</Width>

<Height>30</Height>

<WeightUnit>kg</WeightUnit>

<LengthUnit>cm</LengthUnit>

<GoodsValue>371.4</GoodsValue>

<FreightValue>20.0</FreightValue>

<TaxValue>37.14</TaxValue>

<ActuralPaid>428.54</ActuralPaid>

<Insurance>0</Insurance>

<Currency>CNY</Currency>

<Danger>N</Danger>

</Shipment>

</Shipments>

<Contents>

<ContentItem>

<ProductCode>B00CHOUI8601</ProductCode>

<Brand>Zojirushi</Brand>

<Name>保温杯(Zojirushi)</Name>

<Description>保温杯</Description>

<Quantity>1</Quantity>

<UnitPrice>371.4</UnitPrice>

<Country>US</Country>

<UnitWeight>0.75</UnitWeight>

<Specification>10×10×30 cm</Specification>

</ContentItem>

</Contents>

<Consignee>

<FirstName>周</FirstName>

<LastName>星星</LastName>

<Country>CN</Country>

<State>浙江省</State>

<City>台州市</City>

<ZipCode>330000</ZipCode>

<Address1>临海市东塍镇屈家村 临海辉辉厂二楼</Address1>

<CellPhone>18535170001</CellPhone>

<Email>18535170001@ecmsglobal.com</Email>

</Consignee>

<Shipper>

<CompanyName>亚马逊</CompanyName>

<Country>US</Country>

<State>California</State>

<City>Los Angeles</City>

<ZipCode>90001</ZipCode>

<Address1>Los Angeles</Address1>

<Email>amazon@amazon.com</Email>

</Shipper>

<Buyer>

<IDType>1</IDType>

<IDName>周星星</IDName>

<IDNumber>620521199101111111</IDNumber>

<Phone>18535170001</Phone>

<Email>18535170001@ecmsglobal.com</Email>

<PayCompany>01</PayCompany>

</Buyer>

</Manifest>

**Response:**

## Mawb Interface

### Protocol

* **Request Method**: Client file server SFTP PUT to ECMS file server
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_MA.XML (XXX stands for the unique ID assigned to the client by ECMS for interaction, ZZZZZZ stands for 6 digits sequence number, name appends with “MA” to represent the mawb file)

### Request Message

* **Mawb Structure**

|  |  |
| --- | --- |
| **Element** | **remark** |
| <MawbInfo> |  |
| <Header>…</Header> |  |
| <Mawb>…</Mawb> |  |
| </MawbInfo> |  |

* **Element**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Element** | **M/O** | | **Type** | **Length** | | **Value** | | **Description** | | |
| **Header** | |  | | |  | |  | |  |
| **Version** | **M** | | **String** | **8** | | **Default : 1.0** | | **version** | | |
| **ActionCode** | **M** | | **String** | **1** | | **Add:A,**  **Update:U** | |  | | |
| **SendDate** | **M** | | **String** | **16** | |  | | **yyyyMMddHHmmss** | | |
| **MerchantId** | **M** | | **String** | **10** | |  | | **Merchant id , pre-assigned by ECMS** | | |
| **CarrierId** | **M** | | **String** | **4** | |  | | **Fiex: ECMS** | | |
| **MAWB** | |  | | |  | |  | |  |
| **MAWBNo** | **M** | | **String** | **16** | |  | | **Master air waybill number** | | |
| **PalletQuantity** | **M** | | **Int** | **8** | |  | |  | | |
| **PackageQuantity** | **M** | | **Int** | **11** | |  | |  | | |
| **FlightNo** | **M** | | **String** | **16** | |  | |  | | |
| **GrossWeight** | **M** | | **Double** | **10,2** | |  | | **Kg/lb** | | |
| **OriginPort** | **M** | | **String** | **3** | |  | | **IATA ,International Air Transport Association** | | |
| ViaPort | O | | String | 3 | |  | | IATA ,International Air Transport Association | | |
| **DestinationPort** | **M** | | **String** | **3** | |  | | **IATA ,International Air Transport Association** | | |
| **ETD** | **M** | | **String** | **16** | |  | | **yyyyMMddHHmmss** | | |
| **ETA** | **M** | | **String** | **16** | |  | | **yyyyMMddHHmmss** | | |
| **ATD** | **M** | | **String** | **16** | |  | | **yyyyMMddHHmmss** | | |
| **ATA** | **M** | | **String** | **16** | |  | | **yyyyMMddHHmmss** | | |

### Response File

* **Request Method**: Client file server SFTP GET from ECMS file server
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_MA\_R.XML (X*XX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_MA is the original request mawb file, ‘R’ stands for response file)
* **Structure**

|  |  |
| --- | --- |
| **Element** | **remark** |
| <Response> |  |
| <MawbResults> |  |
| < MawbResult >…</ MawbResult > |  |
| </MawbResults> |  |
| </Response> |  |

* **Element**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Element** | **M/O** | **Type** | | **Length** | | **Value** | | **Description** |
| MawbResults | | |  | |  | |  | |
| MawbResult | | |  | |  | |  | |
| **Ack** | **M** | **String** | | **10** | |  | | **Success or Failure** |
| **ExecuteTime** | **M** | **String** | | **16** | |  | | **UTC yyyyMMddHHmmss** |
| **Code** | **M** | **String** | | **10** | |  | | **Refer to 6.1 error codes** |
| **Message** | **M** | **String** | | **500** | |  | | **Refer to 6.1 error codes** |
| Mawb | **M** | **String** | | **32** | |  | |  |

### Message Example

<?xml version="1.0" encoding="UTF-8"?>

<MawbInfo>

<Header>

<Version>1.0</Version>

<ActionCode>A</ActionCode>

<SendDate>20160411143030</SendDate>

<MerchantId>XXX01</MerchantId>

<CarrierId>ECMS</CarrierId>

</Header>

<MAWBNo>

<MAWBNo>99911112222</MAWBNo>

<PalletQuantity>10</PalletQuantity>

<PackageQuantity>2000</PackageQuantity>

<FlightNo>MH3701</FlightNo>

<GrossWeight>500</GrossWeight>

<OriginPort>SCS</OriginPort>

<DestinationPort>CAN</DestinationPort>

<ETD>20160411143030</ETD>

<ETA>20160412143030</ETA>

<ATD>20160411143035</ATD>

<ATA>20160412143035</ATA>

</MAWBNo>

</MawbInfo>

## Event Tracking Interface

### Protocol

* **Request Method**: Client Server SFTP GET from ECMS file server.
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_E.XML (XXX stands for the unique ID assigned to the client by ECMS for interaction, ZZZZZZ stands for 6 digits sequence number, ‘E’ stands for event tracking file)

### Tracking File

* **Structure**

|  |  |
| --- | --- |
| **Element** | **remark** |
| <Tracking> |  |
| <MerchantId></MerchantId> |  |
| <PackageTrackingInfos> | Maximum 1000 |
| <PackageTrackingInfo> | Repeat |
| <TrackingEventHistory> |  |
| <TrackingEventDetail> </TrackingEventDetail> | Repeat |
| <TrackingEventDetail> </TrackingEventDetail> |  |
| </TrackingEventHistory> |  |
| </PackageTrackingInfo> |  |
| </PackageTrackingInfos> |  |
| </Tracking> |  |

* **Element**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | **M/O** | **Type** | **Length** | **Value** | **Description** |
| **MerchantId** | **M** | **String** | **10** |  |  |
| **CarrierId** | **M** | **String** | **4** |  | **Fiex: ECMS** |
| PackageTrackingInfo |  |  |  |  |  |
| **TrackNo** | M | String | 64 |  | Client’s Tracking Number. |
| TrackingEventHistory |  |  |  |  |  |
| TrackingEventDetail |  |  |  |  |  |
| EventCode | M | String | 8 |  |  |
| EventCodeDesc | M | String | 512 |  |  |
| EventDateTime | M | String |  |  | yyyyMMddHHmmsszzz |

### Transfer Summary File

* **Request Method**: Client file server SFTP PUT to ECMS file server
* **File Type:** CSV
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_*YYYYMMDD*\_E.CSV (comma separated filename list, XXX stands for the unique ID assigned to client by ECMS for interaction)

**File Content Example：***001\_20151030163020\_000001\_E.XML, 001\_20151030163020\_000002\_E.XML, 001\_20151030163020\_000003\_E.XML, 001\_20151030163020\_000004\_E.XML, 001\_20151030163222\_000001\_E.XML*

### Message Example

* **Request:** tracking body

<?xml version="1.0" encoding="UTF-8"?>

<Tracking>

<MerchantId>XXX01</MerchantId>

<CarrierId>ECMS</CarrierId>

<PackageTrackingInfos>

<PackageTrackingInfo>

<TrackNo>APEJFK0000000008</TrackNo>

<TrackingEventHistory>

<TrackingEventDetail>

<EventCode>EVENT302</EventCode>

<EventCodeDesc>SENT\_SCAN</EventCodeDesc>

<EventDateTime>20160413113030CST</EventDateTime>

</TrackingEventDetail>

<TrackingEventDetail>

<EventCode>EVENT301</EventCode>

<EventCodeDesc>SIGNED</EventCodeDesc>

<EventDateTime>20160414113031CST</EventDateTime>

</TrackingEventDetail>

</TrackingEventHistory>

</PackageTrackingInfo>

<PackageTrackingInfo>

<TrackNo>APEJFK0000000009</TrackNo>

<TrackingEventHistory>

<TrackingEventDetail>

<EventCode>EVENT101</EventCode>

<EventCodeDesc>ARRIVAL</EventCodeDesc>

<EventDateTime>20160412113031CST</EventDateTime>

</TrackingEventDetail>

<TrackingEventDetail>

<EventCode>EVENT102</EventCode>

<EventCodeDesc>DEPARTURE</EventCodeDesc>

<EventDateTime>20160413113032CST</EventDateTime>

</TrackingEventDetail>

</TrackingEventHistory>

</PackageTrackingInfo>

</PackageTrackingInfos>

</Tracking>

## Invoice Interface

### Invoice File

* **Request Method**: Client Server SFTP GET from ECMS file server.
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXXXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_Y.XML (XXXXX stands for the unique ID assigned to the client by ECMS for interaction, ZZZZZZ stands for 6 digits sequence number, Y stands for the invoice type，’F’ for Freight, ‘D’ for duty)
* **Invoice Fields**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | **M/O** | **Type** | **Length** | **Value** | **Description** |
| Header |  |  |  |  |  |
| **MessageID** | **M** | **String** | **32** |  | **Identify a unique file** |
| **ActionCode** | **M** | **String** | **1** |  | **Add : A, Update : U, Delete : D.** |
| **CarrierId** | **M** | **String** | **4** |  | **Fiex: ECMS** |
| **MerchantId** | **M** | **String** | **10** |  | **Merchant id , pre-assigned by ECMS** |
| **SendDate** | **M** | **String** | **16** |  | **File send time. yyyyMMddHHmmss** |
| **Version** | **M** | **String** | **4** | **Default 1.0** | **Version** |
| Invoice |  |  |  |  |  |
| **InvoiceNumber** | **M** | **String** | **30** |  | **Invoice Number , generated by ECMS** |
| **InvoiceDate** | **M** | **String** | **16** |  | **Invoice create date. yyyyMMdd** |
| **Amount** | **M** | **Double** | **10,2** |  | **Total amount of the invoice** |
| **InvoiceType** | **M** | **String** | **10** |  | **F/D, F: Freight ; D：Duty** |
| **Currency** | **M** | **String** | **3** | **Must be 3 characters, Default=USD** | **Must be 3 characters, Default=USD** |
| **WeightUnit** | **O** | **String** | **2** | **Default :kg** | **Weight Unit. kg/lb** |
| Package |  |  |  |  |  |
| ECMSTrackNo | O | String | 32 |  | Pre-assinged by ECMS |
| **TrackNo** | **M** | **String** | **64** |  | **Tracking Number from CLIENT** |
| **OrderNo** | **M** | **String** | **64** |  | **Order Number from CLIENT** |
| **ShipMethod** | **M** | **String** | **30** |  | **Service name defined by ECMS** |
| **Amount** | **M** | **Double** | **10,2** |  | **Total amount of the parcel** |
| Weight | O | Double | 10,2 |  | The chargeble weight of the parcel |
| Charge | O |  |  |  |  |
| **ChargeCode** | **M** | **String** | **20** |  | **Detailed charge type to be defined on different settlement terms.** |
| **ChargeAmount** | **M** | **Double** | **10,2** |  | **The total amount of the charge type, Retained two decimal places** |

* **Invoice Example**

<?xml version="1.0" encoding="UTF-8"?>

<Invoice>

<Header>

<MessageID>201604110002</MessageID>

<ActionCode>A</ActionCode>

<CarrierId>XXX01</CarrierId>

<MerchantId>ECMS</MerchantId>

<SendDate>20160413143001</SendDate>

<Version>1.0</Version>

</Header>

<InvoiceHead>

<InvoiceNumber>P51412015010001575</InvoiceNumber>

<InvoiceDate>20160413</InvoiceDate>

<Amount>37.14</Amount>

<InvoiceType>D</InvoiceType>

<Currency>CNY</Currency>

<WeightUnit>kg</WeightUnit>

</InvoiceHead>

<InvoiceItems>

<InvoiceItem>

<TrackNo>APEJFK0000000008</TrackNo>

<OrderNo>108-4039934-4021019</OrderNo>

<ShipMethod>Standard</ShipMethod>

<Amount>37.14</Amount>

<Weight>0.75</Weight>

</InvoiceItem>

</InvoiceItems>

</Invoice>

### Transfer Summary File

* **Request Method**: Client file server SFTP PUT to ECMS file server
* **File Type:** CSV
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_*YYYYMMDD*\_FD.CSV (comma separated filename list, XXX stands for the unique ID assigned to client by ECMS for interaction)

**File Content Example：***XXX01\_20150910101010\_000001\_Y.XML, XXX01\_20150910101010\_000002\_Y.XML, XXX01\_20150910101010\_000003\_Y.XML, XXX01\_20150910101010\_000004\_Y.XML, XXX01\_20151030163222\_000001\_Y.XML*

### Invoice Audit File

* **Request Method**: Client file server SFTP PUT to ECMS file server, after the invoice is correctly processed
* **File Type:** XML
* **Directory Structure**: [*ECMS Provides*](#_SFTP_Directory_Structure_1)
* **File Name:** *XXX*\_YYYYMMDDHHMMSS\_ZZZZZZ\_Y\_R.XML (the summary response file is for each invoice file, name is the original file name appends with “R” to represent the summary response file)
* **File content example**

<?xml version="1.0" encoding="UTF-8"?>

<InvoiceResponse>

<Ack>Success</Ack>

<Code>100</Code>

<Message></Message>

<ResponseNumber>20150719050611554530</ResponseNumber>

<InvoiceNumber>2015071805061150477F</InvoiceNumber>

<InvoiceDate>2015-07-18</InvoiceDate>

<InvoiceTotalAmt>8.23</InvoiceTotalAmt>

<InvoiceCurrency>USD</InvoiceCurrency>

<InvoiceType>F</InvoiceType>

</InvoiceResponse>

# Deployments

* QA Environment： Please contact ECMS
* Production Environment : Please contact ECMS

# Appendix

## Error Codes

The following return code defines the return codes value and related message information in the response file, including Manifest Interface and Event Tracking Interface

|  |  |
| --- | --- |
| **Code** | **Message** |
| 100 | Successful! |
| 101 | Duplicated manifestId number request |
| 102 | TBD |
| 103 | TBD |
| 104 | TBD |
| 105 | TBD |
| 106 | Tracking number has been used previously. |
| 107 | Field and elements validation message, i.e.  (xxxx SenderAddress) Syntax error. Please refer to API guide and try again.  (xxxx ReceiveAddress) Syntax error. Please refer to API guide and try again.  FirstName: Mandatory / String maxLength=100  LastName: String maxLength=100  CompanyName: String maxLength=100  Country: Mandatory / String Length=2  State: Mandatory / String maxLength=50  City: Mandatory / String maxLength=50  ZipCode: Mandatory / String maxLength=10  Address1: Mandatory / String maxLength=200  Address2: String maxLength=200  Address3: String maxLength=200  Phone: String maxLength=20  Extension: String maxLength=10  Fax: String maxLength=20  CellPhone: Mandatory / String maxLength=20  Email: Mandatory / String maxLength=64, Format: [xxx@xxx.com](mailto:xxx@xxx.com).  IdName: String maxLength=50  IdNumber: String maxLength=20  PayBy: Mandatory / String maxLength=2  PayConfNo: Mandatory / String maxLength=50  PayRef2: String maxLength=50  PayRef3: String maxLength=50 |
| 108 | Package data error.  CreateShipment volume is exceed the limit allow.  TrackNO syntax error  OrderNo syntax error  Service error, please contact customer service.  Weight value error (must greater than 0)  Declared value must be greater than 0  Account: Option / String MaxLength=50.  CouponCode: Option / String MaxLength=50.  ShipRef1 value error (cannot greater than 100)  ShipRef2 value error (cannot greater than 100)  ShipRef3: Option / String MaxLength=50.  ShipRef4: Option / String MaxLength=50.  ShipRef5: Option / String MaxLength=50.  ShipRef6: Option / String MaxLength=50. |
| 109 | ContentItemdata error  ContentItemcannot be blank  ContentItemDescription cannot be blank. The max char cannot over 200 chars.  ContentItemQty must be greater than 0  ContentItemCountry must be 2 characters  ContentItem{0} CustomsCode: Option / String Length=8.  ContentItem{0} ProductCode: Option / String MaxLength=50.  ContentItem{0} Category: Option / String MaxLength=20.  ItemRef1: Option / String MaxLength=50.  ItemRef2: Option / String MaxLength=50.  ItemRef3: Option / String MaxLength=50.  ItemRef4: Option / String MaxLength=50.  ItemRef5: Option / String MaxLength=50.  ItemRef6: Option / String MaxLength=50. |

## Tracking Event Codes

|  |  |
| --- | --- |
| **ECMS\_EVENT\_CODE** | **ECMS\_EVENT\_DESCRIPTION** |
| EVENT\_101 | Carrier notified to pick up package |
| EVENT\_201 | Arrival Scan |
| EVENT\_202 | Departure Scan |
| EVENT\_203 | Arrived at destination country |
| EVENT\_204 | Initiated customs clearance process |
| EVENT\_205 | Completed customs clearance process |
| EVENT\_227 | You have successfully uploaded the consignee information |
| EVENT\_301 | Delivered |
| EVENT\_302 | Out for delivery |
| EVENT\_311 | Tendered to local postal carrier for final delivery (No POD) |
| EVENT\_402 | Customs clearance delay |
| EVENT\_408 | Returning to seller |
| EVENT\_411 | Paperwork(forecast) received - did not receive shipment |
| EVENT\_412 | Received shipment - did not receive paperwork(forecast) |
| EVENT\_426 | Confiscated or seized by an official government authority |
| EVENT\_433 | Additional information is required to process the shipment through customs. Customer needs to contact the carrier and provide additional information (often the Tax ID number) to ensure timely delivery. |

## SFTP Directory Structure

|  |  |
| --- | --- |
| manifests | $ROOT$\manifest\in |
| manifests response | $ROOT$ \manifest\out |
| mawb | $ROOT$\mawb\in |
| Mawb response | $ROOT$\mawb\out |
| tracking | $ROOT$ \event\out |
| tracking TS | $ROOT$\event\in |
| Invoice | $ROOT$\invoice \out |
| Invoice TS | $ROOT$\invoice\in |
| invoice audit | $ROOT$\invoice\audit\in |

* + TS : Transfer summary File
  + The naming of “in” and “out” is from ECMS perspective