

Oracle Cloud and EDI Integration

Industries for the Blind and Visually Impaired, Inc.

 997 Out Bound

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| Author: | Subhendu Modak |
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# Document Control

## Change Record

1

| Date | Author | Version | Change Reference |
| --- | --- | --- | --- |
| 1 Jan -20 | Subhendu Modak | 1.0 | No Previous Document |
| 4/12/2020 | Subhendu Modak | 3.0 | Interchange Receiver  ID |
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## Reviewers

| Name | Position |
| --- | --- |
| Brian Schell | Project Director |
|  |  |

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## Functional Overview

Electronic Data Interchange is the exchange of business documents, such as purchase orders and invoices, between business partners in a common format directly from one system to another.

EDI is used in nearly all the major industries. EDI is regarded as the standard for the electronic exchange of documents from one company to another.

## Implementation

IBVI will receive Purchase Order file from Essendant. IBVI OIC job will read the file and create sales order in Oracle by using OIC Adapter. Either success or failure acknowledgement will be sent to customer.

## Essendant Staging and Connectivity Information

TEST

Server: 12.188.254.136

Port: 22

User: <Customer>

Folders:

/home/<Customer>/in

/home/<Customer>/in/archive

/home/<Customer>/out

/home/<Customer>/out/archive

PROD

Server: 12.188.254.137

Port: 22

User: <Customer>

Folders:

/home/<Customer>/in

/home/<Customer>/in/archive

/home/<Customer>/out

/home/<Customer>/out/archive

## Data Map

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **FIELD** |  | **ELEM** |  | **MAX/MIN** |  | **DESCRIPTION** | | **VALUE** | **Oracle Logic/Field** |
| ISA01 | M | I01 |  | 2/2 |  | Authorization | | ‘00’ No Authorization Information | 00 |
|  |  |  |  |  |  | Information Qualifier | | Present |  |
| ISA02 | M | I02 |  | 10/10 |  | Authorization | | Blanks | Blanks |
|  |  |  |  |  |  | Information |  |  |  |
| ISA03 | M | I03 |  | 2/2 |  | Security Information | | ‘00’ No Security Information | 00 |
|  |  |  |  |  |  | Qualifier |  | Present |  |
| ISA04 | M | I04 |  | 10/10 |  | Security Information | | Blanks | Blanks |
| ISA05 | M | I05 |  | 2/2 |  | Interchange ID | | ‘01’ DUNS Number |  |
|  |  |  |  |  |  | Qualifier |  |  | 01 |
| ISA06 | M | I06 |  | 15/15 |  | Interchange Sender ID | | ‘007981038’ = USSCO Test ID | 006096200 |
| ISA07 | M | I05 |  | 2/2 |  | Interchange ID | | Trading Partner’s ID Qualifier | 01 |
|  |  |  |  |  |  | Qualifier |  |  |  |
| ISA08 | M | I07 |  | 15/15 |  | Interchange Receiver | | Trading Partner’s ID (Your | ISA06 Element of incoming document (850) |
|  |  |  |  |  |  | ID |  | company's ID) |  |
| ISA09 | M | I08 |  | 6/6 |  | Interchange Date | | YYMMDD format | SYSDATE |
| ISA10 | M | I09 |  | 4/4 |  | Interchange Time | | HHMM format | SYSTIME |
| ISA11 | M | I10 |  | 1/1 |  | Interchange Control ID | | ‘U’ U.S. EDI ASC X12, TDCC & UCS | | |
| ISA12 | M | I11 |  | 5/5 |  | Interchange Version # | | ‘00401’ | 004010 |
| ISA13 | M | I12 |  | 9/9 |  | Interchange Control # | | An identifying number used to | General Customer: Customer SO Number  Essendant:  System Incremented Number |
|  |  |  |  |  |  |  |  | track and audit this interchange |  |
| ISA14 | M | I13 |  | 1/1 |  | Acknowledgment | | ‘0’ Interchange Ack. Not Requested | 0 |
|  |  |  |  |  |  | Requested |  | '1' Interchange Ack. Requested |  |
| ISA15 | M | I14 |  | 1/1 |  | Test Indicator | | ‘T’ Test | T – Test  P - Prod |
|  |  |  |  |  |  |  |  | ‘P’ Production |  |
| ISA16 | M | I15 |  | 1/1 |  | Subelement Separator | | ‘>’ | > |
| EXAMPLE: | |  |  |  |  |  |  |  |  |

ISA\*00\* \*00\* \*01\*012345678 \*01\*987654321 \*940425\*0930\*U\*00401\*000003431\*0\*P\*>~

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GS** | **GROUP ENVELOPE** | | | |  |  |  |
|  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** | **VALUE** | **Oracle Logic/Field** |
| GS01 |  | M | 479 | 2/2 | Functional ID Code | ‘RS’ Order Status Report | FA |
| GS02 |  | M | 142 | 2/15 | Application Sender’s Code | ‘007981038’ = Essendant Inc Test ID | Customer ID |
|  |  |  |  |  |  |  |  |
| GS03 |  | M | 124 | 2/15 | Application Receiver’s | Trading Partner’s ID (Your | 006096200 |
|  |  |  |  |  | Code | company's ID) |  |
| GS04 |  | M | 373 | 8/8 | Date | CCYYMMDD format | SYSDATE |
| GS05 |  | M | 337 | 4/6 | Time | HHMM or HHMMSS format | SYSTIME |
| GS06 |  | M | 28 | 1/9 | Group Control # | An identifying number used to | General Customer: Group\_Number DFF  Essendant:  System Incremented Number |
|  |  |  |  |  |  | track this group envelope |  |
| GS07 |  | M | 455 | 1/2 | Responsible Agency | ‘X’ for X12 format from the | X |
|  |  |  |  |  | Code | Accredited Standards Committee |  |
| GS08 |  | M | 480 | 1/12 | Version/Release/ | ‘004010’ | 004010 |
|  |  |  |  |  | Identifier Code |  |  |
| EXAMPLE | | | GS\*FA\*007981038\*012345678\*19940326\*1100\*102\*X\*004010~ | | | |  |

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| **ST** | **TRANSACTION SET HEADER** | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** |  | **DESCRIPTION** | **VALUE** | **Oracle Logic/Field** |
| ST01 |  | M | 143 | 3/3 |  | Transaction Set Id | ‘997’ = Functional Acknowledgement | 997 |
|  |  |  |  |  |  | Code |  |  |
| ST02 |  | M | 329 | 4/9 |  | Transaction Set | An identifying number used to | Message\_Transaction\_Number DFF |
|  |  |  |  |  |  | Control # | track this particular transaction |  |
|  |  |  |  |  |  |  | (document) |  |
| EXAMPLE | | |  | | | ST\*997\*000008353~ |  |  |

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| **AK1** | **Functional Group Response Header** | | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** |  | **VALUE** | **Oracle Logic/Field** |
| AK101 |  | M | 479 | 2/2 | Functional Identifier | This value | is the functional ID | PO |
|  |  |  |  |  | Code | found in the GS segment of the | |  |
|  |  |  |  |  |  | functional | group being |  |
|  |  |  |  |  |  | acknowledged. | |  |
| AK102 |  | M | 28 | 1/9 | Group Control Number | This value | is the functional group | Group\_Number DFF |
|  |  |  |  |  |  | control number found in the GS | |  |
|  |  |  |  |  |  | segment of | the functional group |  |
|  |  |  |  |  |  | being acknowledged. | |  |
| EXAMPLE | | | AK1\*IN\*300~ | |  |  |  |  |

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| **AK2** | **Transaction Set Response Header** | | | | |  |  |
|  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** | **VALUE** | **Oracle Logic/Field** |
| AK201 |  | M | 143 | 3/3 | Transaction Set | This value is the transaction set | 850 |
|  |  |  |  |  | Identifier Code | ID found in the ST segment of the |  |
|  |  |  |  |  |  | transaction set being |  |
|  |  |  |  |  |  | acknowledged. |  |
| AK202 |  | M | 329 | 4/9 | Transaction Set | This value is the transaction set | Message\_Transaction\_Number DFF |
|  |  |  |  |  | Control Number | control number found in the ST |  |
|  |  |  |  |  |  | segment of the transaction set |  |
|  |  |  |  |  |  | being acknowledged. |  |
| EXAMPLE | | |  | | AK2\*810\* 5329~ |  |  |

**AK3** **Segment Note/Information**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **FIELD** |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** | **VALUE** | **Oracle Logic/Field** |
| AK301 | M | 721 | 2/3 | Segment ID Code | This value is the segment ID of | Name of the Segment which error out |
|  |  |  |  |  | the data segment in error. |  |
|  |  |  |  |  | e.g. IT1 |  |
| AK302 | M | 719 | 1/6 | Segment Position in | e.g. 8 | Position of the element |
|  |  |  |  | Transaction Set |  |  |
| AK303 | O | 447 | 1/6 | Loop Identifier Code | e.g. PO1 |  |
| AK304 | O | 720 | 1/3 | Segment Syntax Error | 1=unrecognized segment id | Error code appropriate according to error |
|  |  |  |  | Code | 2=unexpected segment |  |
|  |  |  |  |  | 3=mandatory segment missing |  |
|  |  |  |  |  | 4=loop occurs over maximum allowed |  |
|  |  |  |  |  | 5=segment exceeds maximum use |  |
|  |  |  |  |  | 6=segment not defined in |  |
|  |  |  |  |  | transaction set |  |
|  |  |  |  |  | 7=segment not in proper sequence |  |
|  |  |  |  |  | 8=segment has data element errors |  |
| EXAMPLE | |  | | AK3\*N3\*2\*N1\*3~ |  |  |

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| **AK4** | **Element Note/Information** | | | | |  |  |
|  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** | **VALUE** | **Oracle Logic/Field** |
| AK401 |  | M | C030 |  | Position in Segment | e.g. 3 | Position of the Segment which error out |
| AK402 |  | O | 725 | 1 / 4 | Data Element Reference | e.g. 98 | Element Number |
|  |  |  |  |  | Number |  |  |
| AK403 |  | M | 723 | 1/3 | Data Element Syntax | 1=mandatory data element missing | Error code appropriate according to error |
|  |  |  |  |  | Error Code | 2=conditional required data |  |
|  |  |  |  |  |  | element missing |  |
|  |  |  |  |  |  | 3=too many data elements |  |
|  |  |  |  |  |  | 4=data element too short |  |
|  |  |  |  |  |  | 5=data element too long |  |
|  |  |  |  |  |  | 6=invalid character in data |  |
|  |  |  |  |  |  | element |  |
|  |  |  |  |  |  | 7=invalid code value |  |
|  |  |  |  |  |  | 8=invalid date |  |
|  |  |  |  |  |  | 9=invalid time |  |
|  |  |  |  |  |  | 10=exclusion condition violated |  |
| AK404 |  | O | 724 | 1/99 | Copy of Bad Data |  | Bad Element |
|  |  |  |  |  | Element |  |  |
| EXAMPLE | | |  | | AK4\*3\*98\*1~ |  |  |

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| **AK5** | **Transaction Set Response Trailer** | | | | |  |  |
|  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** | **VALUE** | **Oracle Logic/Field** |
| AK501 |  | M | 717 | 1/1 | Transaction Set | ‘A’=accepted | As per the Order import status |
|  |  |  |  |  | Acknowledgement Code | ‘E’=accepted but errors were noted  ‘R’=rejected | ‘A’=accepted |
|  |  |  |  |  |  |  | ‘E’=accepted but errors were noted  ‘R’=rejected |
| AK502 |  | O | 718 | 1/3 | Transaction Set Syntax | 1=transaction set not supported | As per the error message |
|  |  |  |  |  | Error Code | 2=transaction set trailer missing |  |
|  |  |  |  |  |  | 3=transaction set control number |  |
|  |  |  |  |  |  | in header/trailer do not match |  |
|  |  |  |  |  |  | 4=number of included segments does |  |
|  |  |  |  |  |  | not match actual count |  |
|  |  |  |  |  |  | 5=one or more segments in error |  |
|  |  |  |  |  |  | 6=missing or invalid transaction |  |
|  |  |  |  |  |  | set identifier |  |
|  |  |  |  |  |  | 7=missing or invalid transaction |  |
|  |  |  |  |  |  | set control number |  |
| AK503 |  | O | 718 | 1/3 | Transaction Set Syntax |  |  |
|  |  |  |  |  | Error Code |  |  |
| AK504 |  | O | 718 | 1/3 | Transaction Set Syntax |  |  |
|  |  |  |  |  | Error Code |  |  |
| AK505 |  | O | 718 | 1/3 | Transaction Set Syntax |  |  |
|  |  |  |  |  | Error Code |  |  |
| AK506 |  | O | 718 | 1/3 | Transaction Set Syntax |  |  |
|  |  |  |  |  | Error Code |  |  |
| EXAMPLE | | | AK5\*E\*5~ | |  |  |  |

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| **AK9** | **Functional Group Response Trailer** | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** |  | **MAX/MIN** | **DESCRIPTION** | **VALUE** |  |
| AK901 |  | M | 715 |  | 1/1 | Functional Group | ‘A’ = Accepted | ‘A’ = Accepted |
|  |  |  |  |  |  | Acknowledge Code | ‘E’ = Error | ‘E’ = Error |
| AK902 |  | M | 97 |  | 1/6 | Number of Transaction | e.g. 23 | Number of total transaction set |
|  |  |  |  |  |  | Sets Included |  |  |
| AK903 |  | M | 123 |  | 1/6 | Number of Received | e.g. 23 | Number of received transaction set |
|  |  |  |  |  |  | Transaction Sets |  |  |
| AK904 |  | M | 2 |  | 1/6 | Number of Accepted | e.g. 23 | Number of accepted transaction set |
|  |  |  |  |  |  | Transaction Sets |  |  |
| AK905 |  | O | 716 |  | 1/3 | Functional Group |  |  |
|  |  |  |  |  |  | Syntax Error Code |  |  |
| AK906 |  | O | 716 |  | 1/3 | Functional Group |  |  |
|  |  |  |  |  |  | Syntax Error Code |  |  |
| AK907 |  | O | 716 |  | 1/3 | Functional Group |  |  |
|  |  |  |  |  |  | Syntax Error Code |  |  |
| AK908 |  | O | 716 |  | 1/3 | Functional Group |  |  |
|  |  |  |  |  |  | Syntax Error Code |  |  |
| AK909 |  | O | 716 |  | 1/3 | Functional Group |  |  |
|  |  |  |  |  |  | Syntax Error Code |  |  |
| EXAMPLE | | |  | |  | AK9\*A~ |  |  |

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| **SE** | **TRANSACTION SET TRAILER** | | | | |  |  |
|  |  |  |  |  |  |  |  |
| **FIELD** |  |  | **ELEM** | **MAX/MIN** | **DESCRIPTION** | **VALUE** |  |
| SE01 |  | M | 96 | 1/6 | Number of Included | Total number of segments in the | Number of X12 Segment |
|  |  |  |  |  | Segments | transaction set including the ST |  |
|  |  |  |  |  |  | and SE segments |  |
| SE02 |  | M | 329 | 4/9 | Transaction Control # | A number which matches the control | Intchange\_Control\_Number DFF |
|  |  |  |  |  |  | number on the ST segment for this |  |
|  |  |  |  |  |  | transaction |  |
| EXAMPLE | | |  | | SE\*4\*000008353~ |  |  |

Close the ISA Tag with IEA tag

## Sample File

ISA\*00\* \*00\* \*ZZ\*TRADEPARTID \*01\*007981038 \*000301\*1103\*U\*00401\*000012878\*0\*P\*>~ GS\*FA\*TRADEPARTID\*007981038\*20000301\*1103\*13788\*X\*004010~ ST\*997\*000014788~ AK1\*SH\*11829~

AK2\*856\*0001~

AK5\*A~

AK2\*856\*0002~

AK5\*A~

AK2\*856\*0003~

AK5\*E\*5~

AK2\*856\*0004~

AK5\*E\*5~

AK2\*856\*0005~

AK5\*E\*5~

AK9\*A\*5\*5\*5~

SE\*14\*000014788~

GE\*1\*13788~

IEA\*1\*000012878~

## Open and Closed Issue for this Deliverable

Open and Closed issues are logged here. Add open issues that you identify to the open issues section. As you resolve issues, move them to the closed issues section and keep the issue ID the same. Include an explanation of the resolution.

### Open Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
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### Closed Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
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### Action Items

| ID | Action Item | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
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