Interface Specification

ODS: Invoice Ingestion API

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Document Approval

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# Introduction

The document describes in detail about the web API specifications for Customer Event data import into ODS.

# System Overview

This document covers in its entirety, the service/API details required for any Invoice data Source system to integrate and push data update events to ODS via the specified Invoice web API implemented as part of the BIC Graphic Integration Platform.

# Definitions

|  |  |
| --- | --- |
| ***Term*** | ***Definition*** |
| WSDL | Web Services Definition Language |
| XML | eXtensible Markup Language |
| XSD | Schema which defines the message format |
| SSL | Secured Socket Layer |
| HTTP | Hypertext Transfer Protocol |
| WADL | Web Application Description Language |
| JSON | JavaScript Object Notation |
| REST | Representational State Transfer |

# Service Specification

## Service Details

|  |  |  |
| --- | --- | --- |
| ***SERVICE SPECIFICATION PARAMETERS*** | ***SERVICE SPECIFICATION VALUES*** | ***COMMENTS*** |
| ***Service Name*** | InvoiceIngestionAPI |  |
| ***Protocol*** | HTTP/REST |  |
| ***Security Protocols*** | NONE |  |
| ***DEV Service URL*** | TBD |  |
| ***TEST Service URL*** | TBD |  |
| ***PROD Service URL*** | TBD |  |

## Service Operations:

|  |  |  |
| --- | --- | --- |
| ***OPERATIONS*** | ***METHOD*** | ***COMMENTS*** |
| ***invoiceCUD*** | POST |  |

### Operation: invoiceCUD

Systems that are SOT’s for invoice data may transmit any add, update or deletes in invoice information to ODS using this operation. The expected data elements and JSON structure required to use this functionality are described in the sections below:

### Data Elements:

#### Request:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data | *Element Name* | *Data Type* | *Required (Y/N)* | *Sample Values* |
| EventRequest | EventObject | string | Y | Invoice |
| EventRequest | EventType | string | Y | CREATE/UPDATE/DELETE |
| EventRequest | EventDateTime | dateTime | Y | 2018-12-26T00:00:00 |
| EventRequest | EventSourceSystem | string | Y | EBS |
| EventRequest | EventBusinessID | string | Y | Business ID – In this case the Invoice # of the Invoice that needs updating on ODS |
| EventRequest/invoice | invoiceNumber | String | Y | Unique ID. |
| EventRequest/invoice | invoiceType | String | N |  |
| EventRequest/invoice | invoiceDate | DateTime | N |  |
| EventRequest/invoice | dueDate | DateTime | N |  |
| EventRequest/invoice | invoiceAmount | Decimal | N | Total Invoice Amount for the order |
| EventRequest/invoice | poNumber | String | N | Customer Purchase Order Number associated to the Invoice |
| EventRequest/invoice | soNumber | String | N | Sales Order Number associated to the Invoice |
| EventRequest/invoice | CurrencyCode | String | N | Examples:USD/CAN |
| EventRequest/invoice | invoiceStatus | String | N | Open/Completed. Defines Payment status for an Invoice |
| EventRequest/invoice | amountDue | Decimal | N | Any amount due to be paid by customer , when the invoice is partially fulfilled. |
| EventRequest/invoice | customerNumber | String | N |  |
| EventRequest/invoice | customerName | String | N |  |
| EventRequest/invoice | customerParentNumber | String | N |  |
| EventRequest/invoice | fileName | String | N |  |
| EventRequest/invoice | fileType | String | N |  |
| EventRequest/invoice | fileURL | String | N |  |
| EventRequest/invoice | fileCreationDate | DateTime | N |  |

#### Response:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Data*** | ***Element Name*** | ***Data Type*** | ***Required (Y/N)*** | ***Sample Values*** |
| ***Grouping*** |
| *EventResponse* | EnterpriseEventID | string | Y | Event ID returned from ODS |
| *EventResponse* | EventBusinessID | string | Y | Event business id sent by source system in the request |
| *EventResponse* | EventStatus | dateTime | Y | SUCCESS/ERROR |
| *EventResponse* | EventErrorCode | String | N | INTERR-100 |
| *EventResponse* | EventStatusMessage | string | N | Any error message or event details to source system |
| *EventResponse* | MustRetryFlag | string | Y | If error then let source know to retry again.  true/false |

### Sample Payloads:

#### Request

{    
   "EventRequest":{    
      "EventObject":"INVOICE",  
      "EventType":"CREATE",  
      "EventDateTime":"2018-12-26T00:00:00",  
      "EventSourceSystem":"EBS",  
      "EventBusinessID":"1234",  
      "Invoice":{    
         "invoiceNumber":"1234",  
         "type":"",  
         "invoiceDate":"2018-12-26T00:00:00",  
         "dueDate":"2019-01-26T00:00:00",  
         "invoiceAmount":"550.00",  
         "poNumber":"Po1234",  
         "soNumber":"1275638217",  
         "currencyCode":"USD",  
         "invoiceStatus":"OPEN",  
         "amountDue":"500.00",  
         "customerNumber":"4098",  
         "customerName":"4IMPRINT",  
         "customerParentNumber":"",  
         "fileName":"Invoice1234.pdf",  
         "fileType":"PDF",  
         "fileURL":"http://bicgraphic.com/invoice/Invoice1234.pdf",  
         "fileCreationDate":"2018-12-26T00:00:00"  
      }  
   }  
}

#### Response:

{

"EventResponse": {

"EnterpriseEventID": "ODSEvent1231",

"EventBusinessID": "Invoice#1234",

"EventStatus": "SUCCESS",

"EventStatusMessage": "",

"MustRetryFlag": "false"

}

}

#### Error:

{

"EventResponse": {

"EnterpriseEventID": "ODSEvent1231",

"EventBusinessID": "Invoice#123",

"EventStatus": "ERROR",

"EventErrorCode": "INTERR-110",

"EventStatusMessage": "Incorrect Data structure. Fix the data structure and retry",

"MustRetryFlag": "true"

}

}

### Data Structure

The operation specific data elements are provided in a JSON Schema format to help conform and create JSON data required to

|  |  |  |
| --- | --- | --- |
| ***Artifact Name*** | ***Artifact File*** | ***Comments/Usage*** |
| *EventRequest JSON Schema* |  | This document provides the schema required to build the JSON data to invoke the “invoiceCUD” operation. |
| *EventResponse JSON Schema* |  | This document provides the schema required to build the JSON data response from the “invoiceCUD” operation. |
|  |  |  |

# References

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| ***Document ID*** | ***Title*** | ***Comments*** |
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