Interface specification - Routewise

Document control

|  |  |  |  |
| --- | --- | --- | --- |
| Document title | Interface specification - Routewise | | |
| Author(s) | Ravinder Johal | | |
| Version number | 0.3 | Document owner | Ravinder Johal |
| Date approved | Click or tap to enter a date. | Document status | WIP |
| Effective date | 07/12/17 | Approved by |  |
| Superseded version | 0.1 | Date of next review | Click or tap to enter a date. |

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Author | Date | Summary of changes |
| 0.1 | Ravinder Johal | 07/12/17 | Initial creation |
| 0.2 | Ravinder Johal | 19/12/17 | Amendments from Stephen M and Nikki Higginson |
| 0.3 | Ravinder Johal | 10/01/18 | Amendments from Lynne Mcgonigle |

Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Approver | Date | Signature |
| 0.1 | Julie Weaver | 22/12/17 |  |
| 0.1 | Lynne Mcgonigle (CWaC), | 22/12/17 |  |
| 0.1 | Mary Jefferson | 22/12/17 |  |
| 0.1 | Jenny Marston | 22/12/17 |  |

Contents

[1 Introduction 4](#_Toc500521006)

[1.1 Context 4](#_Toc500521007)

[1.1.1 Target audience 4](#_Toc500521008)

[1.1.2 Related documents 4](#_Toc500521009)

[1.1.3 Interface overview 5](#_Toc500521010)

[2 Processing Specification 6](#_Toc500521011)

[2.1 Interface processing and validation 6](#_Toc500521012)

[2.1.1 Check for document integrity 6](#_Toc500521013)

[2.1.2 Check for duplicate file 6](#_Toc500521014)

[2.1.3 Check for transactional integrity 6](#_Toc500521015)

[2.2 Business rules 6](#_Toc500521016)

[2.3 Business World validations 7](#_Toc500521017)

[2.3.1 Unknown accounts in transactions 7](#_Toc500521018)

[2.3.2 Unknown Supplier / customer ids in the file 8](#_Toc500521019)

[2.4 Source file archiving 8](#_Toc500521020)

[2.5 Input document specification 8](#_Toc500521021)

[2.5.1 Sample input document 8](#_Toc500521022)

[2.5.2 Field position description 8](#_Toc500521023)

[3 Business World Mapping 14](#_Toc500521024)

[3.1 Business World mapping specification 14](#_Toc500521025)

[3.1.1 Posting Lookup Table 14](#_Toc500521026)

[3.1.2 Tax Code Mapping 15](#_Toc500521027)

[3.1.3 Supplier Reference Lookup 16](#_Toc500521028)

[3.1.4 Supplier Account Code Mapping 16](#_Toc500521029)

[3.2 Output document specification 37](#_Toc500521030)

[3.3 Reporting and message specifications 38](#_Toc500521031)

[3.3.1 BizTalk failure routines 38](#_Toc500521032)

[3.3.2 Business World batch failure 38](#_Toc500521033)

[3.3.3 Batch File success 38](#_Toc500521034)

# Introduction

## Context

This document presents the interface specification for the integration of the files from Routewise with Business World. The files contain details of payments to 3rd party suppliers for transport / taxis for pupils.

Routewise is use by both Cheshire East and Cheshire West and Chester and the files for each will be differentiated by the company element in the posting string as detailed in the table below:

|  |  |  |
| --- | --- | --- |
| Company Code | Client | Description |
| 54 | 11 | Cheshire East |
| 70 | 12 | Cheshire West |

The document will cover the integration of the supplier payments that are currently uploaded to Oracle, the information in the files passes to Business World to update the Account Payable module.

The file(s) are interfaced as approved invoices and are not subject to workflow approval within Business World.

The purpose of this document is to explain the processing around the following interface files:

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Transaction type |
| B4B-INT-28 | Routewise | Payments for transport / taxis for pupils a standard AP interface. | P11 |

Note: The document will not detail the payment run process or any other Business World internal process. For details on these processes please refer to the P2P Functional design document (FDD).

### Target audience

This document targets people involved in system requirements, technical build and testing of Business World interfaces.

For general details about the ERP project, systems, background information and technical overview of interfaces please refer to the documents specified in the Related Documents section.

### Related documents

|  |  |  |
| --- | --- | --- |
| ID | Name | Description |
| TDD | Technical design document: interfaces | The agreed processes and list of inbound and outbound interfaces that are to be developed for the councils. |
| FDD | Functional design document: P2P | The agreed processes and functionality for the Accounts Payable and procurement module in BW |

### Interface overview

The incoming files have a common naming format as described by the table below:

|  |  |
| --- | --- |
| Element | Description |
| Prefix | The files from the Routewise system are prefixed by RW |
| YYMMDDHHMMSS | An extraction date-time stamp that is generated internally by Routewise, this will be used as the run number that makes this filename unique, it cannot be repeated |
| .DAT | The extension for the file from Routewise |

An example filename is **RW170221094333.dat** which would be a file from Routewise detailing supplier payments for taxis or transport. The Routewise suppliers will exist on the master file in Business World but will have new ids, the interface will locate the supplier id based on the external reference in BW.

The files are fixed position text files that contain two header lines. A scheduled task will transport the file to a specified server and deliver it to a specified file system folder i.e. “Routewise”.

BizTalk will then process the files and import them into the Accounts Payable ledger in Unit 4 Business World. Upon successful import, the data will then be available for authorised users of the system.

Note: There is further conversation needed on movement of the files from the source server to the BizTalk environment. At present, the assumption is that BizTalk will receive these files in a local drop zone.

# Processing Specification

## Interface processing and validation

To validate the contents of the file the system will carry out the following checks. In the event of a failure then the BizTalk fail routines will be invoked, this consists of two scenarios

1. File Failure (fail routine 1), where BizTalk cannot generate a valid BW message or does not recognise the file.
2. Import failure (fail routine 2) where BizTalk can generate a valid BW message, but the file has failed validation listed below

In both instances the file is not processed and an email notification is sent to the system admin team, the file is moved to an errors folder.

### Check for document integrity

If the source file is empty or does not pass document level checks such as:

There is no file header or batch header

The file is named incorrectly

The format of the lines does not conform to the file layout in section 2.5.2

Invalid characters or unreadable characters exist in the file.

Then no processing of the file will occur and the BizTalk fail routine process is triggered. This will trigger the first fail routine process as described above (See section 3.3 for further details for this process).

### Check for duplicate file

To prevent the same file being processed more than once a batch control process will be implemented. On receipt of the file BizTalk will create a unique identifier called the Batch ID. As the filename contains an extraction date and time stamp the filename is therefore deemed sufficient to act as a unique identifier for the file.

A simple batch control routine will record the file names of processed files and use this control table to check for duplicate files. The batch control routine will first inspect the files processed table to see if the filename exists and if the name does exist it will flag this as a duplicate file.

If found to be a duplicate no further processing of the file will occur and the second BizTalk fail routine as described above will be triggered. (See section 3.3 for further details of this process).

Note: Business World imposes a limit of 25 characters for the Batch ID.

### Check for transactional integrity

A BizTalk process checks and compares the total value of the amounts of the transactions with the values on the batch header record, the batch header record has a record id of BH.

Total amount is the comparison of *‘Sum of amounts’* in the batch header, this value will be compared to the sum of the field ‘*amount’* + ‘*VAT amount’* in the transaction and VAT lines.

Debit amount is the comparison of ‘*Sum of debits*’ in the batch header this value will be compared to the sum of the field ‘*amount’* + ‘*VAT amount’* in the transaction where the amount >0 (debits only)

If any difference is found processing will be aborted and the second Interface Fail routine as described above will be triggered. (See section 3.3 for further details for this process).

## Business rules

Files will be processed in both the CE and CW clients (client 11 and 12 respectively)

The company code will be used to determine the client (54 for 11 and 70 for 12)

The file contains multiple invoices and each invoice can consist of multiple lines

Each Invoice will be entered as a single balanced AP invoice transaction into Business World based on document reference

The entire file will be loaded as a single batch into Business World. This means if an invoice fails the entire file is held for correction. This will preserve the integrity of the source file

The file will contain no blank lines and must have a header line as detailed in this specification

The file name will be held against each line for reporting and reconciliation purposes

Routewise will not be changed to hold the BW chart of account hence the account code and posting details required to post the transactions in Business World are not held in the source file. The interface will convert the posting details using the old to new CoA mapping table

The account combination must exist in Business World for the successful processing of the file, any issues will need to be resolved by the system admin team

The old to new CoA mapping table will be created in the BizTalk environment and will be maintained by Agilisys (BizTalk support)

The file contains the expense line (GL line) and VAT line only; the interface will add the control line to make a balanced invoice (AP line)

The posting for each of the invoices in the file is fixed to the AP control account on the balance sheet (Account: B5100 and Cost Centre set to the balance sheet TBC)

The files contain old supplier references, the interface will need to use a lookup to convert the old supplier id to the new supplier id using the site name (not the supplier id)

In order for a payment to be made a supplier record will need to exist in Business World

The tax code from the source system will be converted to a BW value using the tax code mapping

The transactions will incur VAT, all VAT lines will be posted to the VAT account and this will include zero value VAT lines as this is required for the VAT return (Account: TBC and Cost Centre set to the balance sheet TBC)

A single VAT line will be created per invoice, if there are several VAT lines for the invoice the values will be totalled for the line

The tax will be not be calculated by Business World, VAT details will be entered as they appear on the source file, hence the variant for this interface will require ‘compute vat’ to be disabled

## Business World validations

### Unknown accounts in transactions

In case of any transactions in the document failing account code verification, the entire file is rejected and the batch will be held in Business World for the system admin team to progress. The resolution to the issues will be either:

1. Corrections in the Batch input maintenance area within Business World and re-running the server process in Business World using the respective variant as specified below  
   or
2. Rejection of the file and a new file requested from the source system

Note: The recommendation is option b in all cases where the source system can re-generate the file, amendments in Batch Input need to be few and controlled. Training will be required on how to use this area and demonstrated during the testing stages.

Note: Lines in batch maintenance are not to be deleted, only amended to preserve the integrity of the source files.

The variant to rerun the process is “AP Interface for BizTalk’, the variant number is 201

### Unknown Supplier / customer ids in the file

In the case where transactions in the document fail supplier id verification, the entire file will be rejected by Business World. This will need to be handled by the Accounts Payable team to initiate the new supplier process before the file can be processed.

Note: Once the supplier is created in BW the batch can be re-ran by running the ‘AP Interface for BizTalk’, which has the variant number of 201. The supplier id will need to be passed to the source system for future use via a manual process outside of this interface.

## Source file archiving

Successfully transferred Interface files into Business World are archived for 60 days before being deleted. All archive files for this interface will be stored in the location highlighted in the table below on the council’s domain.

Note: Housekeeping of directories and files on the server is a server admin process and handled outside of interface development. The expectation is that housekeeping is an activity performed by server maintenance teams.

#### File locations

Files used by this interface are stored in the following locations:

|  |  |  |  |
| --- | --- | --- | --- |
| Server | Path | File | Description |
| Incoming server | TBC | RW170221094333.dat | Extracted File from source system |
| BizTalk File System | //Agilisys/Drops/Routewise | RW170221094333.dat | File is delivered to inbound folder for BizTalk |
| Archive File System | TBC | RW170221094333.dat | Successfully processed file is archived (date stamped) |

## Input document specification

### Sample input document

Note: This is an example of the record formats.

### Field position description

The following is the specification for the incoming fixed position text file, Note the file has two headers and no footer.

#### File Header

The File header is not used by the interface.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Description | Field length | Field End | Comments |
| 1 | Record indicator | 1 | 2 | FH |
| 2 | Spare | 3 | 3 | space |
| 3 | Source system | 4 | 33 | More meaningful label identifying the source, e.g. full system name |
| 4 | Spare | 34 | 34 | space |
| 5 | File date | 35 | 40 | System date as DDMMYY |
| 6 | Spare | 41 | 41 | space |
| 7 | Batch count | 42 | 47 | Number of batches in the file. Value to have leading zeroes. e.g. 000001 |
| 8 | Spare | 48 | 48 | Space |

#### Batch Header

The Batch header is used for validation by the interface.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Description | Field length | Field End | Comments |
| 1 | Record indicator | 1 | 2 | BH |
| 2 | Spare | 3 | 3 | space |
| 3 | Batch ref. | 4 | 13 | Unique reference for the batch – must start with the 2 char system identification (see table 1 for currently used formats) |
| 4 | Spare | 14 | 14 | space |
| 5 | Batch date | 15 | 20 | System date as DDMMYY |
| 6 | Spare | 21 | 21 | space |
| 7 | Sum of amounts | 22 | 38 | Total of all line amounts within the batch. Value to have leading zeroes and sign e.g. +0000000011153.48 |
| 8 | Spare | 39 | 39 | space |
| 9 | Sum of debits | 40 | 56 | Total of positive amounts within the batch Value to have leading zeroes and sign. e.g. +0000000022212.67 |
| 10 | Category | 57 | 82 | Information |

#### Transaction record

The transactions can be negative or positive values.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Description | Field length | Field End | Comments |
| 1 | Record indicator | 1 | 2 | BL |
| 2 | Spare | 3 | 3 | space |
| 3 | Batch ref. | 4 | 13 | Same reference as that quoted on batch header. |
| 4 | Spare | 14 | 14 | space |
| 5 | Target Module | 15 | 16 | AP |
| 6 | Spare | 17 | 17 | space |
| 7 | Charge head | 18 | 43 | Required on the item line.  EITHER Full accounting analysis string i.e.  Company/service/account/centre/spare  e.g. 70/AK/12345/1234567/XXXXXX  OR  for AP invoices relating to projects, the project identification i.e.  PROJECT CODE/TASK NUMBER  (include the / ) |
| 8 | Spare | 44 | 44 | space |
| 9 | Document ref. | 45 | 65 | Where PO matching is required, this must be set to the document ref value on the original PO (see PO spec).  Where PO matching is not required, this should be set to the supplier’s invoice number or reference.  This value populates the invoice number in Oracle and appears on the standard BACS/cheque remittance. |
| 10 | Transaction date | 66 | 71 | Suppliers invoice date or system date when invoice line generated as DDMMYY. |
| 11 | Spare | 72 | 72 | space |
| 12 | Accounting date | 73 | 78 | System date as DDMMYY. |
| 13 | Spare | 79 | 79 | space |
| 14 | Currency code | 80 | 82 | GBP |
| 15 | Spare | 83 | 83 | space |
| 16 | Amount | 84 | 100 | Transaction value OR the VAT amount. The NET and VAT should be passed as separate lines. A zero VAT line must be passed if there is no VAT.. |
| 17 | Spare | 101 | 101 | Spare |
| 18 | VAT code | 102 | 102 | Enter a value for both ITEM and TAX lines. |
| 19 | Spare | 103 | 103 | space |
| 20 | Account name | 104 | 154 | The supplier name. |
| 21 | Site name | 155 | 169 | The Oracle source site number.  Not used in BW |
| 22 | Account type | 170 | 183 | Spaces. |
| 23 | Description | 184 | 284 | Enter text to be displayed in the line description field. |
| 24 | Line number | 285 | 299 | The Line sequence number within the Invoice. Value to have leading zeroes e.g. 000000000000001 |
| 25 | Spare | 300 | 300 | space |
| 26 | Quantity | 301 | 317 | Where appropriate, indicate the quantity of the individual items that make up this transaction line.  Otherwise enter 1.  Value to have leading zeroes e.g. 00000000000000001 |
| 27 | Spare | 318 | 318 | space |
| 28 | Line Item Category | 319 | 404 | Intended for AP invoices relating to projects, enter the Oracle project owning organisation name.  Otherwise spaces. |
| 29 | Document ref.link | 405 | 425 | If PO matching is required, enter ‘PO’  Otherwise spaces. |
| 30 | Line flag 1 (Immediate payment flag) | 426 | 426 | If the invoice is to be paid immediately, enter a Y in this field. Otherwise, the payment date will be a function of the Transaction date (invoice date) and the default payment terms for the Supplier (or Supplier site) |
| 31 | Spare | 427 | 427 | space |
| 32 | Line flag 2 (Final payment flag) | 428 | 428 | spaces |
| 33 | Spare | 429 | 429 | space |
| 34 | Line flag 3 | 430 | 430 | Spaces. |
| 35 | Spare | 431 | 431 | space |
| 36 | Establishment Code. | 432 | 437 | Spaces. |
| 37 | Line type | 438 | 442 | EITHER set to ‘TAX ‘for a VAT line,  OR set to ‘ITEM’ |
| 38 | Spare | 443 | 443 | space |
| 39 | Distribution amount | 444 | 458/ 459 | Spaces.  Note the tax line ends at 459 so this field needs to be variable in BizTalk. |

# Business World Mapping

## Business World mapping specification

The file contains invoices that will need to be processed using the web service ABW Transactions (GL07), the ‘n’ number of lines that make one complete invoice / voucher are identifiable as follows:

* After the first two lines which are headers and can be ignored, a new voucher will be started for the combination of supplier reference (account name) and invoice reference (document reference)
* Each ITEM line will be added as a transaction line (GL line) to the voucher
* A single VAT line will be added as a transaction line (Tax line) to the voucher (may need to sum the VAT lines if the invoice has more than one tax line)
* A separate generated line will be added for the AP control line to balance the AP transaction, so the end of a voucher in the web service message

Each subsequent invoice / document reference will be a new voucher and the voucher number will need to be incremented by 1 (the first one should start from 1).

The grouping key for processing by BizTalk (to consolidate an invoice) will be based on supplier reference (account name) and invoice reference (document reference).

### Posting Lookup Table

As the line of business system is not converting to the new Business World chart of account, for each GL line, a translation of the old posting string to the new Business World string will need to be performed using a mapping table. This is a user defined table in BizTalk that is maintained by the BizTalk administrator.

The mapping table will be as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Description | Type | Comments |
| 1 | Source\_code | Alpha-numerical | String on the source system file will be a either Account code or cost centre value for Oracle |
| 2 | Account | Alpha-numerical | Code on the BW i.e ‘R4302’ |
| 3 | Cost\_Centre | Alpha-numerical | Code on the BW i.e ‘10171’ |
| 4 | Cat2 | Alpha-numerical | Can be blank |
| 5 | Cat 3 | Alpha-numerical | Can be blank |
| 6 | Cat 4 | Alpha-numerical | Can be blank |
| 7 | Cat 5 | Alpha-numerical | Can be blank |
| 8 | Cat 6 | Alpha-numerical | Analysis will be decided by the account code so only available on the account lookup |
| 9 | Legal entity | Alpha-numerical | Will be set by Cost centres and available on the cost centre lookup |

The above mapping table will be referenced using the account segment or Cost centre segment in the file to the source code field, however what details are completed will depend on the relations defined in the BW build, currently this is

* Account will give you the Analysis details
* Cost centre will give you the sub centre and legal entity details

The other attributes will be filled as required by the accounting rules for the BW CoA but no two categories will exist for both account and cost centre. To apply the lookup BizTalk will query a view to look for the associated posting details, The view lookup will be applied twice, once using the source account code and again using the source cost centre

Note : the view details below are a guide only and can change during development, the view will be called uvi\_bz\_get\_posting\_details.

Select source\_code, account , Cat1, Cat2, Cat3, Cat4, Cat5, Cat6

From uvi\_bz\_get\_posting\_details

Where source\_code = ‘enter the source account code’

Union

Select source\_code, account , Cat1, Cat2, Cat3, Cat4, Cat5, Cat6

From uvi\_bz\_get\_posting\_details

Where source\_code = ‘enter the source cost centre code

### Tax Code Mapping

The files from the source system will contain old tax code references; these will need to be converted to the correct Business World reference using the following mapping:

The above views will reside on BizTalk and are static, these mappings will be populated once for go-live and then maintained by the BizTalk administrator.

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Source code | Description | BW Code |
| 1 | S | Standard rate VAT | PS |
| 2 | O | Outside the scope of Vat | 0 |
| 3 | Z | Zero rated VAT | PZ |
| 4 | F | Reduced rate Vat | PR |
| 5 | E | Exempt from VAT | PE |
| 6 | V | Vat only | 0 |

### Supplier Reference Lookup

As the supplier ids are changing in Business World the interface will need to look up the Business World supplier reference based on the old reference in the input file. To do this BizTalk will query a mapping table via a view to look for the supplier, if no result is returned then BizTalk will enter the reference on the file as the supplier id (this will cater for crossover when new suppliers are initiated on Business World and entered onto a source system).

Note : the view details below are a guide only and can change during development, the view will be called uvi\_bz\_get\_supplier, BizTalk will query the view using the Site name

Select apar\_id from uvi\_bz\_get\_supplier

Where ext\_reference = ‘ *enter the old reference so Site name’*

AND client = ‘*enter 11 or 12 depending on Company’*

Union

Select apar\_id from uvi\_bz\_get\_supplier

Where apar\_id = ‘*enter the old reference so Site name’*

AND client = ‘*enter 11 or 12 depending on Company’*

### Supplier Account Code Mapping

Once the Business World supplier is retrieved it will be checked to see if it is a CIS supplier, if it is a CIS supplier then the AP control account will be B5101 else it will be B5100, the view that will be used to do the check is

The view will be called uvi\_bz\_get\_cis\_supplier (the query below is a guide only)

SELECT sup.apar\_id from uvi\_bz\_get\_supplier sup

WHERE sup.apar\_gr\_id = 'CS'

AND client = *enter 11 or 12 depending on Company’*

If the supplier exists in the above view it is a CIS supplier

The supplier mapping is dependent on BW as suppliers are created and maintained in BW, to enable this a housekeeping interface will be created that will populate this mapping table on a daily basis. The above details will be extracted by the query web service that returns data from BW via a browser report.

The table below details the report names and parameters to be used in the web call

|  |  |  |  |
| --- | --- | --- | --- |
| Report ID | Report name | Parameters | Comments |
| TBC | BW\_Supplier\_details | NA | Supplier details for all clients including the supplier group for the CIS checks |

#### GL Line Mapping

Detailed field mapping for ABW GL07 for the transaction line in the file, line type = ‘ITEM’ and must be grouped by document reference

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Business World Field | File Column | File Example | Length | Comments |
| 1 | batch\_id | Filename | RW170221094333.dat | 25 | Name of the file |
| 2 | Interface | BI | - |  | Fixed |
| 3 | voucher\_type | Transaction code | - | 2 | Unique identifier for the source system. See table in section 1.1 |
| 4 | trans\_type | GL | - | 2 | Fixed |
| 5 | Client | Substring (charge head,1,2) = Company code  If Company code = ‘54’ then 11  Else if Company code = ‘70’ then 12 | - | 2 | Will depend on company code in the posting string from field Charge head.  A substring of Charge head will need to extract the first 2 characters as that is the Company code to do the comparison |
| 6 | Account | From posting code lookup using account segment | - | 25 | Will need to look up the GL posting string using the account segment |
| 7 | cat\_1 | From posting code lookup using cost centre segment | - | 25 | Will need to lookup the GL posting string using the cost centre segment. |
| 8 | cat \_2 | From posting code lookup | - | 25 | Will need to look up the GL posting string using either the account or cost centre segments |
| 9 | cat \_3 | From posting code lookup | - | 25 | Will need to look up the GL posting string using either the account or cost centre segments |
| 10 | cat \_4 | From posting code lookup | - | 25 | Will need to look up the GL posting string using either the account or cost centre segments |
| 11 | cat \_5 | From posting code lookup | - | 25 | Will need to look up the GL posting string using either the account or cost centre segments |
| 12 | cat \_6 | From posting code lookup | - | 25 | Will need to look up the GL posting string using either the account or cost centre segments |
| 13 | cat \_7 | From posting code lookup | - | 25 | Will need to look up the GL posting string using either the account or cost centre segments |
| 14 | tax\_code | From Tax lookup using VAT Code |  | 2 | Will need to look up the tax code using the VAT Code in the file |
| 15 | tax\_system |  |  |  | Leave blank |
| 16 | currency | GBP |  |  | Fixed |
| 17 | dc\_flag |  |  |  |  |
| 18 | cur\_amount | Amount | 100.00 | (28,3) | Can be positive or negative |
| 19 | amount | Amount | 100.00 | (28,3) | Can be positive or negative |
| 20 | number\_1 |  |  |  | NA |
| 21 | value\_1 |  |  |  | NA |
| 22 | value\_2 |  |  |  | NA |
| 23 | value\_3 |  |  |  | NA |
| 24 | description | Description |  | 255 | Will be description in the file and will be used in GL |
| 25 | trans\_date | Transaction date |  | 10 | Format YYYYMMDD |
| 26 | voucher\_date | Accounting date |  | 10 | Format YYYYMMDD |
| 27 | voucher\_no | 1 | - | Start from 1 | sequence number that must be the same for the complete invoice (so each GL line, tax line and AP contra for the invoice ). Increment by 1 for next invoice |
| 28 | period |  |  |  | Blank will go into current period |
| 29 | tax\_id |  |  |  |  |
| 30 | ext\_inv\_ref | Document reference |  | 25 | The invoice number for the supplier will need to be unique for the supplier |
| 31 | ext\_ref | Filename |  | 25 | Store unique filename for audit purposes |
| 32 | due\_date |  |  | 15 | Leave blank |
| 33 | disc\_date |  |  |  | Leave blank |
| 34 | discount |  |  |  | Leave blank |
| 35 | commitment |  |  |  | Leave blank |
| 36 | order\_id |  |  |  | Leave blank |
| 37 | Kid |  |  |  | Leave blank |
| 38 | pay\_transfer |  |  |  | Leave blank |
| 39 | status | N | - | 1 | N for active |
| 40 | apar\_type | P |  |  | Leave blank |
| 41 | apar\_id | From the supplier lookup query for Account name |  | 25 | Account name used in lookup to get BW supplier id. |
| 42 | sequence\_ref |  |  | 9 | Leave blank |
| 43 | intrule\_id |  |  | 25 | Leave blank |
| 44 | factor\_short |  |  | 25 | Leave blank |
| 45 | responsible |  |  | 25 | Leave blank |
| 46 | apar\_name |  |  | 255 | Leave blank |
| 47 | address |  |  | 160 | Leave blank |
| 48 | province |  |  | 40 | Leave blank |
| 49 | place |  |  | 40 | Leave blank |
| 50 | bank\_account |  |  | 35 | Leave blank |
| 51 | pay\_method | IP |  | 2 | Fixed to IP as assumption is BACS payment |
| 52 | vat\_reg\_no |  |  | 25 | Leave blank |
| 53 | zip\_code |  |  | 15 | Leave blank |
| 54 | Clearing code |  |  | 25 | Leave blank |
| 55 | Postal\_acc |  |  | 25 | Leave blank |
|  |  |  |  |  |  |

#### VAT line mapping

Detailed field mapping for ABW GL07 for the transaction line in the file, line type = ‘TAX’ and must be grouped by document reference and totalled if there are several lines for a single invoice.

Note a vat line will be entered into the same voucher as BW will not compute vat, to allow the exact figure to be posted as it appears in the file, a zero vat line also has to be entered to ensure the vat reporting tables are reflected.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Business World Field | File Column | File Example | Length | Comments |
| 1 | batch\_id | Filename | RW170221094333.dat | 25 | Name of the file |
| 2 | Interface | BI | - |  | Fixed |
| 3 | voucher\_type | Transaction code | - | 2 | Unique identifier for the source system. See table in section 1.1 |
| 4 | trans\_type | If vat amount >0  then TK  Else TE | - | 2 | Dependent on VAT amount , if TAX line is missing for the invoice then a 0 Vat line must be created |
| 5 | Client | Substring (charge head,1,2) = Company code  If Company code = ‘54’ then 11  Else if Company code = ‘70’ then 12 | - | 2 | Will depend on company code in the posting string from field Charge head.  A substring of Charge head will need to extract the first 2 characters as that is the Company code to do the comparison |
| 6 | Account | B3210 | - | 25 | Fixed for VAT code |
| 7 | cat\_1 | TBC | - | 25 | Fixed to balance sheet cost centre. |
| 8 | cat \_2 |  | - | 25 |  |
| 9 | cat \_3 |  | - | 25 |  |
| 10 | cat \_4 |  | - | 25 |  |
| 11 | cat \_5 |  | - | 25 |  |
| 12 | cat \_6 |  | - | 25 |  |
| 13 | cat \_7 | Substring (charge head,1,2) = Company code  If Company code = ‘54’ then 11  Else if Company code = ‘70’ then 12 | - | 2 | Will depend on company code in the posting string from field Charge head.  A substring of Charge head will need to extract the first 2 characters as that is the Company code to do the comparison |
| 14 | tax\_code | From Tax lookup using VAT Code |  | 2 | Will need to look up the tax code using the VAT Code in the file |
| 15 | tax\_system |  |  |  | Leave blank |
| 16 | currency | GBP |  |  | Fixed |
| 17 | dc\_flag |  |  |  |  |
| 18 | cur\_amount | Amount | 20.00 |  | Can be positive or negative |
| 19 | amount | Amount | 20.00 |  | Can be positive or negative |
| 20 | number\_1 |  |  |  | NA |
| 21 | value\_1 |  |  |  | NA |
| 22 | value\_2 |  |  |  | NA |
| 23 | value\_3 |  |  |  | NA |
| 24 | description | Document reference |  | 255 | Will be set to the invoice number |
| 25 | trans\_date | Transaction date |  | 10 | Format YYYYMMDD |
| 26 | voucher\_date | Accounting date |  | 10 | Format YYYYMMDD |
| 27 | voucher\_no | 1 | - | Start from 1 | sequence number that must be the same for the complete invoice (so each GL line, tax line and AP contra for the invoice ). Increment by 1 for next invoice |
| 28 | period |  |  |  | Blank will go into current period |
| 29 | tax\_id |  |  |  |  |
| 30 | ext\_inv\_ref | Document reference |  | 25 | The invoice number for the supplier will need to be unique for the supplier |
| 31 | ext\_ref | Filename |  | 25 | Store unique filename for audit purposes |
| 32 | due\_date |  |  | 15 | Leave blank |
| 33 | disc\_date |  |  |  | Leave blank |
| 34 | discount |  |  |  | Leave blank |
| 35 | commitment |  |  |  | Leave blank |
| 36 | order\_id |  |  |  | Leave blank |
| 37 | Kid |  |  |  | Leave blank |
| 38 | pay\_transfer |  |  |  | Leave blank |
| 39 | status | N | - | 1 | N for active |
| 40 | apar\_type | P |  |  | Leave blank |
| 41 | apar\_id | From the supplier lookup query for Account name |  | 25 | Account name used in lookup to get BW supplier id. |
| 42 | sequence\_ref |  |  | 9 | Leave blank |
| 43 | intrule\_id |  |  | 25 | Leave blank |
| 44 | factor\_short |  |  | 25 | Leave blank |
| 45 | responsible |  |  | 25 | Leave blank |
| 46 | apar\_name |  |  | 255 | Leave blank |
| 47 | address |  |  | 160 | Leave blank |
| 48 | province |  |  | 40 | Leave blank |
| 49 | place |  |  | 40 | Leave blank |
| 50 | bank\_account |  |  | 35 | Leave blank |
| 51 | pay\_method | IP |  | 2 | Fixed to IP as assumption is BACS payment |
| 52 | vat\_reg\_no |  |  | 25 | Leave blank |
| 53 | zip\_code |  |  | 15 | Leave blank |
| 54 | Clearing code |  |  | 25 | Leave blank |
| 55 | Postal\_acc |  |  | 25 | Leave blank |
| 56 | Account2 | From posting code lookup using account segment | - | 25 | Will need to look up the GL posting string using the account segment |
| 57 | Base\_Amount | Amount |  | 25 | The amount of the associated GL line, so the value that the tax has been applied to |
| 58 | Terms | IM |  | 25 |  |

#### AP control line mapping

Detailed field mapping for ABW GL07 for the balancing line for the journal.

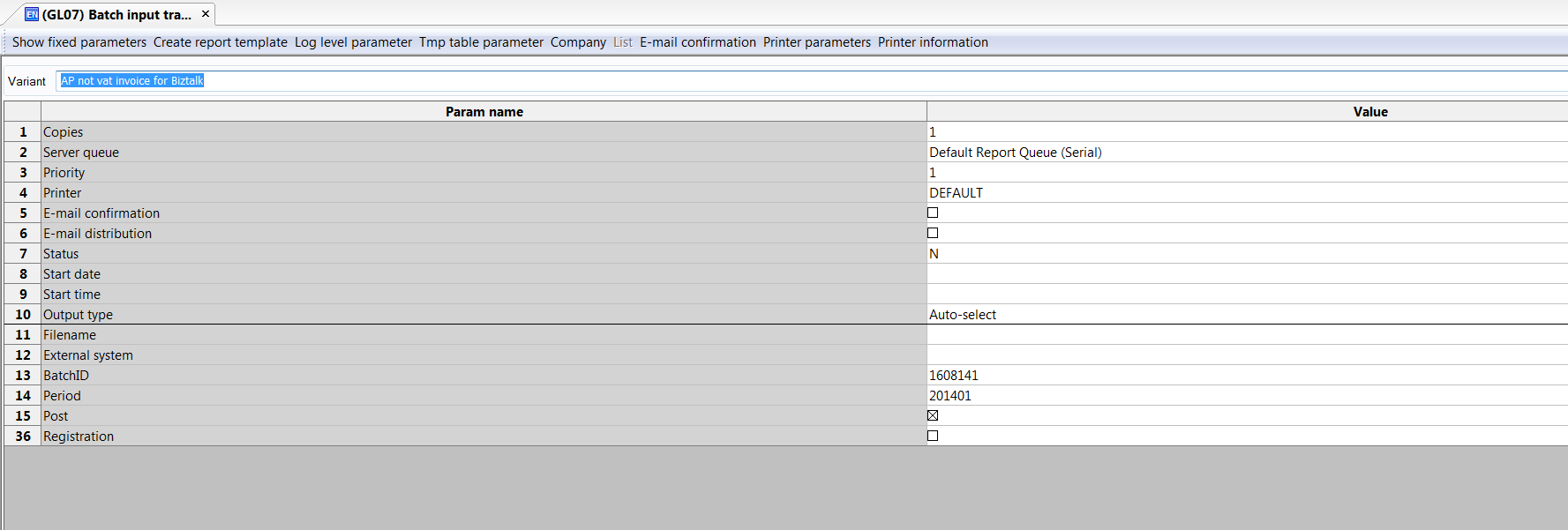
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Business World Field | File Column | File Example | Length | Comments |
| 1 | batch\_id | Filename | RW170221094333.dat | 25 | Name of the file |
| 2 | Interface | BI | - |  | Fixed |
| 3 | voucher\_type | Transaction code | - | 2 | Unique identifier for the source system. See table in section 1.1 |
| 4 | trans\_type | AP | - | 2 | Dependent on VAT amount , if TAX line is missing for the invoice then a 0 Vat line must be created |
| 5 | Client | Substring (charge head,1,2) = Company code  If Company code = ‘54’ then 11  Else if Company code = ‘70’ then 12 | - | 2 | Will depend on company code in the posting string from field Charge head.  A substring of Charge head will need to extract the first 2 characters as that is the Company code to do the comparison |
| 6 | Account | If supplier is not a CIS (cannot be located in CIS view) then  B5100  Else B5101 | - | 25 | Fixed to AP control account B5100 or CIS AP account B5101 |
| 7 | cat\_1 | TBC | - | 25 | Fixed to balance sheet cost centre. |
| 8 | cat \_2 |  | - | 25 |  |
| 9 | cat \_3 |  | - | 25 |  |
| 10 | cat \_4 |  | - | 25 |  |
| 11 | cat \_5 |  | - | 25 |  |
| 12 | cat \_6 |  | - | 25 |  |
| 13 | cat \_7 | Substring (charge head,1,2) = Company code  If Company code = ‘54’ then 11  Else if Company code = ‘70’ then 12 | - | 2 | Will depend on company code in the posting string from field Charge head.  A substring of Charge head will need to extract the first 2 characters as that is the Company code to do the comparison |
| 14 | tax\_code | 0 |  | 2 | Fixed to 0 for the control line |
| 15 | tax\_system |  |  |  | Leave blank |
| 16 | currency | GBP |  |  | Fixed |
| 17 | dc\_flag |  |  |  |  |
| 18 | cur\_amount | Sum (line Amounts and Tax amounts) \*-1 | -120.00 |  | Should be negative for invoices and positive for credit notes.  This will be a sum of all the invoice lines plus vat amounts based on the combination of document reference and supplier reference (account name) |
| 19 | amount | Sum (line Amounts and Tax amounts) \*-1 | -120.00 |  | Should be negative for invoices and positive for credit notes.  This will be a sum of all the invoice lines plus vat amounts based on the combination of document reference and supplier reference (account name) |
| 20 | number\_1 |  |  |  | NA |
| 21 | value\_1 |  |  |  | NA |
| 22 | value\_2 |  |  |  | NA |
| 23 | value\_3 |  |  |  | NA |
| 24 | description | Document reference |  | 255 | Will be set to the invoice number |
| 25 | trans\_date | Transaction date |  | 10 | Format YYYYMMDD |
| 26 | voucher\_date | Accounting date |  | 10 | Format YYYYMMDD |
| 27 | voucher\_no | 1 | - | Start from 1 | sequence number that must be the same for the complete invoice (so each GL line, tax line and AP contra for the invoice ). Increment by 1 for next invoice |
| 28 | period |  |  |  | Blank will go into current period |
| 29 | tax\_id |  |  |  |  |
| 30 | ext\_inv\_ref | Document reference |  | 25 | The invoice number for the supplier will need to be unique for the supplier |
| 31 | ext\_ref | Filename |  | 25 | Store unique filename for audit purposes |
| 32 | due\_date |  |  | 15 | Leave blank |
| 33 | disc\_date |  |  |  | Leave blank |
| 34 | discount |  |  |  | Leave blank |
| 35 | commitment |  |  |  | Leave blank |
| 36 | order\_id |  |  |  | Leave blank |
| 37 | Kid |  |  |  | Leave blank |
| 38 | pay\_transfer |  |  |  | Leave blank |
| 39 | status | N | - | 1 | N for active |
| 40 | apar\_type | P |  |  | Leave blank |
| 41 | apar\_id | From the supplier lookup query for Account name |  | 25 | Account name used in lookup to get BW supplier id. |
| 42 | sequence\_ref |  |  | 9 | Leave blank |
| 43 | intrule\_id |  |  | 25 | Leave blank |
| 44 | factor\_short |  |  | 25 | Leave blank |
| 45 | responsible |  |  | 25 | Leave blank |
| 46 | apar\_name |  |  | 255 | Leave blank |
| 47 | address |  |  | 160 | Leave blank |
| 48 | province |  |  | 40 | Leave blank |
| 49 | place |  |  | 40 | Leave blank |
| 50 | bank\_account |  |  | 35 | Leave blank |
| 51 | pay\_method | IP |  | 2 | Fixed to IP as assumption is BACS payment |
| 52 | vat\_reg\_no |  |  | 25 | Leave blank |
| 53 | zip\_code |  |  | 15 | Leave blank |
| 54 | Clearing code |  |  | 25 | Leave blank |
| 55 | Postal\_acc |  |  | 25 | Leave blank |
| 56 | Account2 |  | - | 25 | Leave blank |
| 57 | Base\_Amount |  |  | 25 | Leave blank |
| 58 | Terms | IM |  |  |  |

#### Server process – Variant

The files are GL07 imports in Business World, one variant can run in all of the files of this type (AP invoices with VAT amounts defined).

This is the variant / job that the system admin team will need to run to re-process an interface batch that failed and has been corrected in the Batch input maintenance window. This initiates the server process to re-run in Business World.

The variant is name is ‘AP for BizTalk’ and has the id 201.



## Output document specification

N/A

## Reporting and message specifications

### BizTalk failure routines

In the event the file fails validation, as described in section 2.1, then BizTalk will send an email stating the file has failed and the file is move to an error folder. The name of the folder is TBC

The fail scenarios will be as follows:

1. File Failure – this is when the incoming file layout does not match the expected layout as described in section 2.1.1.1 the interface cannot generate a valid BW message, in this case the file is move to an error folder. The name of the folder is TBC
2. Import failure – this is when there is either a duplicate file or an integrity failure as described in section 2.1.1.2 and 2.1.1.3.
3. Interface error - this is normally an issue or ‘bug’ in the interface code. This will normally only happen if there is a change to an interface or this is a new interface that is being tested.

The system admin team will need to liaise with the source system to get a corrected file and place it back in the ‘Receive’ folder location for BizTalk to enable re-processing.

### Business World batch failure

In the event that the file successfully passes validation and loads into the staging tables for BW (Batch maintenance tables) then the BizTalk process will complete successfully. If the file then fails in the BW server process then the system admin team will need to do one of the following:

* Perform corrective action in the batch input – batch maintenance window in Business World and then re-run the server process using the variant / job report id 201   
  OR
* Delete the batch, inform the source system of the issue and ask for the production of a corrected source file. This file can then be passed through the interface process and be passed to BizTalk..

### Batch File success

It is deemed not required to alert / email responsible persons / departments or system admin of batches that have been successful.