

# smart*Payables*Integration for Finance Systems



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# 1. Introduction

# 1.1. Purpose of this document

This document is the functional specification for the development of xConnectors. xConnectors are the integration between the Redmap smart Payables solution and  $3^{rd}$  party finance systems. The main aim of this specification is to ensure that there is standard approach to each implementation. This is required for long term sustainability and supporting of the xConnectors.



# 2. OVERVIEW

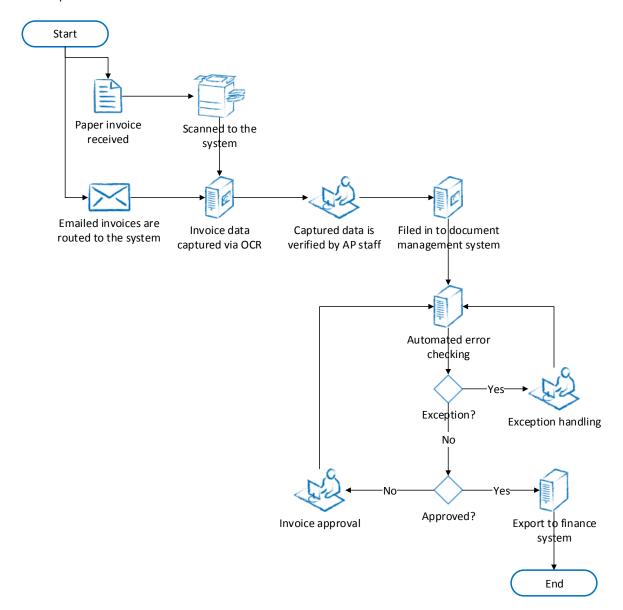
# 2.1. What is smartPayables

Redmap's smart*Payables* solutions allow businesses to automate the processing, approval and uploading of vendor invoices to their finance system.

A typical smart Payables solution:

- Receives invoices via paper or email
- Captures data from the invoices
- → Electronically archives a copy of the invoice
- → Applies business rules (e.g. error checking, PO matching against ERP)
- → Manages invoices approvals workflows
- → Exports the appropriate invoice data to the finance system

An example of this workflow is illustrated below:





# 2.2. Benefits of a smartPayables solution

The smart*Payables* solution is designed to allow businesses to retain the value in their existing investments in their finance system, whilst providing them with the efficiencies and cost savings that come with automating tedious, time-consuming processes such as data entry, error checking and filing.

smartPayables solutions can deliver:

- Decrease the cost to code and enter invoices by at least 50%;
- → Automated Purchase Order and Delivery Order matching;
- → Streamline the approval of the invoices and remove all the wasted labour in managing these approvals;
- → Eliminate all costs in filing invoices for retention; and
- → Immediate visibility of all outstanding payables.

# 2.3. Required integration

The smartPayables solution must be integrated to the finance system to achieve the required outcomes.

The required integration between the Redmap smart*Payables* solution and the finance system covers the following items:

### Data downloads

• Getting staging data from the finance system and storing it in staging tables within the smart*Payables* system for further use.

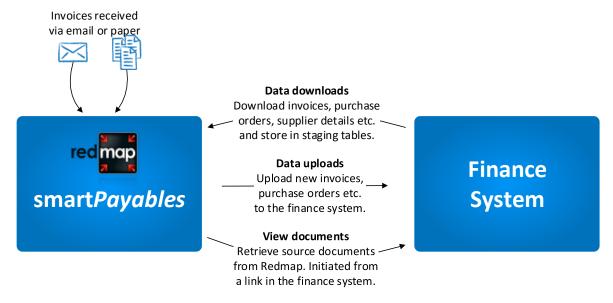
### Data uploads

- The finance system shall accept details related to new transactions (e.g. invoices, purchase orders, purchase receipts, document links) from the smart *Payables* solution; and
- The finance system shall create the appropriate records within the finance system based on the details provided.

### → View documents

The finance system exposes a URL to the user on relevant records (e.g. invoice screen) to be
able to retrieve the source document(s) related to that record (e.g. view the invoice details
from within the finance system and click on a link on the screen to retrieve the electronic copy
of the invoice image from the smart*Payables* solution).

This flow of information is depicted in the following diagram:





# 2.4. Data transfer approach

The transfer of data between SmartPayables and the ERP is typically achieved via saving the data into text files. The files are stored in a predetermined folder for either system to collect.

The text files shall include the following characteristics:

- → Data shall be stored as comma separated values (CSV) in the files;
- → Each value in the text file shall be wrapped in double quotation marks (");
- → The files shall include column headers on the first row of each file; and
- → The files shall have a file type of .CSV.

Whilst this is a typical approach and most ERP systems support this methodology it is recognized that there exists a need to maintain agility and flexibility in supporting multiple types of interfaces when the requirement needs a different approach. Other approaches to consider are:

- Using XML rather than CSV as the file format;
- → Using fix length structured files rather than CSV format;
- Using FTP or other file transfer mechanisms to ensure Cloud support;
- → Web services in the case of hosted platforms;
- → Direct updating of the Redmap staging database tables.

### 2.5. Data Downloads

Various components within the Redmap smart Payables solution require access to data stored within the finance system. This data is used within the smart Payables solution as the basis for applying the various business rules defined by the customer. We have taken the approach to access all ERP data via staging tables to ensure that standardisation is possible and also hosted platforms in the public or private cloud are also supported. It is worth noting that in certain cases a nightly update of the staging data may not be adequate as the customer way wish to pay certain invoices on the day that they are posted.

# 2.5.1. Required data

The following pieces of data must be made available to the smart Payables solution by the finance system:

- Purchase orders
- → Purchase receipts
- Invoices
- Vendors
- General ledger accounts
- → Items

# 2.5.2. Approach

### File transfer

The reference data shall be exported to our staging database via a selected file (csv, xml) by the finance system.

The finance system shall place these files in a predefined location on the customer's network.

The finance system shall automatically export a fresh set of data on a predefined scheduled (typically nightly).

Note: If the solution is hosted in the Cloud then FTP is required to transfer the files across the networks.

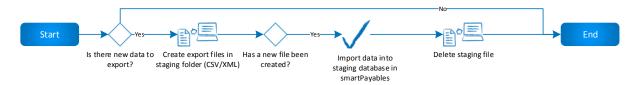
The text files shall be imported in to a series of staging tables using an existing, automated CSV/xml file import mechanism available within the Redmap smartPayables solution.

The files in the nominated folder shall be removed from the folder after the data in the file is imported in to the smart*Payables* solution.



Each text file shall contain the data intended for a different staging table (the tables the data values are to be imported into are defined in section 3).

The following diagram shows illustrates the process of data transfer between systems and is applicable in both direction.



### Web services

The reference data shall be exported to our staging database via web services available by the finance system.

### 2.6. Data Uploads

Once purchase orders, purchase receipts or invoices are processed within the smart *Payables* solution the smart *Payables* solution shall make this data available to the finance system. The finance system shall then create the relevant transactions within the finance system based on the details provided.

### 2.6.1. Required data

The following pieces of data shall be made available from the smartPayables solution to the finance system.

- → Non-PO invoice
- PO-based invoice
- → Non-PO credit note
- → PO-based credit note
- → Document link
- Open Purchase orders
- → Open Purchase receipts

### 2.6.2. Approach

### File transfer

The data to be uploaded shall be exported to a series of text files (CSV/xml) by the smartPayables solution.

The smart Payables solution shall place these files in a predefined location on the customer's network.

The smartPayables solution shall export the data to the folder when the data is ready to be uploaded to the finance system (i.e. the invoice has passed all error checks and has been approved for entry in to the finance system).

The files shall be uniquely named, but each filename shall be prefixed with a defined value to clearly identify the type of data that has been exported in the file (e.g. Invoice\_20130101.csv shall indicate that the file contains invoice transactions).

The finance system shall poll the nominated folder regularly and import the data from any files in the folder. The files in the folder shall be removed from the folder after the data in the file is imported in to the finance system. It is the responsibility of the process pulling the data into the finance system to ensure the data is successfully imported and the files have been removed from the folder.

Note: It is recommended that a process is considered for moving the files into another folder and maintaining a copy for a period of 30 days.

The columns to be included in each text file are listed in section 5 of this document.

### **Web Services**



In the event that web services are available to allow for uploading of data into the finance system the data uploading is usually done in real time and on a transaction basis. As an example as the final approval for a particular invoice is complete the web service would be called to upload the invoice data in real time. The design of this approach will largely depend on the existing web service capability and will be designed on a case by case basis.

# 2.7. Linking to the document

Once documents (e.g. invoices) are processed through the smart*Payables* solution and the relevant transactions are exported to the finance system (via the data upload mechanisms), the transaction details shall be in the finance system and the source document shall be in the smart*Payables* solution. A user in the finance system should be provided with access to the source document from within the finance system.

# 2.7.1. Approach

The finance system shall expose a mechanism to the user on relevant screens (e.g. invoice screen). The mechanism shall open a web browser to the document link URL defined for the record.



# 3. STAGING TABLE SCHEMAS

The following staging tables shall be created to host various data that the smart*Payables* solution components rely upon.

# 3.1. Lookup\_Entity table

The Lookup\_Entity table shall contain a list of entities (e.g. discrete commercial entities or financial databases). The table shall have the following structure:

| Field      | Туре         | Description / Notes |
|------------|--------------|---------------------|
| EntityCode | Nvarchar(20) | Primary key         |
| EntityName | Nvarchar(50) |                     |

# 3.2. Lookup\_Invoice table

The Lookup\_Invoice table shall contain a list of invoices already in the finance system. The table shall have the following structure:

| Field               | Туре         | Description / Notes  |
|---------------------|--------------|--|
| EntityCode          | Nvarchar(20) | Primary key  |
| InvoiceNumber       | Nvarchar(50) | Primary key  |
| InvoiceDate         | Datetime     |  |
| PONumber            | Nvarchar(50) |  |
| InvoiceDueDate      | DateTime     |  |
| InvoiceStatus       | NVarchar(10) | Typically used for status such as hold and payment status – Note that multiple flags could be supported.  e.g NY – first N referring to not paid and second Y referring to posted. |
| InvoiceCurrencyCode | Nvarchar(10) |  |
| InvoiceCurrencyRate | Nvarchar(10) |  |
| POJobID             | Nvarchar(20) | Project or job code Related to project job costing   |
| POJobCostCentre     | Nvarchar(20) | Cost centre code related to project job costing  |
| VendorCode          | Nvarchar(20) |  |
| TaxCode             | Float        |  |
| Tax                 | Float        |  |
| Total               | Float        |  |

# 3.3. Lookup\_PurchaseOrder table

The Lookup\_PurchaseOrder table shall contain a list of purchase orders already in the finance system. The table shall have the following structure:

| Field           | Туре          | Description / Notes   |
|-----------------|---------------|---|
| EntityCode      | Nvarchar(20)  | Primary key   |
| PONumber        | Nvarchar(50)  | Primary key   |
| PODate          | Datetime      |   |
| VendorCode      | Nvarchar(20)  |   |
| POCurrencyCode  | Nvarchar(10)  |   |
| POCurrencyRate  | Nvarchar(10)  |   |
| Total           | Float         |   |
| POJobID         | Nvarchar(20)  | Project or job code Related to project job costing  |
| POJobCostCentre | Nvarchar(20)  | Cost centre code related to project job costing   |
| POStatus        | Nvarchar(10)  | Typically used for status such as back order flag – Note that multiple flags could be supported.  e.g NY – first N referring to not on back order and second Y referring to posted. |
| PORaiser        | Nvarchar(100) | The name of the person that raised the purchase order   |



# 3.4. Lookup\_PurchaseOrder\_Line table

The Lookup\_PurchaseOrder\_Line table shall contain a list of lines for the purchase orders in the finance system. The table shall have the following structure:

| Field                  | Туре          | Description / Notes   |
|------------------------|---------------|---|
| EntityCode             | Nvarchar(20)  | Primary key   |
| PONumber               | Nvarchar(50)  | Primary key   |
| POLineID               | Int           | Primary key - Sequence  |
| POLineItemCode         | Nvarchar(50)  | Internal stock code   |
| SupplierStockCode      | Nvarchar(50)  | Supplier stock code   |
| POLineAccount          | Nvarchar(50)  |   |
| POLine Description     | Nvarchar(100) |   |
| POLineQuantity         | Float         |   |
| POLineQuantityRecieved | Float         | Quantity of items received  |
| POLineUnitPrice        | Float         | Unit price for item   |
| POLineTax              | Float         |   |
| POLineTotal            | Float         |   |
| POLineStatus           | Nvarchar(10)  | Typically used for status such as back order flag – Note that multiple flags could be supported e.g NY – first N referring to not on back order and second Y referring to posted. |

# 3.5. Lookup\_Receipt table

The Lookup\_Receipt table shall contain a list of receipts from the finance system. The table shall have the following structure:

| Field         | Туре         | Description / Notes |
|---------------|--------------|---------------------|
| EntityCode    | Nvarchar(20) | Primary key         |
| ReceiptNumber | Nvarchar(50) | Primary key         |
| ReceiptDate   | Datetime     |                     |
| PONumber      | Nvarchar(50) |                     |
| ReceiptStatus | Nvarchar(50) |                     |

# 3.6. Lookup\_Receipt\_Line table

The Lookup\_Receipt\_Line table shall contain a list of lines related to the receipts in the finance system. The table shall have the following structure:

| Field      | Туре         | Description / Notes |
|------------|--------------|---------------------|
| EntityCode | Nvarchar(20) | Primary key         |



| Field               | Туре         | Description / Notes |
|---------------------|--------------|---------------------|
| ReceiptNumber       | Nvarchar(50) | Primary key         |
| ReceiptLineID       | Int          | Primary key         |
| ReceiptLineItem     | Nvarchar(50) |                     |
| ReceiptLineQuantity | Float        |                     |



# 3.7. Lookup\_Vendor table

The Lookup\_Vendor table shall contain a listing of existing vendors within the finance system. The table shall have the following structure:

| Field           | Туре             | Description / Notes   |
|-----------------|------------------|---|
| EntityCode      | Nvarchar(20)     | Primary key   |
| VendorCode      | Nvarchar(20)     | Primary key   |
| vendorcode      | ivvai ciiai (20) | Vendor's ID in finance system   |
| VendorABN       | Nvarchar(11)     | Vendor's ABN  |
| VendorName      | Nvarchar(200)    | Vendor's name   |
| VendorPhone     | Nvarchar(25)     | Vendor's main phone number used for additional lookup if required   |
|                 |                  | The default account code to be applied for invoice transactions for this vendor.  |
| AccountCode     | Nvarchar(20)     | This shall simplify data entry by automatically filling in the GL Code in cases where the vendor mostly only uses a single GL Code. |
| GSTApplicable   | Nvarchar(5)      | Flag to indicate whether the vendor is registered for GST   |
| DefaultGL_Code  | Nvarchar(25)     | Default GL account code for this vendor.  |
| AccountStatus   | Nvarchar(1)      | Flag to indicate if the account is active or not.   |
| Currency_code   | Nvarchar(10)     | Relevant currency code for vendor   |
| Tax_Code        | Nvarchar(10)     | Relevant vendor tax code  |
| VendorReference | Nvarchar(20)     | Optionally Used to store additional vendor details such as BPayBillerCode   |

# 3.8. Lookup\_Account table

The Lookup\_Account table shall contain a listing of General Ledger Accounts from the finance system. The table shall have the following structure:

| Field       | Туре         | Description / Notes                     |
|-------------|--------------|---|
| EntityCode  | Nvarchar(20) | Primary key                             |
| AccountCode | Nvarchar(20) | Primary key General ledger account code |



| Field              | Туре          | Description / Notes                |
|--------------------|---------------|------------------------------------|
| AccountDescription | Nvarchar(200) | General ledger account description |
| AccountType        | Nvarchar(50)  | Optional vendor account type       |

# 3.9. Lookup\_Item table

The Lookup\_Item table shall contain a listing of items from the finance system. The table shall have the following structure:

| Field             | Туре          | Description / Notes |
|-------------------|---------------|---------------------|
| EntityCode        | Nvarchar(20)  | Primary key         |
| ItemCode          | Nvarchar(20)  | Primary key         |
| ItemDescription   | Nvarchar(200) |                     |
| ItemUnitPrice     | Float         |                     |
| ItemGLCode        | NVarchar(50)  |                     |
| SupplierStockCode | Nvarchar(50)  | Supplier stock code |



# 4. DATA DOWNLOAD CSV FILE FORMATS

The following CSV file formats are included as a guideline to the file formats available. In the absence of any other design it is recommended to use the provided reference. It is possible however to change the format of the files if the chosen finance system already supports a particular format.

The CSV files to be used to transfer data from the finance system to the Redmap smart *Payables* solution shall conform to the following formats.

| EntityCode InvoiceNumber InvoiceDate PONumber InvoiceCurrencyCode InvoiceCurrencyCode InvoiceCurrencyRate POJobID POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLineD InvoiceLineLineD InvoiceLineStCode InvoiceLineTax InvoiceLineTax InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorCode VendorCode VendorCode VendorCode VendorCode VendorCode VendorCode VendorCode SoftApplicable EntityCode AccountCode AccountCode AccountCode AccountType  | File name prefix | Columns                | Description / Notes |
|---|------------------|------------------------|---------------------|
| InvoiceDate PONumber InvoiceCurrencyCode InvoiceCurrencyRate POJobID POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLine_ InvoiceLinelD InvoiceLineDescription InvoiceLineTax InvoiceLineTax InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountDescription   |                  | EntityCode             |                     |
| PONumber InvoiceCurrencyCode InvoiceCurrencyRate POJobID POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLineID InvoiceLineGLCode InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorCode VendorName AccountCode GSTApplicable  EntityCode AccountCode   |                  | InvoiceNumber          |                     |
| InvoiceCurrencyCode InvoiceCurrencyRate POJobID POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLineID InvoiceLineID InvoiceLineGLCode InvoiceLineTax InvoiceLineTax InvoiceLineAmount  EntityCode VendorABN VendorABN VendorName AccountCode GSTApplicable EntityCode GCLAccount_ GLAccount_ GLAccountCode AccountCode |                  | InvoiceDate            |                     |
| Invoice_UrrencyRate POJobID POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLine_UrrencyRate InvoiceLineDescription  InvoiceLineDescription  InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode   |                  | PONumber               |                     |
| Invoice_ POJobID POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLineID InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountDescription  |                  | InvoiceCurrencyCode    |                     |
| Invoice_ POJobCostCentre VendorCode TaxCode InvoiceTax InvoiceDescription  InvoiceLineD InvoiceLineID InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountDescription   |                  | InvoiceCurrencyRate    |                     |
| POJobCostCentre  VendorCode  TaxCode  InvoiceTax  InvoiceTotal  InvoiceDescription  InvoiceLineID  InvoiceLineDescription  InvoiceLineGLCode  InvoiceLineTax  InvoiceLineAmount  EntityCode  VendorCode  VendorABN  VendorName  AccountCode  GSTApplicable  EntityCode  AccountCode  | Invaice          | POJobID                |                     |
| TaxCode InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLineDescription  InvoiceLineID InvoiceLineDescription InvoiceLineDescription InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountDescription   | invoice_         | POJobCostCentre        |                     |
| InvoiceTax InvoiceTotal InvoiceDescription  InvoiceLineD InvoiceLineD InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountDescription  |                  | VendorCode             |                     |
| InvoiceTotal InvoiceDescription  InvoiceLineDescription  InvoiceLineID InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountDescription   |                  | TaxCode                |                     |
| InvoiceDescription  InvoiceNumber InvoiceLineID InvoiceLineDescription InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountDescription   |                  | InvoiceTax             |                     |
| InvoiceNumber InvoiceLineID InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode   |                  | InvoiceTotal           |                     |
| InvoiceLineID InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountDescription  |                  | InvoiceDescription     |                     |
| InvoiceLineID InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountDescription  |                  |                        |                     |
| Invoice_Line_ Invoice_Line_ InvoiceLineDescription InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountDescription  |                  | InvoiceNumber          |                     |
| Invoice_Line_ InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountCode AccountCode  |                  | InvoiceLineID          |                     |
| InvoiceLineGLCode InvoiceLineTax InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountCode AccountCode AccountCode AccountCode  | Invales Disa     | InvoiceLineDescription |                     |
| InvoiceLineAmount  EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode   | invoice_tine_    | InvoiceLineGLCode      |                     |
| EntityCode VendorCode VendorABN VendorName AccountCode GSTApplicable EntityCode AccountCode AccountCode AccountCode AccountCode AccountCode AccountCode   |                  | InvoiceLineTax         |                     |
| Vendor_Ode VendorABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountCode AccountCode   |                  | InvoiceLineAmount      |                     |
| Vendor_ABN VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountCode   |                  | EntityCode             |                     |
| VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountCode  |                  | VendorCode             |                     |
| VendorName AccountCode GSTApplicable  EntityCode AccountCode AccountCode AccountCode AccountDescription   |                  | VendorABN              |                     |
| GSTApplicable  EntityCode  AccountCode  AccountDescription  | Vendor_          | VendorName             |                     |
| GLAccount_  GLAccount_  AccountDescription  |                  | AccountCode            |                     |
| GLAccount_ AccountCode AccountDescription   |                  | GSTApplicable          |                     |
| GLAccount_ AccountDescription   |                  | EntityCode             |                     |
| AccountDescription  |                  | AccountCode            |                     |
| AccountType   | GLAccount_       | AccountDescription     |                     |
|   |                  | AccountType            |                     |

| File name prefix | Columns             | Description / Notes |
|------------------|---------------------|---------------------|
| Item_            | EntityCode          |                     |
|                  | ItemCode            |                     |
|                  | ItemDescription     |                     |
|                  | ItemUnitPrice       |                     |
|                  | ItemGLCode          |                     |
|                  | EntityCode          |                     |
|                  | PONumber            |                     |
|                  | PODate              |                     |
| PO_              | VendorCode          |                     |
|                  | POTotal             |                     |
|                  | Status              |                     |
|                  | PORaiser            |                     |
|                  | PONumber            |                     |
|                  | POLineID            |                     |
|                  | POLineItem          |                     |
| DO Lina          | POLineAccount       |                     |
| PO_Line          | POLineDescription   |                     |
|                  | POLineQuantity      |                     |
|                  | POLineTax           |                     |
|                  | POLineTotal         |                     |
|                  | EntityCode          |                     |
|                  | ReceiptNumber       |                     |
|                  | ReceiptDate         |                     |
| Receipt          | PONumber            |                     |
| Receipt_         | ReceiptLineID       |                     |
|                  | ReceiptLineItem     |                     |
|                  | ReceiptLineQuantity |                     |
|                  | ReceiptStatus       |                     |
|                  | ReceiptNumber       |                     |
| Receipt_Line     | ReceiptLineID       |                     |
|                  | ReceiptLineItem     |                     |
|                  | ReceiptLineQuantity |                     |

5.



# 5. DATA UPLOAD CSV FILE FORMATS

The following CSV file formats are included as a guideline to the file formats available. In the absence of any other design it is recommended to use the provided reference. It is possible however to change the format of the files if the chosen finance system already supports a particular format.

The CSV files to be used to transfer data from the finance system to the Redmap smart *Payables* solution shall conform to the following formats.

| File name prefix | Columns                | Description / Notes |
|------------------|------------------------|---------------------|
|                  | EntityCode             |                     |
|                  | InvoiceNumber          |                     |
|                  | InvoiceDate            |                     |
|                  | VendorCode             |                     |
|                  | InvoiceDescription     |                     |
| Invoice_         | InvoiceLineID          |                     |
| invoice_         | InvoiceLineDescription |                     |
|                  | InvoiceLineGLCode      |                     |
|                  | InvoiceLineTax         |                     |
|                  | InvoiceLineAmount      | Exclusive of tax    |
|                  | InvoiceTax             |                     |
|                  | InvoiceTotal           | Inclusive of taxes  |
|                  | EntityCode             |                     |
|                  | PONumber               |                     |
|                  | InvoiceNumber          |                     |
|                  | InvoiceDate            |                     |
|                  | VendorCode             |                     |
|                  | InvoiceDescription     |                     |
| POInvoice_       | InvoiceLineID          |                     |
|                  | InvoiceLineItemCode    |                     |
|                  | InvoiceLineQuantity    |                     |
|                  | InvoiceLineTax         |                     |
|                  | InvoiceLineAmount      |                     |
|                  | InvoiceTax             |                     |
|                  | InvoiceTotal           |                     |
|                  | EntityCode             |                     |
| Credit_          | CreditNumber           |                     |
|                  | CreditDate             |                     |

|           | Columns               | Description / Notes |
|-----------|-----------------------|---------------------|
|           | VendorCode            |                     |
|           | CreditDescription     |                     |
|           | CreditLineID          |                     |
|           | CreditLineDescription |                     |
|           | CreditLineGLCode      |                     |
|           | CreditLineTax         |                     |
|           | CreditLineAmount      | Exclusive of tax    |
|           | CreditTax             |                     |
|           | CreditTotal           | Inclusive of taxes  |
| I         | EntityCode            |                     |
|           | PONumber              |                     |
|           | CreditNumber          |                     |
|           | CreditDate            |                     |
| ,         | VendorCode            |                     |
|           | CreditDescription     |                     |
| POCredit_ | CreditLineID          |                     |
|           | CreditLineItemCode    |                     |
|           | CreditLineQuantity    |                     |
|           | CreditLineTax         |                     |
|           | CreditLineAmount      |                     |
|           | CreditTax             |                     |
|           | CreditTotal           |                     |
| 1         | EntityCode            |                     |
|           | PONumber              |                     |
|           | PODate                |                     |
|           | VendorCode            |                     |
|           | PODescription         |                     |
| PO_ I     | POLineID              |                     |
|           | POLineItemCode        |                     |
|           | POLineQuantity        |                     |
|           | POLineTax             |                     |
|           | POLineAmount          |                     |
|           | РОТах                 |                     |

| File name prefix | Columns             | Description / Notes  |
|------------------|---------------------|--|
|                  | POTotal             |  |
|                  | EntityCode          |  |
|                  | ReceiptNumber       |  |
|                  | ReceiptDate         |  |
| Receipt_         | PONumber            |  |
|                  | ReceiptLineID       |  |
|                  | ReceiptLineItemCode |  |
|                  | ReceiptLineQuantity |  |
| Link_            | DocumentType        | One of the following values:  → Invoice → CreditNote → PO → Receipt      |
|                  | ID                  | The identifier for the record (e.g. the invoice number or the PO number) |
|                  | URL                 | The URL at which the document(s) can be accessed                         |