

# ***simPRO2EXO***

## **Manual**

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## Document Change History

<b>Issue</b>	<b>Date</b>	<b>Comment</b>
0.0	Dec 2010	Preliminary Draft Release
0.1	Jan 20 2011	Draft Release
1.0	Feb 1 2011	Initial Product Release

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## **1. What is simPRO2EXO?**

The simPRO2EXO interface performs a synchronisation from simPRO to MYOB EXO.

It downloads the following items from simPRO into EXO:

- Clients
- Client Invoices
- Client Payments
- Suppliers and Contractors
- Supplier and Contractor Invoices
- Departments

Clients in simPRO correspond to Debtors in MYOB EXO.

Suppliers and Contractors in simPRO correspond to Creditors in MYOB EXO.

The simPRO system will export items that have not been previously marked as exported.

This means that when new transactions are available for exporting to MYOB EXO, they will be imported to EXO and marked as exported in simPRO to prevent them from being exported again.

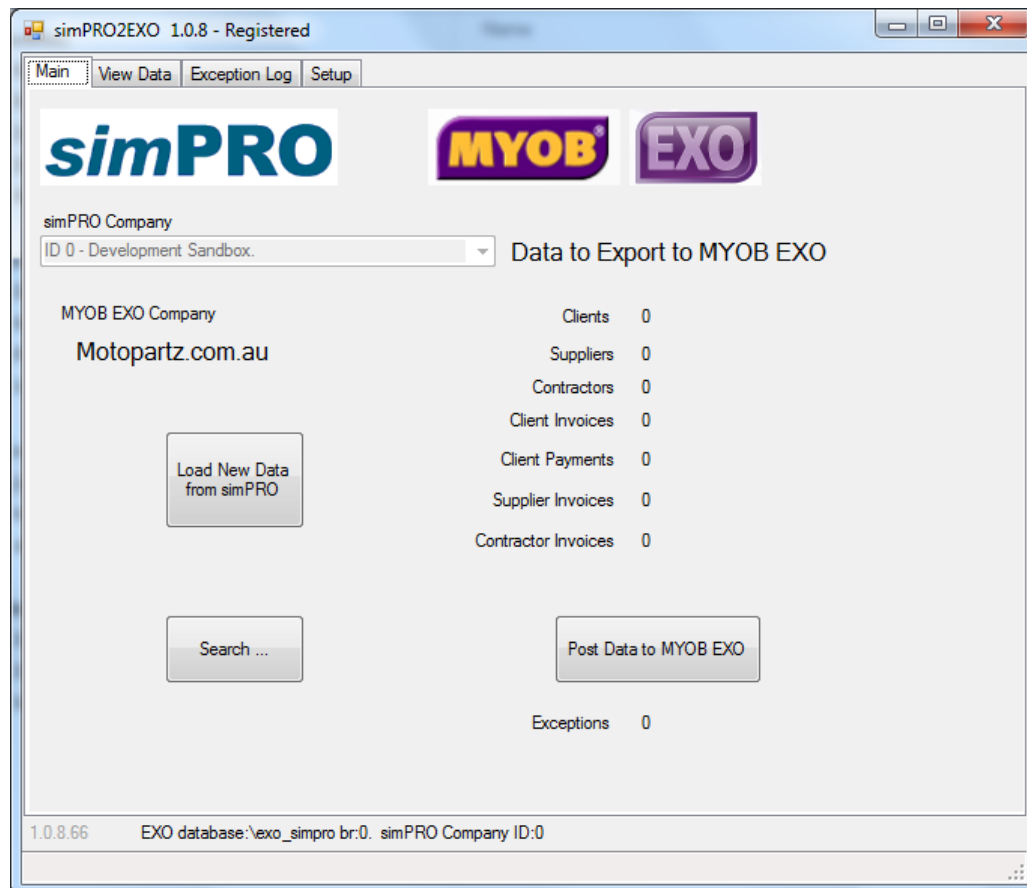
New and amended Clients, Suppliers and Contractors in simPRO will be available for export if appropriate and imported into EXO. They will not normally be exported again unless their details change in simPRO.

Departments correspond to Lookup Stock Items in MYOB EXO. They are used on the detail lines of debtor invoices in EXO.

This allows for standard Sales Analysis reports to be used in EXO with simPRO Departments.

## 2. User Guide

### 2.1 Main Page



Once simPRO2EXO has been setup, Normal operation consists of:

- Choosing the simPRO company (only in a multi-company simPRO installation)
- Click “Load New Data from simPRO”  
This downloads any new or updated items that have not been downloaded before.
- Click “Post Data to MYOB EXO”.  
This sends the downloaded data to EXO.

The item counters show the number of each type on item that has been downloaded from simPRO, prior to posting through to EXO.

Once the items are posted through to EXO, these item counters would normally be returned to zero, unless there are exceptions that have prevented transactions from being loaded into EXO.

The reasons for exceptions are covered in a later section.

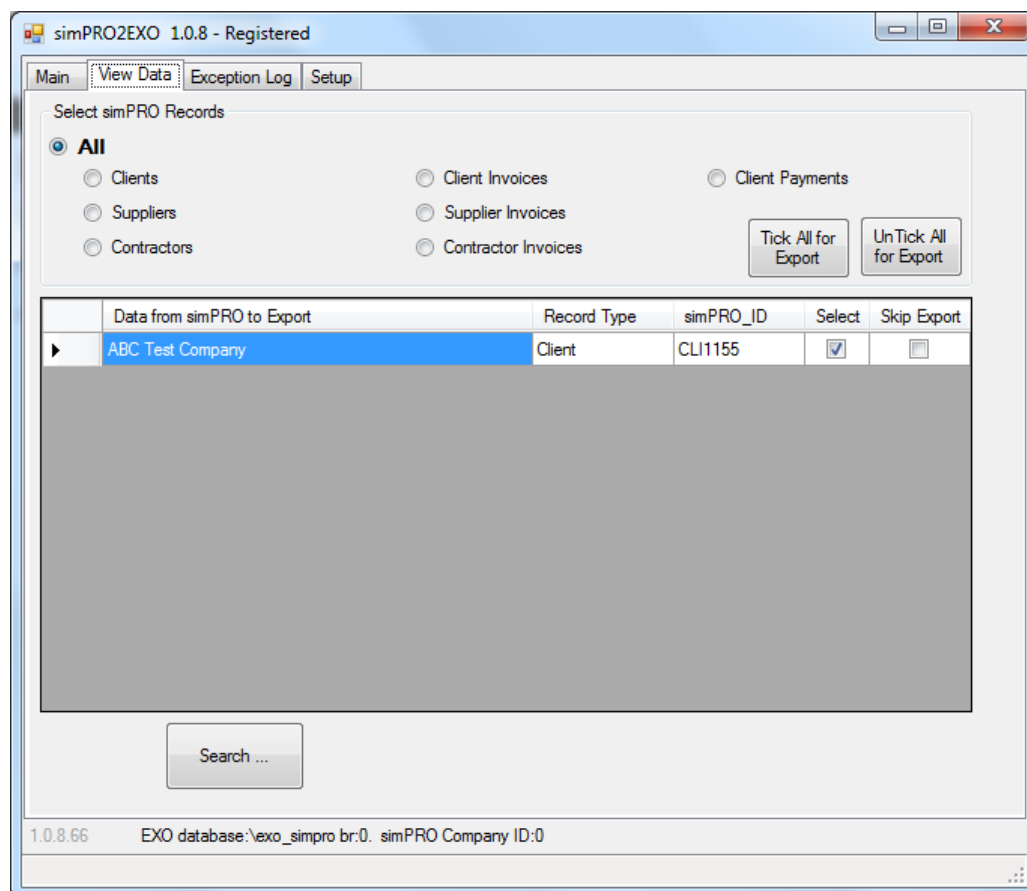
## 2.2 View Data Page

Once data has been loaded from simPRO, and before it is posted through to EXO, it can viewed on the view data page.

It is not normally necessary to use this page to view the data prior to loading into MYOB EXO.

The View Data Page can be used:

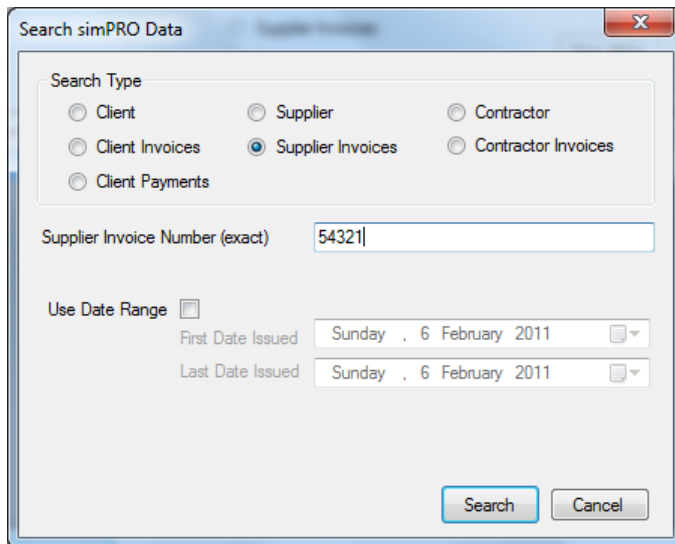
- To prevent selected transactions from being imported into EXO, by electing to “SKIP” exporting specific transactions. This might be done to address a problem where a transaction has already been manually entered into EXO inadvertently by an operator, and hence it can be skipped to prevent a double up.
- As an aid to understanding and troubleshooting synchronising with EXO by allowing the data to be viewed.
- Search for specific items in simPRO using the Search function; and choose to load them into MYOB EXO.



### 2.3 Search Button

The Search Button allows for searching for items in simPRO that have already been marked as being exported, and hence would not normally be available for download.

It used by choosing the Search parameters and clicking Search. The application will then download any items that match the search criteria, and display them on the View Data Page.



Search simPRO Data

Search Type

Client       Supplier       Contractor

Client Invoices       Supplier Invoices       Contractor Invoices

Client Payments

Supplier Invoice Number (exact)    54321

Use Date Range

First Date Issued    Sunday, 6 February 2011

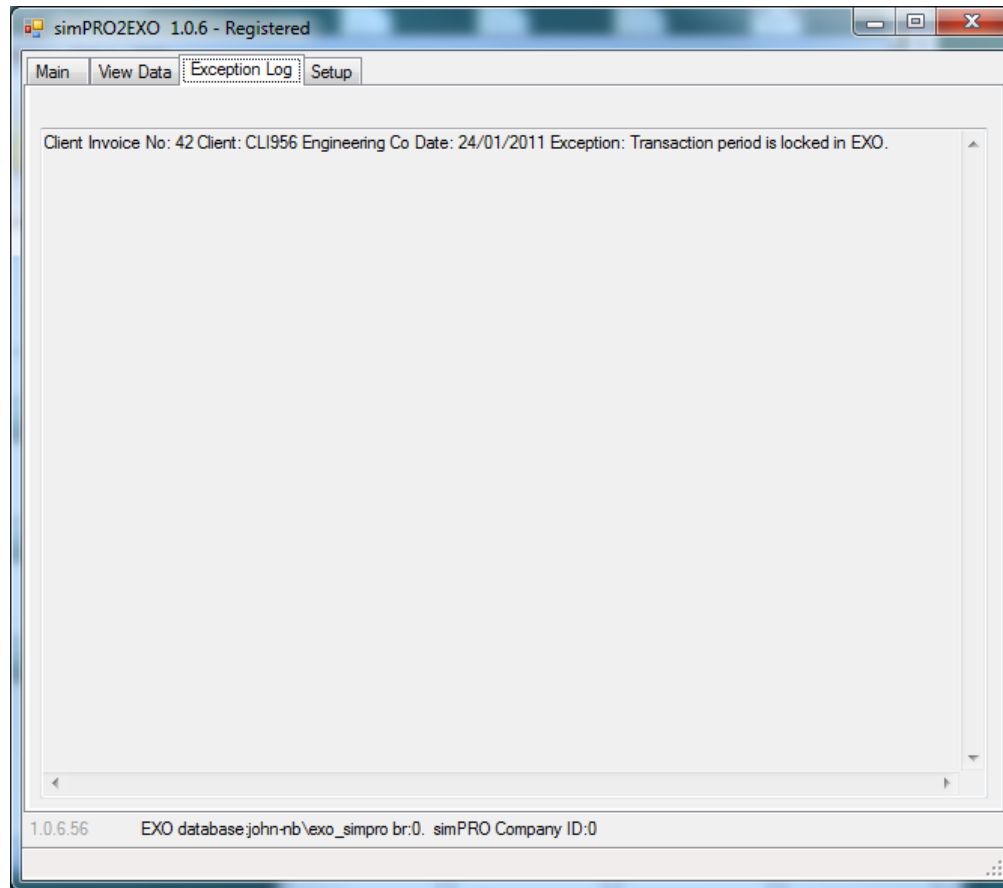
Last Date Issued    Sunday, 6 February 2011

Search    Cancel

The items can then be chosen individually for posting through to MYOB EXO if required.

## 2.4 Exception Log Page

This page is used to display the exceptions that have prevented transaction from being loaded into EXO.



The following table lists the exceptions and the reasons for them occurring.

<b>Exception Message</b>	<b>Explanation</b>
Debtor not found in EXO.	A Client Invoice or Payment has been downloaded from simPRO, but there is no debtor in EXO with a corresponding ID.  This can be solved by manually amending the details of the Client in simPRO to cause them to be exported from simPRO into EXO.
Creditor not found in EXO.	A Supplier Invoice or Contractor Invoice has been downloaded from simPRO, but there is no creditor in EXO with a corresponding ID.  This can be solved by manually amending the details of the Supplier or Contractor in

	simPRO to cause them to be exported from simPRO into EXO.
Transaction is future dated relative to EXO.	<p>The date of the transaction coming from simPRO corresponds to a future period in EXO.</p> <p>Debtor transactions are checked against the current period in the debtors ledger and creditor transactions are checked against the creditors ledger.</p>
Transaction period is locked in EXO.	<p>The date of the transaction coming from simPRO corresponds to a period in EXO that is locked.</p> <p>Debtor transactions are checked against the debtors periods and creditor transactions are checked against the creditors periods.</p>
Transaction period is not current, and 'Current Period Only' is required.	<p>On the Setup Page of the simPRO2EXO page there is an option to enforce current period only.</p> <p>This exception is due to the date on transaction not being in the current period in EXO, while that option is enabled on the Setup Page.</p>
Debtor Transaction is already present in MYOB EXO with SeqNo: ???	<p>This means that a Client transaction with a matching simPRO ID was found in EXO, and this transaction will not be loaded. This can occur when using the Search function to down load transactions from simPRO that have previously been Exported to EXO.</p>
Creditor Transaction is already present in MYOB EXO with SeqNo: ???	<p>This means that a Supplier or Contractor transaction with a matching simPRO ID was found in EXO, and this transaction will not be loaded. This can occur when using the Search function to down load transactions from simPRO that have previously been Exported to EXO.</p>

### 3. Installation Guide

#### 3.1 System Requirements

- Windows XP SP3 or Windows Server 2003 or better.
- Dot Net Framework 2.0 or better.
- EXO Version 7.400 or better.
- Read/Write privileges over the folder where simPRO2EXO is installed.
- Internet connectivity for normal HTTP traffic.

#### 3.2 Installation Notes

The simPRO2EXO application is installed by placing the executable file into any convenient location where the user has read/write privileges.

All program settings are saved into an INI file located in the same folder as the executable file.

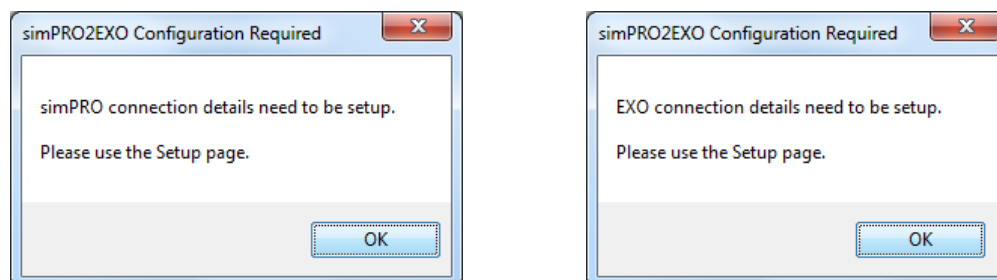
No program settings are saved in the Windows Registry.

You will need connection details for the simPRO server, consisting of server address, username and password. You will also need connection details for the EXO database, consisting of SQL Server name, database name, SQL username and password.

#### 3.3 Installation

Run the simPRO2EXO application to commence setup.

The first time it is run, messages will be displayed requesting that setup details are established.



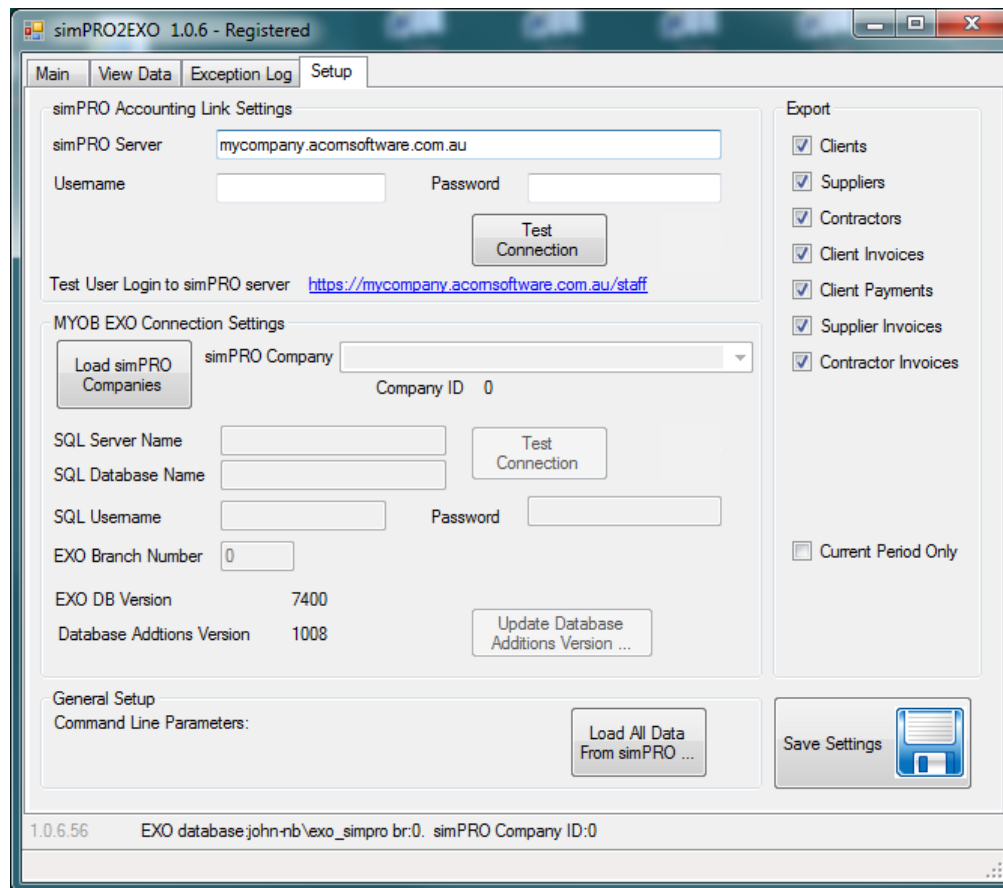
Proceed to the SETUP tab to set up the program details.

#### 3.4 Setting up simPRO Connection

Enter the address of the simPRO server, the simPRO username and password.

Click “Test Connection” to verify that the details are correct and that a connection can be established with the simPRO server.

Remember to save the settings if they are correct.



### 3.5 Setting up EXO Connections

Click “Load simPRO Companies” to retrieve a list of simPRO companies.

There may be only one in a single company installation; or more than one in multi-company installation.

A different EXO database can be associated with each simPRO company, or a single EXO database could be used with a different EXO GL Branch for each simPRO company (or a combination of multiple EXO databases and EXO branches, as required.)

Enter the EXO Database details for each simPRO company as required:

- SQL Server name
- Database name
- SQL username and password
- EXO Branch number (user zero if GL Branches are not being used)

Click “Test Connection” to verify the details and then Save Settings.

### 3.6 Loading simPRO2EXO Database Additions

When the “Test Connection” button is clicked, the version of the EXO database is displayed and also the version of the simPRO interface database additions (Zero means that the database additions have not been loaded.)

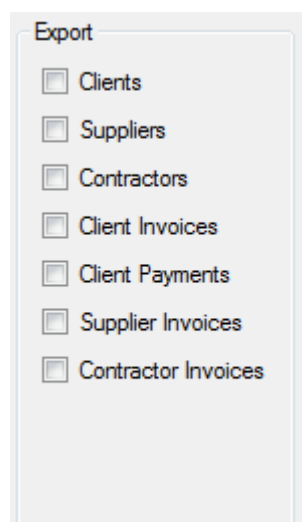
The simPRO interface database additions can be loaded by clicking the “Update Interface DB...” button. This will load the database additions or perform an update of the additions if they are already present.

When the simPRO2EXO application starts up, it will check the EXO database for the version of the additions. If the version is below the minimum requirement (1008 at the time of writing) then it prompts to apply an update for the database additions.

### 3.7 Selecting simPRO Items for Export

Choose the items to be exported from simPRO to EXO.

It would be normal to tick all items.



### 3.8 Current Period Only

This tick box is used to enforce that transactions can only be loaded into MYOB EXO if their dates correspond to the current period in EXO.

### 3.9 Populating an EXO Database from an Established simPRO System

An initial download of all Clients, Suppliers and Contractors into EXO from a pre-existing simPRO installation can be performed with the simPRO2EXO application.

This is performed by clicking the button “Load All Data From simPRO...”. This will download all Clients, Suppliers and Contractors into EXO provided they tick in the Export section.

Transactions are not downloaded into EXO using this process.

## 4. Command Line Parameters

The simPRO2EXO application can be automated by running from the command line. Hence a shortcut can be established with the appropriate command lines parameters, or it could be run from the Windows Scheduler.

The command line parameters options are as follows:

```
simPRO2EXO <company number> [auto]
```

Where:

- The company number is the simPRO company number.
- “auto” is an option parameter to automatically perform the following functions:
  - Download data from the selected simPRO company.
  - Post the data through to MYOB EXO.
  - Close the program.

Example 1:

**simPRO2EXO 3**

This will run the application in interactive mode, and will choose simPRO company number 3.

Example 2:

**simPRO2EXO 4 auto**

This will run the application in auto mode, and will choose simPRO company number 4 and perform a synchronisation with EXO. The application will then close.

## **5. Synchronisation Details**

This section provides details about the methods used to synchronise data from simPRO to EXO.

All items being exported from simPRO and imported into EXO have a unique ID. This is stored in EXO in an extra fields named X\_SIMPRO\_ID which is a varchar(10) data type.

### **5.1 Clients**

Clients in simPRO correspond to Debtors in EXO.

Clients in simPRO have a unique ID in form of CLI followed by a number. For example: CLI123.

The ID for the client is stored in an extra field X\_SIMPRO\_ID on the DR\_ACCS table. It is also stored in the AlphaCode field, but this is for readability only, and is not used for synchronisation.

If it is necessary to manually set up debtors in simPRO against Clients in EXO, then both the X\_SIMPRO\_ID field and AlphaCode fields should be populated with the ID so that synchronisation will work.

When a Client that is ready for export from simPRO is being loaded into EXO, the application will look for a client with a matching ID (in the X\_SIMPRO\_ID field). If it is not found then a new debtor in EXO will be created. If a matching debtor is found, then it will be updated with the new details.

### **5.2 Suppliers and Contractors**

Suppliers and Contractor in simPRO both correspond to Creditors in EXO.

Suppliers in simPRO have a unique ID in form of SUP followed by a number. For example: SUP123.

Contractors in simPRO have a unique ID in form of CON followed by a number. For example: CON123.

The ID for the supplier or contractor is stored in an extra field X\_SIMPRO\_ID on the CR\_ACCS table. It is also stored in the AlphaCode field, but this is for readability only, and is not used for synchronisation.

If it is necessary to manually set up creditors in simPRO against Suppliers or Contractors in EXO, then both the X\_SIMPRO\_ID field and AlphaCode fields should be populated with the ID so that synchronisation will work.

### **5.3 Client Invoices**

New client invoices will be downloaded into EXO provided there are no exceptions preventing their import into EXO.

Client invoices have an ID in simPRO which is loaded into the extra field, X\_SIMPRO\_ID, on the DR\_TRANS table.

The line details of the sales invoice in EXO use Lookup Stock Items that correspond to simPRO Departments. The GL code on the invoice lines are contained in the invoice details from simPRO.

If a matching GL code is found in EXO, then it is used on the invoice line.

If a matching GL code is not found in EXO, then the default Sales GL code in the EXO GL control accounts is used.

If the option to “Ignore Account Hyphens” is enabled then the GL Code provided in the Client Invoice details is provided with hyphens removed. The GL code is then validated in EXO, and will not be interpreted as including a sub-code.

If the “Ignore Account Hyphens” option is not enabled, then any hyphen present will be interpreted as being a separator between the GL code and Sub-code, prior to being validate in EXO.

Invoices will only be downloaded once from simPRO.

### **5.4 Client Payments**

Client payments will be downloaded into EXO provided there are no exceptions preventing their import in to EXO.

Client payments have an ID in simPRO which is loaded into the extra field, X\_SIMPRO\_ID, on the DR\_TRANS table.

Client payments in simPRO may be allocated to multiple invoices. The same allocations will be performed in EXO provided the matching invoices are present in EXO (which they should normally be).

If an invoice identified in a payment allocation detail is not present in EXO, then that amount will be left unallocated in EXO.

### **5.5 Supplier and Contractor Invoices**

New supplier and contractor invoices will be downloaded into EXO provided there are no exceptions preventing their import into EXO.

Supplier and Contactor invoices have an ID in simPRO which is loaded into the extra field, X\_SIMPRO\_ID, on the CR\_TRANS table.

These account codes provided by simPRO are validated against GL Account Codes in MYOB EXO. If a match is found, then it is used on the Creditors Invoice line. If a

matching GL Account is not found, then the Default Purchase Account as defined in the EXO GL Control Accounts will be used.

If the option to “Ignore Account Hyphens” is enabled then the GL Code provided in the Client Invoice details is provided with hyphens removed. The GL code is then validated in EXO, and will not be interpreted as including a sub-code.

If the “Ignore Account Hyphens” option is not enabled, then any hyphen present will be interpreted as being a separator between the GL code and Sub-code, prior to being validate in EXO.

Invoices will only be downloaded once from simPRO.

## **5.6 Departments**

Departments in simPRO correspond to Lookup Stock Items in MYOB EXO.

The GL coding on these Department Lookup Stock items is ignored.

The GL Coding on the Supplier, Contractor and Client invoice lines is derived directly from GL codes contained within those documents from simPRO.

The use of Department Lookup Stock items in sales invoices in EXO allows for the use of standard Sales Analysis reports.

## **6. EXO Database Additions**

This section provides a list of the additions to the EXO database. These additions consist of extra fields, tables, stored procedures and functions.

### **6.1 Extra Fields in standard EXO Tables**

- DR\_ACCS add X\_SIMPRO\_ID varchar(10)
- CR\_ACCS add X\_SIMPRO\_ID varchar(10)
- STOCK\_GROUPS add X\_SIMPRO\_ID varchar(10)
- DR\_TRANS add X\_SIMPRO\_ID varchar(10)
- CR\_TRANS add X\_SIMPRO\_ID varchar(10)
- STOCK\_ITEMS add X\_SIMPRO\_ID varchar(100)
- STOCK\_ITEMS add X\_DEPT\_BATCH\_NO INT
- STOCK\_ITEMS add X\_DEPT\_ID INT

### **6.2 SQL Stored Procedures**

- ACS\_Create\_CrInv\_GLLine\_Record
- ACS\_Create\_CrInv\_Hdr\_Record
- ACS\_Create\_CrInv\_StockLine\_Record
- ACS\_Create\_Dr\_Allocation
- ACS\_Create\_Dr\_Payment
- ACS\_Create\_DrInv\_Hdr\_Record
- ACS\_Create\_DrInv\_StockLine\_Record
- ACS\_CREATE\_STOCK\_ITEM\_DEPARTMENT
- ACS\_Create\_StockTransaction
- ACS\_Get\_GLCode
- ACS\_GetPurchaseTaxNo
- ACS\_GetSalesTaxNo
- ACS\_Merge\_Creditor
- ACS\_Merge\_Debtor

### **6.3 SQL Functions**

- ACS\_CLEAN\_INTEGER\_STRING
- ACS\_GetDatePeriodSeqno

### **6.4 SQL Tables**

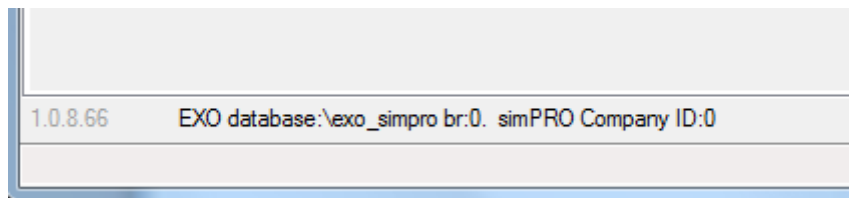
- X\_SIMPRO2EXO\_CONTROL

## 7. Configuration File

The simPRO2EXO application saves all settings in a configuration file named simPRO2EXO.ini, located in the same folder as the executable file, simPRO2EXO.exe.

The configuration file contains all settings from the SETUP page that have been saved.

The contents of the configuration file can be viewed in Windows Notepad by double-clicking on the connection details message at the lower right side of the main form as shown below. (This is provided INI files have an association with Windows Notepad.)



### 7.1 Additional Configuration Setting - NoFlagMode

There is an additional configuration setting for testing purposes that can only be established by directly editing the INI configuration file.

Add the line, NoFlagMode =-1, to the simPROConnection group in the configuration file to set the application into the test mode: NoFlagMode.

This mode prevents the application from sending any flag instructions back to simPRO. It can be used to allow for testing with live simPRO system without altering the simPRO data, by flagging it as exported.

The operator is alerted that the application is in the NoFlag mode by a red alert message in the lower right corner of the main form as shown below.

